MEMORIAS DE DISEÑO Y CÁLCULO ESTRUCTURAL CENTRO DE EXCELENCIA EN GEOCIENCIAS BLOQUE 1 – TORRE

CONVENIO INTERADMINISTRATIVO No. 12 ENTRE LA UNIVERSIDAD NACIONAL DE COLOMBIA Y EL SERVICIO GEOLÓGICO COLOMBIANO

UNIVERSIDAD NACIONAL DE COLOMBIA
SEDE BOGOTÁ

Calle 44 No 45-67. **UNIDAD CAMILO TORRES** 2° piso Oficina 203
Conmutador: (57-1) 316 5000 Ext. 10260
Correo electrónico: convensgc_fabog@unal.edu.co
Bogotá, Colombia, Suramérica

CNI INGENIEROS CONSULTORES S.A.S.
Ing. Nicolás Parra García
Elaboró

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Fecha de presentación

DAC INGENIERÍA ESTRUCTURAL S.A.S.
Ing. Diego Julián Pardo Galvis
Interventor

Leonardo Álvarez Yepes
Director Convenio

MEMORIAS DE DISEÑO Y CÁLCULO ESTRUCTURAL
BLOQUE 1 – TORRE

1.- OBJETO DEL PROYECTO

Realizar los estudios y diseños estructurales para la construcción del nuevo edificio del Centro de Excelencia en Geociencias, perteneciente al convenio interadministrativo entre la Universidad Nacional de Colombia y el Servicio Geológico Colombiano.

2.- DESCRIPCIÓN DEL PROYECTO

El proyecto arquitectónico plantea la construcción una torre de un sótano con dedicación exclusiva para parqueaderos, rampa de acceso, un cuarto de máquinas y tanques de almacenamiento de agua potable y red contra incendio. La planta baja cuenta con espacios para laboratorios y aulas, zona de recepción de muestras, data center y cuarto eléctrico.

La planta de piso 1 es un espacio abierto, sin división de espacios aparte de la recepción y los ascensores. A este nivel se accederá directamente mediante escaleras y rampa desde la acera occidental de la avenida NQS.

A partir de piso 2 se conforma una geometría en planta de forma triangular, con un gran vacío central, los usos de estos niveles son:

- Piso 2: Oficinas de profesores, sala de reuniones, área de bienestar, laboratorios docentes, laboratorios de Ultracrean, espectrometría de masas, tomografía de rocas, vulcanología, procesos fluviales, microscopía-microtermometría - microramman, análisis paleontológico, geología espectral infrarrojo e instrumentación geofísica, áreas de trabajo autónomo y baños.

- Piso 3: Oficinas de profesores, área de trabajo autónomo, laboratorios docentes, área de bienestar, depósito, laboratorio de mineralogía aplicada, baños.

- Piso 4: Aulas, área de trabajo autónomo, laboratorio docencia, área de bienestar, cafetería, laboratorios de difractometría, catodoluminiscencia y microscopios de investigación y baños.

- Piso 5: Oficinas, salas de reuniones, laboratorios hidrocarburos, baños.

- Piso 6: Laboratorios, bodegas de recursos minerales, oficinas, sala de capacitación, sala de reuniones, baños.

- Piso 7: Centro de monitoreo, sala de prensa, oficinas sistema de información geocientífica, laboratorios de aguas subterráneas, cartografía, tectónica, geotermia, baños.

- Piso 8: Laboratorios de movimientos de masas, geotérmica, geoquímica, carbones, aguas, geoamenazas, geored, oficina red sismológica, sala de reunión, baños.

- Piso 9: Laboratorio de equipos convencionales de aguas, análisis reológicos, petrografía, y gas metano, cafetería, baños.

- Piso 10: Laboratorio de cromatografía iónica y de gases, análisis fisicoquímico, digestión, bodega de muestras en proceso, bodega de reactivos, baños.

- Piso 11: laboratorio de rayos x, fluorescencia de rayos x, mercurio, metrología, baños.

- Piso 12: Oficinas, sala de juntas, sala de espera, secretaría, área de bienestar, baños.

- Cubierta inclinada en placa maciza con vigas y viguetas descolgadas.

2.1.- Características generales
Localización: Avenida NQS (Carrera 30) con Diagonal 52 bis, Bogotá D.C.
Nivel de Amenaza Sísmica: Intermedia
Diseño Arquitectónico: Arq. Leonardo Álvarez Yepes
Estudio de Suelos: Grupo de Investigación en Suelos Residuales y Parcialmente Saturados - Universidad Nacional de Colombia.

2.2.- Número de pisos
El edificio tiene un sótano que se desarrollará a partir del nivel NE-5.25m. Continua con 13 pisos (laboratorios, oficinas y aulas) y cubierta, hasta llegar al nivel NE+57.85m.

3.- PLANTEAMIENTO DEL SISTEMA ESTRUCTURAL

Conceptualmente se trata de una estructura con sistema principal de resistencia sísmica combinado en altura, conformado por muros de carga de sótano a piso 2, y pórticos resistentes a momento de piso 2 a cubierta. Los principios del diseño estructural son los siguientes:

- De sótano a piso 2, los muros de carga se distribuyen uniformemente sobre toda la estructura.
- Todas las columnas y/o pantallas se vinculan entre sí mediante vigas en las dos direcciones.
- Los entrepisos son placas macizas con vigas y viguetas descolgadas que conforman diafragmas rígidos en cada nivel. En algunas zonas específicas, los entrepisos contarán con losa inferior.
- El sistema de muros de carga y pórticos resiste las fuerzas verticales y horizontales (sísmicas), y será detallado para una capacidad de disipación especial de energía (DES), dada la altura y grado de importancia del edificio.
- La estructura se resuelve con materiales de uso convencional en nuestro medio, acorde con las prácticas y disponibilidad de mano de obra, materiales y equipos. Esto es coherente con el planteamiento arquitectónico en el que se intenta utilizar las propiedades de los materiales propios de nuestro medio para resolver los requisitos de resistencia, rigidez, acústica y confort del edificio.
- Se cumple el requisito de estructura flexible (pórticos en concreto) apoyada sobre una con mayor rigidez (muros de carga).

3.1.- Descripción del sistema estructural
El sistema principal de resistencia sísmica del edificio se define como combinado en altura, conformado por muros de carga de cimentación a piso 2 y pórticos resistentes a momento en

concreto reforzado de piso 2 a cubierta. Adicionalmente, los muros de los núcleos laterales que definen los puntos fijos son continuos desde cimentación hasta cubierta, y tienen la responsabilidad de aportar rigidez y soportar las cargas horizontales producidas por las acciones sísmicas. Las columnas y muros pantalla se vinculan mediante vigas en ambas direcciones, con luces aproximadamente modulares entre 5.80 y 13.80m.

3.2.- Capacidad de disipación de energía

De acuerdo con el material de la estructura, la altura del edificio y las características del sistema de resistencia sísmica descrito, se establece el grado de disipación de energía para el proyecto como **disipación especial de energía (DES).**

Teniendo en cuenta el ítem A.3.2.4.1 de NSR-10, cuando se tiene combinación de sistemas estructurales en altura el valor básico del coeficiente de disipación de energía utilizado en cualquier nivel y dirección, debe ser el menor de los sistemas, por tanto R_0=5.0.

Se realizó el correspondiente chequeo de irregularidades conforme a lo establecido en las tablas A.3-6 y A.3-7, obteniendo los siguientes coeficientes de reducción de la capacidad de disipación de energía:

Tipo 2P Retrocesos en las esquinas: ϕ_p=0.90
Tipo 5P Irregularidad en plata por sistemas no paralelos: ϕ_p=0.90
Tipo 3A Irregularidad en altura geométrica: ϕ_a=0.90
Irregularidad por ausencia de redundancia en ambas direcciones: ϕ_r=1.00

Valor del coeficiente de disipación de energía:

En ambas direcciones: R = 5.00 x 0.90 x 0.90 x 1.00 = 4.05

3.3.- Sistema de entrepiso

De acuerdo con las luces de los vanos, la geometría del edificio y las cargas de uso esperadas, se define el tipo de entrepiso compuesto por una placa maciza de 10cm de espesor, con vigas y viguetas descolgadas en una dirección, con o sin torta inferior.

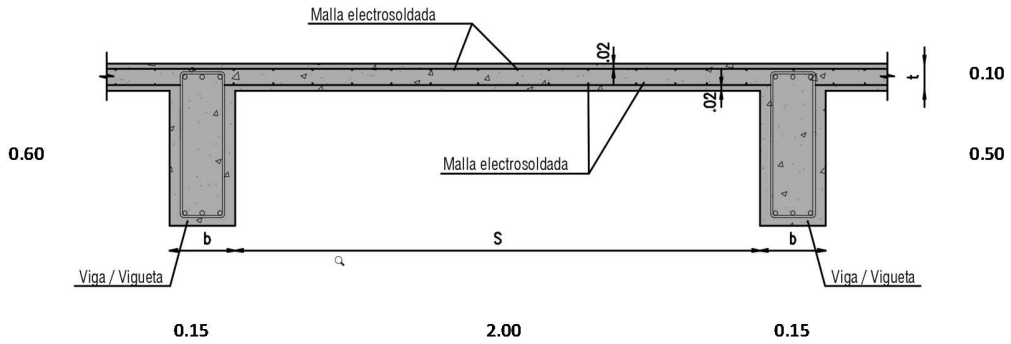


Figura 1: Sección de Placa maciza con vigas descolgadas

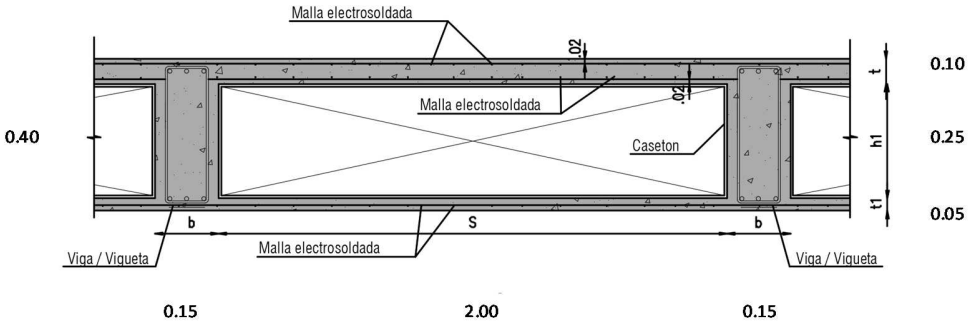


Figura 2: Sección de Placa maciza con vigas descolgadas y losa inferior

4.- ANALISIS DE CARGAS

4.1.- Cargas muertas y vivas

Las cargas muertas se calculan de acuerdo con el peso propio de todos los elementos considerados a partir de la masa de los materiales según su densidad. Las cargas muertas utilizadas en el diseño son:

PLANTA BAJA
Cielo raso 25 kg/m^2
Acabados 150 kg/m^2
Acabados 120 kg/m^2

PISO 1
Cielo raso 25 kg/m^2
Acabados 200 kg/m^2

OFICINAS

Cielo raso	25 kg/m^2
Acabados	150 kg/m^2
Muros divisorios	100 kg/m^2

LABORATORIOS Y AULAS

Cielo raso	25 kg/m^2
Acabados	150 kg/m^2
Muros divisorios	50 kg/m^2

CAFETERÍA Y CUBIERTA

Cielo raso	25 kg/m^2
Acabados	150 kg/m^2

TERRAZA

Cielo raso	25 kg/m^2
Acabados	200 kg/m^2

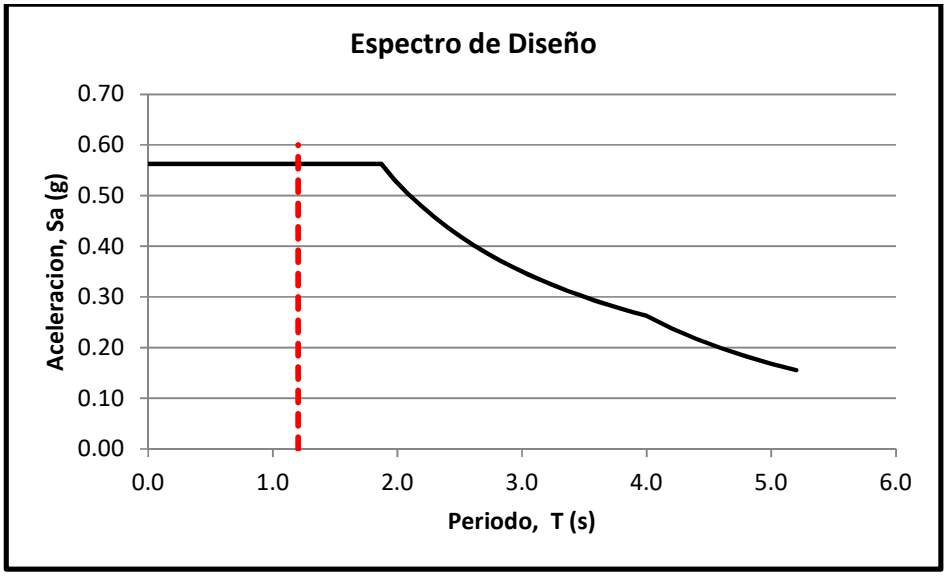
Según el uso que tendrán las diferentes áreas, las cargas vivas utilizadas en el análisis corresponden a:

- Laboratorios: 400 kg/m^2
- Piso 1 Lobby Acceso: 500 kg/m^2
- Oficinas y Aulas: 200 kg/m^2
- Cafetería y Terraza: 500 kg/m^2
- Cubierta: 200 kg/m^2

4.2.- Movimiento sísmico de diseño

El proyecto se encuentra ubicado en la zona Lacustre 200 de la Microzonificación Sísmica de Bogotá. Los parámetros de cálculo de la fuerza sísmica para la estructura son los siguientes:

Zona de amenaza: Intermedia
Aceleración: A_a = 0.15; A_v = 0.20
Coeficiente de ampliación: F_a = 1.20; F_v = 3.50
Zona Microzonificación: Lacustre 200
Coeficiente de Importancia I =1.25 (Grupo III)



4.2.1.- Fuerzas sísmicas

Las fuerzas sísmicas se calcularon por el Método de análisis dinámico espectral, como se establece en el Capítulo A.5 de la NSR-10. Se calcularon 20 modos de vibración obteniendo más del 90% de participación de masa en ambas direcciones. Los resultados de cada modo se combinaron mediante el método CQC para obtener el cortante total en la base. El valor del cortante dinámico se ajustó de la siguiente manera:

Peso de la estructura: W = 26749.59 t
Periodo fundamental: T = 1.302 s
Aceleración: S_a = 0.563

Cortante basal	V_s = 0.563 x 26749.59 = 15060.02 t
Cortante basal reducido	0.90 V_s = 13554.02 t
Cortante dinámico en X:	V_{sX} = 10158.27 t
Factor de ajuste en X:	Fx = 1.334
Cortante dinámico en Z:	V_{sZ} = 9649.76 t
Factor de ajuste en X:	Fx = 1.405

Las fuerzas calculadas de esta manera se distribuyeron de acuerdo a la rigidez de los entrepisos, teniendo en cuenta además los efectos de torsión accidental recomendados en el Reglamento NSR-10.

5.- CIMENTACIÓN

De acuerdo con el estudio de suelos realizado por el Grupo de Investigación en Suelos Residuales y Parcialmente Saturados de la Universidad Nacional de Colombia, la cimentación se conforma mediante pilotes y barretes preexcavados y fundidos in situ, a 55 m de profundidad, medidos desde el nivel del nivel actual del terreno, separados 3 veces el diámetro, trabajando por fricción y punta. Adicionalmente se debe contemplar la placa de fondo totalmente estanca sometida a una subpresión de 3 t/m2.

Teniendo en cuenta las estructuras vecinas en parte del edificio, se plantean dos sistemas de contención diferentes, planta preexcavada en la zona aledaña el Bloque 2 (edificio 631), y muro de contención convencional excavado por taludes sobre el perímetro libre del proyecto.

5.1.- Proceso constructivo

Etapa 1
- Construcción de la pantalla preexcavada perimetral en la zona aledaña del edificio 631 (Bloque 2), simultáneamente a la excavación y fundida de pilotes y barretes de cimentación.

Etapa 2
- Excavación contra al costado libre del edificio y en la zona central, mediante taludes 3H:4V dejando una berma de 5m contra la pantalla preexcavada.

Etapa 3
- Una vez se excave hasta el nivel de cimentación, se deberán fundir vigas, viguetas, dados y placa de subpresión. Adicionalmente se deben dejar proyectados los arranques de columnas y pantallas.
- Construcción de muro de contención contra el costado libre del edificio.

Etapa 4
- Construcción de las pantallas y columnas hasta planta baja.
- Fundida sobre el terreno de placa andén contra la pantalla preexcavada.
- Excavación por trincheras de 2.00 m de ancho en cada uno de los ejes estructurales contra la pantalla preexcavada.
- Fundida de placa de subpresión dentro de la trinchera.

Etapa 5

- Excavación sucesiva por trincheras de 4 m de ancho máximo, alternadas, del material faltante y construcción de la placa de subpresión para apuntalamiento.

5.- MATERIALES DE CONSTRUCCIÓN

Las especificaciones generales de los materiales de construcción utilizadas en el análisis:

5.1.- Concreto

De limpieza (pobre):	f'_c = 140 kg/cm^2 (14 MPa)
Pilotes y barretes:	f'_c = 280 kg/cm^2 (28 MPa)
Pantalla preexcavada:	f'_c = 280 kg/cm^2 (28 MPa)
Muros de contención:	f'_c = 280 kg/cm^2 (28 MPa)
Placa de subpresión y dados:	f'_c = 280 kg/cm^2 (28 MPa)
Columnas y pantallas:	f'_c = 490 kg/cm^2 (49 MPa)
Vigas y placas aéreas:	f'_c = 490 kg/cm^2 (49 MPa)

5.2.- Refuerzo

3/8" y mayores	fy = 4200 kg/cm^2 (420 MPa)
1/4" y menores	fy = 4200 kg/cm^2 (420 MPa)

Cualquier modificación en las dimensiones y/o especificaciones de los elementos deberá consultarse para estudiar su incidencia en el diseño.

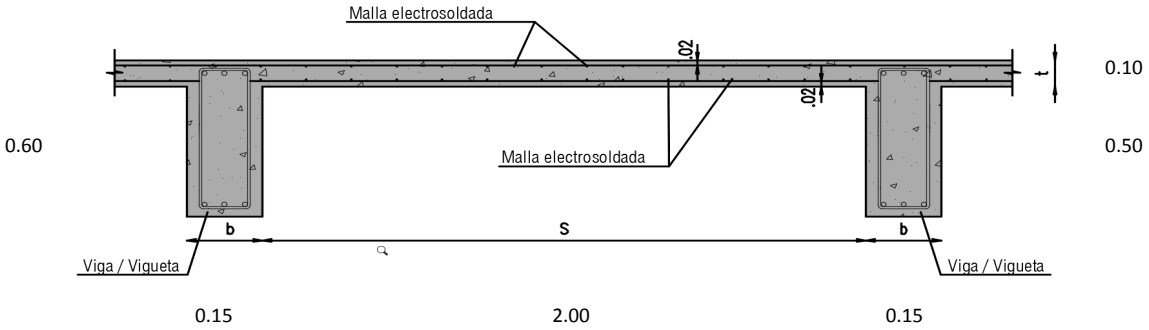
Cordialmente,

NICOLAS PARRA GARCIA
Ingeniero Civil
Mat. 25202-62063 CND
CNI INGENIEROS CONSULTORES S.A.S

ANÁLISIS DE CARGA PLACA MACIZA CON VIGAS DESCOLGADAS EN UNA DIRECCIÓN SIN TORTA INFERIOR

PROYECTO: EDIFICIO UNAL-SGC CALCULO: DCC

PISO: PLANTA BAJA - LABORATORIOS



CARGAS	[Kg/m^2]	[Kg/m^2]
* PLACA	240	
* VIGUETAS	84	
* CIELO RASO		25
* ACABADOS		150
* MUROS DIVISORIOS		150

C. MUERTA **324** **Kg/m^2** **+** **325** **Kg/m^2**

C. VIVA **400** **Kg/m^2**

C. TOTAL = **1049** **Kg/m^2**

C. ULTIMA = 1.2 CM + 1.6 CV = **1419** **Kg/m^2**

Factor de Carga, F.C.= **1.35**

Nota: El peso propio de vigas lo calcula automaticamente el programa

CARGA A VIGUETAS:

q_u / Vigueta = 1419 x 2.15 = **3050.4** **Kg/m**

DISEÑO DE LA LOSA

C. MUERTA =	540.0	Kg/m^2	Materiales	(kg/cm^2)	
C. VIVA =	400.0	Kg/m^2	f'c =	490	b (cm) = 100
C. ULTIMA =	1288.0	Kg/m^2	fy =	4200	d (cm) = 7

Diseño a Flexión

	M_u (kg-m/m)	R (kg/cm^2)	k	ρ	A_s (cm^2/m)
M-	515.20	0.117	0.12	0.0031	2.20
M+	368.00	0.083	0.12	0.0022	1.80

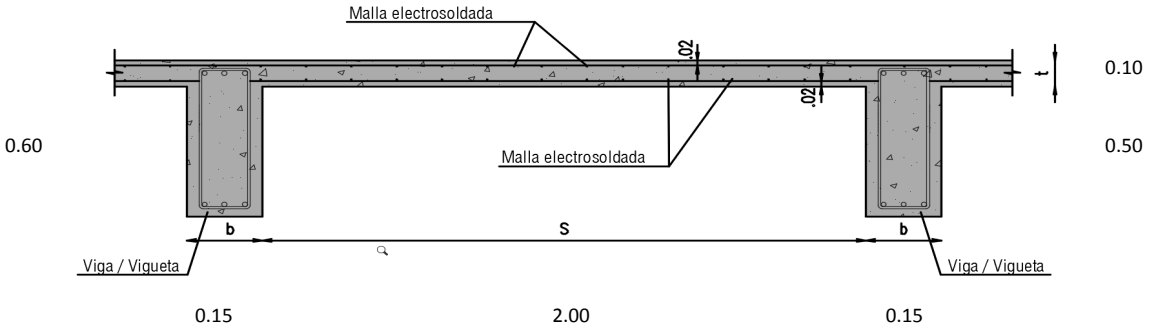
Chequeo Cortante

V_u (kg/m)	ϕV_c (kg/m)	Check
1288.00	6159.33	Ok

ANÁLISIS DE CARGA PLACA MACIZA CON VIGAS DESCOLGADAS EN UNA DIRECCIÓN SIN TORTA INFERIOR

PROYECTO: EDIFICIO UNAL-SGC CALCULO: DCC

PISO: PLANTA BAJA - LABORATORIOS



CARGAS	[Kg/m^2]	[Kg/m^2]
* PLACA	240	
* VIGUETAS	84	
* CIELO RASO		25
* ACABADOS		200
* CUBIERTA VERDE		150

C. MUERTA **324** **Kg/m^2** **+** **375** **Kg/m^2**

C. VIVA **500** **Kg/m^2**

C. TOTAL = **1199** **Kg/m^2**

C. ULTIMA = 1.2 CM + 1.6 CV = **1639** **Kg/m^2**

Factor de Carga, F.C.= **1.37**

Nota: El peso propio de vigas lo calcula automaticamente el programa

CARGA A VIGUETAS:

q_u / Vigueta = 1639 x 2.15 = **3523.4** **Kg/m**

DISEÑO DE LA LOSA

C. MUERTA =	590.0	Kg/m^2	Materiales	(kg/cm^2)	
C. VIVA =	500.0	Kg/m^2	f'c =	490	b (cm) = 100
C. ULTIMA =	1508.0	Kg/m^2	fy =	4200	d (cm) = 7

Diseño a Flexión

	M_u (kg-m/m)	R (kg/cm^2)	k	ρ	A_s (cm^2/m)
M-	603.20	0.137	0.12	0.0037	2.58
M+	430.86	0.098	0.12	0.0026	1.83

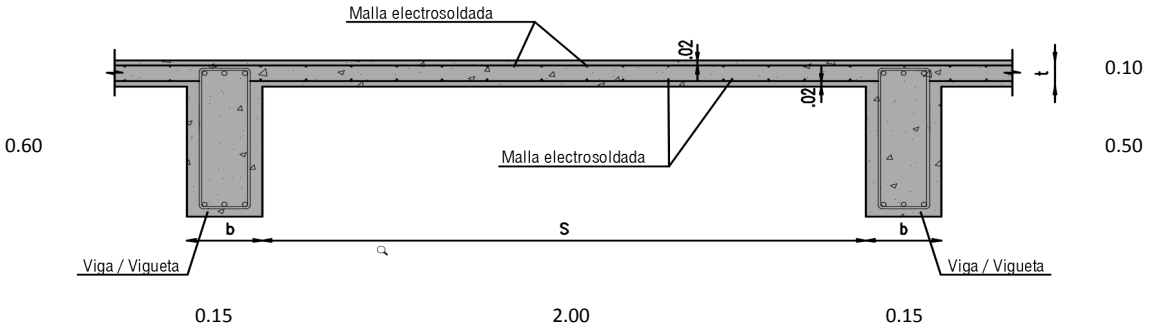
Chequeo Cortante

V_u (kg/m)	ϕV_c (kg/m)	Check
1508.00	6159.33	Ok

ANÁLISIS DE CARGA PLACA MACIZA CON VIGAS DESCOLGADAS EN UNA DIRECCIÓN SIN TORTA INFERIOR

PROYECTO: EDIFICIO UNAL-SGC CALCULO: DCC

PISO: PISO 1



CARGAS	[Kg/m^2]	[Kg/m^2]
* PLACA	240	
* VIGUETAS	84	
* CIELO RASO		25
* ACABADOS		200
* MUROS DIVISORIOS		0

C. MUERTA **324** **Kg/m^2** **+** **225** **Kg/m^2**

C. VIVA **500** **Kg/m^2**

C. TOTAL = **1049** **Kg/m^2**

C. ULTIMA = 1.2 CM + 1.6 CV = **1459** **Kg/m^2**

Factor de Carga, F.C.= **1.39**

Nota: El peso propio de vigas lo calcula automaticamente el programa

CARGA A VIGUETAS:

q_u / Vigueta = 1459 x 2.15 = **3136.4** **Kg/m**

DISEÑO DE LA LOSA

C. MUERTA =	440.0	Kg/m^2	Materiales	(kg/cm^2)	
C. VIVA =	500.0	Kg/m^2	f'c =	490	b (cm) = 100
C. ULTIMA =	1328.0	Kg/m^2	fy =	4200	d (cm) = 7

Diseño a Flexión

	M_u (kg-m/m)	R (kg/cm^2)	k	ρ	A_s (cm^2/m)
M-	531.20	0.120	0.12	0.0032	2.27
M+	379.43	0.086	0.12	0.0023	1.80

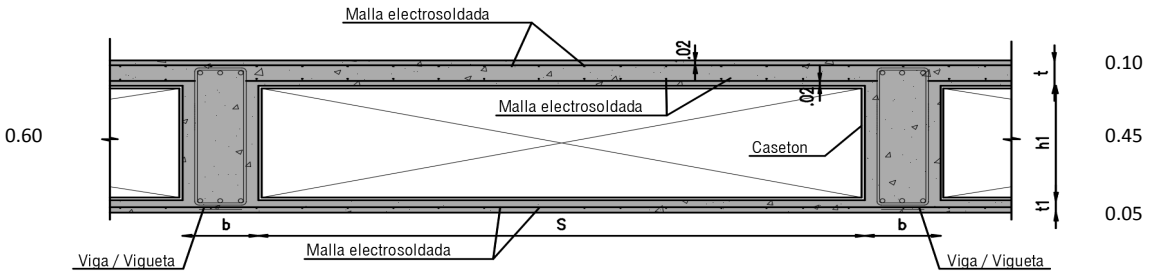
Chequeo Cortante

V_u (kg/m)	ϕV_c (kg/m)	Check
1328.00	6159.33	Ok

ANÁLISIS DE CARGA PLACA MACIZA CON VIGAS DESCOLGADAS EN UNA DIRECCIÓN CON TORTA INFERIOR

PROYECTO: EDIFICIO UNAL-SGC CALCULO: DCC

PISO: PISO 1 CON TORTA



CARGAS	[Kg/m^2]	[Kg/m^2]
* PLACA	360	
* VIGUETAS	75	
* CASETON		25
* ACABADOS		200
* MUROS DIVISORIOS		0

C. MUERTA **435** **Kg/m^2** **+** **225** **Kg/m^2**
C. VIVA **500** **Kg/m^2**

C. TOTAL = **1160** **Kg/m^2**
C. ULTIMA = 1.2 CM + 1.6 CV = **1592** **Kg/m^2**
Factor de Carga, F.C.= **1.37**

Nota: El peso propio de vigas lo calcula automaticamente el programa

CARGA A VIGUETAS:
q_u / Vigueta = 1592 x 2.15 = **3422.8** **Kg/m**

DISEÑO DE LA LOSA SUPERIOR

			Materiales	(kg/cm^2)		
C. MUERTA =	440.0	Kg/m^2				
C. VIVA =	500.0	Kg/m^2	f'c =	490	b (cm) =	100
C. ULTIMA =	1328.0	Kg/m^2	fy =	4200	d (cm) =	7

Diseño a Flexión

	M_u (kg-m/m)	R (kg/cm^2)	k	ρ	A_s (cm^2/m)
M-	531.20	0.120	0.12	0.0032	2.27
M+	379.43	0.086	0.12	0.0023	1.80

Chequeo Cortante

V_u (kg/m)	ϕV_c (kg/m)	Check
1328.00	6159.33	Ok

DISEÑO DE LA LOSA INFERIOR

			Materiales	(kg/cm^2)		
C. MUERTA =	145.0	Kg/m^2	f'c =	490	b (cm) =	100
C. ULTIMA =	174.0	Kg/m^2	fy =	4200	d (cm) =	2.5

Diseño a Flexión

	M_u (kg-m/m)	R (kg/cm^2)	k	ρ	A_s (cm^2/m)
M-	69.60	0.124	0.12	0.0033	0.90
M+	49.71	0.088	0.12	0.0024	0.90

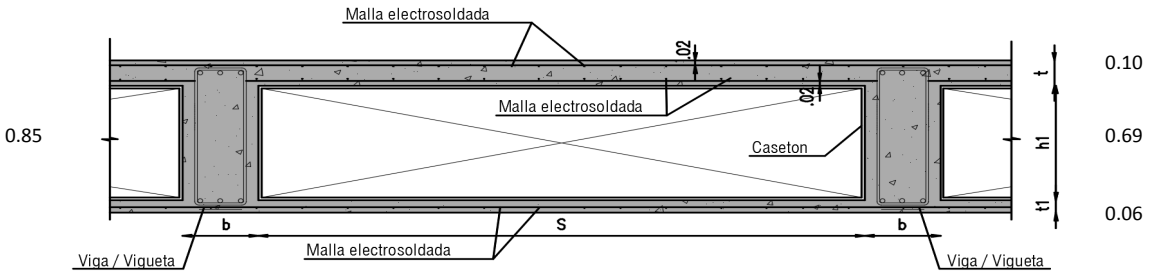
Chequeo Cortante

V_u (kg/m)	ϕV_c (kg/m)	Check
174.00	2199.76	Ok

ANÁLISIS DE CARGA PLACA MACIZA CON VIGAS DESCOLGADAS EN UNA DIRECCIÓN CON TORTA INFERIOR

PROYECTO: EDIFICIO UNAL-SGC CALCULO: DCC

PISO: PISO 2 - OFICINAS



CARGAS	[Kg/m^2]	[Kg/m^2]
* PLACA	384	
* VIGUETAS	116	
* CASETON		25
* ACABADOS		150
* MUROS DIVISORIOS		100

C. MUERTA **500** **Kg/m^2** **+** **275** **Kg/m^2**
C. VIVA **200** **Kg/m^2**

C. TOTAL = **975** **Kg/m^2**
C. ULTIMA = 1.2 CM + 1.6 CV = **1250** **Kg/m^2**
Factor de Carga, F.C.= **1.28**

Nota: El peso propio de vigas lo calcula automaticamente el programa

CARGA A VIGUETAS:
q_u / Vigueta = 1250 x 2.15 = **2687.5** **Kg/m**

DISEÑO DE LA LOSA SUPERIOR

			Materiales	(kg/cm^2)		
C. MUERTA =	490.0	Kg/m^2				
C. VIVA =	200.0	Kg/m^2	f'c =	490	b (cm) =	100
C. ULTIMA =	908.0	Kg/m^2	fy =	4200	d (cm) =	7

Diseño a Flexión

	M_u (kg-m/m)	R (kg/cm^2)	k	ρ	A_s (cm^2/m)
M-	363.20	0.082	0.12	0.0022	1.80
M+	259.43	0.059	0.12	0.0016	1.80

Chequeo Cortante

V_u (kg/m)	ϕV_c (kg/m)	Check
908.00	6159.33	Ok

DISEÑO DE LA LOSA INFERIOR

			Materiales	(kg/cm^2)		
C. MUERTA =	169.0	Kg/m^2	f'c =	490	b (cm) =	100
C. VIVA =	100.0	Kg/m^2	fy =	4200	d (cm) =	3
C. ULTIMA =	362.8	Kg/m^2				

Diseño a Flexión

	M_u (kg-m/m)	R (kg/cm^2)	k	ρ	A_s (cm^2/m)
M-	145.12	0.179	0.12	0.0049	1.46
M+	103.66	0.128	0.12	0.0034	1.08

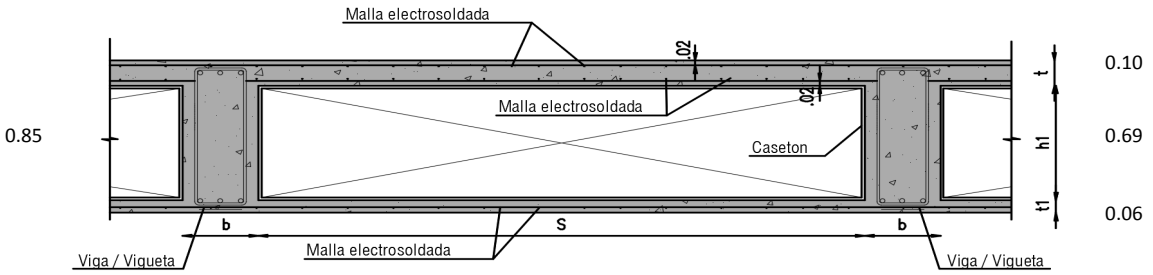
Chequeo Cortante

V_u (kg/m)	ϕV_c (kg/m)	Check
362.80	2639.71	Ok

ANÁLISIS DE CARGA PLACA MACIZA CON VIGAS DESCOLGADAS EN UNA DIRECCIÓN CON TORTA INFERIOR

PROYECTO: EDIFICIO UNAL-SGC CALCULO: DCC

PISO: PISO 2 - LABORATORIOS



0.15 2.00 0.15

CARGAS	[Kg/m^2]	[Kg/m^2]
* PLACA	384	
* VIGUETAS	116	
* CASETON		25
* ACABADOS		150
* MUROS DIVISORIOS		50

C. MUERTA **500** **Kg/m^2** **+** **225** **Kg/m^2**
C. VIVA **400** **Kg/m^2**

C. TOTAL = **1125** **Kg/m^2**
C. ULTIMA = 1.2 CM + 1.6 CV = **1510** **Kg/m^2**
Factor de Carga, F.C.= **1.34**

Nota: El peso propio de vigas lo calcula automaticamente el programa

CARGA A VIGUETAS:
q_u / Vigueta = 1510 x 2.15 = **3246.5** **Kg/m**

DISEÑO DE LA LOSA SUPERIOR

			Materiales	(kg/cm^2)		
C. MUERTA =	440.0	Kg/m^2				
C. VIVA =	400.0	Kg/m^2	f'c =	490	b (cm) =	100
C. ULTIMA =	1168.0	Kg/m^2	fy =	4200	d (cm) =	7

Diseño a Flexión

	M_u (kg-m/m)	R (kg/cm^2)	k	ρ	A_s (cm^2/m)
M-	467.20	0.106	0.12	0.0028	1.99
M+	333.71	0.076	0.12	0.0020	1.80

Chequeo Cortante

V_u (kg/m)	ϕV_c (kg/m)	Check
1168.00	6159.33	Ok

DISEÑO DE LA LOSA INFERIOR

			Materiales	(kg/cm^2)		
C. MUERTA =	169.0	Kg/m^2	f'c =	490	b (cm) =	100
C. VIVA =	100.0	Kg/m^2	fy =	4200	d (cm) =	3
C. ULTIMA =	362.8	Kg/m^2				

Diseño a Flexión

	M_u (kg-m/m)	R (kg/cm^2)	k	ρ	A_s (cm^2/m)
M-	145.12	0.179	0.12	0.0049	1.46
M+	103.66	0.128	0.12	0.0034	1.08

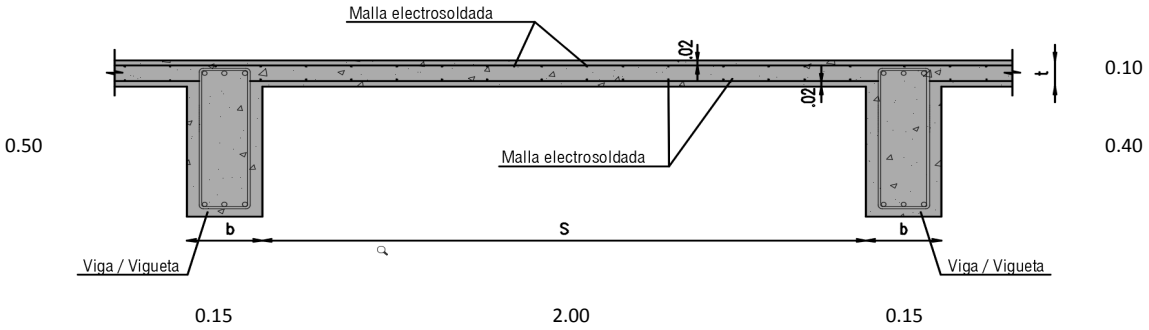
Chequeo Cortante

V_u (kg/m)	ϕV_c (kg/m)	Check
362.80	2639.71	Ok

ANÁLISIS DE CARGA PLACA MACIZA CON VIGAS DESCOLGADAS EN UNA DIRECCIÓN SIN TORTA INFERIOR

PROYECTO: EDIFICIO UNAL-SGC CALCULO: DCC

PISO: LABORATORIOS



CARGAS	[Kg/m^2]	[Kg/m^2]
* PLACA	240	
* VIGUETAS	67	
* CIELO RASO		25
* ACABADOS		150
* MUROS DIVISORIOS		50

C. MUERTA **307** **Kg/m^2** **+** **225** **Kg/m^2**

C. VIVA **400** **Kg/m^2**

C. TOTAL = **932** **Kg/m^2**

C. ULTIMA = 1.2 CM + 1.6 CV = **1278** **Kg/m^2**

Factor de Carga, F.C.= **1.37**

Nota: El peso propio de vigas lo calcula automaticamente el programa

CARGA A VIGUETAS:

q_u / Vigueta = 1278 x 2.15 = **2748.6** **Kg/m**

DISEÑO DE LA LOSA

C. MUERTA =	440.0	Kg/m^2	Materiales	(kg/cm^2)	
C. VIVA =	400.0	Kg/m^2	f'c =	490	b (cm) = 100
C. ULTIMA =	1168.0	Kg/m^2	fy =	4200	d (cm) = 7

Diseño a Flexión

	M_u (kg-m/m)	R (kg/cm^2)	k	ρ	A_s (cm^2/m)
M-	467.20	0.106	0.12	0.0028	1.99
M+	333.71	0.076	0.12	0.0020	1.80

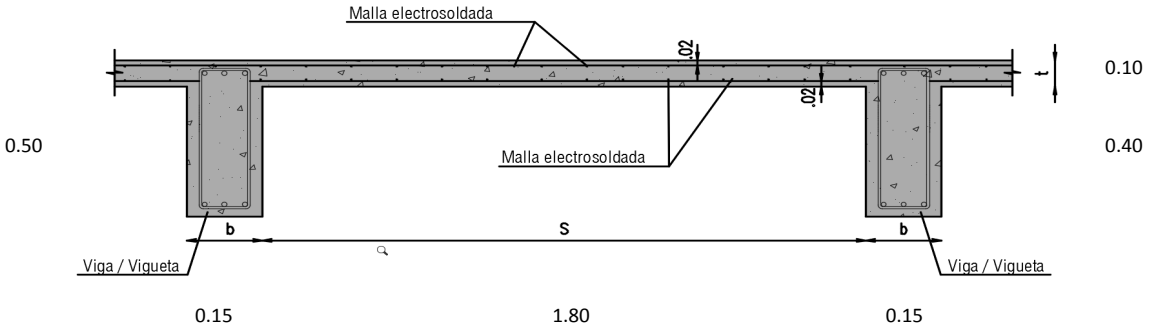
Chequeo Cortante

V_u (kg/m)	ϕV_c (kg/m)	Check
1168.00	6159.33	Ok

ANÁLISIS DE CARGA PLACA MACIZA CON VIGAS DESCOLGADAS EN UNA DIRECCIÓN SIN TORTA INFERIOR

PROYECTO: EDIFICIO UNAL-SGC CALCULO: DCC

PISO: OFICINAS TIPO 1



CARGAS	[Kg/m^2]	[Kg/m^2]
* PLACA	240	
* VIGUETAS	74	
* CIELO RASO		25
* ACABADOS		150
* MUROS DIVISORIOS		100

C. MUERTA **314** **Kg/m^2** **+** **275** **Kg/m^2**

C. VIVA **200** **Kg/m^2**

C. TOTAL = **789** **Kg/m^2**

C. ULTIMA = 1.2 CM + 1.6 CV = **1027** **Kg/m^2**

Factor de Carga, F.C.= **1.30**

Nota: El peso propio de vigas lo calcula automaticamente el programa

CARGA A VIGUETAS:

q_u / Vigueta = 1027 x 1.95 = **2002.3** **Kg/m**

DISEÑO DE LA LOSA

C. MUERTA =	490.0	Kg/m^2	Materiales	(kg/cm^2)	
C. VIVA =	200.0	Kg/m^2	f'c =	490	b (cm) = 100
C. ULTIMA =	908.0	Kg/m^2	fy =	4200	d (cm) = 7

Diseño a Flexión

	M_u (kg-m/m)	R (kg/cm^2)	k	ρ	A_s (cm^2/m)
M-	294.19	0.067	0.12	0.0018	1.80
M+	210.14	0.048	0.12	0.0013	1.80

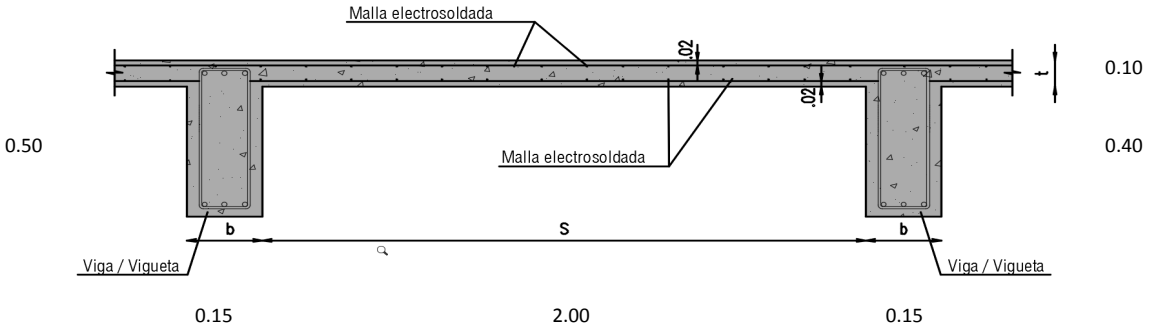
Chequeo Cortante

V_u (kg/m)	ϕV_c (kg/m)	Check
817.20	6159.33	Ok

ANÁLISIS DE CARGA PLACA MACIZA CON VIGAS DESCOLGADAS EN UNA DIRECCIÓN SIN TORTA INFERIOR

PROYECTO: EDIFICIO UNAL-SGC CALCULO: DCC

PISO: OFICINAS TIPO 2



CARGAS	[Kg/m^2]	[Kg/m^2]
* PLACA	240	
* VIGUETAS	67	
* CIELO RASO		25
* ACABADOS		150
* MUROS DIVISORIOS		50

C. MUERTA **307** **Kg/m^2** **+** **225** **Kg/m^2**

C. VIVA **200** **Kg/m^2**

C. TOTAL = **732** **Kg/m^2**

C. ULTIMA = 1.2 CM + 1.6 CV = **958** **Kg/m^2**

Factor de Carga, F.C.= **1.31**

Nota: El peso propio de vigas lo calcula automaticamente el programa

CARGA A VIGUETAS:

q_u / Vigueta = 958 x 2.15 = **2060.6** **Kg/m**

DISEÑO DE LA LOSA

C. MUERTA =	440.0	Kg/m^2	Materiales	(kg/cm^2)	
C. VIVA =	200.0	Kg/m^2	f'c =	490	b (cm) = 100
C. ULTIMA =	848.0	Kg/m^2	fy =	4200	d (cm) = 7

Diseño a Flexión

	M_u (kg-m/m)	R (kg/cm^2)	k	ρ	A_s (cm^2/m)
M-	339.20	0.077	0.12	0.0021	1.80
M+	242.29	0.055	0.12	0.0015	1.80

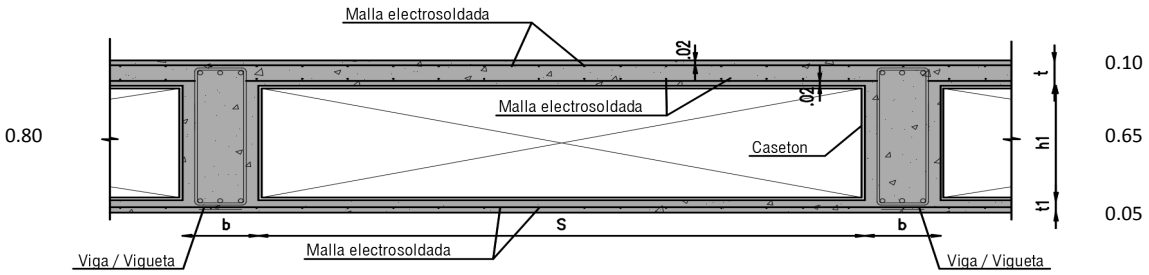
Chequeo Cortante

V_u (kg/m)	ϕV_c (kg/m)	Check
848.00	6159.33	Ok

ANÁLISIS DE CARGA PLACA MACIZA CON VIGAS DESCOLGADAS EN UNA DIRECCIÓN CON TORTA INFERIOR

PROYECTO: EDIFICIO UNAL-SGC CALCULO: DCC

PISO: OFICINAS TIPO 2 CON TORTA



CARGAS	[Kg/m^2]	[Kg/m^2]
* PLACA	360	
* VIGUETAS	109	
* CASETON		25
* ACABADOS		150
* MUROS DIVISORIOS		0

C. MUERTA **469** **Kg/m^2** **+** **175** **Kg/m^2**
C. VIVA **200** **Kg/m^2**

C. TOTAL = **844** **Kg/m^2**
C. ULTIMA = 1.2 CM + 1.6 CV = **1093** **Kg/m^2**
Factor de Carga, F.C.= **1.29**

Nota: El peso propio de vigas lo calcula automaticamente el programa

CARGA A VIGUETAS:
q_u / Vigueta = 1093 x 2.15 = **2349.5** **Kg/m**

DISEÑO DE LA LOSA SUPERIOR

			Materiales	(kg/cm^2)		
C. MUERTA =	390.0	Kg/m^2				
C. VIVA =	200.0	Kg/m^2	f'c =	490	b (cm) =	100
C. ULTIMA =	788.0	Kg/m^2	fy =	4200	d (cm) =	7

Diseño a Flexión

	M_u (kg-m/m)	R (kg/cm^2)	k	ρ	A_s (cm^2/m)
M-	315.20	0.071	0.12	0.0019	1.80
M+	225.14	0.051	0.12	0.0014	1.80

Chequeo Cortante

V_u (kg/m)	ϕV_c (kg/m)	Check
788.00	6159.33	Ok

DISEÑO DE LA LOSA INFERIOR

			Materiales	(kg/cm^2)		
C. MUERTA =	145.0	Kg/m^2	f'c =	490	b (cm) =	100
C. ULTIMA =	174.0	Kg/m^2	fy =	4200	d (cm) =	2.5

Diseño a Flexión

	M_u (kg-m/m)	R (kg/cm^2)	k	ρ	A_s (cm^2/m)
M-	69.60	0.124	0.12	0.0033	0.90
M+	49.71	0.088	0.12	0.0024	0.90

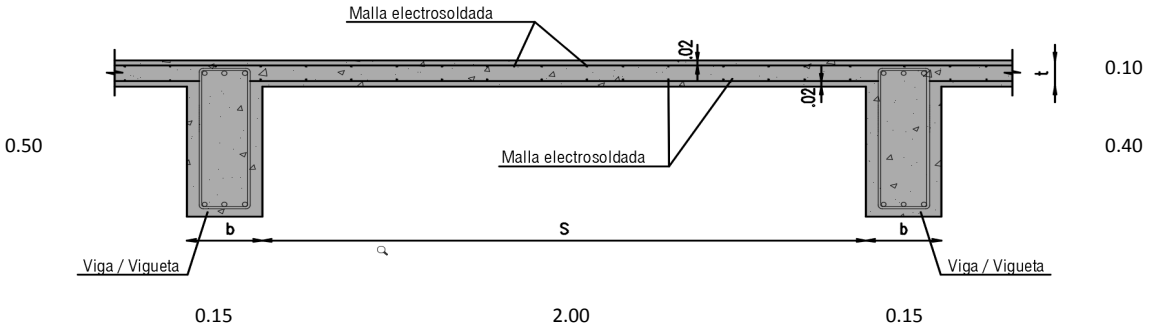
Chequeo Cortante

V_u (kg/m)	ϕV_c (kg/m)	Check
174.00	2199.76	Ok

ANÁLISIS DE CARGA PLACA MACIZA CON VIGAS DESCOLGADAS EN UNA DIRECCIÓN SIN TORTA INFERIOR

PROYECTO: EDIFICIO UNAL-SGC CALCULO: DCC

PISO: AULAS



CARGAS	[Kg/m^2]	[Kg/m^2]
* PLACA	240	
* VIGUETAS	67	
* CIELO RASO		25
* ACABADOS		150
* MUROS DIVISORIOS		50

C. MUERTA **307** **Kg/m^2** **+** **225** **Kg/m^2**

C. VIVA **200** **Kg/m^2**

C. TOTAL = **732** **Kg/m^2**

C. ULTIMA = 1.2 CM + 1.6 CV = **958** **Kg/m^2**

Factor de Carga, F.C.= **1.31**

Nota: El peso propio de vigas lo calcula automaticamente el programa

CARGA A VIGUETAS:

q_u / Vigueta = 958 x 2.15 = **2060.6** **Kg/m**

DISEÑO DE LA LOSA

			Materiales	(kg/cm^2)		
C. MUERTA =	440.0	Kg/m^2				
C. VIVA =	200.0	Kg/m^2	f'c =	490	b (cm) =	100
C. ULTIMA =	848.0	Kg/m^2	fy =	4200	d (cm) =	7

Diseño a Flexión

	M_u (kg-m/m)	R (kg/cm^2)	k	ρ	A_s (cm^2/m)
M-	339.20	0.077	0.12	0.0021	1.80
M+	242.29	0.055	0.12	0.0015	1.80

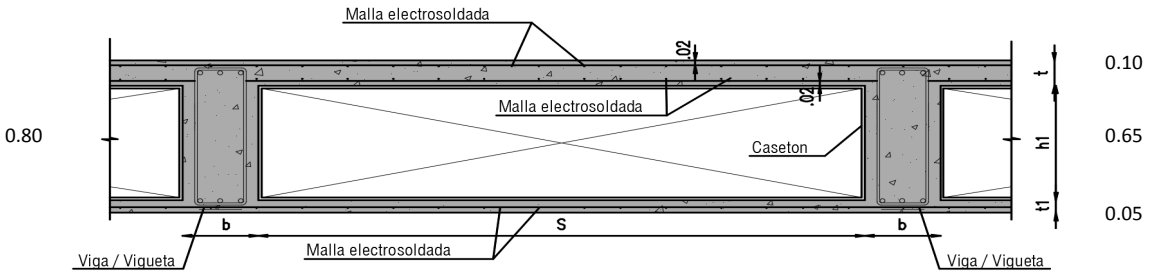
Chequeo Cortante

V_u (kg/m)	ϕV_c (kg/m)	Check
848.00	6159.33	Ok

ANÁLISIS DE CARGA PLACA MACIZA CON VIGAS DESCOLGADAS EN UNA DIRECCIÓN CON TORTA INFERIOR

PROYECTO: EDIFICIO UNAL-SGC CALCULO: DCC

PISO: PASILLOS



CARGAS	[Kg/m^2]	[Kg/m^2]
* PLACA	360	
* VIGUETAS	109	
* CASETON		25
* ACABADOS		150
* MUROS DIVISORIOS		0

C. MUERTA **469** **Kg/m^2** **+** **175** **Kg/m^2**
C. VIVA **300** **Kg/m^2**

C. TOTAL = **944** **Kg/m^2**
C. ULTIMA = 1.2 CM + 1.6 CV = **1253** **Kg/m^2**
Factor de Carga, F.C.= **1.33**

Nota: El peso propio de vigas lo calcula automaticamente el programa

CARGA A VIGUETAS:
q_u / Vigueta = 1253 x 2.15 = **2693.5** **Kg/m**

DISEÑO DE LA LOSA SUPERIOR

			Materiales	(kg/cm^2)		
C. MUERTA =	390.0	Kg/m^2				
C. VIVA =	300.0	Kg/m^2	f'c =	490	b (cm) =	100
C. ULTIMA =	948.0	Kg/m^2	fy =	4200	d (cm) =	7

Diseño a Flexión

	M_u (kg-m/m)	R (kg/cm^2)	k	ρ	A_s (cm^2/m)
M-	379.20	0.086	0.12	0.0023	1.80
M+	270.86	0.061	0.12	0.0016	1.80

Chequeo Cortante

V_u (kg/m)	ϕV_c (kg/m)	Check
948.00	6159.33	Ok

DISEÑO DE LA LOSA INFERIOR

			Materiales	(kg/cm^2)		
C. MUERTA =	145.0	Kg/m^2	f'c =	490	b (cm) =	100
C. ULTIMA =	174.0	Kg/m^2	fy =	4200	d (cm) =	2.5

Diseño a Flexión

	M_u (kg-m/m)	R (kg/cm^2)	k	ρ	A_s (cm^2/m)
M-	69.60	0.124	0.12	0.0033	0.90
M+	49.71	0.088	0.12	0.0024	0.90

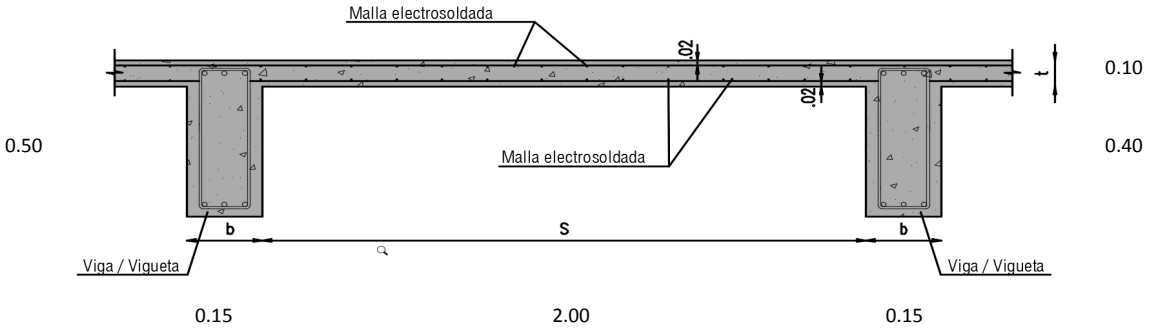
Chequeo Cortante

V_u (kg/m)	ϕV_c (kg/m)	Check
174.00	2199.76	Ok

ANÁLISIS DE CARGA PLACA MACIZA CON VIGAS DESCOLGADAS EN UNA DIRECCIÓN SIN TORTA INFERIOR

PROYECTO: EDIFICIO UNAL-SGC CALCULO: DCC

PISO: CAFETERÍA-PISO 4



CARGAS	[Kg/m^2]	[Kg/m^2]
* PLACA	240	
* VIGUETAS	67	
* CIELO RASO		25
* ACABADOS		150
* MUROS DIVISORIOS		0

C. MUERTA **307** **Kg/m^2** **+** **175** **Kg/m^2**

C. VIVA **500** **Kg/m^2**

C. TOTAL = **982** **Kg/m^2**

C. ULTIMA = 1.2 CM + 1.6 CV = **1378** **Kg/m^2**

Factor de Carga, F.C.= **1.40**

Nota: El peso propio de vigas lo calcula automaticamente el programa

CARGA A VIGUETAS:

q_u / Vigueta = 1378 x 2.15 = **2963.6** **Kg/m**

DISEÑO DE LA LOSA

			Materiales	(kg/cm^2)		
C. MUERTA =	390.0	Kg/m^2				
C. VIVA =	500.0	Kg/m^2	f'c =	490	b (cm) =	100
C. ULTIMA =	1268.0	Kg/m^2	fy =	4200	d (cm) =	7

Diseño a Flexión

	M_u (kg-m/m)	R (kg/cm^2)	k	ρ	A_s (cm^2/m)
M-	507.20	0.115	0.12	0.0031	2.16
M+	362.29	0.082	0.12	0.0022	1.80

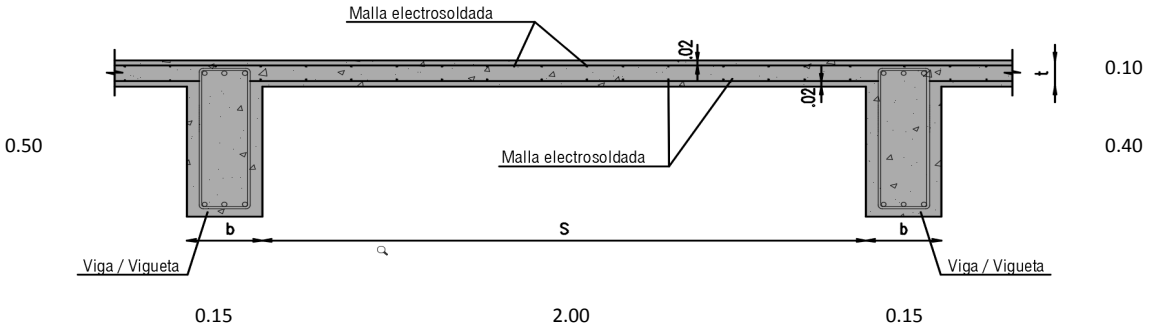
Chequeo Cortante

V_u (kg/m)	ϕV_c (kg/m)	Check
1268.00	6159.33	Ok

ANÁLISIS DE CARGA PLACA MACIZA CON VIGAS DESCOLGADAS EN UNA DIRECCIÓN SIN TORTA INFERIOR

PROYECTO: EDIFICIO UNAL-SGC CALCULO: DCC

PISO: TERRAZA - PISO 9



CARGAS	[Kg/m^2]	[Kg/m^2]
* PLACA	240	
* VIGUETAS	67	
* CIELO RASO		25
* ACABADOS		200
* MUROS DIVISORIOS		0

C. MUERTA **307** **Kg/m^2** **+** **225** **Kg/m^2**

C. VIVA **500** **Kg/m^2**

C. TOTAL = **1032** **Kg/m^2**

C. ULTIMA = 1.2 CM + 1.6 CV = **1438** **Kg/m^2**

Factor de Carga, F.C.= **1.39**

Nota: El peso propio de vigas lo calcula automaticamente el programa

CARGA A VIGUETAS:

q_u / Vigueta = 1438 x 2.15 = **3092.6** **Kg/m**

DISEÑO DE LA LOSA

C. MUERTA =	440.0	Kg/m^2	Materiales	(kg/cm^2)	
C. VIVA =	500.0	Kg/m^2	f'c =	490	b (cm) = 100
C. ULTIMA =	1328.0	Kg/m^2	fy =	4200	d (cm) = 7

Diseño a Flexión

	M_u (kg-m/m)	R (kg/cm^2)	k	ρ	A_s (cm^2/m)
M-	531.20	0.120	0.12	0.0032	2.27
M+	379.43	0.086	0.12	0.0023	1.80

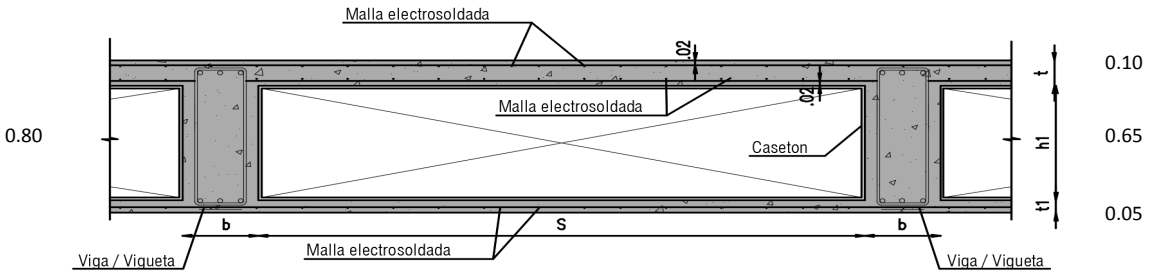
Chequeo Cortante

V_u (kg/m)	ϕV_c (kg/m)	Check
1328.00	6159.33	Ok

ANÁLISIS DE CARGA PLACA MACIZA CON VIGAS DESCOLGADAS EN UNA DIRECCIÓN CON TORTA INFERIOR

PROYECTO: EDIFICIO UNAL-SGC CALCULO: DCC

PISO: TERRAZA - PISO 9 CON TORTA



CARGAS	[Kg/m^2]	[Kg/m^2]
* PLACA	360	
* VIGUETAS	109	
* CASETON		25
* ACABADOS		200
* MUROS DIVISORIOS		0

C. MUERTA **469** **Kg/m^2** **+** **225** **Kg/m^2**
C. VIVA **500** **Kg/m^2**

C. TOTAL = **1194** **Kg/m^2**
C. ULTIMA = 1.2 CM + 1.6 CV = **1633** **Kg/m^2**
Factor de Carga, F.C.= **1.37**

Nota: El peso propio de vigas lo calcula automaticamente el programa

CARGA A VIGUETAS:
q_u / Vigueta = 1633 x 2.15 = **3510.5** **Kg/m**

DISEÑO DE LA LOSA SUPERIOR

			Materiales	(kg/cm^2)		
C. MUERTA =	440.0	Kg/m^2				
C. VIVA =	500.0	Kg/m^2	f'c =	490	b (cm) =	100
C. ULTIMA =	1328.0	Kg/m^2	fy =	4200	d (cm) =	7

Diseño a Flexión

	M_u (kg-m/m)	R (kg/cm^2)	k	ρ	A_s (cm^2/m)
M-	531.20	0.120	0.12	0.0032	2.27
M+	379.43	0.086	0.12	0.0023	1.80

Chequeo Cortante

V_u (kg/m)	ϕV_c (kg/m)	Check
1328.00	6159.33	Ok

DISEÑO DE LA LOSA INFERIOR

			Materiales	(kg/cm^2)		
C. MUERTA =	145.0	Kg/m^2	f'c =	490	b (cm) =	100
C. ULTIMA =	174.0	Kg/m^2	fy =	4200	d (cm) =	2.5

Diseño a Flexión

	M_u (kg-m/m)	R (kg/cm^2)	k	ρ	A_s (cm^2/m)
M-	69.60	0.124	0.12	0.0033	0.90
M+	49.71	0.088	0.12	0.0024	0.90

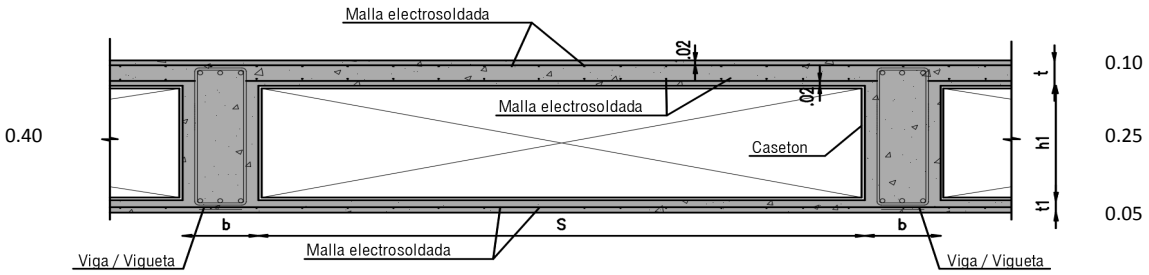
Chequeo Cortante

V_u (kg/m)	ϕV_c (kg/m)	Check
174.00	2199.76	Ok

ANÁLISIS DE CARGA PLACA MACIZA CON VIGAS DESCOLGADAS EN UNA DIRECCIÓN CON TORTA INFERIOR

PROYECTO: EDIFICIO UNAL-SGC CALCULO: DCC

PISO: CUBIERTA CAFETERIA PISO 9



CARGAS	[Kg/m^2]	[Kg/m^2]
* PLACA	360	
* VIGUETAS	42	
* CASETON		25
* ACABADOS		150
* MUROS DIVISORIOS		0

C. MUERTA	**402**	**Kg/m^2**	**+**	**175**	**Kg/m^2**
C. VIVA	**500**	**Kg/m^2**			
GRANIZO	**100**	**Kg/m^2**			

C. TOTAL =	**1077**	**Kg/m^2**
C. ULTIMA = 1.2 CM + 1.6 CV =	**1492**	**Kg/m^2**
Factor de Carga, F.C.=	**1.39**	

Nota: El peso propio de vigas lo calcula automaticamente el programa

CARGA A VIGUETAS:

q_u / Vigueta = 1492 x 2.15 = **3208.7** **Kg/m**

DISEÑO DE LA LOSA SUPERIOR

			Materiales	(kg/cm^2)		
C. MUERTA =	390.0	Kg/m^2				
C. VIVA =	500.0	Kg/m^2	f'c =	490	b (cm) =	100
C. ULTIMA =	1268.0	Kg/m^2	fy =	4200	d (cm) =	7

Diseño a Flexión

	M_u (kg-m/m)	R (kg/cm^2)	k	ρ	A_s (cm^2/m)
M-	507.20	0.115	0.12	0.0031	2.16
M+	362.29	0.082	0.12	0.0022	1.80

Chequeo Cortante

V_u (kg/m)	ϕV_c (kg/m)	Check
1268.00	6159.33	Ok

DISEÑO DE LA LOSA INFERIOR

			Materiales	(kg/cm^2)		
C. MUERTA =	145.0	Kg/m^2				
C. ULTIMA =	174.0	Kg/m^2	f'c =	490	b (cm) =	100
			fy =	4200	d (cm) =	2.5

Diseño a Flexión

	M_u (kg-m/m)	R (kg/cm^2)	k	ρ	A_s (cm^2/m)
M-	69.60	0.124	0.12	0.0033	0.90
M+	49.71	0.088	0.12	0.0024	0.90

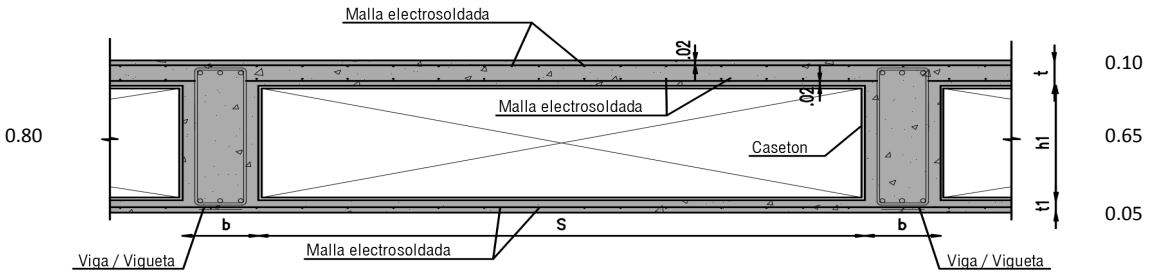
Chequeo Cortante

V_u (kg/m)	ϕV_c (kg/m)	Check
174.00	2199.76	Ok

ANÁLISIS DE CARGA PLACA MACIZA CON VIGAS DESCOLGADAS EN UNA DIRECCIÓN CON TORTA INFERIOR

PROYECTO: EDIFICIO UNAL-SGC CALCULO: DCC

PISO: CUBIERTA



CARGAS	[Kg/m^2]	[Kg/m^2]
* PLACA	360	
* VIGUETAS	109	
* CASETON		25
* ACABADOS		150
* MUROS DIVISORIOS		0

C. MUERTA	**469**	**Kg/m^2**	**+**	**175**	**Kg/m^2**
C. VIVA	**500**	**Kg/m^2**			
GRANIZO	**100**	**Kg/m^2**			
C. TOTAL =			**1144**	**Kg/m^2**	
C. ULTIMA = 1.2 CM + 1.6 CV =			**1573**	**Kg/m^2**	
Factor de Carga, F.C.=			**1.37**		

Nota: El peso propio de vigas lo calcula automaticamente el programa

CARGA A VIGUETAS:

q_u / Vigueta = 1573 x 2.15 = **3381.5** **Kg/m**

DISEÑO DE LA LOSA SUPERIOR

			Materiales	(kg/cm^2)		
C. MUERTA =	390.0	Kg/m^2				
C. VIVA =	500.0	Kg/m^2	f'c =	490	b (cm) =	100
C. ULTIMA =	1268.0	Kg/m^2	fy =	4200	d (cm) =	7

Diseño a Flexión

	M_u (kg-m/m)	R (kg/cm^2)	k	ρ	A_s (cm^2/m)
M-	507.20	0.115	0.12	0.0031	2.16
M+	362.29	0.082	0.12	0.0022	1.80

Chequeo Cortante

V_u (kg/m)	ϕV_c (kg/m)	Check
1268.00	6159.33	Ok

DISEÑO DE LA LOSA INFERIOR

			Materiales	(kg/cm^2)		
C. MUERTA =	145.0	Kg/m^2	f'c =	490	b (cm) =	100
C. ULTIMA =	174.0	Kg/m^2	fy =	4200	d (cm) =	2.5

Diseño a Flexión

	M_u (kg-m/m)	R (kg/cm^2)	k	ρ	A_s (cm^2/m)
M-	69.60	0.124	0.12	0.0033	0.90
M+	49.71	0.088	0.12	0.0024	0.90

Chequeo Cortante

V_u (kg/m)	ϕV_c (kg/m)	Check
174.00	2199.76	Ok

ANÁLISIS DE CARGA DE MUROS DIVISORIOS

PROYECTO: EDIFICIO UNAL-SGC CALCULO: DCC

PISO: PLANTA BAJA

Elemento	Área (m^2)	t (m)	L (m)	h (m)	T/m^3	Peso (T)
Muros de 15 cm en concreto	26.55	0.15	177.00	3.30	2.400	210.28
					Peso muros (T) =	210.28
					Área placa (m^2) =	1746.24
					Peso muros (T/m^2) =	**0.120**

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*           Version  20.07.11.90                    *
*           Proprietary Program of                  *
*           Bentley Systems, Inc.                   *
*           Date=    OCT 23, 2017                   *
*           Time=    17:17: 2                       *
*                                                   *
*      USER ID:                                     *
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    3. ENGINEER DATE 08-NOV-16
    4. END JOB INFORMATION
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    7. JOINT COORDINATES
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    9. 7 17.03 -5.25 13.054; 8 13.89 -5.25 17.934; 9 21.89 -5.25 22.484
   10. 10 23.97 -5.25 13.694; 11 26.81 -5.25 19.584; 12 36.48 -5.25 7.874
   11. 13 39.22 -5.25 13.764; 14 48.99 -5.25 2.024; 15 61.5 -5.25 -3.796
   12. 16 51.73 -5.25 7.914; 17 64.24 -5.25 2.094; 18 55.51 -5.25 -1.016
   13. 19 56.46 -5.25 1.024; 20 60.72 -5.25 -0.956; 21 -3.09 -5.25 -4.68
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   15. 25 15.11 -5.25 -4.48; 26 15.11 -5.25 -9.18; 27 26.81 -5.25 -4.48
   16. 28 26.81 -5.25 -9.18; 29 38.51 -5.25 -4.48; 30 38.51 -5.25 -9.18
   17. 31 50.21 -5.25 -4.48; 32 50.21 -5.25 -9.18; 34 60.51 -5.25 -10.63
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   19. 39 26.81 -5.25 -19.73; 40 38.51 -5.25 -19.73; 41 50.21 -5.25 -19.73
   20. 44 -4.24 -5.25 -19.73; 45 28.05 -5.25 22.254; 46 40.46 -5.25 16.434
   21. 47 52.97 -5.25 10.584; 48 64.85 -5.25 3.404; 52 12.29 -5.25 20.414
   22. 53 6.58 -5.25 15.414; 54 -4.305 -5.25 6.68; 60 0 -1.05 0; 61 -3.52 -1.05 5.46
   23. 64 11.7 -1.05 7.474; 65 8.18 -1.05 12.934; 66 17.03 -1.05 13.054
   24. 67 13.89 -1.05 17.934; 68 21.89 -1.05 22.484; 69 23.97 -1.05 13.694
   25. 70 26.81 -1.05 19.584; 71 36.48 -1.05 7.874; 72 39.22 -1.05 13.764
   26. 73 48.99 -1.05 2.024; 74 61.5 -1.05 -3.796; 75 51.73 -1.05 7.914
   27. 76 64.24 -1.05 2.094; 77 55.51 -1.05 -1.016; 78 56.46 -1.05 1.024
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132. 507 47.6103 -1.05 13.0903; 508 49.3974 -1.05 12.2546
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227. 972 59.759 2.95 6.48088; 973 61.4558 2.95 5.45537; 974 63.1527 2.95 4.42981
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267. 1143 27.9267 8.75 21.9877; 1144 40.3367 8.75 16.1677
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296. 1295 53.4257 8.75 -2.37827; 1299 18.8397 8.75 13.591
297. 1300 20.6495 8.75 14.1281; 1301 22.4592 8.75 14.6651
298. 1302 24.2689 8.75 15.2021; 1303 15.4679 8.75 18.8314
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5343. 16279 6345 6506 6503 6494; 16280 6494 6503 6518 6516
5344. 16281 6503 6484 6490 6518; 16282 6484 6499 6500 6490
5345. 16283 6344 6516 6515 6525; 16284 6516 6518 6517 6515
5346. 16285 6518 6490 6478 6517; 16286 6490 6500 6501 6478
5347. 16287 6500 6492 6480 6501; 16289 6499 6514 6500; 16290 6495 6513 6492
5348. 16291 6514 6495 6492 6500; 16298 6492 6528 6527 6480
5349. 16299 6528 6488 6474 6527; 16300 6529 6482 6488 6528
5350. 16301 6513 6529 6528 6492
5351. ELEMENT PROPERTY

WARNING PLATE NO. 3307(JOINTS 1149 - 1566 - 1562 - 1151)
IS BADLY SHAPED, WARPED, NOT CONVEX, OR NOT NUMBERED COUNTER-CLOCKWISE.

WARNING PLATE NO. 4874(JOINTS 2078 - 2348 - 2344 - 2080)
IS BADLY SHAPED, WARPED, NOT CONVEX, OR NOT NUMBERED COUNTER-CLOCKWISE.

WARNING PLATE NO. 5185(JOINTS 1713 - 1983 - 1979 - 1715)
IS BADLY SHAPED, WARPED, NOT CONVEX, OR NOT NUMBERED COUNTER-CLOCKWISE.

WARNING PLATE NO. 6252(JOINTS 2470 - 2740 - 2736 - 2472)
IS BADLY SHAPED, WARPED, NOT CONVEX, OR NOT NUMBERED COUNTER-CLOCKWISE.

WARNING PLATE NO. 7280(JOINTS 2874 - 3109 - 3105 - 2875)
IS BADLY SHAPED, WARPED, NOT CONVEX, OR NOT NUMBERED COUNTER-CLOCKWISE.

WARNING PLATE NO. 8348(JOINTS 3268 - 3486 - 3482 - 3269)
IS BADLY SHAPED, WARPED, NOT CONVEX, OR NOT NUMBERED COUNTER-CLOCKWISE.

WARNING PLATE NO. 8575(JOINTS 3569 - 3500 - 3276 - 3283)
IS BADLY SHAPED, WARPED, NOT CONVEX, OR NOT NUMBERED COUNTER-CLOCKWISE.

WARNING PLATE NO. 9327(JOINTS 3641 - 3859 - 3855 - 3642)
IS BADLY SHAPED, WARPED, NOT CONVEX, OR NOT NUMBERED COUNTER-CLOCKWISE.

WARNING PLATE NO. 10252(JOINTS 4003 - 4220 - 4216 - 4004)
IS BADLY SHAPED, WARPED, NOT CONVEX, OR NOT NUMBERED COUNTER-CLOCKWISE.

WARNING PLATE NO. 10446(JOINTS 4285 - 4234 - 4011 - 4018)
IS BADLY SHAPED, WARPED, NOT CONVEX, OR NOT NUMBERED COUNTER-CLOCKWISE.

WARNING PLATE NO. 11209(JOINTS 4364 - 4582 - 4578 - 4365)
IS BADLY SHAPED, WARPED, NOT CONVEX, OR NOT NUMBERED COUNTER-CLOCKWISE.

WARNING PLATE NO. 11435(JOINTS 4581 - 4370 - 4661 - 4669)
IS BADLY SHAPED, WARPED, NOT CONVEX, OR NOT NUMBERED COUNTER-CLOCKWISE.

WARNING PLATE NO. 11884(JOINTS 4716 - 4847 - 4843 - 4717)
IS BADLY SHAPED, WARPED, NOT CONVEX, OR NOT NUMBERED COUNTER-CLOCKWISE.

WARNING PLATE NO. 12015(JOINTS 4846 - 4722 - 4894 - 4902)
IS BADLY SHAPED, WARPED, NOT CONVEX, OR NOT NUMBERED COUNTER-CLOCKWISE.

WARNING PLATE NO. 12041(JOINTS 4913 - 4856 - 4724 - 4727)
IS BADLY SHAPED, WARPED, NOT CONVEX, OR NOT NUMBERED COUNTER-CLOCKWISE.

WARNING PLATE NO. 12599(JOINTS 5088 - 4965 - 5119 - 5127)
IS BADLY SHAPED, WARPED, NOT CONVEX, OR NOT NUMBERED COUNTER-CLOCKWISE.

WARNING PLATE NO. 12605(JOINTS 5138 - 5098 - 4967 - 4970)
IS BADLY SHAPED, WARPED, NOT CONVEX, OR NOT NUMBERED COUNTER-CLOCKWISE.

WARNING PLATE NO. 13032(JOINTS 5248 - 5168 - 5271 - 5279)
IS BADLY SHAPED, WARPED, NOT CONVEX, OR NOT NUMBERED COUNTER-CLOCKWISE.

WARNING PLATE NO. 13035(JOINTS 5283 - 5255 - 5169 - 5171)
IS BADLY SHAPED, WARPED, NOT CONVEX, OR NOT NUMBERED COUNTER-CLOCKWISE.

WARNING PLATE NO. 13046(JOINTS 669 - 690 - 689 - 665)
IS BADLY SHAPED, WARPED, NOT CONVEX, OR NOT NUMBERED COUNTER-CLOCKWISE.

WARNING PLATE NO. 13049(JOINTS 1035 - 1049 - 1048 - 1031)
IS BADLY SHAPED, WARPED, NOT CONVEX, OR NOT NUMBERED COUNTER-CLOCKWISE.

WARNING PLATE NO. 13052(JOINTS 1306 - 1318 - 1317 - 1302)
IS BADLY SHAPED, WARPED, NOT CONVEX, OR NOT NUMBERED COUNTER-CLOCKWISE.

WARNING PLATE NO. 13055(JOINTS 2171 - 2174 - 2173 - 2167)
IS BADLY SHAPED, WARPED, NOT CONVEX, OR NOT NUMBERED COUNTER-CLOCKWISE.

WARNING PLATE NO. 13059(JOINTS 1806 - 1809 - 1808 - 1802)
IS BADLY SHAPED, WARPED, NOT CONVEX, OR NOT NUMBERED COUNTER-CLOCKWISE.

WARNING PLATE NO. 14294(JOINTS 2788 - 5664 - 2801 - 2790)
IS BADLY SHAPED, WARPED, NOT CONVEX, OR NOT NUMBERED COUNTER-CLOCKWISE.

WARNING PLATE NO. 14301(JOINTS 3153 - 5665 - 3160 - 3154)
IS BADLY SHAPED, WARPED, NOT CONVEX, OR NOT NUMBERED COUNTER-CLOCKWISE.

WARNING PLATE NO. 14413(JOINTS 3520 - 5693 - 3527 - 3521)
IS BADLY SHAPED, WARPED, NOT CONVEX, OR NOT NUMBERED COUNTER-CLOCKWISE.

WARNING PLATE NO. 14456(JOINTS 3893 - 5694 - 3900 - 3894)
IS BADLY SHAPED, WARPED, NOT CONVEX, OR NOT NUMBERED COUNTER-CLOCKWISE.

WARNING PLATE NO. 14509(JOINTS 4253 - 4293 - 4260 - 4254)
IS BADLY SHAPED, WARPED, NOT CONVEX, OR NOT NUMBERED COUNTER-CLOCKWISE.

WARNING PLATE NO. 14960(JOINTS 77 - 604 - 6095 - 6096)
IS BADLY SHAPED, WARPED, NOT CONVEX, OR NOT NUMBERED COUNTER-CLOCKWISE.

WARNING PLATE NO. 15394(JOINTS 161 - 991 - 6112 - 6129)
IS BADLY SHAPED, WARPED, NOT CONVEX, OR NOT NUMBERED COUNTER-CLOCKWISE.

WARNING PLATE NO. 15642(JOINTS 3103 - 2949 - 3159 - 6229)
IS BADLY SHAPED, WARPED, NOT CONVEX, OR NOT NUMBERED COUNTER-CLOCKWISE.

WARNING PLATE NO. 15722(JOINTS 3480 - 3337 - 3526 - 6269)
IS BADLY SHAPED, WARPED, NOT CONVEX, OR NOT NUMBERED COUNTER-CLOCKWISE.

WARNING PLATE NO. 15783(JOINTS 3853 - 3710 - 3899 - 6280)
IS BADLY SHAPED, WARPED, NOT CONVEX, OR NOT NUMBERED COUNTER-CLOCKWISE.

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5352. 491 TO 499 504 TO 539 560 561 563 TO 571 584 TO 594 596 TO 607 1391 TO 1397 -
5353. 1399 TO 1403 1607 TO 1612 1616 1617 3065 TO 3080 3201 3262 5403 TO 5451 6418 -
5354. 6419 TO 6440 7418 TO 7440 8458 TO 8480 9437 TO 9459 10362 TO 10384 -
5355. 11319 TO 11331 11952 TO 11964 12557 TO 12566 13002 TO 13011 13069 TO 13142 -
5356. 13918 TO 13973 14051 TO 14056 14687 TO 14734 14739 TO 14762 14767 TO 14789 -
5357. 14790 THICKNESS 0.6
5358. 675 TO 679 683 TO 687 797 TO 820 822 TO 825 828 TO 831 834 TO 837 840 TO 843 -
5359. 872 874 876 878 880 882 883 885 887 889 891 893 895 896 1119 1121 TO 1131 -
5360. 1136 TO 1140 1142 TO 1144 1150 1152 1154 1155 1170 TO 1173 1177 TO 1179 1181 -
5361. 1182 TO 1183 1205 TO 1209 1214 TO 1222 1243 1244 1262 TO 1264 1266 TO 1268 -
5362. 1338 1340 1344 TO 1349 1352 1354 TO 1362 1365 TO 1370 1404 1406 TO 1419 1421 -
5363. 1423 1425 TO 1438 1441 1444 TO 1446 1451 1454 TO 1459 1461 1462 2093 2095 -
5364. 2097 2099 2100 2103 TO 2107 2110 2112 2114 2116 2118 2120 2121 2123 2125 -
5365. 2127 2129 2131 2133 2134 2140 TO 2143 2146 TO 2149 2152 TO 2155 2158 TO 2161 -
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5366. 2174 TO 2202 2206 TO 2211 2218 TO 2221 2226 TO 2229 2236 TO 2242 2248 2259 -
5367. 2260 TO 2262 2269 TO 2272 2274 2276 TO 2279 2295 TO 2303 2307 TO 2316 2320 -
5368. 2328 2329 2331 TO 2337 2339 2341 TO 2347 2351 TO 2360 2362 TO 2364 -
5369. 2366 TO 2369 2371 TO 2376 3090 TO 3093 3096 TO 3099 3102 TO 3105 -
5370. 3108 TO 3111 3113 TO 3136 3139 TO 3142 3146 TO 3150 3158 3160 3162 3164 3166 -
5371. 3169 3171 3173 3175 3177 3179 TO 3187 3189 TO 3193 3209 3211 3213 3215 3217 -
5372. 3220 TO 3224 3227 3229 3231 3233 3235 3237 3238 3241 3243 3245 3247 3249 -
5373. 3251 3252 3254 3256 3258 3259 3263 TO 3289 3291 TO 3308 3313 TO 3324 3327 -
5374. 3328 TO 3331 3334 3335 3340 TO 3352 3357 TO 3361 3363 TO 3365 3368 3369 3371 -
5375. 3373 THICKNESS 0.1
5376. 3375 3376 3379 3387 TO 3413 3416 TO 3421 3424 TO 3441 3445 TO 3449 3451 3461 -
5377. 3462 TO 3464 3469 TO 3473 4726 TO 4856 4858 TO 4875 4880 TO 4891 4894 TO 4898 -
5378. 4901 4902 4906 TO 4918 4923 TO 4927 4929 TO 4931 4934 4935 4937 4939 4941 -
5379. 4942 4945 4953 TO 4980 4982 TO 4987 4990 TO 5008 5011 TO 5015 5017 -
5380. 5024 TO 5027 5032 TO 5167 5169 TO 5186 5195 TO 5202 5205 TO 5209 5212 5213 -
5381. 5217 TO 5229 5240 TO 5242 5245 5246 5248 5250 5252 5253 5256 5264 TO 5270 -
5382. 5272 TO 5285 5287 TO 5291 5293 TO 5298 5301 TO 5318 5322 TO 5326 5328 5335 -
5383. 5336 TO 5338 5343 TO 5347 5372 5383 6104 TO 6204 6208 TO 6217 6220 TO 6224 -
5384. 6242 TO 6248 6251 6252 6262 TO 6269 6272 TO 6276 6284 TO 6296 6301 TO 6305 -
5385. 6307 TO 6309 6312 6313 6315 6317 6319 6320 6323 6331 TO 6335 6337 -
5386. 6339 TO 6357 6360 TO 6365 6369 6371 6373 6376 TO 6385 6389 TO 6393 -
5387. 6402 TO 6405 6410 TO 6412 6487 TO 6506 6537 6538 6541 6545 TO 6550 6553 7154 -
5388. 7155 TO 7288 7291 TO 7295 7297 TO 7309 7320 TO 7322 7325 7326 7328 7330 7332 -
5389. 7333 7336 7344 TO 7363 7365 TO 7374 7377 TO 7389 7392 TO 7396 7404 TO 7407 -
5390. 7412 TO 7414 7455 7457 TO 7459 7462 7464 7473 7477 7481 TO 7486 7489 7497 -
5391. 7498 TO 7504 7550 7559 7593 7596 7601 7602 7611 7618 8222 TO 8356 -
5392. 8359 TO 8363 8365 TO 8380 8382 TO 8384 8386 8388 8390 8391 8394 TO 8442 8446 -
5393. 8447 TO 8449 8452 TO 8454 8491 THICKNESS 0.1
5394. 8492 TO 8497 8501 8505 TO 8510 8513 8534 8537 8542 8543 8546 8557 8572 8573 -
5395. 8575 8578 TO 8583 8589 TO 8596 9201 TO 9335 9338 TO 9342 9344 TO 9359 9362 -
5396. 9363 9365 9367 9369 9370 9373 TO 9421 9425 TO 9428 9431 TO 9433 9470 TO 9476 -
5397. 9480 9484 TO 9489 9492 9507 9513 9516 9521 9522 9536 10126 TO 10252 10254 -
5398. 10255 TO 10260 10263 TO 10267 10269 TO 10284 10287 10288 10290 10292 10294 -
5399. 10295 10298 TO 10304 10306 TO 10346 10350 TO 10353 10356 10358 -
5400. 10395 TO 10400 10405 10409 TO 10412 10414 10420 10423 10428 10429 -
5401. 10443 TO 10460 10474 10476 TO 10479 11135 TO 11209 11217 TO 11224 -
5402. 11239 TO 11242 11244 11245 11247 TO 11249 11251 11252 11255 TO 11260 11276 -
5403. 11277 TO 11302 11305 11306 11308 TO 11310 11352 TO 11357 11362 11369 11389 -
5404. 11421 TO 11424 11432 11435 11810 TO 11892 11894 TO 11896 11899 11900 11902 -
5405. 11904 11906 11907 11910 TO 11942 11946 TO 11948 11975 TO 11982 -
5406. 12001 TO 12004 12012 12015 12036 TO 12051 12412 TO 12452 12478 TO 12484 -
5407. 12496 TO 12498 12501 12502 12504 12506 12508 12509 12512 TO 12517 -
5408. 12528 TO 12544 12548 TO 12550 12578 TO 12580 12590 12591 12594 TO 12596 -
5409. 12599 12603 TO 12605 12607 12611 TO 12615 12909 TO 12959 12962 12963 12965 -
5410. 12967 12969 12970 12973 TO 12995 12999 TO 13001 13019 TO 13021 13029 13032 -
5411. 13033 TO 13041 13045 TO 13059 13203 13208 13209 13211 TO 13216 13218 13219 -
5412. 13238 TO 13241 13246 13247 13249 13251 13252 13272 TO 13274 13279 -
5413. 13284 TO 13286 13288 TO 13290 13473 TO 13475 13479 13480 13484 13485 13490 -
5414. 13492 13509 TO 13511 13516 THICKNESS 0.1
5415. 13517 TO 13520 13525 13542 TO 13544 13554 13557 13575 TO 13577 13581 TO 13583 -
5416. 13585 13586 13590 13604 13616 13641 TO 13643 13646 13650 TO 13652 13656 -
5417. 13732 13734 13746 13749 13751 13753 13755 13759 TO 13767 13774 TO 13781 -
5418. 13788 TO 13796 13802 TO 13809 13817 TO 13826 13830 TO 13839 13843 TO 13852 -
5419. 13856 TO 13865 13869 TO 13878 13882 TO 13891 13895 TO 13904 13908 TO 13917 -
5420. 14069 TO 14072 14075 14078 14079 14088 14089 14118 TO 14120 14122 14131 -
5421. 14132 14135 14137 TO 14140 14143 TO 14145 14154 14155 14159 14160 14163 -

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5422. 14166 14168 14173 TO 14175 14180 14182 14220 TO 14224 14226 14231 -
5423. 14241 TO 14245 14247 14248 14250 14252 14271 TO 14273 14277 TO 14279 14281 -
5424. 14283 14287 14288 14291 14292 14294 14295 14299 TO 14302 14308 TO 14313 -
5425. 14335 14337 TO 14341 14347 14370 TO 14372 14374 14377 TO 14379 14389 14390 -
5426. 14397 TO 14399 14402 14403 14405 14413 14415 14436 TO 14438 14440 TO 14446 -
5427. 14452 14455 TO 14459 14463 14465 TO 14474 14480 TO 14484 14508 TO 14519 -
5428. 14522 14523 14525 TO 14533 14538 14545 14553 TO 14559 14562 TO 14564 14567 -
5429. 14568 TO 14575 14579 TO 14584 14792 14795 14797 14798 14802 14804 TO 14808 -
5430. 14810 14814 TO 14817 14819 TO 14823 14826 TO 14829 14872 TO 14876 -
5431. 14878 TO 14884 14886 TO 14889 14950 TO 14961 14974 TO 14976 14978 -
5432. 14980 TO 14992 14994 TO 14996 15104 15134 TO 15137 15157 15158 -
5433. 15265 TO 15274 15325 TO 15342 15345 TO 15348 15350 15361 TO 15365 -
5434. 15367 TO 15377 15382 15383 15389 15392 TO 15396 15410 TO 15412 -
5435. 15414 TO 15417 15429 TO 15435 15442 15444 15446 15455 TO -
5436. 15458  THICKNESS 0.1
5437. 15459 THICKNESS 0.1
5438. 15460 15488 TO 15497 15507 TO 15512 15524 TO 15529 15544 15547 15558 TO 15563 -
5439. 15572 TO 15582 15589 TO 15592 15594 15595 15597 15599 TO 15601 -
5440. 15617 TO 15626 15628 TO 15630 15639 TO 15643 15646 TO 15648 15650 TO 15653 -
5441. 15673 TO 15675 15687 TO 15690 15698 TO 15712 15721 TO 15733 15749 TO 15763 -
5442. 15775 TO 15785 15798 TO 15810 15823 TO 15826 15828 15836 TO 15839 -
5443. 15842 TO 15846 15856 TO 15860 15862 TO 15872 15942 TO 15956 15958 TO 15960 -
5444. 15984 TO 15989 15992 TO 15996 16004 TO 16006 16062 TO 16075 16098 TO 16112 -
5445. 16264 TO 16268 16270 TO 16287 16289 TO 16291 16298 TO 16301 THICKNESS 0.1
5446. 12619 TO 12662 15176 TO 15178 15354 TO 15358 THICKNESS 0.3
5447. 1600 TO 1606 1614 1615 3047 TO 3060 5454 5457 TO 5465 6441 TO 6447 -
5448. 7441 TO 7447 8481 TO 8487 9460 TO 9466 10385 TO 10391 11342 TO 11348 11965 -
5449. 11966 TO 11971 12567 TO 12573 13012 TO 13018 13147 TO 13164 13372 TO 13375 -
5450. 13390 TO 13445 14603 TO 14686 THICKNESS 0.4
5451. 1464 1466 TO 1468 1473 TO 1496 1499 TO 1502 1521 TO 1527 1529 1531 1533 1534 -
5452. 1537 1539 TO 1544 1547 1549 1550 1555 TO 1559 1561 1562 1564 1566 1568 1570 -
5453. 1572 1574 1575 1577 1579 TO 1584 1586 1587 15120 15275 TO 15282 15929 15930 -
5454. 15935 TO 15939 16213 TO 16216 16254 TO 16263 THICKNESS 0.4
5455. DEFINE MATERIAL START
5456. ISOTROPIC CONCRETE
5457. E 2.52671E+006
5458. POISSON 0.17
5459. DENSITY 2.40262
5460. ALPHA 1E-005
5461. DAMP 0.05
5462. TYPE CONCRETE
5463. STRENGTH FCU 2812.28
5464. ISOTROPIC CONCR49
5465. E 3.34253E+006
5466. POISSON 0.17
5467. DENSITY 2.40262
5468. ALPHA 1E-005
5469. DAMP 0.05
5470. TYPE CONCRETE
5471. STRENGTH FCU 4900
5472. ISOTROPIC CONCR49VT
5473. E 3.34253E+006
5474. POISSON 0.17
5475. DENSITY 2.40262
5476. ALPHA 1E-005
5477. DAMP 0.05
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5478. TYPE CONCRETE
5479. STRENGTH FCU 4900
5480. ISOTROPIC DIAFR
5481. E 3.34253E+006
5482. POISSON 0.17
5483. DENSITY 0.001
5484. ALPHA 1E-005
5485. DAMP 0.05
5486. TYPE CONCRETE
5487. STRENGTH FCU 4900
5488. ISOTROPIC CONCR0
5489. E 2.52671E+006
5490. POISSON 0.17
5491. DENSITY 0.001
5492. ALPHA 1E-005
5493. DAMP 0.05
5494. TYPE CONCRETE
5495. STRENGTH FCU 2800
5496. ISOTROPIC ALUMINUM
5497. E 7.0307E+006
5498. POISSON 0.33
5499. DENSITY 2.71263
5500. ALPHA 2.3E-005
5501. DAMP 0.03
5502. ISOTROPIC STEEL
5503. E 2.09042E+007
5504. POISSON 0.3
5505. DENSITY 7.83341
5506. ALPHA 1.2E-005
5507. DAMP 0.03
5508. TYPE STEEL
5509. STRENGTH FY 25819.2 FU 41584 RY 1.5 RT 1.2
5510. END DEFINE MATERIAL
5511. MEMBER PROPERTY AMERICAN
5512. 84 TO 93 95 116 118 119 121 125 TO 130 132 TO 136 141 145 TO 149 152 160 161 -
5513. 164 165 167 169 187 TO 189 193 TO 197 208 TO 210 222 224 226 228 230 255 -
5514. 257 262 264 266 TO 268 272 274 276 TO 280 283 287 288 291 TO 294 296 311 -
5515. 312 327 TO 331 484 TO 489 500 TO 503 552 557 572 573 575 576 578 TO 583 637 -
5516. 638 TO 642 649 TO 660 898 TO 903 990 991 1064 1084 1089 1093 1096 -
5517. 1195 TO 1197 1270 1273 1276 1294 TO 1297 1308 1332 1333 1336 1337 1374 1387 -
5518. 1388 TO 1390 1691 TO 1693 1715 1741 TO 1745 1750 1756 1757 1913 1915 1954 -
5519. 1955 TO 1973 1976 TO 2004 2006 2008 TO 2010 2078 2083 TO 2085 2213 13345 -
5520. 13455 13527 13704 13706 13731 13737 13745 13750 14041 14968 15014 15016 -
5521. 15039 15041 15218 15241 15243 15246 15247 15294 TO 15296 15304 15306 15323 -
5522. 15397 15878 15907 15914 15916 15966 15979 TO 15982 16078 16195 TO 16200 -
5523. 16202 16220 16245 16249 16294 PRIS YD 0.6 ZD 0.5
5524. MEMBER PROPERTY AMERICAN
5525. 2519 TO 2550 2563 TO 2569 2573 TO 2580 2597 TO 2601 2610 TO 2619 2623 TO 2625 -
5526. 2636 TO 2642 2645 2649 2650 2653 TO 2661 2664 TO 2667 2670 TO 2674 -
5527. 2677 TO 2679 2683 2719 TO 2723 2832 TO 2851 2853 2855 2857 2859 2861 2863 -
5528. 2865 2867 2869 2871 2873 2875 2897 2899 2901 2905 TO 2908 2914 TO 2917 2923 -
5529. 2924 2931 2933 2934 2937 2968 2969 2971 2972 2981 TO 2984 2989 TO 2992 2995 -
5530. 3002 3004 3008 3009 3012 3013 3016 3017 3019 3026 3028 3030 3036 TO 3039 -
5531. 3198 TO 3200 3204 3687 TO 3724 3731 TO 3736 3746 TO 3754 3771 3772 -
5532. 3775 TO 3781 3795 3797 3798 3831 TO 3835 3937 TO 3971 3980 3983 TO 3985 4012 -
5533. 4024 TO 4027 4032 TO 4035 4038 4047 4052 4055 4059 4060 4078 TO 4082 4087 -
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5534. 4313 TO 4348 4350 4357 TO 4360 4362 4372 TO 4380 4397 4398 4401 TO 4403 4405 -
5535. 4406 TO 4407 4415 TO 4418 4423 4424 4457 TO 4461 4563 TO 4598 4606 -
5536. 4609 TO 4611 4638 4650 TO 4653 4658 TO 4661 4664 4673 4678 4681 4685 4686 -
5537. 4704 TO 4708 5366 5367 5697 TO 5722 5729 TO 5734 5744 TO 5752 5770 5773 5774 -
5538. 5777 5778 5829 TO 5833 5955 TO 5962 5965 TO 5969 6010 6022 TO 6025 -
5539. 6030 TO 6033 6036 6045 6050 6053 6057 6058 6076 TO 6080 6460 6461 6466 6483 -
5540. 6484 6737 TO 6774 6781 TO 6786 6796 TO 6804 6821 6822 6825 TO 6828 -
5541. 6865 TO 6869 6956 TO 6990 7017 7029 TO 7032 7037 TO 7040 7043 7052 7057 7060 -
5542. 7064 7065 7079 TO 7083 7113 7130 7131 7140 PRIS YD 0.5 ZD 0.15
5543. 7141 7146 7528 7582 7588 7590 7591 7789 TO 7825 7833 TO 7837 7848 TO 7856 -
5544. 7869 7870 7873 TO 7876 7907 TO 7911 7991 TO 8025 8047 8059 TO 8062 -
5545. 8067 TO 8070 8073 8080 8085 8088 8092 8093 8101 TO 8105 8129 8136 8137 8146 -
5546. 8147 8152 8210 8216 8218 8219 8567 8568 8570 8577 8584 8767 8769 TO 8804 -
5547. 8811 TO 8816 8826 TO 8834 8847 8848 8851 TO 8854 8885 TO 8889 8969 TO 8989 -
5548. 8991 TO 9003 9025 9037 TO 9040 9045 TO 9048 9051 9058 9063 9066 9070 9071 -
5549. 9079 TO 9083 9107 9114 9115 9124 9125 9130 9163 9188 9194 9196 9706 TO 9729 -
5550. 9731 TO 9734 9736 TO 9743 9750 TO 9755 9765 TO 9773 9786 9787 9790 TO 9793 -
5551. 9824 TO 9828 9907 TO 9941 9963 9975 TO 9978 9983 TO 9986 9989 9996 10001 -
5552. 10004 10008 10009 10017 TO 10021 10045 10051 10052 10061 10062 10067 10094 -
5553. 10100 10102 10103 10114 10115 10117 10119 10120 10649 TO 10657 10659 10660 -
5554. 10681 TO 10684 10686 10693 TO 10696 10698 10708 TO 10716 10725 10730 10733 -
5555. 10734 TO 10736 10871 TO 10878 10880 TO 10885 10907 10933 10940 10945 10948 -
5556. 10952 10953 10989 10996 10997 11541 TO 11558 11565 TO 11570 11580 TO 11588 -
5557. 11592 11601 11604 TO 11607 11669 TO 11683 11702 11705 11712 11717 11720 -
5558. 11724 11725 11750 11757 11758 12024 12025 12030 12031 12157 12159 TO 12168 -
5559. 12196 TO 12204 12217 12284 12286 TO 12298 12320 12332 12339 12340 12372 -
5560. 12373 12401 12402 13190 13227 13269 13495 13563 TO 13567 13596 -
5561. 14149 TO 14151 14331 14420 14506 14560 15453 15454 15567 15568 15586 15615 -
5562. 15616 15684 15685 15741 15791 PRIS YD 0.5 ZD 0.15
5563. 7 TO 9 22 559 625 TO 630 5387 5388 5391 TO 5396 6102 13173 TO 13178 -
5564. 15127 PRIS YD 0.9
5565. 157 TO 159 13144 TO 13146 PRIS YD 0.7
5566. 3474 TO 3482 3486 TO 3488 3492 TO 3496 3498 TO 3500 3504 3506 TO 3511 3514 -
5567. 3527 3532 TO 3535 3538 TO 3541 3544 TO 3546 3549 TO 3551 3558 3559 3563 3569 -
5568. 3570 TO 3571 3586 TO 3588 3591 3603 TO 3605 3608 3609 3630 TO 3649 3671 3672 -
5569. 3681 TO 3686 3773 3786 3836 TO 3884 3909 3922 3988 4039 4048 4049 4069 4099 -
5570. 4100 TO 4103 4112 TO 4114 4118 TO 4122 4124 TO 4126 4130 4132 TO 4137 4140 -
5571. 4153 TO 4155 4158 TO 4161 4164 TO 4167 4170 TO 4172 4175 TO 4177 4184 4185 -
5572. 4195 TO 4197 4212 TO 4214 4217 4219 4229 TO 4231 4234 4235 4307 TO 4312 4349 -
5573. 4355 4361 4399 4412 4462 TO 4516 4535 4548 4665 4666 4674 4675 4697 4725 -
5574. 5354 5356 5365 5368 5369 5472 TO 5475 5484 TO 5486 5490 5492 TO 5494 5496 -
5575. 5497 TO 5498 5502 5505 5506 5509 5512 5525 5526 5530 TO 5533 5536 TO 5539 -
5576. 5542 TO 5544 5547 TO 5549 5556 5567 TO 5569 5584 TO 5586 5589 5606 5607 5695 -
5577. 5738 5771 5834 TO 5859 5861 5862 5865 TO 5886 5907 5920 5963 5964 5986 6037 -
5578. 6046 6047 6471 6473 6474 6508 6518 6522 6555 TO 6562 6565 TO 6567 -
5579. 6571 TO 6574 6576 TO 6580 6582 TO 6585 6588 6600 6601 6605 TO 6609 -
5580. 6611 TO 6615 6617 TO 6619 6622 TO 6624 6631 6636 TO 6638 6650 TO 6653 6656 -
5581. 6665 TO 6667 6670 6671 6692 TO 6711 6823 6870 TO 6915 6938 6944 7044 7053 -
5582. 7054 7106 7114 7118 7121 7132 7142 7143 7149 7150 7509 7534 7556 7581 7584 -
5583. 7585 7620 TO 7627 7629 TO 7631 7635 PRIS YD 0.8 ZD 0.5
5584. 16190 16192 16194 16201 16219 16224 TO 16228 16239 16241 -
5585. 16296 PRIS YD 0.8 ZD 0.5
5586. 15847 15851 15852 15855 15873 TO 15875 PRIS YD 0.8 ZD 0.5
5587. 7636 TO 7638 7640 TO 7644 7646 TO 7649 7652 7664 7665 7667 TO 7671 -
5588. 7673 TO 7677 7679 TO 7681 7684 TO 7686 7693 7698 TO 7700 7711 TO 7714 7717 -
5589. 7722 TO 7724 7727 7728 7749 TO 7768 7826 7832 7838 7871 7912 TO 7957 7976 -
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5590. 8074 8081 8082 8132 8133 8138 8148 8149 8155 8156 8167 8191 8194 8209 8212 -
5591. 8213 8598 TO 8605 8607 TO 8609 8613 TO 8616 8618 TO 8622 8624 TO 8627 8630 -
5592. 8642 8643 8645 TO 8649 8651 TO 8655 8657 TO 8659 8662 TO 8664 8671 -
5593. 8676 TO 8678 8689 TO 8692 8695 8700 TO 8702 8705 8706 8727 TO 8746 8768 8823 -
5594. 8849 8890 TO 8935 8954 8958 8990 9052 9059 9060 9105 9108 9110 9111 9116 -
5595. 9126 9127 9133 9134 9145 9169 9172 9187 9190 9191 9537 TO 9544 9546 TO 9548 -
5596. 9552 TO 9555 9557 TO 9561 9563 TO 9566 9569 9581 9582 9584 TO 9588 -
5597. 9590 TO 9594 9596 TO 9598 9601 TO 9603 9610 9615 TO 9617 9628 TO 9631 9634 -
5598. 9639 TO 9641 9644 9645 9666 TO 9685 9788 9829 TO 9874 9893 9990 9997 9998 -
5599. 10047 10048 10053 10063 10064 10070 10076 TO 10078 10093 10096 10097 10463 -
5600. 10493 TO 10509 10512 10524 TO 10537 10552 10553 10571 TO 10574 10577 10587 -
5601. 10588 10658 10685 10691 10697 10701 10731 10792 TO 10817 10836 10840 10879 -
5602. 10934 10941 10942 10970 10987 10990 10992 10993 11027 TO 11033 11051 11069 -
5603. 11437 TO 11448 11450 TO 11453 11456 11466 TO 11479 11484 11485 -
5604. 11493 TO 11496 11499 11504 11505 11602 11610 TO 11635 11654 11706 11713 -
5605. 11714 11732 11753 11754 11769 11793 11796 12056 TO 12058 -
5606. 16115  PRIS YD 0.8 ZD 0.5
5607. 16116 16125 16126 PRIS YD 0.8 ZD 0.5
5608. 12061 TO 12064 12066 12069 12072 12082 12083 12086 TO 12089 12092 TO 12095 -
5609. 12109 TO 12112 12115 12121 12158 12193 12218 12234 TO 12251 12270 12285 -
5610. 12321 12328 12329 12347 12368 12369 12378 TO 12380 12675 TO 12691 -
5611. 12695 TO 12704 12708 TO 12711 12714 12717 12719 12721 12724 TO 12734 12741 -
5612. 12742 TO 12745 12789 TO 12807 12822 12824 12852 TO 12855 12867 12882 12883 -
5613. 12888 TO 12890 12906 12908 13179 13183 13185 13189 13194 13220 13226 13254 -
5614. 13264 13266 13268 13275 13389 13594 13599 TO 13601 13619 13664 TO 13674 -
5615. 13688 13710 13718 TO 13724 13726 13728 13730 13771 TO 13773 13784 13786 -
5616. 13787 13800 13801 13814 13816 13827 13829 13840 13842 13853 13855 13866 -
5617. 13868 13879 13881 13892 13894 13905 13907 14025 14027 14188 14296 14316 -
5618. 14319 14321 14323 14332 14333 14355 14359 14367 14368 14411 14416 14418 -
5619. 14425 TO 14427 14434 14500 14501 15484 15485 15565 15569 TO 15571 15634 -
5620. 15697 15714 15735 15736 15743 TO 15748 15773 15774 PRIS YD 0.8 ZD 0.5
5621. 2377 2379 TO 2381 2385 2387 2392 2400 TO 2406 2408 TO 2410 2415 2416 2420 -
5622. 2421 TO 2422 2428 2430 2431 2441 2443 2445 2447 TO 2449 2688 TO 2713 2783 -
5623. 2784 TO 2794 2797 2806 TO 2810 2818 TO 2831 2940 TO 2950 2962 TO 2967 2993 -
5624. 3010 3011 3014 3015 3023 3203 3210 3212 3214 3216 3228 3230 3232 3234 3236 -
5625. 3553 TO 3556 3560 3562 3566 3574 TO 3580 3582 TO 3584 3589 3590 3596 3597 -
5626. 3600 TO 3602 3611 3613 3615 TO 3618 3800 TO 3824 3895 TO 3907 3916 TO 3920 -
5627. 3923 TO 3936 3989 TO 3999 4005 TO 4010 4036 4053 4054 4057 4058 4086 4088 -
5628. 4089 TO 4098 4179 TO 4182 4186 4188 4192 4200 TO 4206 4208 TO 4210 4215 4216 -
5629. 4220 4222 4223 4226 TO 4228 4237 4239 4241 TO 4244 4426 TO 4451 4521 TO 4533 -
5630. 4542 TO 4546 4549 TO 4562 4615 TO 4625 4631 TO 4636 4662 4679 4680 4683 4684 -
5631. 4692 4712 4714 TO 4724 5551 TO 5554 5558 5560 5574 TO 5578 5580 TO 5582 5587 -
5632. 5588 5592 5594 5595 5600 5609 5611 5613 5615 5616 5799 TO 5823 5893 TO 5905 -
5633. 5921 TO 5925 5929 TO 5934 5987 TO 5992 6003 TO 6008 6034 6051 6052 6055 6056 -
5634. 6064 6084 6086 TO 6096 6453 6455 TO 6457 6462 6463 6465 6467 TO 6470 6477 -
5635. 6479 6481 6482 6510 6511 6513 6524 6626 TO 6629 6632 6634 6641 TO 6645 6647 -
5636. 6648 TO 6649 6654 6655 6661 6662 6664 6673 6675 6677 TO 6680 6835 TO 6856 -
5637. 6924 TO 6936 6945 TO 6949 6951 TO 6955 6999 TO 7004 7010 TO 7015 7041 7058 -
5638. 7059 7062 7063 7087 7089 PRIS YD 0.8 ZD 0.2
5639. 7090 TO 7099 7103 TO 7105 7116 7128 7129 7134 7135 7137 7144 7532 7563 7566 -
5640. 7570 7572 7576 7577 7688 TO 7691 7694 7696 7702 TO 7706 7708 TO 7710 7715 -
5641. 7716 7718 7719 7721 7730 7732 7734 TO 7737 7880 TO 7901 7962 TO 7974 7981 -
5642. 7982 TO 7990 8029 TO 8034 8040 TO 8045 8071 8086 8087 8090 8091 8109 8111 -
5643. 8112 TO 8121 8124 TO 8128 8130 8134 8135 8140 8141 8143 8150 8164 8195 8198 -
5644. 8200 8202 8206 8207 8560 TO 8566 8666 TO 8669 8672 8674 8680 TO 8684 8686 -
5645. 8687 TO 8688 8693 8694 8696 8697 8699 8708 8710 8712 TO 8715 8858 TO 8879 -
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5646. 8940 TO 8952 8959 TO 8968 9007 TO 9012 9018 TO 9023 9049 9064 9065 9068 9069 -
5647. 9087 9089 TO 9099 9102 TO 9104 9109 9112 9113 9118 9119 9121 9128 9138 9142 -
5648. 9167 9173 9176 9178 9180 9184 9185 9605 TO 9608 9611 9613 9619 TO 9623 9625 -
5649. 9626 TO 9627 9632 9633 9635 9636 9797 TO 9818 9879 TO 9891 9945 TO 9950 9954 -
5650. 9955 9960 9961 9964 9967 9969 9987 10002 10003 10006 10007 10033 TO 10037 -
5651. 10040 TO 10044 10046 10049 10050 10055 10056 10058 10060 10065 10079 10082 -
5652. 10084 10086 10090 10091 10107 TO 10113 10464 10466 10467 10469 10472 10475 -
5653. 10548 TO 10551 10554 10556 10568 TO 10570 10575 10576 10578 10579 10581 -
5654. 10590 10592 10594 10595 10597 10822 TO 10834 10841 TO 10845 10847 TO 10850 -
5655. 10889 TO 10894 10900 TO 10902 10904 10905 10931 10946 10947 10950 10951 -
5656. 10969 10971 TO 10981 10984 TO 10986 10991 PRIS YD 0.8 ZD 0.2
5657. 10994 10995 11005 13854 14488 14496 14498 14503 14505 14507 PRIS YD 0.8 ZD 0.2
5658. 11020 11024 11049 11405 11407 TO 11413 11415 11418 TO 11420 11436 -
5659. 11480 TO 11483 11486 11488 11490 TO 11492 11497 11498 11500 11501 11503 -
5660. 11506 11507 11509 TO 11511 11640 TO 11652 11659 TO 11668 11687 TO 11692 -
5661. 11696 TO 11700 11703 11718 11719 11722 11723 11731 11733 TO 11743 -
5662. 11745 TO 11749 11751 11752 11755 11756 11761 11766 11797 11799 TO 11809 -
5663. 12017 TO 12019 12021 TO 12023 12052 12106 TO 12108 12113 12114 12116 12117 -
5664. 12119 12122 12126 12127 12256 TO 12268 12274 12275 12311 TO 12313 12318 -
5665. 12337 12338 12346 12348 TO 12358 12360 12361 12367 12370 12371 12381 12383 -
5666. 12384 TO 12389 12398 TO 12400 12705 TO 12707 12712 12713 12715 12716 12718 -
5667. 12720 12722 12723 12808 TO 12820 12825 12826 12846 TO 12849 12858 12859 -
5668. 12866 12868 TO 12881 12884 12885 12891 12893 TO 12899 12901 TO 12903 13184 -
5669. 13186 13188 13253 13265 13270 13707 13709 13711 TO 13717 13725 13727 13729 -
5670. 13815 13828 13841 13867 13880 13893 13906 14290 14297 14318 14320 14322 -
5671. 14327 14334 14356 14358 14362 14363 14369 14412 14417 14419 14421 14428 -
5672. 14431 14433 14486 14497 15451 15518 15540 15542 15564 15613 15633 15644 -
5673. 15659 15676 15682 15683 15686 15691 15692 15694 15695 15713 15715 15766 -
5674. 15768 PRIS YD 0.8 ZD 0.2
5675. MEMBER PROPERTY AMERICAN
5676. 2960 2961 2970 2973 2975 4003 4004 4013 4016 4018 4629 4630 4639 4642 4644 -
5677. 6001 6002 6011 6014 6016 7008 7009 7018 7021 7023 7510 7512 TO 7515 8038 -
5678. 8039 8048 8051 8053 9016 9017 9026 9029 9031 9146 TO 9151 10054 10059 10999 -
5679. 11004 11759 11760 13191 13193 13236 PRIS YD 0.8 ZD 0.25
5680. MEMBER PROPERTY AMERICAN
5681. 348 TO 350 352 396 398 406 407 409 410 422 428 TO 430 2389 2444 2451 TO 2482 -
5682. 2484 TO 2486 2497 TO 2501 2503 TO 2507 2509 TO 2512 3027 13378 13559 13562 -
5683. 13569 TO 13572 14593 15440 15441 15505 15515 15534 -
5684. 15538 PRIS YD 2.2 ZD 0.5
5685. MEMBER PROPERTY AMERICAN
5686. 344 TO 347 355 TO 360 380 382 385 387 389 391 TO 393 397 448 450 463 TO 466 -
5687. 469 TO 472 474 TO 483 2383 2384 2393 TO 2399 2412 TO 2414 2419 2432 2434 -
5688. 2437 2439 2663 2724 TO 2743 2773 TO 2778 2817 3029 3260 13346 14042 15452 -
5689. 15506 PRIS YD 1.5 ZD 0.5
5690. MEMBER PROPERTY AMERICAN
5691. 82 104 105 107 TO 111 171 220 241 TO 248 298 845 TO 850 857 TO 861 867 927 -
5692. 928 TO 933 1011 TO 1016 1098 1201 TO 1203 1272 1298 TO 1301 1328 1329 1350 -
5693. 1650 TO 1661 1667 TO 1672 1700 TO 1705 1719 1731 TO 1733 1746 TO 1749 1754 -
5694. 1755 1758 1845 2212 13662 14949 15187 15188 15191 TO 15194 15235 15253 15254 -
5695. 15256 15257 15264 15297 15299 15303 15314 15351 TO 15353 15391 15885 15888 -
5696. 15890 15892 15893 15896 15898 15903 15913 15915 15923 TO 15925 15961 15962 -
5697. 15964 15967 15968 15977 16193 PRIS YD 0.6 ZD 0.4
5698. MEMBER PROPERTY AMERICAN
5699. 2435 2714 TO 2717 2974 2976 TO 2980 2985 TO 2988 3031 TO 3035 3606 3725 3729 -
5700. 3730 3737 TO 3745 3765 TO 3770 3774 3782 TO 3784 3787 TO 3794 3796 3799 3826 -
5701. 3827 TO 3830 3977 TO 3979 3981 3982 3987 4011 4014 4015 4017 4019 TO 4023 -

5702. 4028 TO 4031 4045 4051 4056 4062 4068 4070 4072 TO 4077 4083 TO 4085 4232 -
5703. 4233 4351 4356 4363 TO 4371 4391 TO 4396 4400 4404 4408 TO 4410 4413 4414 -
5704. 4419 TO 4422 4425 4452 TO 4456 4599 TO 4601 4603 TO 4605 4607 4608 4613 4637 -
5705. 4640 4641 4643 4645 TO 4649 4654 TO 4657 4671 4677 4682 4688 4694 4696 4698 -
5706. 4699 TO 4703 4709 TO 4711 4713 5364 5604 5605 5685 TO 5694 5696 5723 5727 -
5707. 5728 5735 TO 5737 5739 TO 5743 5753 5763 TO 5767 5769 5772 5780 TO 5782 5784 -
5708. 5794 5824 TO 5828 5935 TO 5954 5970 TO 5973 5976 5978 5985 6009 6012 6013 -
5709. 6015 6017 TO 6021 6026 TO 6029 6043 6049 6054 6060 6071 TO 6075 6081 TO 6083 -
5710. 6085 6476 6478 6480 6515 TO 6517 6526 6668 6669 6775 6779 6780 6787 TO 6795 -
5711. 6805 6815 6816 6818 6819 6824 6829 TO 6831 6860 TO 6862 6864 6995 TO 6997 -
5712. 7016 7019 7020 7022 7024 TO 7028 7033 TO 7036 7050 7056 7061 7067 -
5713. 7074 TO 7078 7084 TO 7086 7088 7139 7518 TO 7520 7527 7533 7535 7725 7726 -
5714. 7827 7831 7839 TO 7847 7857 7863 TO 7867 7872 7877 TO 7879 7902 TO 7904 7906 -
5715. 8026 TO 8028 8046 8049 8050 8052 8054 TO 8058 8063 TO 8066 8078 8084 8089 -
5716. 8094 8096 TO 8100 8106 16076 PRIS YD 0.8 ZD 0.15
5717. 8107 8108 8110 8145 8587 8588 8703 8704 8805 8809 8810 8817 TO 8822 8824 8825 -
5718. 8835 8841 TO 8845 14258 TO 14260 PRIS YD 0.8 ZD 0.15
5719. 8850 8855 TO 8857 8880 TO 8884 9004 TO 9006 9024 9027 9028 9030 9032 TO 9036 -
5720. 9041 TO 9044 9056 9062 9067 9072 9074 TO 9078 9084 TO 9086 9088 9123 9153 -
5721. 9154 TO 9156 9162 9164 9166 9168 9170 9744 9748 9749 9756 TO 9764 9774 9780 -
5722. 9781 TO 9784 9789 9795 9796 9942 9944 9962 9965 9966 9994 10000 10005 10010 -
5723. 10022 TO 10024 10026 10123 10124 10468 10470 10687 TO 10690 10692 10699 -
5724. 10700 10702 TO 10707 10717 TO 10719 10721 10722 10732 10738 10739 -
5725. 10886 TO 10888 10906 10938 10944 10949 10954 10955 10966 TO 10968 -
5726. 11035 TO 11038 11044 TO 11046 11048 11050 11052 11559 TO 11564 -
5727. 11571 TO 11579 11589 TO 11591 11593 11594 11603 11608 11609 11684 TO 11686 -
5728. 11701 11710 11716 11721 11726 TO 11730 12027 12034 12035 12187 TO 12192 -
5729. 12194 12195 12208 12211 12212 12214 TO 12216 12301 12331 12341 -
5730. 12343 TO 12345 12404 12746 TO 12775 12779 12782 12783 12785 TO 12788 12827 -
5731. 12828 TO 12842 12851 12856 12857 12860 TO 12865 12886 12887 12904 12905 12907 -
5732. 13187 13192 13200 13224 13237 13271 13276 13496 TO 13498 13505 13598 13629 -
5733. 13630 TO 13633 14213 14215 TO 14217 14236 TO 14238 14303 TO 14305 14328 14329 -
5734. 14364 14366 14392 TO 14394 14406 TO 14408 14422 14423 14429 14475 TO 14477 -
5735. 14561 14566 14576 14585 14812 14818 14824 14825 15465 15517 15519 -
5736. 15521 TO 15523 15532 15635 TO 15638 15645 15654 15656 15680 15693 15696 -
5737. 15716 TO 15720 15734 15737 TO 15740 15742 15769 TO 15772 15786 TO 15790 -
5738. 15813 15848 TO 15850 15853 15854 15861 PRIS YD 0.8 ZD 0.15
5739. 3484 3485 3489 TO 3491 3497 3501 3503 3505 3512 3513 3517 3531 3536 3537 3542 -
5740. 3543 3547 3548 3552 3557 3567 3568 3572 3585 3598 3599 3612 3614 -
5741. 3619 TO 3629 3670 3673 TO 3675 3677 TO 3680 3913 TO 3915 4050 4104 TO 4108 -
5742. 4110 4111 4115 4116 4127 4129 4131 4138 4139 4143 4157 4162 4163 4168 4169 -
5743. 4173 4174 4178 4183 4189 4193 4194 4198 4211 4224 4225 4240 4245 TO 4275 -
5744. 4296 TO 4301 4303 TO 4306 4539 TO 4541 4676 4695 5477 TO 5480 5483 5487 5488 -
5745. 5499 5501 5510 5511 5515 5529 5534 5535 5540 5541 5545 5546 5550 5555 5566 -
5746. 5570 5583 5596 5601 TO 5603 5612 5617 TO 5647 5668 5671 TO 5673 5911 6048 -
5747. 6459 6472 6475 6532 6533 6564 6568 6569 6581 6586 6587 6591 6604 6610 6616 -
5748. 6620 6621 6625 6630 6635 6639 6663 6676 6681 TO 6691 6732 TO 6734 6942 7055 -
5749. 7628 7632 7633 7645 7650 7651 7655 7666 7672 7678 7682 7683 7687 7692 7697 -
5750. 7701 7720 7733 7738 TO 7748 7785 TO 7787 7978 8083 8569 8571 8585 8586 8606 -
5751. 8610 8611 8623 8628 8629 8633 8644 8650 8656 8660 8661 8665 8670 8675 8679 -
5752. 8698 8711 8716 TO 8726 8763 TO 8765 8956 9061 9545 9549 9550 9562 9567 9568 -
5753. 9570 TO 9573 9578 TO 9580 9583 9589 9595 9599 9600 9604 9609 9614 9618 9637 -
5754. 9650 9655 TO 9665 9686 9688 TO 9690 9697 TO 9704 9895 9999 10116 10118 10121 -
5755. 10122 10510 10511 10521 TO 10523 10580 10593 10598 TO 10608 10629 -
5756. 10631 TO 10633 15764 15792 TO 15797 PRIS YD 0.8 ZD 0.6
5757. 16117 16127 PRIS YD 0.8 ZD 0.6

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5758. 10646 10647 10838 10943 11022 11449 11454 11455 11457 TO 11459 11463 TO 11465 -
5759. 11502 11508 11512 TO 11523 11525 TO 11527 11534 TO 11540 11656 11715 12026 -
5760. 12028 12032 12033 12070 12071 12073 TO 12075 12118 12124 12128 TO 12138 -
5761. 12150 TO 12154 12272 12330 12403 12405 13180 13181 13197 TO 13199 13202 -
5762. 13221 13222 13232 TO 13235 13255 13260 TO 13263 13385 13387 13388 13493 -
5763. 13499 TO 13502 13504 13508 13625 13628 13635 TO 13638 13640 13678 TO 13687 -
5764. 14289 14600 TO 14602 15475 15486 15487 15520 15566 15598 15614 15671 -
5765. 15672 PRIS YD 0.8 ZD 0.6
5766. 3581 3893 3894 4042 4043 4207 4519 4520 4668 4669 5579 5891 5892 6040 6041 -
5767. 6646 6922 6923 7047 7048 7707 7960 7961 8075 8076 8685 8938 8939 9053 9054 -
5768. 9624 9877 9878 9991 9992 10567 10820 10821 10935 10936 11489 11638 11639 -
5769. 11707 11708 PRIS YD 1.2 ZD 0.6
5770. 3515 3516 3518 3523 TO 3525 3650 3652 TO 3654 3665 TO 3669 4141 4142 4144 -
5771. 4149 TO 4151 4276 4278 TO 4280 4291 TO 4295 5513 5514 5516 5521 TO 5523 5648 -
5772. 5650 TO 5652 5663 TO 5667 6597 TO 6599 6712 6714 TO 6716 7661 TO 7663 7769 -
5773. 7771 TO 7773 8639 TO 8641 8747 TO 8751 13379 TO 13381 14594 TO 14598 -
5774. 14599 PRIS YD 1 ZD 0.6
5775. MEMBER PROPERTY AMERICAN
5776. 2407 2424 2781 2782 2803 2999 3000 3007 3561 3891 3892 4044 4046 4187 4517 -
5777. 4518 4670 4672 5559 5889 5890 6042 6044 6633 6920 6921 7049 7051 7695 7958 -
5778. 7959 8077 8079 8673 8936 8937 9055 9057 9612 9875 9876 9993 9995 10555 10818 -
5779. 10819 10937 10939 11487 11636 11637 11709 11711 13677 PRIS YD 1.2 ZD 0.5
5780. 75 TO 79 140 142 153 154 170 175 178 180 191 689 TO 693 709 TO 723 916 918 -
5781. 919 TO 921 940 TO 945 1039 TO 1041 1043 1044 1072 1073 1090 1189 TO 1191 1290 -
5782. 1291 TO 1293 13376 13526 13529 13535 TO 13538 13675 14591 14911 -
5783. 14918 TO 14922 14924 14926 14928 14930 14932 14934 14948 15007 15100 15255 -
5784. 15258 15259 15309 15899 15909 16080 16081 16089 TO 16094 -
5785. 16095 PRIS YD 0.6 ZD 0.6
5786. 83 661 TO 672 729 TO 748 769 TO 788 851 TO 856 862 TO 866 868 910 TO 915 926 -
5787. 934 TO 939 946 TO 951 987 992 993 998 1005 TO 1010 1017 TO 1022 1051 1053 -
5788. 1055 1057 1065 1068 1069 1075 1077 1088 1092 1192 TO 1194 1198 TO 1200 1237 -
5789. 1239 1285 TO 1287 1289 1302 TO 1305 1307 1309 1326 1327 1330 1331 1351 1759 -
5790. 1760 TO 1779 1782 TO 1790 1811 TO 1829 1833 TO 1844 1861 1867 1870 1871 1874 -
5791. 1875 TO 1885 1900 1901 1903 TO 1905 1909 1912 1914 1924 TO 1929 1931 1932 -
5792. 1935 TO 1942 1944 1945 1949 TO 1953 2074 2077 2267 13459 TO 13462 13470 -
5793. 13530 TO 13533 13986 14068 14102 14103 14105 14108 14110 14111 14113 14126 -
5794. 14127 TO 14128 14534 14537 14550 14891 TO 14895 14897 TO 14901 14925 14927 -
5795. 14929 14931 14933 14935 14942 TO 14947 14969 14971 14973 15129 TO 15131 -
5796. 15133 15140 TO 15143 15145 TO 15149 15154 15156 15169 15223 15225 15227 -
5797. 15232 TO 15234 15237 15239 15260 TO 15263 15300 TO 15302 15317 15318 15324 -
5798. 15398 TO 15407 15418 15420 TO 15428 15901 15904 TO 15906 15908 -
5799. 15910 TO 15912 15926 TO 15928 15963 15970 TO 15976 15978 15983 16083 16088 -
5800. 16096 16113 16222 16223 16232 TO 16237 16240 16242 16243 16247 16250 16251 -
5801. 16253 16295 16297 PRIS YD 0.6 ZD 0.15
5802. MEMBER PROPERTY AMERICAN
5803. 14831 14834 14836 14838 14841 14843 14846 14848 14850 14862 14865 14868 -
5804. 14871 PRIS YD 0.8 ZD 0.3
5805. MEMBER PROPERTY AMERICAN
5806. 68 TO 73 749 TO 768 1031 TO 1034 1070 1071 15004 PRIS YD 0.8 ZD 0.6
5807. MEMBER PROPERTY AMERICAN
5808. 1780 1781 15132 15139 15408 15409 15419 15584 15588 16079 16082 16097 -
5809. 16114 PRIS YD 0.6 ZD 0.3
5810. MEMBER PROPERTY AMERICAN
5811. 423 426 2508 3519 3522 3676 4145 4148 4302 5517 5520 5674 6593 6736 7657 7660 -
5812. 7788 8635 8638 8766 9574 9577 9705 9730 9735 14504 14803 16118 16119 16128 -
5813. 16129 PRIS YD 0.8 ZD 0.4
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5814. MEMBER PROPERTY AMERICAN
5815. 15531 15632 15655 15657 15812 15814 15816 15819 15822 15832 16077 -
5816. 16302 TO 16304 PRIS YD 0.55 ZD 0.5
5817. MEMBER PROPERTY AMERICAN
5818. 6509 6514 7133 7147 7569 8139 8153 8199 9117 9131 9177 PRIS YD 0.25 ZD 0.2
5819. 15513 15535 15537 15539 15541 15543 15583 15587 PRIS YD 1 ZD 0.25
5820. MEMBER PROPERTY AMERICAN
5821. 401 TO 405 408 436 2386 2417 2513 TO 2516 2744 TO 2772 2779 2780 2799 3001 -
5822. 3003 3005 3006 13663 PRIS YD 1.1 ZD 0.5
5823. 988 989 995 1241 1242 1306 1868 1869 1872 1933 1934 1943 16084 -
5824. 16085 PRIS YD 0.6 ZD 0.2
5825. MEMBER PROPERTY AMERICAN
5826. 213 TO 217 252 269 TO 271 273 281 282 284 285 297 302 TO 305 315 326 332 574 -
5827. 577 1371 1372 1618 TO 1649 1662 1664 TO 1666 1673 TO 1678 1710 TO 1714 1716 -
5828. 1717 1721 1728 TO 1730 1738 TO 1740 13377 13454 13456 13458 13463 TO 13466 -
5829. 13472 13676 14592 15200 15201 15219 TO 15221 15228 TO 15231 15236 15238 -
5830. 15248 15315 15390 15549 15551 15555 15557 15965 15969 PRIS YD 0.6 ZD 0.65
5831. 377 378 390 394 395 399 421 462 467 468 473 2382 2411 2425 2442 2502 2517 -
5832. 2518 2646 2804 2805 2939 2996 10513 10514 10516 10640 TO 10644 12674 13386 -
5833. 13560 13708 13757 13758 15593 PRIS YD 1 ZD 0.6
5834. MEMBER PROPERTY AMERICAN
5835. 60 TO 66 101 102 112 694 TO 708 724 TO 728 1023 TO 1025 1066 1067 1086 13661 -
5836. 15072 15095 15876 15877 15881 15917 TO 15919 16183 TO 16189 16221 -
5837. 16229 TO 16231 16244 16248 16252 16293 PRIS YD 0.6 ZD 1
5838. 5489 5495 5610 6570 6575 6674 PRIS YD 0.8 ZD 1
5839. MEMBER PROPERTY AMERICAN
5840. 15940 15941 16007 16205 16206 16208 PRIS YD 0.3 ZD 0.4
5841. MEMBER PROPERTY AMERICAN
5842. 15997 15998 16001 16203 16204 PRIS YD 0.4 ZD 0.6
5843. MEMBER PROPERTY AMERICAN
5844. 21 34 623 624 5384 5389 5390 13143 13447 15305 PRIS YD 1.1
5845. MEMBER PROPERTY AMERICAN
5846. 16027 TO 16031 16120 TO 16124 16130 TO 16134 16145 TO 16158 16169 TO 16181 -
5847. 16182 PRIS YD 0.4 ZD 0.4
5848. 16008 TO 16013 16015 TO 16018 PRIS YD 0.4
5849. 16019 TO 16026 16032 TO 16061 16135 TO 16144 16159 TO 16168 PRIS YD 0.4 ZD 0.15
5850. MEMBER PROPERTY AMERICAN
5851. 5500 5571 13348 13626 14044 PRIS YD 1 ZD 1
5852. MEMBER PROPERTY AMERICAN
5853. 289 290 295 1679 TO 1690 1735 TO 1737 15150 15152 15153 15155 15165 15167 -
5854. 15170 15172 15173 15175 PRIS YD 0.7 ZD 0.6
5855. MEMBER PROPERTY
5856. 3502 4128 4199 13347 13494 13595 14043 15658 PRIS YD 1 ZD 1.2
5857. 4117 4123 4238 7634 7639 7731 8612 8617 8709 9551 9556 9648 -
5858. 15627 PRIS YD 0.8 ZD 0.8
5859. 162 168 952 TO 955 960 962 TO 966 994 14908 14910 14936 TO 14941 14962 14964 -
5860. 14966 14967 14970 14972 PRIS YD 0.6 ZD 0.8
5861. 150 631 TO 636 PRIS YD 0.6 ZD 0.65
5862. 6589 6590 6592 6727 TO 6731 7653 7654 7656 7780 TO 7784 8631 8632 8634 8758 -
5863. 8759 TO 8762 13382 TO 13384 PRIS YD 1.2 ZD 0.6
5864. 9638 9642 9643 9647 9649 9651 TO 9654 9819 TO 9823 9897 TO 9906 9956 TO 9959 -
5865. 9968 9970 TO 9972 9974 9980 10012 TO 10016 10025 10027 TO 10032 10075 14830 -
5866. 14832 14833 14835 14837 14839 14840 14842 14844 14845 14847 14849 14851 -
5867. 14853 14856 14860 14861 14863 14864 14866 14867 14869 -
5868. 14870 PRIS YD 0.8 ZD 0.3
5869. CONSTANTS
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5870. BETA 25 MEMB 15940 15941 15997 15998 16001 16007
5871. MATERIAL CONCRETE MEMB 12619 TO 12662 15176 TO 15178 15354 TO 15358
5872. MATERIAL CONCR49 MEMB 7 TO 9 21 22 34 60 TO 66 68 TO 73 75 TO 79 82 TO 93 -
5873. 95 101 102 104 105 107 TO 112 116 118 119 121 125 TO 130 132 TO 136 -
5874. 140 TO 142 145 TO 150 152 TO 154 157 TO 162 164 165 167 TO 171 175 178 180 -
5875. 187 TO 189 191 193 TO 197 208 TO 210 213 TO 217 220 222 224 226 228 230 241 -
5876. 242 TO 248 252 255 257 262 264 266 TO 274 276 TO 285 287 TO 298 302 TO 305 -
5877. 311 312 315 326 TO 332 344 TO 350 352 355 TO 360 377 378 380 382 385 387 -
5878. 389 TO 399 401 TO 410 421 TO 423 426 428 TO 430 436 448 450 462 TO 489 491 -
5879. 492 TO 539 552 557 559 TO 561 563 TO 594 596 TO 607 623 TO 642 649 TO 672 -
5880. 689 TO 788 845 TO 868 898 TO 903 910 TO 916 918 TO 921 926 TO 955 960 962 -
5881. 963 TO 966 987 TO 995 998 1005 TO 1025 1031 TO 1034 1039 TO 1041 1043 1044 -
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5885. 1399 TO 1403 1600 TO 1612 1614 TO 1662 1664 TO 1693 1700 TO 1705 -
5886. 1710 TO 1717 1719 1721 1728 TO 1733 1735 TO 1750 1754 TO 1790 1811 TO 1829 -
5887. 1833 TO 1845 1861 1867 TO 1872 1874 TO 1885
5888. MATERIAL CONCR49 MEMB 1900 1901 1903 TO 1905 1909 1912 TO 1915 1924 TO 1929 -
5889. 1931 TO 1945 1949 TO 1973 1976 TO 2004 2006 2008 TO 2010 2074 2077 2078 2083 -
5890. 2084 TO 2085 2212 2213 2267 2377 2379 TO 2387 2389 2392 TO 2417 2419 TO 2422 -
5891. 2424 2425 2428 2430 TO 2432 2434 2435 2437 2439 2441 TO 2445 2447 TO 2449 -
5892. 2451 TO 2482 2484 TO 2486 2497 TO 2550 2563 TO 2569 2573 TO 2580 -
5893. 2597 TO 2601 2610 TO 2619 2623 TO 2625 2636 TO 2642 2645 2646 2649 2650 2653 -
5894. 2654 TO 2661 2663 TO 2667 2670 TO 2674 2677 TO 2679 2683 2688 TO 2717 2719 -
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5897. 2923 2924 2931 2933 2934 2937 2939 TO 2950 2960 TO 2993 2995 2996 -
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5899. 3203 3204 3210 3212 3214 3216 3228 3230 3232 3234 3236 3260 3262 -
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5901. 3575 TO 3591 3596 TO 3606 3608 3609 3611 TO 3650 3652 TO 3654 3665 TO 3725 -
5902. 3729 TO 3754 3765 TO 3784 3786 TO 3824 3826 TO 3884 3891 TO 3907 3909 3913 -
5903. 3914 TO 3920 3922 TO 3971 3977 TO 3985 3987 TO 3999 4003 TO 4036 4038 4039 -
5904. 4042 TO 4060 4062 4068 TO 4070 4072 TO 4108 4110 TO 4145 4148 TO 4151 4153 -
5905. 4154 TO 4155 4157 TO 4189 4192 TO 4217 4219 4220 4222 TO 4235
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5908. 4615 TO 4625 4629 TO 4662 4664 TO 4666 4668 TO 4686 4688 4692 4694 TO 4725 -
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5917. 6453 6455 TO 6457 6459 TO 6463 6465 TO 6484 6508 TO 6511 6513 TO 6518 6522 -
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5922. 6999 TO 7004 7008 TO 7041 7043 7044 7047 TO 7065 7067 7074 TO 7099 -
5923. 7103 TO 7106
5924. MATERIAL CONCR49 MEMB 7113 7114 7116 7118 7121 7128 TO 7135 7137 7139 TO 7144 -
5925. 7146 7147 7149 7150 7418 TO 7447 7509 7510 7512 TO 7515 7518 TO 7520 7527 -
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5964. 12785 TO 12820
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5967. 13183 TO 13194 13197 TO 13200 13202 13220 TO 13222 13224 13226 13227 13232 -
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5981. 14406 TO 14408 14411 14412 14416 TO 14423 14425 TO 14429 14431 14433 14434 -
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6002. 16088 TO 16097 16113 TO 16190 16192 TO 16206 16208 16219 TO 16237 -
6003. 16239 TO 16245 16247 TO 16253 16293 TO 16297 16302 TO 16304
6004. MATERIAL DIAFR MEMB 675 TO 679 683 TO 687 797 TO 820 822 TO 825 828 TO 831 -
6005. 834 TO 837 840 TO 843 872 874 876 878 880 882 883 885 887 889 891 893 895 -
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6007. 1171 TO 1173 1177 TO 1179 1181 TO 1183 1205 TO 1209 1214 TO 1222 1243 1244 -
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6012. 2147 TO 2149 2152 TO 2155 2158 TO 2161 2174 TO 2202 2206 TO 2211 2218 TO 2221 -
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6037. 7481 TO 7486 7489 7497 TO 7504 7550 7559 7593 7596 7601 7602 7611 7618 8222 -
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6092. 1529 1531 1533 1534 1537 1539 TO 1544 1547 1549 1550 1555 TO 1559 1561 1562 -
6093. 1564 1566 1568 1570 1572 1574 1575 1577 1579 TO 1584 1586 1587 15120 15275 -
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6094. 15276 TO 15282 15929 15930 15935 TO 15939 16213 TO 16216 16254 TO 16263
6095. SUPPORTS
6096. 1 2 5 TO 32 34 37 TO 41 44 TO 48 52 TO 54 119 127 129 131 752 5414 5521 5565 -
6097. 5581 5587 5797 5798 5929 5930 6068 6069 6072 6356 6357 6365 6366 6389 6475 -
6098. 6477 6481 6483 6489 6491 6493 6496 TO 6498 6522 FIXED
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6110. 4406 TO 4407 4415 TO 4418 4423 4424 4457 TO 4461 4563 TO 4598 4606 -
6111. 4609 TO 4611 4638 4650 TO 4653 4658 TO 4661 4664 4673 4678 4681 4685 4686 -
6112. 4704 TO 4708 5366 5367 5697 TO 5722 5729 TO 5734 5744 TO 5752 5770 5773 5774 -
6113. 5777 5778 5829 TO 5833 5955 TO 5962 5965 TO 5969 6010 6022 TO 6025 -
6114. 6030 TO 6033 6036 6045 6050 6053 6057 6058 6076 TO 6080 6460 6461 6466 6483 -
6115. 6484 6737 TO 6774 6781 TO 6786 6796 TO 6804 6821 6822 6825 TO 6828 -
6116. 6865 TO 6869 6956 TO 6990 7017 7029 TO 7032 7037 TO 7040 7043 7052 7057 7060 -
6117. 7064 7065 7079 TO 7083 7113 7130 7131 7140 START 0 0.15 0
6118. 7141 7146 7528 7582 7588 7590 7591 7789 TO 7825 7833 TO 7837 7848 TO 7856 -
6119. 7869 7870 7873 TO 7876 7907 TO 7911 7991 TO 8025 8047 8059 TO 8062 -
6120. 8067 TO 8070 8073 8080 8085 8088 8092 8093 8101 TO 8105 8129 8136 8137 8146 -
6121. 8147 8152 8210 8216 8218 8219 8567 8568 8570 8577 8584 8767 8769 TO 8804 -
6122. 8811 TO 8816 8826 TO 8834 8847 8848 8851 TO 8854 8885 TO 8889 8969 TO 8989 -
6123. 8991 TO 9003 9025 9037 TO 9040 9045 TO 9048 9051 9058 9063 9066 9070 9071 -
6124. 9079 TO 9083 9107 9114 9115 9124 9125 9130 9163 9188 9194 9196 9706 TO 9743 -
6125. 9750 TO 9755 9765 TO 9773 9786 9787 9790 TO 9793 9824 TO 9828 9907 TO 9941 -
6126. 9963 9975 TO 9978 9983 TO 9986 9989 9996 10001 10004 10008 10009 -
6127. 10017 TO 10021 10045 10051 10052 10061 10062 10067 10094 10100 10102 10103 -
6128. 10114 10115 10117 10119 10120 10649 TO 10657 10659 10660 10681 TO 10684 -
6129. 10686 10693 TO 10696 10698 10708 TO 10716 10725 10730 10733 TO 10736 10871 -
6130. 10872 TO 10878 10880 TO 10885 10907 10933 10940 10945 10948 10952 10953 10989 -
6131. 10996 10997 11541 TO 11558 11565 TO 11570 11580 TO 11588 11592 11601 11604 -
6132. 11605 TO 11607 11669 TO 11683 11702 11705 11712 11717 11720 11724 11725 11750 -
6133. 11757 11758 12024 12025 12030 12031 12157 TO 12168 12196 TO 12204 12217 -
6134. 12284 TO 12298 12320 12332 12339 12340 12372 12373 12401 12402 13190 13227 -
6135. 13269 13495 13563 TO 13567 13596 14149 TO 14151 14331 14420 14506 14560 -
6136. 15453 15454 15567 15568 15586 15615 15616 15684 15685 15741 -
6137. 15791 START 0 0.15 0
6138. 2519 TO 2550 2563 TO 2569 2573 TO 2580 2597 TO 2601 2610 TO 2619 2623 TO 2625 -
6139. 2636 TO 2642 2645 2649 2650 2653 TO 2661 2664 TO 2667 2670 TO 2674 -
6140. 2677 TO 2679 2683 2719 TO 2723 2832 TO 2851 2853 2855 2857 2859 2861 2863 -
6141. 2865 2867 2869 2871 2873 2875 2897 2899 2901 2905 TO 2908 2914 TO 2917 2923 -
6142. 2924 2931 2933 2934 2937 2968 2969 2971 2972 2981 TO 2984 2989 TO 2992 2995 -
6143. 3002 3004 3008 3009 3012 3013 3016 3017 3019 3026 3028 3030 3036 TO 3039 -
6144. 3198 TO 3200 3204 3687 TO 3724 3731 TO 3736 3746 TO 3754 3771 3772 -
6145. 3775 TO 3781 3795 3797 3798 3831 TO 3835 3937 TO 3971 3980 3983 TO 3985 4012 -
6146. 4024 TO 4027 4032 TO 4035 4038 4047 4052 4055 4059 4060 4078 TO 4082 4087 -
6147. 4313 TO 4348 4350 4357 TO 4360 4362 4372 TO 4380 4397 4398 4401 TO 4403 4405 -
6148. 4406 TO 4407 4415 TO 4418 4423 4424 4457 TO 4461 4563 TO 4598 4606 -
6149. 4609 TO 4611 4638 4650 TO 4653 4658 TO 4661 4664 4673 4678 4681 4685 4686 -
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6150. 4704 TO 4708 5366 5367 5697 TO 5722 5729 TO 5734 5744 TO 5752 5770 5773 5774 -
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6152. 6030 TO 6033 6036 6045 6050 6053 6057 6058 6076 TO 6080 6460 6461 6466 6483 -
6153. 6484 6737 TO 6774 6781 TO 6786 6796 TO 6804 6821 6822 6825 TO 6828 -
6154. 6865 TO 6869 6956 TO 6990 7017 7029 TO 7032 7037 TO 7040 7043 7052 7057 7060 -
6155. 7064 7065 7079 TO 7083 7113 7130 7131 7140 END 0 0.15 0
6156. 7141 7146 7528 7582 7588 7590 7591 7789 TO 7825 7833 TO 7837 7848 TO 7856 -
6157. 7869 7870 7873 TO 7876 7907 TO 7911 7991 TO 8025 8047 8059 TO 8062 -
6158. 8067 TO 8070 8073 8080 8085 8088 8092 8093 8101 TO 8105 8129 8136 8137 8146 -
6159. 8147 8152 8210 8216 8218 8219 8567 8568 8570 8577 8584 8767 8769 TO 8804 -
6160. 8811 TO 8816 8826 TO 8834 8847 8848 8851 TO 8854 8885 TO 8889 8969 TO 8989 -
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6164. 9824 TO 9828 9907 TO 9941 9963 9975 TO 9978 9983 TO 9986 9989 9996 10001 -
6165. 10004 10008 10009 10017 TO 10021 10045 10051 10052 10061 10062 10067 10094 -
6166. 10100 10102 10103 10114 10115 10117 10119 10120 10649 TO 10657 10659 10660 -
6167. 10681 TO 10684 10686 10693 TO 10696 10698 10708 TO 10716 10725 10730 10733 -
6168. 10734 TO 10736 10871 TO 10878 10880 TO 10885 10907 10933 10940 10945 10948 -
6169. 10952 10953 10989 10996 10997 11541 TO 11558 11565 TO 11570 11580 TO 11588 -
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6171. 11724 11725 11750 11757 11758 12024 12025 12030 12031 12157 TO 12168 12196 -
6172. 12197 TO 12204 12217 12284 TO 12298 12320 12332 12339 12340 12372 12373 12401 -
6173. 12402 13190 13227 13269 13495 13563 TO 13567 13596 14149 TO 14151 14331 -
6174. 14420 14506 14560 15453 15454 15567 15568 15586 15615 15616 15684 15685 -
6175. 15741 15791 16118 16119 END 0 0.15 0
6176. 348 TO 350 352 396 398 406 407 409 410 422 428 TO 430 2389 2444 2451 TO 2482 -
6177. 2484 TO 2486 2497 TO 2501 2503 TO 2507 2509 TO 2512 3027 13378 13559 13562 -
6178. 13569 TO 13572 14593 15440 15441 15505 15515 15534 15538 START 0 -0.7 0
6179. 348 TO 350 352 396 398 406 407 409 410 422 428 TO 430 2389 2444 2451 TO 2482 -
6180. 2484 TO 2486 2497 TO 2501 2503 TO 2507 2509 TO 2512 3027 13378 13559 13562 -
6181. 13569 TO 13572 14593 15440 15441 15505 15515 15534 15538 END 0 -0.7 0
6182. 344 TO 347 355 TO 360 380 382 385 387 389 391 TO 393 397 448 450 463 TO 466 -
6183. 469 TO 472 474 TO 483 2383 2384 2393 TO 2399 2412 TO 2414 2419 2432 2434 -
6184. 2437 2439 2663 2724 TO 2743 2773 TO 2778 2817 3029 3260 13346 14042 15452 -
6185. 15506 START 0 -0.35 0
6186. 344 TO 347 355 TO 360 380 382 385 387 389 391 TO 393 397 448 450 463 TO 466 -
6187. 469 TO 472 474 TO 483 2383 2384 2393 TO 2399 2412 TO 2414 2419 2432 2434 -
6188. 2437 2439 2663 2724 TO 2743 2773 TO 2778 2817 3029 3260 13346 14042 15452 -
6189. 15506 END 0 -0.35 0
6190. 2407 2424 2781 2782 2803 2999 3000 3007 3561 3581 3891 TO 3894 4042 TO 4044 -
6191. 4046 4187 4207 4517 TO 4520 4668 TO 4670 4672 5559 5579 5889 TO 5892 6040 -
6192. 6041 TO 6042 6044 6633 6646 6920 TO 6923 7047 TO 7049 7051 7695 7707 7958 -
6193. 7959 TO 7961 8075 TO 8077 8079 8673 8685 8936 TO 8939 9053 TO 9055 9057 9612 -
6194. 9624 9875 TO 9878 9991 TO 9993 9995 10555 10567 10818 TO 10821 -
6195. 10935 TO 10937 10939 11487 11489 11636 TO 11639 11707 TO 11709 11711 -
6196. 13677 START 0 -0.2 0
6197. 2407 2424 2781 2782 2803 2999 3000 3007 3561 3581 3891 TO 3894 4042 TO 4044 -
6198. 4046 4187 4207 4517 TO 4520 4668 TO 4670 4672 5559 5579 5889 TO 5892 6040 -
6199. 6041 TO 6042 6044 6633 6646 6920 TO 6923 7047 TO 7049 7051 7695 7707 7958 -
6200. 7959 TO 7961 8075 TO 8077 8079 8673 8685 8936 TO 8939 9053 TO 9055 9057 9612 -
6201. 9624 9875 TO 9878 9991 TO 9993 9995 10555 10567 10818 TO 10821 -
6202. 10935 TO 10937 10939 11487 11489 11636 TO 11639 11707 TO 11709 11711 -
6203. 13677 END 0 -0.2 0
6204. 377 378 390 394 395 399 421 462 467 468 473 2382 2411 2425 2442 2502 2517 -
6205. 2518 2646 2804 2805 2939 2996 3502 3515 3516 3518 3523 TO 3525 3650 3652 -
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6206. 3653 TO 3654 3665 TO 3669 4128 4141 4142 4144 4149 TO 4151 4199 4276 4278 -
6207. 4279 TO 4280 4291 TO 4295 5500 5513 5514 5516 5521 TO 5523 5571 5648 5650 -
6208. 5651 TO 5652 5663 TO 5667 6589 6590 6592 6597 TO 6599 6712 6714 TO 6716 6727 -
6209. 6728 TO 6731 7653 7654 7656 7661 TO 7663 7769 7771 TO 7773 7780 TO 7784 8631 -
6210. 8632 8634 8639 TO 8641 8747 TO 8751 8758 TO 8762 12674 13347 13348 13379 -
6211. 13380 TO 13384 13494 13560 13595 13626 13708 13757 13758 14043 14044 14594 -
6212. 14595 TO 14599 15513 15535 15537 15539 15541 15543 15583 15587 15593 -
6213. 15658 START 0 -0.1 0
6214. 377 378 390 394 395 399 421 462 467 468 473 2382 2411 2425 2442 2502 2517 -
6215. 2518 2646 2804 2805 2939 2996 3502 3515 3516 3518 3523 TO 3525 3650 3652 -
6216. 3653 TO 3654 3665 TO 3669 4128 4141 4142 4144 4149 TO 4151 4199 4276 4278 -
6217. 4279 TO 4280 4291 TO 4295 5500 5513 5514 5516 5521 TO 5523 5571 5648 5650 -
6218. 5651 TO 5652 5663 TO 5667 6589 6590 6592 6597 TO 6599 6712 6714 TO 6716 6727 -
6219. 6728 TO 6731 7653 7654 7656 7661 TO 7663 7769 7771 TO 7773 7780 TO 7784 8631 -
6220. 8632 8634 8639 TO 8641 8747 TO 8751 8758 TO 8762 12674 13347 13348 13379 -
6221. 13380 TO 13384 13494 13560 13595 13626 13708 13757 13758 14043 14044 14594 -
6222. 14595 TO 14599 15513 15535 15537 15539 15541 15543 15583 15587 15593 -
6223. 15658 END 0 -0.1 0
6224. 401 TO 405 408 436 2386 2417 2513 TO 2516 2744 TO 2772 2779 2780 2799 3001 -
6225. 3003 3005 3006 13663 START 0 -0.15 0
6226. 401 TO 405 408 436 2386 2417 2513 TO 2516 2744 TO 2772 2779 2780 2799 3001 -
6227. 3003 3005 3006 13663 END 0 -0.15 0
6228. MEMBER RELEASE
6229. 15914 15916 START MX MY MZ
6230. 15914 15916 END MX MY MZ
6231. ELEMENT PLANE STRESS
6232. 675 TO 679 683 TO 687 797 TO 820 822 TO 825 828 TO 831 834 TO 837 840 TO 843 -
6233. 872 874 876 878 880 882 883 885 887 889 891 893 895 896 1119 1121 TO 1131 -
6234. 1136 TO 1140 1142 TO 1144 1150 1152 1154 1155 1170 TO 1173 1177 TO 1179 1181 -
6235. 1182 TO 1183 1205 TO 1209 1214 TO 1222 1243 1244 1262 TO 1264 1266 TO 1268 -
6236. 1338 1340 1344 TO 1349 1352 1354 TO 1362 1365 TO 1370 1404 1406 TO 1419 1421 -
6237. 1423 1425 TO 1438 1441 1444 TO 1446 1451 1454 TO 1459 1461 1462 2093 2095 -
6238. 2097 2099 2100 2103 TO 2107 2110 2112 2114 2116 2118 2120 2121 2123 2125 -
6239. 2127 2129 2131 2133 2134 2140 TO 2143 2146 TO 2149 2152 TO 2155 2158 TO 2161 -
6240. 2174 TO 2202 2206 TO 2211 2218 TO 2221 2226 TO 2229 2236 TO 2242 2248 2259 -
6241. 2260 TO 2262 2269 TO 2272 2274 2276 TO 2279 2295 TO 2303 2307 TO 2316 2320 -
6242. 2328 2329 2331 TO 2337 2339 2341 TO 2347 2351 TO 2360 2362 TO 2364 -
6243. 2366 TO 2369 2371 TO 2376 3090 TO 3093 3096 TO 3099 3102 TO 3105 -
6244. 3108 TO 3111 3113 TO 3136 3139 TO 3142 3146 TO 3150 3158 3160 3162 3164 3166 -
6245. 3169 3171 3173 3175 3177 3179 TO 3187 3189 TO 3193 3209 3211 3213 3215 3217 -
6246. 3220 TO 3224 3227 3229 3231 3233 3235 3237 3238 3241 3243 3245 3247 3249 -
6247. 3251 3252 3254 3256 3258 3259 3263 TO 3289 3291 TO 3308 3313 TO 3324 3327 -
6248. 3328 TO 3331 3334 3335 3340 TO 3352 3357 TO 3361 3363 TO 3365 3368 3369 3371 -
6249. 3373
6250. ELEMENT PLANE STRESS
6251. 3375 3376 3379 3387 TO 3413 3416 TO 3421 3424 TO 3441 3445 TO 3449 3451 3461 -
6252. 3462 TO 3464 3469 TO 3473 4726 TO 4856 4858 TO 4875 4880 TO 4891 4894 TO 4898 -
6253. 4901 4902 4906 TO 4918 4923 TO 4927 4929 TO 4931 4934 4935 4937 4939 4941 -
6254. 4942 4945 4953 TO 4980 4982 TO 4987 4990 TO 5008 5011 TO 5015 5017 -
6255. 5024 TO 5027 5032 TO 5167 5169 TO 5186 5195 TO 5202 5205 TO 5209 5212 5213 -
6256. 5217 TO 5229 5240 TO 5242 5245 5246 5248 5250 5252 5253 5256 5264 TO 5270 -
6257. 5272 TO 5285 5287 TO 5291 5293 TO 5298 5301 TO 5318 5322 TO 5326 5328 5335 -
6258. 5336 TO 5338 5343 TO 5347 5372 5383 6104 TO 6204 6208 TO 6217 6220 TO 6224 -
6259. 6242 TO 6248 6251 6252 6262 TO 6269 6272 TO 6276 6284 TO 6296 6301 TO 6305 -
6260. 6307 TO 6309 6312 6313 6315 6317 6319 6320 6323 6331 TO 6335 6337 -
6261. 6339 TO 6357 6360 TO 6365 6369 6371 6373 6376 TO 6385 6389 TO 6393 -
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6262. 6402 TO 6405 6410 TO 6412 6487 TO 6506 6537 6538 6541 6545 TO 6550 6553 7154 -
6263. 7155 TO 7288 7291 TO 7295 7297 TO 7309 7320 TO 7322 7325 7326 7328 7330 7332 -
6264. 7333 7336 7344 TO 7363 7365 TO 7374 7377 TO 7389 7392 TO 7396 7404 TO 7407 -
6265. 7412 TO 7414 7455 7457 TO 7459 7462 7464 7473 7477 7481 TO 7486 7489 7497 -
6266. 7498 TO 7504 7550 7559 7593 7596 7601 7602 7611 7618 8222 TO 8356 -
6267. 8359 TO 8363 8365 TO 8380 8382 TO 8384 8386 8388 8390 8391 8394 TO 8442 8446 -
6268. 8447 TO 8449 8452 TO 8454 8491
6269. ELEMENT PLANE STRESS
6270. 8492 TO 8497 8501 8505 TO 8510 8513 8534 8537 8542 8543 8546 8557 8572 8573 -
6271. 8575 8578 TO 8583 8589 TO 8596 9201 TO 9335 9338 TO 9342 9344 TO 9359 9362 -
6272. 9363 9365 9367 9369 9370 9373 TO 9421 9425 TO 9428 9431 TO 9433 9470 TO 9476 -
6273. 9480 9484 TO 9489 9492 9507 9513 9516 9521 9522 9536 10126 TO 10252 10254 -
6274. 10255 TO 10260 10263 TO 10267 10269 TO 10284 10287 10288 10290 10292 10294 -
6275. 10295 10298 TO 10304 10306 TO 10346 10350 TO 10353 10356 10358 -
6276. 10395 TO 10400 10405 10409 TO 10412 10414 10420 10423 10428 10429 -
6277. 10443 TO 10460 10474 10476 TO 10479 11135 TO 11209 11217 TO 11224 -
6278. 11239 TO 11242 11244 11245 11247 TO 11249 11251 11252 11255 TO 11260 11276 -
6279. 11277 TO 11302 11305 11306 11308 TO 11310 11352 TO 11357 11362 11369 11389 -
6280. 11421 TO 11424 11432 11435 11810 TO 11892 11894 TO 11896 11899 11900 11902 -
6281. 11904 11906 11907 11910 TO 11942 11946 TO 11948 11975 TO 11982 -
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6283. 12496 TO 12498 12501 12502 12504 12506 12508 12509 12512 TO 12517 -
6284. 12528 TO 12544 12548 TO 12550 12578 TO 12580 12590 12591 12594 TO 12596 -
6285. 12599 12603 TO 12605 12607 12611 TO 12615 12909 TO 12959 12962 12963 12965 -
6286. 12967 12969 12970 12973 TO 12995 12999 TO 13001 13019 TO 13021 13029 13032 -
6287. 13033 TO 13041 13045 TO 13059 13203 13208 13209 13211 TO 13216 13218 13219 -
6288. 13238 TO 13241 13246 13247 13249 13251 13252 13272 TO 13274 13279 -
6289. 13284 TO 13286 13288 TO 13290 13473 TO 13475 13479 13480 13484 13485 13490 -
6290. 13492 13509 TO 13511 13516
6291. ELEMENT PLANE STRESS
6292. 13517 TO 13520 13525 13542 TO 13544 13554 13557 13575 TO 13577 13581 TO 13583 -
6293. 13585 13586 13590 13604 13616 13641 TO 13643 13646 13650 TO 13652 13656 -
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6295. 13788 TO 13796 13802 TO 13809 13817 TO 13826 13830 TO 13839 13843 TO 13852 -
6296. 13856 TO 13865 13869 TO 13878 13882 TO 13891 13895 TO 13904 13908 TO 13917 -
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6300. 14241 TO 14245 14247 14248 14250 14252 14271 TO 14273 14277 TO 14279 14281 -
6301. 14283 14287 14288 14291 14292 14294 14295 14299 TO 14302 14308 TO 14313 -
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6304. 14452 14455 TO 14459 14463 14465 TO 14474 14480 TO 14484 14508 TO 14519 -
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6306. 14568 TO 14575 14579 TO 14584 14792 14795 14797 14798 14802 14804 TO 14808 -
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6309. 14980 TO 14992 14994 TO 14996 15104 15134 TO 15137 15157 15158 -
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6311. 15367 TO 15377 15382 15383 15389 15392 TO 15396 15410 TO 15412 -
6312. 15414 TO 15417 15429 TO 15435 15442 15444 15446 15455 TO 15460
6313. ELEMENT PLANE STRESS
6314. 15488 TO 15497 15507 TO 15512 15524 TO 15529 15544 15547 15558 TO 15563 15572 -
6315. 15573 TO 15582 15589 TO 15592 15594 15595 15597 15599 TO 15601 15617 TO 15626 -
6316. 15628 TO 15630 15639 TO 15643 15646 TO 15648 15650 TO 15653 15673 TO 15675 -
6317. 15687 TO 15690 15698 TO 15712 15721 TO 15733 15749 TO 15763 15775 TO 15785 -
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6318. 15798 TO 15810 15823 TO 15826 15828 15836 TO 15839 15842 TO 15846 -
6319. 15856 TO 15860 15862 TO 15872 15942 TO 15956 15958 TO 15960 15984 TO 15989 -
6320. 15992 TO 15996 16004 TO 16006 16062 TO 16075 16098 TO 16112 16264 TO 16268 -
6321. 16270 TO 16287 16289 TO 16291 16298 TO 16301
6322. CUT OFF MODE SHAPE 20
6323. LOAD 1 LOADTYPE DEAD  TITLE DL
6324. SELFWEIGHT Y -1 LIST 7 TO 9 21 22 34 60 TO 66 68 TO 73 75 TO 79 82 TO 93 95 -
6325. 101 102 104 105 107 TO 112 116 118 119 121 125 TO 130 132 TO 136 140 TO 142 -
6326. 145 TO 150 152 TO 154 157 TO 162 164 165 167 TO 171 175 178 180 187 TO 189 -
6327. 191 193 TO 197 208 TO 210 213 TO 217 220 222 224 226 228 230 241 TO 248 252 -
6328. 255 257 262 264 266 TO 274 276 TO 285 287 TO 298 302 TO 305 311 312 315 326 -
6329. 327 TO 332 344 TO 350 352 355 TO 360 377 378 380 382 385 387 389 TO 399 401 -
6330. 402 TO 410 421 TO 423 426 428 TO 430 436 448 450 462 TO 489 491 TO 539 552 -
6331. 557 559 TO 561 563 TO 594 596 TO 607 623 TO 642 649 TO 672 689 TO 788 845 -
6332. 846 TO 868 898 TO 903 910 TO 916 918 TO 921 926 TO 955 960 962 TO 966 987 -
6333. 988 TO 995 998 1005 TO 1025 1031 TO 1034 1039 TO 1041 1043 1044 1051 1053 -
6334. 1055 1057 1064 TO 1073 1075 1077 1084 1086 1088 TO 1090 1092 1093 1096 1098 -
6335. 1189 TO 1203 1237 1239 1241 1242 1270 1272 1273 1276 1285 TO 1287 -
6336. 1289 TO 1309 1326 TO 1333 1336 1337 1350 1351 1371 1372 1374 1387 TO 1397 -
6337. 1399 TO 1403 1464 1466 TO 1468 1473 TO 1496 1499 TO 1502 1521 TO 1527 1529 -
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6339. 1566 1568 1570 1572 1574 1575 1577 1579
6340. SELFWEIGHT Y -1 LIST 1580 TO 1584 1586 1587 1600 TO 1612 1614 TO 1662 1664 -
6341. 1665 TO 1693 1700 TO 1705 1710 TO 1717 1719 1721 1728 TO 1733 1735 TO 1750 -
6342. 1754 TO 1790 1811 TO 1829 1833 TO 1845 1861 1867 TO 1872 1874 TO 1885 1900 -
6343. 1901 1903 TO 1905 1909 1912 TO 1915 1924 TO 1929 1931 TO 1945 1949 TO 1973 -
6344. 1976 TO 2004 2006 2008 TO 2010 2074 2077 2078 2083 TO 2085 2212 2213 2267 -
6345. 2377 2379 TO 2387 2389 2392 TO 2417 2419 TO 2422 2424 2425 2428 2430 TO 2432 -
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6356. 3652 TO 3654 3665 TO 3725 3729 TO 3754 3765 TO 3784 3786 TO 3824 -
6357. 3826 TO 3884 3891 TO 3907 3909 3913 TO 3920
6358. SELFWEIGHT Y -1 LIST 3922 TO 3971 3977 TO 3985 3987 TO 3999 4003 TO 4036 4038 -
6359. 4039 4042 TO 4060 4062 4068 TO 4070 4072 TO 4108 4110 TO 4145 4148 TO 4151 -
6360. 4153 TO 4155 4157 TO 4189 4192 TO 4217 4219 4220 4222 TO 4235 4237 TO 4276 -
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6364. 5387 TO 5396 5403 TO 5451 5454 5457 TO 5465 5472 TO 5475 5477 TO 5480 5483 -
6365. 5484 TO 5490 5492 TO 5502 5505 5506 5509 TO 5517 5520 TO 5523 5525 5526 5529 -
6366. 5530 TO 5556 5558 TO 5560 5566 TO 5571 5574 TO 5589 5592 5594 TO 5596 5600 -
6367. 5601 TO 5607 5609 TO 5613 5615 TO 5648 5650 TO 5652 5663 TO 5668 5671 TO 5674 -
6368. 5685 TO 5723 5727 TO 5753 5763 TO 5767 5769 TO 5774 5777 5778 5780 TO 5782 -
6369. 5784 5794 5799 TO 5859 5861 5862 5865 TO 5886 5889 TO 5905 5907 5911 5920 -
6370. 5921 TO 5925 5929 TO 5973 5976 5978 5985 TO 5992 6001 TO 6034 6036 6037 6040 -
6371. 6041 TO 6058 6060 6064 6071 TO 6096 6102 6418 TO 6447 6453 6455 TO 6457 6459 -
6372. 6460 TO 6463 6465 TO 6484 6508 TO 6511 6513 TO 6518 6522 6524 6526 6532 6533 -
6373. 6555 TO 6562 6564 TO 6593 6597 TO 6601 6604 TO 6639 6641 TO 6656 -
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6374. 6661 TO 6671 6673 TO 6712 6714 TO 6716 6727 TO 6734 6736 TO 6775 -
6375. 6779 TO 6805 6815 6816 6818 6819
6376. SELFWEIGHT Y -1 LIST 6821 TO 6831 6835 TO 6856 6860 TO 6862 6864 TO 6915 6920 -
6377. 6921 TO 6936 6938 6942 6944 TO 6949 6951 TO 6990 6995 TO 6997 6999 TO 7004 -
6378. 7008 TO 7041 7043 7044 7047 TO 7065 7067 7074 TO 7099 7103 TO 7106 7113 7114 -
6379. 7116 7118 7121 7128 TO 7135 7137 7139 TO 7144 7146 7147 7149 7150 -
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6381. 7563 7566 7569 7570 7572 7576 7577 7581 7582 7584 7585 7588 7590 7591 7620 -
6382. 7621 TO 7657 7660 TO 7728 7730 TO 7769 7771 TO 7773 7780 TO 7827 7831 TO 7857 -
6383. 7863 TO 7867 7869 TO 7904 7906 TO 7974 7976 7978 7981 TO 8034 8038 TO 8071 -
6384. 8073 TO 8094 8096 TO 8121 8124 TO 8130 8132 TO 8141 8143 8145 TO 8150 8152 -
6385. 8153 8155 8156 8164 8167 8191 8194 8195 8198 TO 8200 8202 8206 8207 8209 -
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6389. 9074 TO 9099 9102 TO 9105 9107 TO 9119 9121 9123 TO 9128 9130 9131 9133 9134 -
6390. 9138 9142 9145 TO 9151 9153 TO 9156 9162 TO 9164 9166 TO 9170 9172 9173 9176 -
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6392. 9538 TO 9574 9577 TO 9645 9647 TO 9686 9688 TO 9690 9697 TO 9744 9748 TO 9774 -
6393. 9780 TO 9784 9786 TO 9793 9795
6394. SELFWEIGHT Y -1 LIST 9796 TO 9891 9893 9895 9897 TO 9942 9944 TO 9950 9954 -
6395. 9955 TO 9972 9974 TO 9978 9980 9983 TO 9987 9989 TO 10010 10012 TO 10037 -
6396. 10040 TO 10056 10058 TO 10065 10067 10070 10075 TO 10079 10082 10084 10086 -
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6404. 10966 TO 10981 10984 TO 10987 10989 TO 10997 10999 11004 11005 11020 11022 -
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6413. 12187 TO 12204 12208 12211 12212 12214 TO 12218 12234 TO 12251 -
6414. 12256 TO 12268 12270 12272 12274 12275 12284 TO 12298 12301
6415. SELFWEIGHT Y -1 LIST 12311 TO 12313 12318 12320 12321 12328 TO 12332 12337 -
6416. 12338 TO 12341 12343 TO 12358 12360 12361 12367 TO 12373 12378 TO 12381 12383 -
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6425. 13570 TO 13572 13594 TO 13596 13598 TO 13601 13619 13625 13626 13628 TO 13633 -
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6427. 13757 13758 13771 TO 13773 13784 13786 13787 13800 13801 13814 TO 13816 -
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6429. 13892 TO 13894 13905 TO 13907 13918 TO 13973 13986 14025 14027 -
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6435. 14417 TO 14423 14425 TO 14429 14431 14433 14434
6436. SELFWEIGHT Y -1 LIST 14475 TO 14477 14486 14488 14496 TO 14498 14500 14501 -
6437. 14503 TO 14507 14534 14537 14550 14560 14561 14566 14576 14585 -
6438. 14591 TO 14734 14739 TO 14762 14767 TO 14790 14803 14812 14818 14824 14825 -
6439. 14830 TO 14851 14853 14856 14860 TO 14871 14891 TO 14895 14897 TO 14901 -
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6456. 16007 TO 16013 16015 TO 16061 16076 TO 16085 16088 TO 16097 16113 TO 16190 -
6457. 16192 TO 16206 16208 16213
6458. SELFWEIGHT Y -1 LIST 16214 TO 16216 16219 TO 16237 16239 TO 16245 -
6459. 16247 TO 16263 16293 16294 16296
6460. MEMBER LOAD
6461. *CARGA MUERTA PLANTA BAJA
6462. 82 84 86 88 90 92 95 116 118 119 121 125 TO 130 132 TO 136 160 189 489 500 -
6463. 501 TO 503 578 TO 583 661 TO 672 729 TO 748 851 TO 856 862 TO 866 868 910 -
6464. 911 TO 915 926 927 934 TO 939 946 TO 951 987 TO 989 992 993 995 998 -
6465. 1005 TO 1010 1017 TO 1022 1057 1065 1075 1077 1088 1089 1092 1093 1096 1192 -
6466. 1193 TO 1194 1198 TO 1200 1237 1239 1241 1242 1276 1285 TO 1287 1289 1302 -
6467. 1303 TO 1307 1309 1326 1327 1330 1331 1351 1374 1389 1390 13345 13527 13530 -
6468. 13531 TO 13533 13704 13731 13737 13986 14041 14068 14102 14103 14105 14108 -
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6471. 15260 TO 15264 15878 15901 15907 15908 15910 15926 TO 15928 UNI GY -1.07
6472. 15885 15915 16186 TO 16188 16198 TO 16200 16202 16222 16223 16232 TO 16237 -
6473. 16240 16242 16243 16247 16250 16251 16253 16295 16297 UNI GY -1.23
6474. 101 169 1064 1270 1273 1336 1337 15253 15254 15888 15890 15898 -
6475. 15925 UNI GY -0.642
6476. *CARGA MUERTA LABORATORIO
6477. 3490 3492 3494 TO 3496 3501 3531 TO 3542 3557 3558 3585 TO 3588 3687 TO 3698 -
6478. 3719 TO 3724 3731 TO 3736 3746 TO 3754 3772 TO 3781 3797 3798 3957 TO 3971 -
6479. 3983 TO 3985 4011 4012 4038 4039 4045 4047 4051 4052 4055 4056 4059 4060 -
6480. 9550 9552 TO 9555 9560 9583 TO 9594 9609 9610 9628 TO 9631 9706 TO 9717 9738 -
6481. 9739 TO 9743 9750 TO 9755 9765 TO 9773 9787 TO 9793 9927 TO 9941 9962 9963 -
6482. 9989 9990 9994 9996 10000 10001 10004 10005 10008 10009 10045 10051 10052 -
6483. 10054 10114 10115 10119 10120 10493 10495 10497 10498 10503 10526 10527 -
6484. 10529 TO 10533 10535 TO 10537 10552 10553 10571 TO 10574 10649 TO 10660 -
6485. 10681 TO 10686 10693 TO 10698 10708 TO 10716 10730 TO 10736 10871 TO 10885 -
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6486. 10906 10907 10933 10934 10938 10940 10944 10945 10948 10949 10952 10953 -
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6490. 12024 12025 13269 13276 13710 13723 13724 13726 13771 13853 13866 13879 -
6491. 15848 TO 15850 15853 15854 15861 UNI GY -0.93
6492. 3560 3589 3590 9611 9613 9632 9633 10496 10528 10534 10554 10556 10575 10576 -
6493. 10991 11497 11498 UNI GY -0.558
6494. *CARGA MUERTA LOBBY
6495. 83 85 87 89 91 93 193 TO 197 224 226 228 255 257 262 264 269 327 TO 332 485 -
6496. 486 TO 487 572 TO 577 769 TO 788 1051 1053 1055 1068 1069 1387 1388 -
6497. 1759 TO 1790 1811 TO 1828 1835 TO 1845 1869 TO 1872 1874 TO 1885 -
6498. 1912 TO 1915 1924 TO 1929 1931 TO 1945 1949 TO 1953 2077 2078 2083 TO 2085 -
6499. 13470 13706 13745 13750 15129 TO 15133 15139 TO 15143 15145 TO 15149 15154 -
6500. 15156 15169 15187 15188 15232 TO 15235 15237 15239 15300 TO 15303 15317 -
6501. 15318 15324 15425 TO 15428 15970 15975 TO 15978 15983 16082 16085 16096 -
6502. 16097 16113 UNI GY -0.93
6503. 102 252 274 296 326 1371 1372 1715 1756 1757 2213 15192 TO 15194 15236 15238 -
6504. 15248 15962 15964 15967 UNI GY -0.558
6505. 220 222 230 266 TO 268 270 287 293 484 488 1693 1829 1833 1834 1861 1867 1868 -
6506. 1900 1901 1903 TO 1905 1909 2074 2267 13454 13455 13459 TO 13462 -
6507. 14126 TO 14128 14550 15223 15225 15227 15397 15403 TO 15406 15408 15418 -
6508. 15419 16083 16084 16088 UNI GY -1.17
6509. *CARGA MUERTA PISO 2
6510. 377 380 382 385 387 389 391 TO 395 462 TO 473 2382 TO 2384 2411 TO 2414 2437 -
6511. 2439 2519 TO 2530 2563 TO 2569 2573 TO 2580 2597 TO 2601 2610 TO 2619 2623 -
6512. 2624 TO 2625 2636 TO 2641 2645 2646 2649 2650 2653 TO 2661 2663 TO 2667 2670 -
6513. 2671 TO 2674 2677 TO 2679 2853 2855 2857 2859 2861 2863 2865 2867 2869 2871 -
6514. 2873 2875 2897 2899 2901 2914 TO 2917 2923 2924 2931 2934 2937 2939 2968 -
6515. 2969 2971 2972 2995 2996 3002 3004 3008 3009 3012 3013 3016 3017 3019 3026 -
6516. 3028 3198 TO 3200 3204 13560 13708 13757 13758 14149 TO 14151 -
6517. 14560 UNI GY -1.282
6518. 378 390 397 399 2385 2387 2415 2416 2421 2442 2502 2517 2518 2804 2805 2817 -
6519. 2960 2961 3260 12674 15593 UNI GY -0.769
6520. 355 TO 360 474 TO 483 2393 TO 2399 2432 2434 2531 TO 2550 2642 2683 -
6521. 2719 TO 2723 2832 TO 2851 2905 TO 2908 2975 2981 TO 2984 2989 TO 2992 3030 -
6522. 3036 TO 3039 13346 13563 TO 13567 14042 15452 TO 15454 15537 -
6523. 15539 UNI GY -1.382
6524. 2392 2420 3023 15451 15541 15543 15583 15586 15587 UNI GY -0.829
6525. *CARGA MUERTA OFICINAS TIPO 1
6526. 3485 TO 3489 3543 TO 3552 3568 TO 3572 3603 TO 3605 3699 TO 3718 3771 3799 -
6527. 3831 TO 3835 3937 TO 3956 4024 TO 4027 4032 TO 4035 4078 TO 4082 5366 5367 -
6528. 13596 15567 15568 15684 15685 UNI GY -1.03
6529. 5364 15680 UNI GY -0.618
6530. *CARGA MUERTA AULAS
6531. 4111 TO 4116 4118 4119 4122 4127 4157 4158 4161 TO 4164 4167 TO 4178 4183 -
6532. 4184 TO 4185 4194 TO 4198 4211 4212 4229 TO 4231 4325 TO 4350 4357 TO 4362 -
6533. 4372 TO 4380 4397 TO 4407 4425 4457 TO 4461 4563 TO 4582 4595 TO 4599 4637 -
6534. 4638 4650 TO 4653 4658 TO 4661 4664 4665 4671 4673 4677 4678 4681 4682 4685 -
6535. 4686 4704 TO 4708 13495 13496 13718 13784 15615 15616 UNI GY -0.93
6536. 4186 4215 4216 UNI GY -0.558
6537. *CARGA MUERTA TERRAZA
6538. 4120 4121 4125 4159 4160 4165 4166 4213 4214 4235 4313 TO 4324 4363 TO 4371 -
6539. 4413 TO 4421 4423 4424 4583 TO 4594 4607 TO 4611 4709 TO 4711 9545 TO 9549 -
6540. 9595 TO 9604 9614 TO 9618 9639 TO 9641 9718 TO 9737 9786 9824 TO 9828 9907 -
6541. 9908 TO 9926 9975 TO 9978 9983 TO 9986 10017 TO 10021 10061 10062 10067 10094 -
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6542. 10100 10102 10103 11437 11439 11443 11468 11469 11474 11475 11484 11485 -
6543. 11553 TO 11558 11565 TO 11570 11603 TO 11607 11701 11702 11710 11712 11720 -
6544. 11721 11750 11759 12030 12031 16115 TO 16119 16125 TO 16129 UNI GY -0.93
6545. 4130 4132 4311 4312 4548 4725 10056 10079 11486 11488 11760 12676 -
6546. 14497 UNI GY -0.558
6547. *CARGA MUERTA OFICINAS TIPO 2
6548. 5483 TO 5486 5488 5490 5494 5499 5529 5530 5533 TO 5536 5539 TO 5544 5546 -
6549. 5547 TO 5549 5555 5556 5583 5584 5601 TO 5603 5697 TO 5722 5729 TO 5734 5744 -
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6556. 7057 7060 7061 7064 7065 7079 TO 7083 7113 7130 7131 7133 7140 7141 7146 -
6557. 7527 7528 7582 7588 7590 7591 7628 TO 7633 7635 TO 7638 7643 7666 TO 7687 -
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6565. 9045 TO 9048 9051 9052 9056 9058 9062 UNI GY -0.93
6566. 9063 9066 9067 9070 9071 9079 TO 9083 9107 9114 9115 9117 9124 9125 9130 9162 -
6567. 9163 9188 9194 9196 12056 TO 12058 12063 12086 TO 12089 12092 TO 12095 12109 -
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6570. 13719 TO 13722 13728 13800 13814 13827 13840 13892 14420 15465 15740 15741 -
6571. 15790 15791 UNI GY -0.93
6572. 5558 5560 5587 5588 5595 6511 6572 6606 6612 6632 6634 6654 6655 7135 7563 -
6573. 7694 7696 7715 7716 8141 8195 8614 8646 8652 8672 8674 8693 8694 9119 9173 -
6574. 12113 12114 UNI GY -0.558
6575. *CARGA MUERTA PASILLOS CON TORTA
6576. 3484 3493 3498 TO 3500 3502 3559 3567 3608 3609 3725 3729 3730 3737 TO 3745 -
6577. 3765 TO 3770 3782 TO 3784 3786 TO 3796 3977 TO 3979 3981 3982 3987 3988 4014 -
6578. 4015 4062 4068 4070 4072 4083 TO 4085 4087 4110 4124 4126 4128 4193 4199 -
6579. 4234 4351 4355 4356 4391 TO 4396 4408 TO 4410 4412 4422 4600 4601 -
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6593. 9561 9563 9581 9644 9645 9648 9744 9748 9749 9756 TO 9764 9774 9780 TO 9784 -
6594. 9795 9796 UNI GY -1.07
6595. 9942 9944 9965 9966 10010 10022 TO 10024 10026 10077 10093 10117 10123 10124 -
6596. 10468 10470 10494 10499 TO 10502 10504 10524 10587 10588 10687 TO 10692 -
6597. 10699 TO 10707 10717 TO 10719 10721 10722 10725 10738 10739 10886 TO 10888 -
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6610. 15789 UNI GY -1.07
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6615. 9131 9169 9177 9702 9954 9955 10059 10475 10506 10840 11004 11051 12675 -
6616. 15564 15598 15613 15627 UNI GY -0.642
6617. *CARGA MUERTA MARQUESINA
6618. 14831 14834 14836 14838 14841 14843 14846 14848 14850 14862 14865 14868 -
6619. 14871 UNI GY -0.15
6620. *CARGA MUERTA CUBIERTA
6621. 12677 TO 12684 12695 12697 TO 12704 12708 TO 12711 12719 12746 TO 12775 12779 -
6622. 12782 12783 12785 TO 12789 12827 TO 12842 12851 12852 12856 12857 -
6623. 12860 TO 12865 12867 12886 12887 12889 12890 12904 12905 12907 13730 13905 -
6624. 13907 UNI GY -1.07
6625. 12712 12713 UNI GY -0.642
6626. 16027 TO 16031 16054 TO 16061 16120 TO 16124 16130 TO 16134 16137 TO 16144 -
6627. 16161 TO 16168 UNI GY -1.07
6628. 16052 16053 16135 16136 16159 16160 UNI GY -0.642
6629. *CARGA MUERTA FACHADA Y MUROS
6630. 15132 15139 16079 16082 16097 16114 UNI GY -1.35
6631. 2377 2385 2387 2415 2416 2421 2435 2649 2714 TO 2717 2974 2976 TO 2980 2985 -
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6639. 9109 9119 9121 9123 9173 9176 9178 9184 9185 9605 9611 9613 9632 9633 9636 -
6640. 9638 9647 9649 9651 TO 9654 9789 9897 TO 9906 9956 TO 9959 10025 -
6641. 10027 TO 10032 10040 10043 10044 10046 10060 10075 10084 10090 10091 10107 -
6642. 10108 10110 TO 10112 10466 10467 10469 10472 10548 10554 10556 10575 10576 -
6643. 10579 10581 10590 10592 10594 10595 10597 10732 10841 TO 10845 -
6644. 10847 TO 10850 10900 TO 10902 10969 10971 TO 10976 10984 10987 10990 10991 -
6645. 11004 11020 11024 11049 11405 11407 TO 11413 11415 11418 TO 11420 11436 -
6646. 11497 11498 11501 11503 11506 11510 11511 11603 11659 11660 11696 TO 11698 -
6647. 11731 11733 TO 11738 11745 11752 11797 11799 TO 11805 12021 TO 12023 12113 -
6648. 12114 12117 12119 12122 12127 12274 12275 12311 TO 12313 12346 -
6649. 12348 TO 12353 12360 12367 12381 12383 TO 12389 12398 TO 12400 13179 13183 -
6650. 13220 13226 13264 13265 13268 13270 13815 13828 13841 13854 13867 13880 -
6651. 13893 15139 UNI GY -0.75
6652. 15541 15586 16076 16082 16097 UNI GY -0.75
6653. 14290 14297 14318 14322 14327 14356 14362 14363 14412 14417 14488 14496 14498 -
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6654. 14503 14505 14507 14832 14839 14844 14860 14863 14866 14869 15517 15518 -
6655. 15523 15532 15633 15638 15644 15713 15715 15720 15766 15773 UNI GY -0.75
6656. 9619 TO 9623 9797 TO 9818 10055 10056 10058 10065 10079 10082 10086 10464 -
6657. 10475 11437 11468 11474 11480 11482 11483 11486 TO 11488 11507 11509 11603 -
6658. 11637 TO 11639 11661 TO 11668 11687 TO 11692 11699 11700 11718 11719 11747 -
6659. 11748 TO 11749 11751 11760 11761 11766 11806 TO 11809 12017 12018 12052 12682 -
6660. 12686 12687 12689 TO 12691 12700 12704 TO 12707 12712 TO 12718 -
6661. 12720 TO 12734 12741 TO 12745 12789 12808 TO 12820 12822 12824 TO 12826 -
6662. 12846 TO 12849 12855 12858 12859 12866 12868 TO 12881 12884 12885 12891 -
6663. 12893 TO 12899 12901 TO 12903 12906 12908 13389 13688 13729 13730 13905 -
6664. 13906 14486 14497 UNI GY -0.32
6665. 2392 2400 TO 2406 2420 2688 TO 2713 3023 3566 3574 TO 3580 3800 TO 3824 5580 -
6666. 5581 TO 5582 5594 5893 TO 5905 6034 6055 6056 6092 TO 6096 6455 6481 6482 -
6667. 6647 TO 6649 6661 6924 TO 6936 7041 7062 7063 7095 TO 7099 7104 7128 7129 -
6668. 7708 TO 7710 7718 7962 TO 7974 8071 8090 8091 8117 TO 8121 8125 8134 8135 -
6669. 8686 TO 8688 8696 8940 TO 8952 9049 9068 9069 9095 TO 9099 9103 9112 9113 -
6670. 13711 TO 13714 15451 15564 15676 15683 UNI GY -0.34
6671. 2408 TO 2410 2422 2430 2783 TO 2794 2797 2808 TO 2810 2993 3014 3015 3228 -
6672. 3230 3232 3234 3236 3582 TO 3584 3596 3601 3895 TO 3907 3918 TO 3920 4036 -
6673. 4057 4058 4094 TO 4098 4210 4222 4533 4662 4683 4684 4720 TO 4724 13707 -
6674. 13709 13717 UNI GY -0.3
6675. 2379 TO 2381 2428 2806 2807 2940 TO 2950 2966 2967 3010 3011 3554 TO 3556 -
6676. 3600 3916 3917 3989 TO 3999 4009 4010 4053 4054 4180 TO 4182 4615 TO 4621 -
6677. 4635 4636 4679 4680 UNI GY -0.41
6678. 4202 TO 4206 4220 4428 TO 4451 4692 5574 TO 5578 5799 TO 5821 6510 6524 9625 -
6679. 9626 TO 9627 9635 9879 TO 9891 9987 10006 10007 10033 TO 10037 10041 10049 -
6680. 10050 10568 TO 10570 10578 10822 TO 10834 10931 10950 10951 10977 TO 10981 -
6681. 10985 10994 10995 11490 TO 11492 11500 11640 TO 11652 11703 11722 11723 -
6682. 11739 TO 11743 11746 11755 11756 12106 TO 12108 12116 12256 TO 12268 12318 -
6683. 12337 12338 12354 TO 12358 12361 12370 12371 13715 13716 13725 -
6684. 13727 UNI GY -0.39
6685. 5552 TO 5554 5987 TO 5992 6007 6008 6051 6052 6456 6627 TO 6629 6999 TO 7004 -
6686. 7014 7015 7058 7059 7105 7689 TO 7691 8029 TO 8034 8044 8045 8086 8087 -
6687. 8126 UNI GY -0.48
6688. 6641 TO 6645 6835 TO 6856 7134 7144 7572 7702 TO 7706 7880 TO 7901 8140 8150 -
6689. 8202 8680 TO 8684 8858 TO 8879 9118 9128 9180 UNI GY -0.43
6690. 8667 TO 8669 9007 TO 9012 9022 9023 9064 9065 9104 9606 TO 9608 9945 TO 9950 -
6691. 9960 9961 10002 10003 10042 10549 TO 10551 10889 TO 10894 10904 10905 10946 -
6692. 10947 10986 UNI GY -0.5
6693. *CARGA MUERTA ESCALERAS Y PUENTES
6694. MEMBER LOAD
6695. 927 CON GY -5.82 4.15
6696. 1956 CON GY -7.18 0.45
6697. 1955 CON GY -7.18 0.9
6698. 2010 CON GY -9.42 1.21
6699. 557 CON GY -9.42 0.82
6700. JOINT LOAD
6701. 5907 6135 6137 FY -1.67
6702. MEMBER LOAD
6703. 14929 CON GY -1.67 1.4
6704. JOINT LOAD
6705. 1925 1926 1935 2305 2715 2885 3277 3447 3810 4017 4544 4557 4898 5051 5117 -
6706. 5316 6193 6209 6211 6219 6227 6233 6235 6290 6292 6294 6298 6302 6422 6530 -
6707. 6531 TO 6532 FY -5.467
6708. MEMBER LOAD
6709. 15583 CON GY -5.467 2.4
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6710. 1845 CON GY -5.467 3.8
6711. 1845 CON GY -5.467 6.2
6712. 9648 CON GY -5.467 2.05
6713. 11438 11443 11444 11504 11559 TO 11564 11608 11609 11684 11685 11727 12034 -
6714. 12035 UNI GY -1.17
6715. JOINT LOAD
6716. 4725 6306 FY -10.934
6717. MEMBER LOAD
6718. 15881 UNI GY -1.718
6719. 15916 UNI GY -3.627
6720. 15914 UNI GY -4.503
6721. LOAD 2 LOADTYPE LIVE  TITLE LL
6722. MEMBER LOAD
6723. *CARGA VIVA LABORATORIO
6724. 82 84 TO 93 95 116 118 119 121 125 TO 130 132 TO 136 141 160 189 377 380 382 -
6725. 385 387 389 391 TO 395 462 TO 473 489 500 TO 503 578 TO 583 661 TO 672 729 -
6726. 730 TO 748 851 TO 856 862 TO 866 868 910 TO 915 926 927 934 TO 939 -
6727. 946 TO 951 987 TO 989 992 993 995 998 1005 TO 1010 1017 TO 1022 1057 1065 -
6728. 1075 1077 1088 1089 1092 1093 1096 1192 TO 1194 1198 TO 1200 1237 1239 1241 -
6729. 1242 1276 1285 TO 1287 1289 1302 TO 1307 1309 1326 1327 1330 1331 1351 1374 -
6730. 1389 1390 2382 TO 2384 2411 TO 2414 2437 2439 2519 TO 2530 2563 TO 2569 2573 -
6731. 2574 TO 2580 2597 TO 2601 2610 TO 2619 2623 TO 2625 2636 TO 2641 2645 2646 -
6732. 2649 2650 2653 TO 2661 2663 TO 2667 2670 TO 2674 2677 TO 2679 2853 2855 2857 -
6733. 2859 2861 2863 2865 2867 2869 2871 2873 2875 2897 2899 2901 2914 TO 2917 -
6734. 2923 2924 2931 2933 2934 2937 2939 2968 2969 2971 2972 2995 2996 3002 3004 -
6735. 3008 3009 3012 3013 3016 3017 3019 3026 3028 3198 TO 3200 3204 3490 3492 -
6736. 3493 TO 3496 3501 3531 TO 3542 3557 TO 3559 3585 TO 3588 3687 TO 3698 3719 -
6737. 3720 TO 3724 3731 TO 3736 3746 TO 3754 3772 TO 3781 3797 3798 3957 TO 3971 -
6738. 3983 TO 3985 4011 4012 4038 4039 4045 4047 4051 4052 4055 4056 4059 4060 -
6739. 9550 9552 TO 9555 9560 9583 TO 9594 9609 9610 9628 TO 9631 9706 TO 9717 9738 -
6740. 9739 TO 9743 9750 TO 9755 9765 TO 9773 9787 TO 9793 9927 9940 UNI GY -0.8
6741. 9941 15878 UNI GY -0.8
6742. 15901 15907 15908 15910 15926 TO 15928 UNI GY -0.8
6743. 9928 TO 9940 9962 9963 9989 9990 9994 9996 10000 10001 10004 10005 10008 -
6744. 10009 10045 10051 10052 10054 10114 10115 10119 10120 10493 TO 10495 10497 -
6745. 10498 TO 10504 10524 10526 10527 10529 TO 10533 10535 TO 10537 10552 10553 -
6746. 10571 TO 10574 10587 10588 10649 TO 10660 10681 TO 10719 10721 10722 10725 -
6747. 10730 TO 10736 10738 10739 10871 TO 10888 10906 10907 10933 10934 10938 -
6748. 10940 10944 10945 10948 10949 10952 TO 10955 10966 TO 10968 10970 10989 -
6749. 10996 10997 10999 11035 TO 11038 11044 TO 11046 11048 11050 11052 11069 -
6750. 11440 TO 11442 11447 11470 TO 11473 11476 TO 11479 11493 TO 11496 -
6751. 11541 TO 11552 11580 TO 11588 11601 11602 11669 TO 11683 11705 11706 11716 -
6752. 11717 11724 11725 11757 11758 12024 12025 13269 13271 13276 13345 13527 -
6753. 13530 TO 13533 13560 13704 13708 13710 13723 13724 13726 13731 13737 13757 -
6754. 13758 13771 13853 13866 13868 13879 13986 14041 14068 14102 14103 14105 -
6755. 14108 14110 14111 14113 14149 TO 14151 14534 14537 14560 14891 TO 14895 -
6756. 14897 TO 14901 14925 14927 14929 14931 14933 14935 14942 TO 14947 14969 -
6757. 14971 14973 15014 15016 15039 15041 15260 15848 TO 15850 15853 15854 15861 -
6758. 15911 UNI GY -0.8
6759. 101 169 378 390 397 399 1064 1270 1273 1336 1337 2385 2387 2415 2416 2421 -
6760. 2442 2502 2517 2518 2804 2805 2817 2960 2961 2975 3260 3560 3589 3590 9611 -
6761. 9613 9632 9633 9969 10496 10506 10528 10534 10554 10556 10575 10576 10840 -
6762. 11004 11051 11497 11498 12674 15253 15254 15593 15888 15890 15898 -
6763. 15925 UNI GY -0.48
6764. *CARGA VIVA LOBBY
6765. 83 193 TO 197 220 222 224 226 228 230 255 257 262 264 266 TO 270 272 287 293 -
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6766. 327 TO 332 484 TO 488 572 TO 577 769 TO 788 1051 1053 1055 1068 1069 1387 -
6767. 1388 1693 1759 TO 1790 1811 TO 1829 1833 TO 1845 1861 1867 TO 1872 -
6768. 1874 TO 1885 1900 1901 1903 TO 1905 1909 1912 TO 1915 1924 TO 1929 -
6769. 1931 TO 1945 1949 TO 1953 2074 2077 2078 2083 TO 2085 2267 13454 13455 13459 -
6770. 13460 TO 13462 13470 13706 13745 13750 14126 TO 14128 14550 15129 TO 15133 -
6771. 15139 TO 15143 15145 TO 15149 15154 15156 15169 15187 15188 15223 15225 -
6772. 15227 15232 TO 15235 15237 15239 15300 TO 15303 15306 15317 15318 15323 -
6773. 15324 15397 15403 TO 15406 15408 15418 15419 15425 TO 15428 15970 -
6774. 15975 TO 15978 15983 16082 TO 16085 16088 16096 16097 16113 UNI GY -1.
6775. 102 252 274 296 326 1371 1372 1715 1756 1757 2213 15192 TO 15194 15236 15238 -
6776. 15248 15962 15964 15967 UNI GY -0.6
6777. 15885 15915 16186 TO 16188 16198 TO 16200 16202 16222 16223 16232 TO 16237 -
6778. 16240 16242 16243 16247 16250 16251 16253 16295 16297 UNI GY -1.
6779. *CARGA VIVA OFICINAS
6780. 355 TO 360 474 TO 483 2393 TO 2399 2432 2434 2475 2531 TO 2550 2642 2683 2719 -
6781. 2720 TO 2723 2832 TO 2851 2905 TO 2908 2981 TO 2984 2989 TO 2992 3030 3036 -
6782. 3037 TO 3039 3485 TO 3489 3543 TO 3552 3568 TO 3572 3603 TO 3605 3699 TO 3718 -
6783. 3771 3799 3831 TO 3835 3937 TO 3956 4024 TO 4027 4032 TO 4035 4078 TO 4082 -
6784. 5366 5367 5483 TO 5490 5492 TO 5500 5502 5529 TO 5550 5555 5556 5566 TO 5571 -
6785. 5583 TO 5586 5601 TO 5603 5606 5607 5610 5685 TO 5723 5727 TO 5753 -
6786. 5763 TO 5767 5769 TO 5774 5777 5778 5780 TO 5782 5784 5794 5829 TO 5833 5920 -
6787. 5935 TO 5973 5976 5978 5985 5986 6009 6010 6012 6013 6022 TO 6025 -
6788. 6030 TO 6033 6036 6037 6043 6045 6049 6050 6053 6054 6057 6058 6060 6076 -
6789. 6077 TO 6083 6085 6460 6461 6466 6476 6478 6480 6483 6484 6509 6516 6517 6526 -
6790. 6564 TO 6571 6573 TO 6580 6600 6604 6605 6607 TO 6611 6613 TO 6625 6630 6631 -
6791. 6635 TO 6639 6650 TO 6653 6665 TO 6667 6670 6671 6674 6737 TO 6775 -
6792. 6779 TO 6805 6815 6816 6818 6819 6821 TO 6831 6865 TO 6869 6956 TO 6990 6995 -
6793. 6996 TO 6997 7016 7017 7019 7020 7029 TO 7032 7037 TO 7040 7043 7044 7050 -
6794. 7052 7056 7057 7060 7061 7064 7065 7067 7079 TO 7086 7088 7113 7130 7131 -
6795. 7133 7140 7141 7146 7518 TO 7520 7527 7528 7533 7535 7581 7582 7588 7590 -
6796. 7591 7628 TO 7644 7646 7664 7666 TO 7687 7692 7693 7697 TO 7701 7711 TO 7714 -
6797. 7722 TO 7724 7727 7728 7731 7789 UNI GY -0.4
6798. 7790 TO 7827 7831 TO 7857 7863 TO 7867 7869 TO 7879 7907 TO 7911 7991 TO 8028 -
6799. 8046 8047 8049 8050 8059 TO 8062 8067 TO 8070 8073 8074 8078 8080 8084 8085 -
6800. 8088 8089 8092 TO 8094 8101 TO 8108 8110 8129 8136 8137 8139 8146 8147 8152 -
6801. 8191 8209 8210 8216 8218 8219 8567 8568 8570 8577 8584 8587 8588 -
6802. 8606 TO 8613 8615 TO 8622 8642 8644 8645 8647 TO 8651 8653 TO 8665 8670 8671 -
6803. 8675 TO 8679 8689 TO 8692 8700 TO 8702 8705 8706 8709 8767 TO 8805 -
6804. 8809 TO 8835 8841 TO 8845 8847 TO 8857 8885 TO 8889 8969 TO 9006 9024 9025 -
6805. 9027 9028 9037 TO 9040 9045 TO 9048 9051 9052 9056 9058 9062 9063 9066 9067 -
6806. 9070 TO 9072 9079 TO 9086 9088 9107 9114 9115 9117 9124 9125 9130 -
6807. 9153 TO 9156 9162 TO 9164 9166 9168 9170 9187 9188 9194 9196 12056 TO 12058 -
6808. 12061 TO 12064 12066 12082 12086 TO 12089 12092 TO 12095 12109 TO 12112 -
6809. 12121 12157 TO 12168 12187 TO 12204 12208 12211 12212 12214 TO 12218 12284 -
6810. 12285 TO 12298 12301 12320 12321 12331 12332 12339 TO 12341 12343 TO 12345 -
6811. 12347 12372 12373 12379 12380 12401 12402 12404 13187 13189 13190 13192 -
6812. 13194 13200 13224 13227 13237 13346 13348 13563 TO 13567 13596 13626 13629 -
6813. 13630 TO 13633 13719 TO 13722 13728 13800 13801 13814 13816 13827 13829 13840 -
6814. 13842 13892 13894 14042 14044 14258 TO 14260 14303 TO 14305 14328 14329 -
6815. 14331 14364 14366 14392 TO 14394 14406 TO 14408 14420 14422 14423 14429 -
6816. 14576 14585 14812 14818 14824 15452 TO 15454 15465 15519 15521 15522 15537 -
6817. 15539 15567 15568 15635 UNI GY -0.4
6818. 15636 15637 15645 15684 15685 15716 TO 15719 15734 15737 TO 15742 -
6819. 15786 TO 15791 UNI GY -0.4
6820. 2392 2420 3023 5364 5558 5560 5587 5588 5592 5595 5668 6001 6002 6016 6064 -
6821. 6511 6514 6572 6582 6606 6612 6632 6634 6654 6655 6732 6944 7008 7009 7023 -
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6822. 7135 7147 7534 7563 7569 7694 7696 7715 7716 7785 8038 8039 8053 8141 8153 -
6823. 8195 8199 8614 8624 8646 8652 8672 8674 8693 8694 8763 8958 9016 9017 9031 -
6824. 9119 9131 9169 9173 12113 12114 14327 15451 15586 15680 UNI GY -0.24
6825. *CARGA VIVA AULAS
6826. 4111 TO 4116 4118 4119 4122 4127 4157 4158 4161 TO 4164 4167 TO 4178 4183 -
6827. 4184 TO 4185 4194 TO 4198 4211 4212 4229 TO 4231 4325 TO 4350 4357 TO 4362 -
6828. 4372 TO 4380 4397 TO 4407 4425 4457 TO 4461 4563 TO 4582 4595 TO 4599 4637 -
6829. 4638 4650 TO 4653 4658 TO 4661 4664 4665 4671 4673 4677 4678 4681 4682 4685 -
6830. 4686 4704 TO 4708 13495 13496 13718 13784 15615 15616 UNI GY -0.4
6831. 4186 4215 4216 UNI GY -0.24
6832. *CARGA VIVA TERRAZA
6833. 4120 4121 4125 4159 4160 4165 4166 4213 4214 4235 4313 TO 4324 4363 TO 4371 -
6834. 4413 TO 4421 4423 4424 4583 TO 4594 4607 TO 4611 4709 TO 4711 9545 TO 9549 -
6835. 9595 TO 9604 9614 TO 9618 9639 TO 9641 9718 TO 9737 9786 9824 TO 9828 9907 -
6836. 9908 TO 9926 9975 TO 9978 9983 TO 9986 10017 TO 10021 10061 10062 10067 10094 -
6837. 10100 10102 10103 11437 TO 11439 11443 11444 11468 11469 11474 11475 11484 -
6838. 11485 11504 11553 TO 11570 11603 TO 11609 11684 11685 11701 11702 11710 -
6839. 11712 11720 11721 11727 11750 11759 12030 12031 12034 12035 16115 TO 16119 -
6840. 16125 TO 16129 UNI GY -1.
6841. 4130 4132 4311 4312 4548 4725 10056 10079 11486 11488 11760 12676 -
6842. 14497 UNI GY -0.6
6843. *CARGA VIVA CUBIERTA
6844. 12677 TO 12684 12695 12697 TO 12704 12708 TO 12711 12719 12746 TO 12775 12779 -
6845. 12782 12783 12785 TO 12789 12827 TO 12842 12851 12852 12856 12857 -
6846. 12860 TO 12865 12867 12886 12887 12889 12890 12904 12905 12907 13730 13905 -
6847. 13907 UNI GY -1.
6848. 12712 12713 UNI GY -0.5
6849. 16027 TO 16031 16054 TO 16061 16120 TO 16124 16130 TO 16134 16137 TO 16144 -
6850. 16161 TO 16168 UNI GY -0.2
6851. 16052 16053 16135 16136 16159 16160 UNI GY -0.12
6852. *CARGA VIVA PASILLOS CON TORTA
6853. 3484 3493 3498 TO 3500 3502 3559 3567 3608 3609 3725 3729 3730 3737 TO 3745 -
6854. 3765 TO 3770 3782 TO 3784 3786 TO 3796 3977 TO 3979 3981 3982 3987 3988 4014 -
6855. 4015 4062 4068 4070 4072 4083 TO 4085 4087 4110 4124 4126 4128 4193 4199 -
6856. 4234 4351 4355 4356 4391 TO 4396 4408 TO 4410 4412 4422 4600 4601 -
6857. 4603 TO 4606 4613 4640 4641 4688 4694 4696 4698 4713 9551 9556 TO 9559 9561 -
6858. 9563 9581 9644 9645 9648 9744 9748 9749 9756 TO 9764 9774 9780 TO 9784 9795 -
6859. 9796 9942 9944 9965 9966 10010 10022 TO 10024 10026 10077 10093 10117 10123 -
6860. 10124 10468 10470 11445 11446 11448 11450 11466 11505 11571 TO 11579 11589 -
6861. 11590 TO 11594 11686 11726 11728 TO 11730 11732 11793 11796 13347 13494 13497 -
6862. 13498 13505 13595 13598 13773 13786 13787 13855 13881 14043 14213 -
6863. 14215 TO 14217 14236 TO 14238 14475 TO 14477 14506 14561 14566 14825 15566 -
6864. 15614 15693 15696 15697 UNI GY -0.6
6865. 3491 3497 3504 3506 3562 3566 3597 3612 3670 3685 3686 3914 3915 3922 4003 -
6866. 4004 4018 4099 4117 4123 4188 4192 4220 4223 4238 4296 4540 4541 4629 4630 -
6867. 4644 4692 9702 9954 9955 10059 10475 12675 15564 15598 15613 15627 -
6868. 15676 UNI GY -0.36
6869. *CARGA VIVA MARQUESINA
6870. 14831 14834 14836 14838 14841 14843 14846 14848 14850 14862 14865 14868 -
6871. 14871 UNI GY -0.15
6872. *CARGA VIVA ESCALERAS Y PUENTES
6873. MEMBER LOAD
6874. 927 CON GY -4.62 4.15
6875. 1957 CON GY -3.73 0.45
6876. 1956 CON GY -3.73 0.9
6877. 2010 CON GY -5.49 1.21
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6878. 557 CON GY -5.49 0.82
6879. JOINT LOAD
6880. 5907 6135 6137 FY -1.19
6881. MEMBER LOAD
6882. 14929 CON GY -1.19 1.4
6883. JOINT LOAD
6884. 1925 1926 1935 2305 2715 2885 3277 3447 3810 4017 4544 4557 4898 5051 5117 -
6885. 5316 6193 6209 6211 6219 6227 6233 6235 6290 6292 6294 6298 6302 6422 6530 -
6886. 6531 TO 6532 FY -3.588
6887. MEMBER LOAD
6888. 15541 15543 15583 15587 UNI GY -0.638
6889. 15583 CON GY -3.588 2.4
6890. 1845 CON GY -3.588 3.8
6891. 1845 CON GY -3.588 6.2
6892. 9648 CON GY -3.588 2.05
6893. JOINT LOAD
6894. 4725 6306 FY -7.176
6895. MEMBER LOAD
6896. 15881 UNI GY -0.77
6897. 15916 UNI GY -1.625
6898. 15914 UNI GY -2.02
6899. LOAD 3 LOADTYPE SEISMIC  TITLE EQX
6900. SPECTRUM CQC X 1.27 ACC SCALE 9.81 DAMP 0.05 LIN
6901. 0 0.563; 1.87 0.563; 1.977 0.531; 2.083 0.504; 2.19 0.48; 2.296 0.457
6902. 2.403 0.437; 2.509 0.418; 2.616 0.401; 2.722 0.386; 2.829 0.371; 2.935 0.358
6903. 3.042 0.345; 3.148 0.334; 3.255 0.323; 3.361 0.312; 3.468 0.303; 3.574 0.294
6904. 3.681 0.285; 3.787 0.277; 3.894 0.27; 4 0.263; 4.2 0.238; 4.4 0.217
6905. 4.6 0.198; 4.8 0.182; 5 0.168; 5.2 0.155
6906. SELFWEIGHT X 1 LIST 208 TO 210 213 TO 217 220 222 224 226 228 230 241 TO 248 -
6907. 252 255 257 262 264 266 TO 274 276 TO 285 287 TO 298 302 TO 305 311 312 315 -
6908. 326 TO 332 344 TO 350 352 355 TO 360 377 378 380 382 385 387 389 TO 399 401 -
6909. 402 TO 410 421 TO 423 426 428 TO 430 436 448 450 462 TO 488 492 493 -
6910. 495 TO 498 506 TO 510 513 TO 519 522 TO 527 530 TO 535 552 557 559 561 564 -
6911. 565 TO 569 572 TO 577 587 TO 592 594 600 TO 607 623 TO 630 1371 1372 1387 -
6912. 1388 1395 TO 1397 1399 TO 1403 1618 TO 1662 1664 TO 1693 1700 TO 1705 1710 -
6913. 1711 TO 1717 1719 1721 1728 TO 1733 1735 TO 1750 1754 TO 1790 1811 TO 1829 -
6914. 1833 TO 1845 1861 1867 TO 1872 1874 TO 1885 1900 1901 1903 TO 1905 1909 1912 -
6915. 1913 TO 1915 1924 TO 1929 1931 TO 1945 1949 TO 1973 1976 TO 2004 2006 2008 -
6916. 2009 TO 2010 2074 2077 2078 2083 TO 2085 2212 2213 2267 2377 2379 TO 2387 -
6917. 2389 2392 TO 2417 2419 TO 2422 2424 2425 2428 2430 TO 2432 2434 2435 2437 -
6918. 2439 2441 TO 2445 2447 TO 2449 2451 TO 2482 2484 TO 2486 2497 TO 2550 2563 -
6919. 2564 TO 2569 2573 TO 2580 2597 TO 2601 2610 TO 2619 2623 TO 2625 2636 TO 2642 -
6920. 2645 2646 2649 2650 2653 TO 2661 2663 TO 2667 2670 TO 2674 2677 TO 2679 2683 -
6921. 2688 TO 2717 2719 TO 2794 2797 2799 2803 TO 2810 2817 TO 2851 2853 2855 2857 -
6922. 2859 2861 2863 2865 2867
6923. SELFWEIGHT X 1 LIST 2869 2871 2873 2875 2897 2899 2901 2905 TO 2908 -
6924. 2914 TO 2917 2923 2924 2931 2933 2934 2937 2939 TO 2950 2960 TO 2993 2995 -
6925. 2996 2999 TO 3017 3019 3023 3026 TO 3039 3047 TO 3060 3065 TO 3080 -
6926. 3198 TO 3201 3203 3204 3210 3212 3214 3216 3228 3230 3232 3234 3236 3260 -
6927. 3262 3474 TO 3482 3484 TO 3519 3522 TO 3525 3527 3531 TO 3563 3566 TO 3572 -
6928. 3574 TO 3591 3596 TO 3606 3608 3609 3611 TO 3650 3652 TO 3654 3665 TO 3725 -
6929. 3729 TO 3754 3765 TO 3784 3786 TO 3824 3826 TO 3884 3891 TO 3907 3909 3913 -
6930. 3914 TO 3920 3922 TO 3971 3977 TO 3985 3987 TO 3999 4003 TO 4036 4038 4039 -
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6932. 4154 TO 4155 4157 TO 4189 4192 TO 4217 4219 4220 4222 TO 4235 4237 TO 4276 -
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6941. SELFWEIGHT X 1 LIST 5769 TO 5774 5777 5778 5780 TO 5782 5784 5794 -
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6999. 13750 13757 13758 13771 TO 13773 13784 13786
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7001. 13841 TO 13842 13853 TO 13855 13866 TO 13868 13879 TO 13881 13892 TO 13894 -
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7026. SELFWEIGHT Z 1 LIST 208 TO 210 213 TO 217 220 222 224 226 228 230 241 TO 248 -
7027. 252 255 257 262 264 266 TO 274 276 TO 285 287 TO 298 302 TO 305 311 312 315 -
7028. 326 TO 332 344 TO 350 352 355 TO 360 377 378 380 382 385 387 389 TO 399 401 -
7029. 402 TO 410 421 TO 423 426 428 TO 430 436 448 450 462 TO 488 492 493 -
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7042. 2859 2861 2863 2865 2867
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7145. 16076 TO 16085 16088 TO 16097 16113 TO 16182
7146. MEMBER LOAD
7147. *CARGA MUERTA LABORATORIO
7148. 3490 3492 3494 TO 3496 3501 3531 TO 3542 3557 3558 3585 TO 3588 3687 TO 3698 -
7149. 3719 TO 3724 3731 TO 3736 3746 TO 3754 3772 TO 3781 3797 3798 3957 TO 3971 -
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7154. 10054 10114 10115 10119 10120 10493 10495 10497 10498 10503 10526 10527 -
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7157. 10906 10907 10933 10934 10938 10940 10944 10945 10948 10949 10952 10953 -
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7163. 3490 3492 3494 TO 3496 3501 3531 TO 3542 3557 3558 3585 TO 3588 3687 TO 3698 -
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7177. 15848 TO 15850 15853 15854 15861 UNI GZ 0.93
7178. 3560 3589 3590 9611 9613 9632 9633 10496 10528 10534 10554 10556 10575 10576 -
7179. 10991 11497 11498 UNI GX 0.558
7180. 3560 3589 3590 9611 9613 9632 9633 10496 10528 10534 10554 10556 10575 10576 -
7181. 10991 11497 11498 UNI GZ 0.558
7182. *CARGA MUERTA LOBBY
7183. 224 226 228 255 257 262 264 269 327 TO 332 485 TO 487 572 TO 577 1387 1388 -
7184. 1759 TO 1790 1811 TO 1828 1835 TO 1845 1869 TO 1872 1874 TO 1885 -
7185. 1912 TO 1915 1924 TO 1929 1931 TO 1945 1949 TO 1953 2077 2078 2083 TO 2085 -
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7194. 15156 15169 15187 15188 15232 TO 15235 15237 15239 15300 TO 15303 15317 -
7195. 15318 15324 15425 TO 15428 15970 15975 TO 15978 15983 16082 16085 16096 -
7196. 16097 16113 UNI GZ 0.93
7197. 252 274 296 326 1371 1372 1715 1756 1757 2213 15192 TO 15194 15236 15238 -
7198. 15248 15962 15964 15967 UNI GX 0.558
7199. 252 274 296 326 1371 1372 1715 1756 1757 2213 15192 TO 15194 15236 15238 -
7200. 15248 15962 15964 15967 UNI GZ 0.558
7201. 220 222 230 266 TO 268 270 287 293 484 488 1693 1829 1833 1834 1861 1867 1868 -
7202. 1900 1901 1903 TO 1905 1909 2074 2267 13454 13455 13459 TO 13462 -
7203. 14126 TO 14128 14550 15223 15225 15227 15397 15403 TO 15406 15408 15418 -
7204. 15419 16083 16084 16088 UNI GX 1.17
7205. 220 222 230 266 TO 268 270 287 293 484 488 1693 1829 1833 1834 1861 1867 1868 -
7206. 1900 1901 1903 TO 1905 1909 2074 2267 13454 13455 13459 TO 13462 -
7207. 14126 TO 14128 14550 15223 15225 15227 15397 15403 TO 15406 15408 15418 -
7208. 15419 16083 16084 16088 UNI GZ 1.17
7209. *CARGA MUERTA PISO 2
7210. 377 380 382 385 387 389 391 TO 395 462 TO 473 2382 TO 2384 2411 TO 2414 2437 -
7211. 2439 2519 TO 2530 2563 TO 2569 2573 TO 2580 2597 TO 2601 2610 TO 2619 2623 -
7212. 2624 TO 2625 2636 TO 2641 2645 2646 2649 2650 2653 TO 2661 2663 TO 2667 2670 -
7213. 2671 TO 2674 2677 TO 2679 2853 2855 2857 2859 2861 2863 2865 2867 2869 2871 -
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7216. 3028 3198 TO 3200 3204 13560 13708 13757 13758 14149 TO 14151 -
7217. 14560 UNI GX 1.282
7218. 377 380 382 385 387 389 391 TO 395 462 TO 473 2382 TO 2384 2411 TO 2414 2437 -
7219. 2439 2519 TO 2530 2563 TO 2569 2573 TO 2580 2597 TO 2601 2610 TO 2619 2623 -
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7224. 3028 3198 TO 3200 3204 13560 13708 13757 13758 14149 TO 14151 -
7225. 14560 UNI GZ 1.282
7226. 378 390 397 399 2385 2387 2415 2416 2421 2442 2502 2517 2518 2804 2805 2817 -
7227. 2960 2961 3260 12674 15593 UNI GX 0.769
7228. 378 390 397 399 2385 2387 2415 2416 2421 2442 2502 2517 2518 2804 2805 2817 -
7229. 2960 2961 3260 12674 15593 UNI GZ 0.769
7230. 355 TO 360 474 TO 483 2393 TO 2399 2432 2434 2531 TO 2550 2642 2683 -
7231. 2719 TO 2723 2832 TO 2851 2905 TO 2908 2975 2981 TO 2984 2989 TO 2992 3030 -
7232. 3036 TO 3039 13346 13563 TO 13567 14042 15452 TO 15454 15537 -
7233. 15539 UNI GX 1.382
7234. 355 TO 360 474 TO 483 2393 TO 2399 2432 2434 2531 TO 2550 2642 2683 -
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7237. 15539 UNI GZ 1.382
7238. 2392 2420 3023 15451 15541 15543 15583 15586 15587 UNI GX 0.829
7239. 2392 2420 3023 15451 15541 15543 15583 15586 15587 UNI GZ 0.829
7240. *CARGA MUERTA OFICINAS TIPO 1
7241. 3485 TO 3489 3543 TO 3552 3568 TO 3572 3603 TO 3605 3699 TO 3718 3771 3799 -
7242. 3831 TO 3835 3937 TO 3956 4024 TO 4027 4032 TO 4035 4078 TO 4082 5366 5367 -
7243. 13596 15567 15568 15684 15685 UNI GX 1.03
7244. 3485 TO 3489 3543 TO 3552 3568 TO 3572 3603 TO 3605 3699 TO 3718 3771 3799 -
7245. 3831 TO 3835 3937 TO 3956 4024 TO 4027 4032 TO 4035 4078 TO 4082 5366 5367 -
7246. 13596 15567 15568 15684 15685 UNI GZ 1.03
7247. 5364 15680 UNI GX 0.618
7248. 5364 15680 UNI GZ 0.618
7249. *CARGA MUERTA AULAS
7250. 4111 TO 4116 4118 4119 4122 4127 4157 4158 4161 TO 4164 4167 TO 4178 4183 -
7251. 4184 TO 4185 4194 TO 4198 4211 4212 4229 TO 4231 4325 TO 4350 4357 TO 4362 -
7252. 4372 TO 4380 4397 TO 4407 4425 4457 TO 4461 4563 TO 4582 4595 TO 4599 4637 -
7253. 4638 4650 TO 4653 4658 TO 4661 4664 4665 4671 4673 4677 4678 4681 4682 4685 -
7254. 4686 4704 TO 4708 13495 13496 13718 13784 15615 15616 UNI GX 0.93
7255. 4111 TO 4116 4118 4119 4122 4127 4157 4158 4161 TO 4164 4167 TO 4178 4183 -
7256. 4184 TO 4185 4194 TO 4198 4211 4212 4229 TO 4231 4325 TO 4350 4357 TO 4362 -
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7259. 4686 4704 TO 4708 13495 13496 13718 13784 15615 15616 UNI GZ 0.93
7260. 4186 4215 4216 UNI GX 0.558
7261. 4186 4215 4216 UNI GZ 0.558
7262. *CARGA MUERTA TERRAZA
7263. 4120 4121 4125 4159 4160 4165 4166 4213 4214 4235 4313 TO 4324 4363 TO 4371 -
7264. 4413 TO 4421 4423 4424 4583 TO 4594 4607 TO 4611 4709 TO 4711 9545 TO 9549 -
7265. 9595 TO 9604 9614 TO 9618 9639 TO 9641 9718 TO 9737 9786 9824 TO 9828 9907 -
7266. 9908 TO 9926 9975 TO 9978 9983 TO 9986 10017 TO 10021 10061 10062 10067 10094 -
7267. 10100 10102 10103 11437 11439 11443 11468 11469 11474 11475 11484 11485 -
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7269. 11721 11750 11759 12030 12031 16115 TO 16119 16125 TO 16129 UNI GX 0.93
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7274. 10100 10102 10103 11437 11439 11443 11468 11469 11474 11475 11484 11485 -
7275. 11553 TO 11558 11565 TO 11570 11603 TO 11607 11701 11702 11710 11712 11720 -
7276. 11721 11750 11759 12030 12031 16115 TO 16119 16125 TO 16129 UNI GZ 0.93
7277. 4130 4132 4311 4312 4548 4725 10056 10079 11486 11488 11760 12676 -
7278. 14497 UNI GX 0.558
7279. 4130 4132 4311 4312 4548 4725 10056 10079 11486 11488 11760 12676 -
7280. 14497 UNI GZ 0.558
7281. *CARGA MUERTA OFICINAS TIPO 2
7282. 5483 TO 5486 5488 5490 5494 5499 5529 5530 5533 TO 5536 5539 TO 5544 5546 -
7283. 5547 TO 5549 5555 5556 5583 5584 5601 TO 5603 5697 TO 5722 5729 TO 5734 5744 -
7284. 5745 TO 5752 5770 TO 5774 5777 5778 5829 TO 5833 5967 TO 5969 6009 6010 6022 -
7285. 6023 TO 6025 6030 TO 6033 6036 6037 6043 6045 6049 6050 6053 6054 6057 6058 -
7286. 6076 TO 6080 6460 6461 6466 6509 6564 TO 6569 6571 6573 6574 6579 6604 6605 -
7287. 6607 TO 6611 6613 TO 6625 6630 6631 6635 TO 6639 6650 TO 6653 6665 TO 6667 -
7288. 6737 TO 6774 6781 TO 6786 6796 TO 6804 6821 TO 6828 6865 TO 6869 -
7289. 6956 TO 6990 7016 7017 7029 TO 7032 7037 TO 7040 7043 7044 7050 7052 7056 -
7290. 7057 7060 7061 7064 7065 7079 TO 7083 7113 7130 7131 7133 7140 7141 7146 -
7291. 7527 7528 7582 7588 7590 7591 7628 TO 7633 7635 TO 7638 7643 7666 TO 7687 -
7292. 7692 7693 7697 TO 7701 7711 TO 7714 7722 TO 7724 7789 TO 7826 7833 TO 7838 -
7293. 7848 TO 7856 7869 TO 7876 7907 TO 7911 7991 TO 8025 8046 8047 8059 TO 8062 -
7294. 8067 TO 8070 8073 8074 8078 8080 8084 8085 8088 8089 8092 8093 8101 TO 8105 -
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7297. 8671 8675 TO 8679 8689 TO 8692 8700 TO 8702 8767 TO 8804 8811 TO 8816 8826 -
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7299. 9045 TO 9048 9051 9052 9056 9058 9062 UNI GX 0.93
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7302. 5745 TO 5752 5770 TO 5774 5777 5778 5829 TO 5833 5967 TO 5969 6009 6010 6022 -
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7305. 6607 TO 6611 6613 TO 6625 6630 6631 6635 TO 6639 6650 TO 6653 6665 TO 6667 -
7306. 6737 TO 6774 6781 TO 6786 6796 TO 6804 6821 TO 6828 6865 TO 6869 -
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7317. 9045 TO 9048 9051 9052 9056 9058 9062 UNI GZ 0.93
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7323. 15790 15791 UNI GX 0.93
7324. 9063 9066 9067 9070 9071 9079 TO 9083 9107 9114 9115 9117 9124 9125 9130 9162 -
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7335. 12113 12114 UNI GZ 0.558
7336. *CARGA MUERTA PASILLOS CON TORTA
7337. 3484 3493 3498 TO 3500 3502 3559 3567 3608 3609 3725 3729 3730 3737 TO 3745 -
7338. 3765 TO 3770 3782 TO 3784 3786 TO 3796 3977 TO 3979 3981 3982 3987 3988 4014 -
7339. 4015 4062 4068 4070 4072 4083 TO 4085 4087 4110 4124 4126 4128 4193 4199 -
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7343. 5606 5607 5610 5685 TO 5696 5723 5727 5728 5735 TO 5743 5753 5763 TO 5767 -
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7419. *CARGA MUERTA MARQUESINA
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7421. 14871 UNI GX 0.15
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7423. 14871 UNI GZ 0.15
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7434. 12712 12713 UNI GZ 0.642
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7436. 16161 TO 16168 UNI GX 1.07
7437. 16027 TO 16031 16054 TO 16061 16120 TO 16124 16130 TO 16134 16137 TO 16144 -
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7438. 16161 TO 16168 UNI GZ 1.07
7439. 16052 16053 16135 16136 16159 16160 UNI GX 0.642
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7461. 12114 12117 12119 12122 12127 12274 12275 12311 TO 12313 12346 -
7462. 12348 TO 12353 12360 12367 12381 12383 TO 12389 12398 TO 12400 13179 13183 -
7463. 13220 13226 13264 13265 13268 13270 13815 13828 13841 13854 13867 13880 -
7464. 13893 15139 UNI GX 0.75
7465. 15541 15586 16076 16082 16097 UNI GX 0.75
7466. 2377 2385 2387 2415 2416 2421 2435 2649 2714 TO 2717 2974 2976 TO 2980 2985 -
7467. 2986 TO 2988 3031 TO 3035 3553 3560 3562 3589 3590 3597 3606 3774 -
7468. 3826 TO 3830 4017 4019 TO 4023 4028 TO 4031 4073 TO 4077 4179 4186 4188 4215 -
7469. 4216 4223 4400 5551 5558 5560 5587 5588 5595 5772 6453 6457 6462 6463 6465 -
7470. 6467 6469 6470 6477 6511 6513 6515 6626 6632 6634 6654 6655 6662 6824 7103 -
7471. 7106 7114 7116 7135 7137 7139 7563 7566 7570 7576 7577 7688 7694 7696 7715 -
7472. 7716 7719 7872 8124 8127 8128 8130 8141 8143 8145 8195 8198 8200 8206 8207 -
7473. 8560 8561 8563 TO 8565 8666 8672 8674 8693 8694 8697 8850 9102 9105 9108 -
7474. 9109 9119 9121 9123 9173 9176 9178 9184 9185 9605 9611 9613 9632 9633 9636 -
7475. 9638 9647 9649 9651 TO 9654 9789 9897 TO 9906 9956 TO 9959 10025 -
7476. 10027 TO 10032 10040 10043 10044 10046 10060 10075 10084 10090 10091 10107 -
7477. 10108 10110 TO 10112 10466 10467 10469 10472 10548 10554 10556 10575 10576 -
7478. 10579 10581 10590 10592 10594 10595 10597 10732 10841 TO 10845 -
7479. 10847 TO 10850 10900 TO 10902 10969 10971 TO 10976 10984 10987 10990 10991 -
7480. 11004 11020 11024 11049 11405 11407 TO 11413 11415 11418 TO 11420 11436 -
7481. 11497 11498 11501 11503 11506 11510 11511 11603 11659 11660 11696 TO 11698 -
7482. 11731 11733 TO 11738 11745 11752 11797 11799 TO 11805 12021 TO 12023 12113 -
7483. 12114 12117 12119 12122 12127 12274 12275 12311 TO 12313 12346 -
7484. 12348 TO 12353 12360 12367 12381 12383 TO 12389 12398 TO 12400 13179 13183 -
7485. 13220 13226 13264 13265 13268 13270 13815 13828 13841 13854 13867 13880 -
7486. 13893 15139 UNI GZ 0.75
7487. 15541 15586 16076 16082 16097 UNI GZ 0.75
7488. 14290 14297 14318 14322 14327 14356 14362 14363 14412 14417 14488 14496 14498 -
7489. 14503 14505 14507 14832 14839 14844 14860 14863 14866 14869 15517 15518 -
7490. 15523 15532 15633 15638 15644 15713 15715 15720 15766 15773 UNI GX 0.75
7491. 14290 14297 14318 14322 14327 14356 14362 14363 14412 14417 14488 14496 14498 -
7492. 14503 14505 14507 14832 14839 14844 14860 14863 14866 14869 15517 15518 -
7493. 15523 15532 15633 15638 15644 15713 15715 15720 15766 15773 UNI GZ 0.75
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7494. 9619 TO 9623 9797 TO 9818 10055 10056 10058 10065 10079 10082 10086 10464 -
7495. 10475 11437 11468 11474 11480 11482 11483 11486 TO 11488 11507 11509 11603 -
7496. 11637 TO 11639 11661 TO 11668 11687 TO 11692 11699 11700 11718 11719 11747 -
7497. 11748 TO 11749 11751 11760 11761 11766 11806 TO 11809 12017 12018 12052 12682 -
7498. 12686 12687 12689 TO 12691 12700 12704 TO 12707 12712 TO 12718 -
7499. 12720 TO 12734 12741 TO 12745 12789 12808 TO 12820 12822 12824 TO 12826 -
7500. 12846 TO 12849 12855 12858 12859 12866 12868 TO 12881 12884 12885 12891 -
7501. 12893 TO 12899 12901 TO 12903 12906 12908 13389 13688 13729 13730 13905 -
7502. 13906 14486 14497 UNI GX 0.32
7503. 9619 TO 9623 9797 TO 9818 10055 10056 10058 10065 10079 10082 10086 10464 -
7504. 10475 11437 11468 11474 11480 11482 11483 11486 TO 11488 11507 11509 11603 -
7505. 11637 TO 11639 11661 TO 11668 11687 TO 11692 11699 11700 11718 11719 11747 -
7506. 11748 TO 11749 11751 11760 11761 11766 11806 TO 11809 12017 12018 12052 12682 -
7507. 12686 12687 12689 TO 12691 12700 12704 TO 12707 12712 TO 12718 -
7508. 12720 TO 12734 12741 TO 12745 12789 12808 TO 12820 12822 12824 TO 12826 -
7509. 12846 TO 12849 12855 12858 12859 12866 12868 TO 12881 12884 12885 12891 -
7510. 12893 TO 12899 12901 TO 12903 12906 12908 13389 13688 13729 13730 13905 -
7511. 13906 14486 14497 UNI GZ 0.32
7512. 2392 2400 TO 2406 2420 2688 TO 2713 3023 3566 3574 TO 3580 3800 TO 3824 5580 -
7513. 5581 TO 5582 5594 5893 TO 5905 6034 6055 6056 6092 TO 6096 6455 6481 6482 -
7514. 6647 TO 6649 6661 6924 TO 6936 7041 7062 7063 7095 TO 7099 7104 7128 7129 -
7515. 7708 TO 7710 7718 7962 TO 7974 8071 8090 8091 8117 TO 8121 8125 8134 8135 -
7516. 8686 TO 8688 8696 8940 TO 8952 9049 9068 9069 9095 TO 9099 9103 9112 9113 -
7517. 13711 TO 13714 15451 15564 15676 15683 UNI GX 0.34
7518. 2392 2400 TO 2406 2420 2688 TO 2713 3023 3566 3574 TO 3580 3800 TO 3824 5580 -
7519. 5581 TO 5582 5594 5893 TO 5905 6034 6055 6056 6092 TO 6096 6455 6481 6482 -
7520. 6647 TO 6649 6661 6924 TO 6936 7041 7062 7063 7095 TO 7099 7104 7128 7129 -
7521. 7708 TO 7710 7718 7962 TO 7974 8071 8090 8091 8117 TO 8121 8125 8134 8135 -
7522. 8686 TO 8688 8696 8940 TO 8952 9049 9068 9069 9095 TO 9099 9103 9112 9113 -
7523. 13711 TO 13714 15451 15564 15676 15683 UNI GZ 0.34
7524. 2408 TO 2410 2422 2430 2783 TO 2794 2797 2808 TO 2810 2993 3014 3015 3228 -
7525. 3230 3232 3234 3236 3582 TO 3584 3596 3601 3895 TO 3907 3918 TO 3920 4036 -
7526. 4057 4058 4094 TO 4098 4210 4222 4533 4662 4683 4684 4720 TO 4724 13707 -
7527. 13709 13717 UNI GX 0.3
7528. 2408 TO 2410 2422 2430 2783 TO 2794 2797 2808 TO 2810 2993 3014 3015 3228 -
7529. 3230 3232 3234 3236 3582 TO 3584 3596 3601 3895 TO 3907 3918 TO 3920 4036 -
7530. 4057 4058 4094 TO 4098 4210 4222 4533 4662 4683 4684 4720 TO 4724 13707 -
7531. 13709 13717 UNI GZ 0.3
7532. 2379 TO 2381 2428 2806 2807 2940 TO 2950 2966 2967 3010 3011 3554 TO 3556 -
7533. 3600 3916 3917 3989 TO 3999 4009 4010 4053 4054 4180 TO 4182 4615 TO 4621 -
7534. 4635 4636 4679 4680 UNI GX 0.41
7535. 2379 TO 2381 2428 2806 2807 2940 TO 2950 2966 2967 3010 3011 3554 TO 3556 -
7536. 3600 3916 3917 3989 TO 3999 4009 4010 4053 4054 4180 TO 4182 4615 TO 4621 -
7537. 4635 4636 4679 4680 UNI GZ 0.41
7538. 4202 TO 4206 4220 4428 TO 4451 4692 5574 TO 5578 5799 TO 5821 6510 6524 9625 -
7539. 9626 TO 9627 9635 9879 TO 9891 9987 10006 10007 10033 TO 10037 10041 10049 -
7540. 10050 10568 TO 10570 10578 10822 TO 10834 10931 10950 10951 10977 TO 10981 -
7541. 10985 10994 10995 11490 TO 11492 11500 11640 TO 11652 11703 11722 11723 -
7542. 11739 TO 11743 11746 11755 11756 12106 TO 12108 12116 12256 TO 12268 12318 -
7543. 12337 12338 12354 TO 12358 12361 12370 12371 13715 13716 13725 -
7544. 13727 UNI GX 0.39
7545. 4202 TO 4206 4220 4428 TO 4451 4692 5574 TO 5578 5799 TO 5821 6510 6524 9625 -
7546. 9626 TO 9627 9635 9879 TO 9891 9987 10006 10007 10033 TO 10037 10041 10049 -
7547. 10050 10568 TO 10570 10578 10822 TO 10834 10931 10950 10951 10977 TO 10981 -
7548. 10985 10994 10995 11490 TO 11492 11500 11640 TO 11652 11703 11722 11723 -
7549. 11739 TO 11743 11746 11755 11756 12106 TO 12108 12116 12256 TO 12268 12318 -

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7550. 12337 12338 12354 TO 12358 12361 12370 12371 13715 13716 13725 -
7551. 13727 UNI GZ 0.39
7552. 5552 TO 5554 5987 TO 5992 6007 6008 6051 6052 6456 6627 TO 6629 6999 TO 7004 -
7553. 7014 7015 7058 7059 7105 7689 TO 7691 8029 TO 8034 8044 8045 8086 8087 -
7554. 8126 UNI GX 0.48
7555. 5552 TO 5554 5987 TO 5992 6007 6008 6051 6052 6456 6627 TO 6629 6999 TO 7004 -
7556. 7014 7015 7058 7059 7105 7689 TO 7691 8029 TO 8034 8044 8045 8086 8087 -
7557. 8126 UNI GZ 0.48
7558. 6641 TO 6645 6835 TO 6856 7134 7144 7572 7702 TO 7706 7880 TO 7901 8140 8150 -
7559. 8202 8680 TO 8684 8858 TO 8879 9118 9128 9180 UNI GX 0.43
7560. 6641 TO 6645 6835 TO 6856 7134 7144 7572 7702 TO 7706 7880 TO 7901 8140 8150 -
7561. 8202 8680 TO 8684 8858 TO 8879 9118 9128 9180 UNI GZ 0.43
7562. 8667 TO 8669 9007 TO 9012 9022 9023 9064 9065 9104 9606 TO 9608 9945 TO 9950 -
7563. 9960 9961 10002 10003 10042 10549 TO 10551 10889 TO 10894 10904 10905 10946 -
7564. 10947 10986 UNI GX 0.5
7565. 8667 TO 8669 9007 TO 9012 9022 9023 9064 9065 9104 9606 TO 9608 9945 TO 9950 -
7566. 9960 9961 10002 10003 10042 10549 TO 10551 10889 TO 10894 10904 10905 10946 -
7567. 10947 10986 UNI GZ 0.5
7568. *CARGA MUERTA ESCALERAS Y PUENTES
7569. MEMBER LOAD
7570. 1956 CON GZ 7.18 0.45
7571. 1955 CON GX 7.18 0.9
7572. 1955 CON GZ 7.18 0.9
7573. 2010 CON GX 9.42 1.21
7574. 2010 CON GZ 9.42 1.21
7575. 557 CON GX 9.42 0.82
7576. 557 CON GZ 9.42 0.82
7577. JOINT LOAD
7578. 1925 1926 1935 2305 2715 2885 3277 3447 3810 4017 4544 4557 4898 5051 5117 -
7579. 5316 6193 6209 6211 6219 6227 6233 6235 6290 6292 6294 6298 6302 6422 6530 -
7580. 6531 TO 6532 FX 5.467
7581. 1925 1926 1935 2305 2715 2885 3277 3447 3810 4017 4544 4557 4898 5051 5117 -
7582. 5316 6193 6209 6211 6219 6227 6233 6235 6290 6292 6294 6298 6302 6422 6530 -
7583. 6531 TO 6532 FZ 5.467
7584. MEMBER LOAD
7585. 15583 CON GX 5.467 2.4
7586. 15583 CON GZ 5.467 2.4
7587. 1845 CON GX 5.467 3.8
7588. 1845 CON GZ 5.467 3.8
7589. 1845 CON GX 5.467 6.2
7590. 1845 CON GZ 5.467 6.2
7591. 9648 CON GX 5.467 2.05
7592. 9648 CON GZ 5.467 2.05
7593. 11438 11443 11444 11504 11559 TO 11564 11608 11609 11684 11685 11727 12034 -
7594. 12035 UNI GX 1.17
7595. 11438 11443 11444 11504 11559 TO 11564 11608 11609 11684 11685 11727 12034 -
7596. 12035 UNI GZ 1.17
7597. JOINT LOAD
7598. 4725 6306 FX 10.934
7599. 4725 6306 FZ 10.934
7600. LOAD 4 LOADTYPE SEISMIC  TITLE EQZ
7601. SPECTRUM CQC Z 1.337 ACC SCALE 9.81 DAMP 0.05 LIN
7602. 0 0.563; 1.87 0.563; 1.977 0.531; 2.083 0.504; 2.19 0.48; 2.296 0.457
7603. 2.403 0.437; 2.509 0.418; 2.616 0.401; 2.722 0.386; 2.829 0.371; 2.935 0.358
7604. 3.042 0.345; 3.148 0.334; 3.255 0.323; 3.361 0.312; 3.468 0.303; 3.574 0.294
7605. 3.681 0.285; 3.787 0.277; 3.894 0.27; 4 0.263; 4.2 0.238; 4.4 0.217
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7606. 4.6 0.198; 4.8 0.182; 5 0.168; 5.2 0.155
7607. LOAD 5 LOADTYPE DEAD  TITLE VOL
7608. MEMBER LOAD
7609. 2431 2441 2445 2447 2448 2818 2819 2823 TO 2831 2961 TO 2965 2970 3210 3212 -
7610. 3214 3216 15540 15542 UNI GY -0.415
7611. 2377 2385 2387 UNI GY -0.81
7612. 2392 2415 2416 2420 2421 3023 15451 UNI GY -0.456
7613. 3602 3611 3615 TO 3617 3923 3924 3928 TO 3936 4003 TO 4008 4013 4088 TO 4093 -
7614. 4228 4237 4241 TO 4243 4549 4550 4554 TO 4562 4629 TO 4634 4639 4714 TO 4719 -
7615. 5600 5609 5613 5615 5921 5922 5929 TO 5934 6001 TO 6006 6011 6086 TO 6091 -
7616. 6664 6673 6677 TO 6679 6945 6946 6951 TO 6955 7008 TO 7013 7018 7089 TO 7094 -
7617. 7532 7721 7730 7734 TO 7736 7981 7982 7986 TO 7990 8038 TO 8043 8048 8111 -
7618. 8112 TO 8116 8164 8699 8708 8712 TO 8714 8959 8960 8964 TO 8968 9016 TO 9021 -
7619. 9026 9089 TO 9094 9138 9142 9167 9638 9647 9651 TO 9653 9897 9898 -
7620. 9902 TO 9906 9954 TO 9959 9964 10027 TO 10032 10075 10581 10590 10592 10594 -
7621. 10595 10597 10841 TO 10845 10847 TO 10850 10900 TO 10902 10969 -
7622. 10971 TO 10976 11020 11024 11049 11405 11407 TO 11413 11415 11418 TO 11420 -
7623. 11436 11503 11506 11507 11509 TO 11511 11659 TO 11668 11696 TO 11698 11731 -
7624. 11733 TO 11738 11766 11799 TO 11809 12052 12119 12122 12126 12127 12274 -
7625. 12275 12311 TO 12313 12346 12348 TO 12353 12381 12383 TO 12389 12718 12720 -
7626. 12722 12723 12825 12826 12846 TO 12848 12866 12868 TO 12873 12891 -
7627. 12893 TO 12899 13184 13186 13188 13253 13265 13270 13867 13880 13893 13906 -
7628. 14832 14839 14844 14860 14863 14866 14869 UNI GY -0.396
7629. 3553 3560 3562 4179 4186 4188 5551 5558 5560 6626 6632 6634 7688 7694 7696 -
7630. 8666 8672 8674 9605 9611 9613 10548 10554 10556 11480 11486 -
7631. 11488 UNI GY -0.659
7632. 3566 3589 3590 3597 4192 4215 4216 4220 4223 4692 5364 5587 5588 5592 5595 -
7633. 6064 6453 6457 6462 6463 6465 6467 TO 6470 6477 6479 6511 6513 6514 6654 -
7634. 6655 6662 7135 7137 7147 7563 7566 7569 7715 7716 7719 8124 8127 8128 8130 -
7635. 8141 8143 8153 8195 8198 8199 8560 TO 8566 8693 8694 8697 9119 9121 9131 -
7636. 9173 9176 9177 9632 9633 9636 10056 10058 10079 10082 10464 10575 10576 -
7637. 10579 11497 11498 11501 12113 12114 12117 12360 12367 12398 TO 12400 12712 -
7638. 12713 12716 12879 12881 12901 TO 12903 14486 15564 15613 -
7639. 15680 UNI GY -0.371
7640. LOAD COMB 6 DERX1
7641. 1 1.2 2 1.0 3 0.8
7642. LOAD COMB 7 DERX2
7643. 1 1.2 2 1.0 3 -0.8
7644. LOAD COMB 8 DERZ1
7645. 1 1.2 2 1.0 4 0.8
7646. LOAD COMB 9 DERZ2
7647. 1 1.2 2 1.0 4 -0.8
7648. LOAD COMB 10 DERX3
7649. 1 0.9 3 0.8
7650. LOAD COMB 11 DERX4
7651. 1 0.9 3 -0.8
7652. LOAD COMB 12 DERZ3
7653. 1 0.9 4 0.8
7654. LOAD COMB 13 DERZ4
7655. 1 0.9 4 -0.8
7656. *COMBINACIONES DISENO
7657. LOAD COMB 14 COM1
7658. 1 1.4
7659. LOAD COMB 15 COM2
7660. 1 1.2 2 1.6
7661. LOAD COMB 16 COM3
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7662. 1 1.2 2 1.0 3 0.247 4 0.074
7663. LOAD COMB 17 COM4
7664. 1 1.2 2 1.0 3 0.247 4 -0.074
7665. LOAD COMB 18 COM5
7666. 1 1.2 2 1.0 3 -0.247 4 -0.074
7667. LOAD COMB 19 COM6
7668. 1 1.2 2 1.0 3 -0.247 4 0.074
7669. LOAD COMB 20 COM7
7670. 1 1.2 2 1.0 3 0.074 4 0.247
7671. LOAD COMB 21 COM8
7672. 1 1.2 2 1.0 3 0.074 4 -0.247
7673. LOAD COMB 22 COM9
7674. 1 1.2 2 1.0 3 -0.074 4 -0.247
7675. LOAD COMB 23 COM10
7676. 1 1.2 2 1.0 3 -0.074 4 0.247
7677. LOAD COMB 24 COM11
7678. 1 0.9 3 0.247 4 0.074
7679. LOAD COMB 25 COM12
7680. 1 0.9 3 0.247 4 -0.074
7681. LOAD COMB 26 COM13
7682. 1 0.9 3 -0.247 4 -0.074
7683. LOAD COMB 27 COM14
7684. 1 0.9 3 -0.247 4 0.074
7685. LOAD COMB 28 COM15
7686. 1 0.9 3 0.074 4 0.247
7687. LOAD COMB 29 COM16
7688. 1 0.9 3 0.074 4 -0.247
7689. LOAD COMB 30 COM17
7690. 1 0.9 3 -0.074 4 -0.247
7691. LOAD COMB 31 COM18
7692. 1 0.9 3 -0.074 4 0.247
7693. *ACELERACION VERTICAL VOLADIZO
7694. LOAD COMB 32 CVOL1
7695. 1 1.4 5 1.4
7696. LOAD COMB 33 CVOL2
7697. 1 1.4 5 -1.4
7698. LOAD COMB 34 CVOL3
7699. 1 1.2 2 1.6 5 1.2
7700. LOAD COMB 35 CVOL4
7701. 1 1.2 2 1.6 5 -1.2
7702. *COMBINACIONES CIMENTACION
7703. LOAD COMB 36 CIM
7704. 1 1.0 2 1.0
7705. LOAD COMB 37 CIMX1
7706. 1 1.0 3 0.173
7707. LOAD COMB 38 CIMX2
7708. 1 1.0 3 -0.173
7709. LOAD COMB 39 CIMX3
7710. 1 1.0 2 0.75 3 0.13
7711. LOAD COMB 40 CIMX4
7712. 1 1.0 2 0.75 3 -0.13
7713. LOAD COMB 41 CIMZ1
7714. 1 1.0 4 0.173
7715. LOAD COMB 42 CIMZ2
7716. 1 1.0 4 -0.173
7717. LOAD COMB 43 CIMZ3
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 7718. 1 1.0 2 0.75 4 0.13
 7719. LOAD COMB 44 CIMZ4
 7720. 1 1.0 2 0.75 3 -0.13
 7721. PERFORM ANALYSIS
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P R O B L E M S T A T I S T I C S

NUMBER OF JOINTS 4829 NUMBER OF MEMBERS 7346
NUMBER OF PLATES 4677 NUMBER OF SOLIDS 0
NUMBER OF SURFACES 0 NUMBER OF SUPPORTS 77

SOLVER USED IS THE OUT-OF-CORE BASIC SOLVER

ORIGINAL/FINAL BAND-WIDTH= 4612/ 165/ 984 DOF
TOTAL PRIMARY LOAD CASES = 5, TOTAL DEGREES OF FREEDOM = 28512
TOTAL LOAD COMBINATION CASES = 39 SO FAR.
SIZE OF STIFFNESS MATRIX = 28056 DOUBLE KILO-WORDS
REQRD/AVAIL. DISK SPACE = 487.2/ 384147.8 MB

***WARNING- APPLIED SELFWEIGHT IS LESS THAN TOTAL WEIGHT OF ALL**
STRUCTURAL ELEMENTS IN LOAD CASE 3 ALONG X.
THIS COULD BE DUE TO SELFWEIGHT APPLIED TO SPECIFIC
LIST OF MEMBERS/PLATES/SOLIDS/SURFACES.
TOTAL UNFACTORED WEIGHT OF THE STRUCTURE = 17045.055 MTON
TOTAL UNFACTORED WEIGHT OF THE STRUCTURE APPLIED = 15382.631 MTON

*****NOTE: MASSES DEFINED UNDER LOAD# 3 WILL FORM**
THE FINAL MASS MATRIX FOR DYNAMIC ANALYSIS.

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  *       6 TRIVIAL MASS TERMS SET TO ZERO.
EIGEN METHOD   : SUBSPACE
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NUMBER OF MODES REQUESTED              =    20
NUMBER OF EXISTING MASSES IN THE MODEL =  8855
NUMBER OF MODES THAT WILL BE USED      =    20
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CALCULATED FREQUENCIES FOR LOAD CASE 3

MODE	FREQUENCY(CYCLES/SEC)	PERIOD(SEC)	ACCURACY
1	0.769	1.29981	4.561E-16
2	0.851	1.17506	7.455E-16
3	0.870	1.15003	1.071E-15
4	2.681	0.37300	4.007E-16
5	2.892	0.34580	6.887E-16
6	3.195	0.31299	1.128E-15
7	3.340	0.29944	2.195E-15
8	3.482	0.28717	1.781E-15
9	3.609	0.27711	2.211E-16
10	3.712	0.26939	1.672E-15
11	4.641	0.21547	2.540E-15
12	5.593	0.17880	1.141E-11
13	6.163	0.16226	6.295E-11
14	6.672	0.14988	3.091E-10
15	6.835	0.14630	4.807E-10
16	7.153	0.13980	4.150E-09
17	7.323	0.13656	6.284E-09
18	8.208	0.12184	1.744E-07
19	8.442	0.11846	3.477E-07
20	8.596	0.11634	9.056E-07

The following Frequencies are estimates that were calculated. These are for information only and will not be used. Remaining values are either above the cut off mode/freq values or are of low accuracy. To use these frequencies, rerun with a higher cutoff mode (or mode + freq) value.

CALCULATED FREQUENCIES FOR LOAD CASE 3

MODE	FREQUENCY(CYCLES/SEC)	PERIOD(SEC)	ACCURACY
21	8.848	0.11302	7.626E-10
22	9.137	0.10944	4.978E-06
23	9.377	0.10664	7.615E-06
24	9.839	0.10164	3.164E-05
25	10.122	0.09879	4.784E-05

RESPONSE LOAD CASE 3

MODE	MODAL WEIGHT (MODAL MASS TIMES g) IN MTON X	Y	Z	GENERALIZED WEIGHT
1	1.802847E+03	1.144808E-17	1.551243E+04	5.101555E+03
2	4.650816E+03	1.670553E-18	1.379766E+03	2.744711E+03
3	1.210751E+04	3.897008E-19	7.467242E+02	4.084750E+03
4	2.594869E+02	4.595570E-17	1.942418E+03	6.756527E+02
5	3.260106E+03	1.257153E-19	3.198146E+02	4.214861E+03
6	5.296605E+02	3.842668E-17	1.294888E+03	1.181193E+03
7	1.600829E+02	4.808430E-20	5.809509E+00	1.485915E+02
8	4.287020E+01	9.716433E-20	2.983850E+02	1.376417E+02
9	4.739199E+01	3.179823E-19	9.842427E+01	6.446814E+01
10	1.861683E+02	2.978347E-18	1.365225E+03	7.781306E+02
11	1.150893E+03	4.090477E-17	4.401640E+01	2.463926E+03
12	1.891475E-01	2.589058E-17	3.890967E+02	2.810582E+02
13	2.114726E+02	5.331172E-17	6.137180E+02	1.259648E+03
14	4.461234E+02	2.821594E-18	2.377767E+02	1.696435E+03
15	1.797874E+02	8.599395E-18	1.268981E+02	1.478713E+03
16	1.083612E+01	1.569732E-19	3.624615E+02	2.491368E+03
17	1.018625E+02	4.501131E-17	3.120216E+01	1.522237E+03
18	1.481610E+01	2.092166E-19	1.979165E+02	5.743816E+02
19	1.912005E+02	1.478259E-18	1.133038E+01	2.089991E+03
20	8.124210E-03	6.731378E-17	7.084820E+00	2.123346E+03

CQC MODAL COMBINATION METHOD USED.
DYNAMIC WEIGHT X Y Z 2.696581E+04 4.428623E-06 2.697299E+04 MTON
MISSING WEIGHT X Y Z -1.611678E+03 -4.428623E-06 -1.987601E+03 MTON
MODAL WEIGHT X Y Z 2.535413E+04 3.471556E-16 2.498539E+04 MTON

MODE	ACCELERATION-G	DAMPING
1	0.56319	0.05000
2	0.56319	0.05000
3	0.56319	0.05000
4	0.56319	0.05000
5	0.56319	0.05000
6	0.56319	0.05000
7	0.56319	0.05000
8	0.56319	0.05000
9	0.56319	0.05000
10	0.56319	0.05000
11	0.56319	0.05000
12	0.56319	0.05000
13	0.56319	0.05000
14	0.56319	0.05000
15	0.56319	0.05000
16	0.56319	0.05000
17	0.56319	0.05000
18	0.56319	0.05000
19	0.56319	0.05000
20	0.56319	0.05000

MODAL BASE ACTIONS FORCES IN MTON LENGTH IN METE

MODE	PERIOD	FX	FY	FZ	MOMENTS ARE ABOUT THE ORIGIN MX	MY	MZ
1	1.300	1289.49	-0.00	3782.51	135075.02	-126302.88	-44895.36
2	1.175	3326.52	-0.00	-1811.87	-50168.99	-69623.95	-107701.79
3	1.150	8659.95	0.00	-2150.64	-87667.73	228859.03	-306766.33
4	0.373	185.60	0.00	507.80	3414.83	-10390.86	-1520.34
5	0.346	2331.80	-0.00	-730.34	-3882.46	52418.33	-6108.78
6	0.313	378.84	0.00	592.35	4681.21	-38697.80	-1080.98
7	0.299	114.50	0.00	-21.81	-97.49	-1110.27	-274.30
8	0.287	30.66	0.00	80.90	566.87	-4331.30	-48.21
9	0.277	33.90	0.00	-48.85	-217.52	-519.98	-53.18
10	0.269	133.16	0.00	-360.59	-1642.32	2522.19	-336.27
11	0.215	823.18	-0.00	160.98	155.41	3115.31	-3182.44
12	0.179	0.14	-0.00	6.14	23.91	-232.08	7.73
13	0.162	151.26	0.00	-257.67	-839.70	11684.13	-530.54
14	0.150	319.09	-0.00	232.96	922.02	-4091.49	-871.60
15	0.146	128.59	-0.00	108.04	153.22	-3203.38	-243.57
16	0.140	7.75	0.00	-44.83	-129.49	1030.55	6.42
17	0.137	72.86	-0.00	-40.32	-187.64	-4510.98	155.24
18	0.122	10.60	-0.00	-38.73	-74.41	1269.66	-30.42
19	0.118	136.76	-0.00	-33.29	-33.57	3256.92	-110.49
20	0.116	0.01	0.00	0.17	1.30	2.40	0.63

	MASS PARTICIPATION FACTORS IN PERCENT						BASE SHEAR IN MTON		
MODE	X	Y	Z	SUMM-X	SUMM-Y	SUMM-Z	X	Y	Z
1	6.69	0.00	57.51	6.686	0.000	57.511	1289.49	0.00	0.00
2	17.25	0.00	5.12	23.933	0.000	62.626	3326.52	0.00	0.00
3	44.90	0.00	2.77	68.832	0.000	65.395	8659.95	0.00	0.00
4	0.96	0.00	7.20	69.795	0.000	72.596	185.60	0.00	0.00
5	12.09	0.00	1.19	81.884	0.000	73.782	2331.80	0.00	0.00
6	1.96	0.00	4.80	83.848	0.000	78.582	378.84	0.00	0.00
7	0.59	0.00	0.02	84.442	0.000	78.604	114.50	0.00	0.00
8	0.16	0.00	1.11	84.601	0.000	79.710	30.66	0.00	0.00
9	0.18	0.00	0.36	84.777	0.000	80.075	33.90	0.00	0.00
10	0.69	0.00	5.06	85.467	0.000	85.137	133.16	0.00	0.00
11	4.27	0.00	0.16	89.735	0.000	85.300	823.18	0.00	0.00
12	0.00	0.00	1.44	89.736	0.000	86.742	0.14	0.00	0.00
13	0.78	0.00	2.28	90.520	0.000	89.018	151.26	0.00	0.00
14	1.65	0.00	0.88	92.175	0.000	89.899	319.09	0.00	0.00
15	0.67	0.00	0.47	92.841	0.000	90.370	128.59	0.00	0.00
16	0.04	0.00	1.34	92.881	0.000	91.713	7.75	0.00	0.00
17	0.38	0.00	0.12	93.259	0.000	91.829	72.86	0.00	0.00
18	0.05	0.00	0.73	93.314	0.000	92.563	10.60	0.00	0.00
19	0.71	0.00	0.04	94.023	0.000	92.605	136.76	0.00	0.00
20	0.00	0.00	0.03	94.023	0.000	92.631	0.01	0.00	0.00
					TOTAL SRSS	SHEAR	9706.42	0.00	0.00
					TOTAL 10PCT	SHEAR	12373.11	0.00	0.00
					TOTAL ABS	SHEAR	18134.65	0.00	0.00
					TOTAL CQC	SHEAR	12847.45	0.00	0.00

RESPONSE LOAD CASE 4

	MODAL WEIGHT (MODAL MASS TIMES g) IN MTON			GENERALIZED
MODE	X	Y	Z	WEIGHT
1	1.802847E+03	1.144808E-17	1.551243E+04	5.101555E+03
2	4.650816E+03	1.670553E-18	1.379766E+03	2.744711E+03
3	1.210751E+04	3.897008E-19	7.467242E+02	4.084750E+03
4	2.594869E+02	4.595570E-17	1.942418E+03	6.756527E+02
5	3.260106E+03	1.257153E-19	3.198146E+02	4.214861E+03
6	5.296605E+02	3.842668E-17	1.294888E+03	1.181193E+03
7	1.600829E+02	4.808430E-20	5.809509E+00	1.485915E+02
8	4.287020E+01	9.716433E-20	2.983850E+02	1.376417E+02

9	4.739199E+01	3.179823E-19	9.842427E+01	6.446814E+01
10	1.861683E+02	2.978347E-18	1.365225E+03	7.781306E+02
11	1.150893E+03	4.090477E-17	4.401640E+01	2.463926E+03
12	1.891475E-01	2.589058E-17	3.890967E+02	2.810582E+02
13	2.114726E+02	5.331172E-17	6.137180E+02	1.259648E+03
14	4.461234E+02	2.821594E-18	2.377767E+02	1.696435E+03
15	1.797874E+02	8.599395E-18	1.268981E+02	1.478713E+03
16	1.083612E+01	1.569732E-19	3.624615E+02	2.491368E+03
17	1.018625E+02	4.501131E-17	3.120216E+01	1.522237E+03
18	1.481610E+01	2.092166E-19	1.979165E+02	5.743816E+02
19	1.912005E+02	1.478259E-18	1.133038E+01	2.089991E+03
20	8.124210E-03	6.731378E-17	7.084820E+00	2.123346E+03

CQC MODAL COMBINATION METHOD USED.

DYNAMIC WEIGHT	X	Y	Z	2.696581E+04 4.428623E-06 2.697299E+04 MTON
MISSING WEIGHT	X	Y	Z	-1.611678E+03 -4.428623E-06 -1.987601E+03 MTON
MODAL WEIGHT	X	Y	Z	2.535413E+04 3.471556E-16 2.498539E+04 MTON

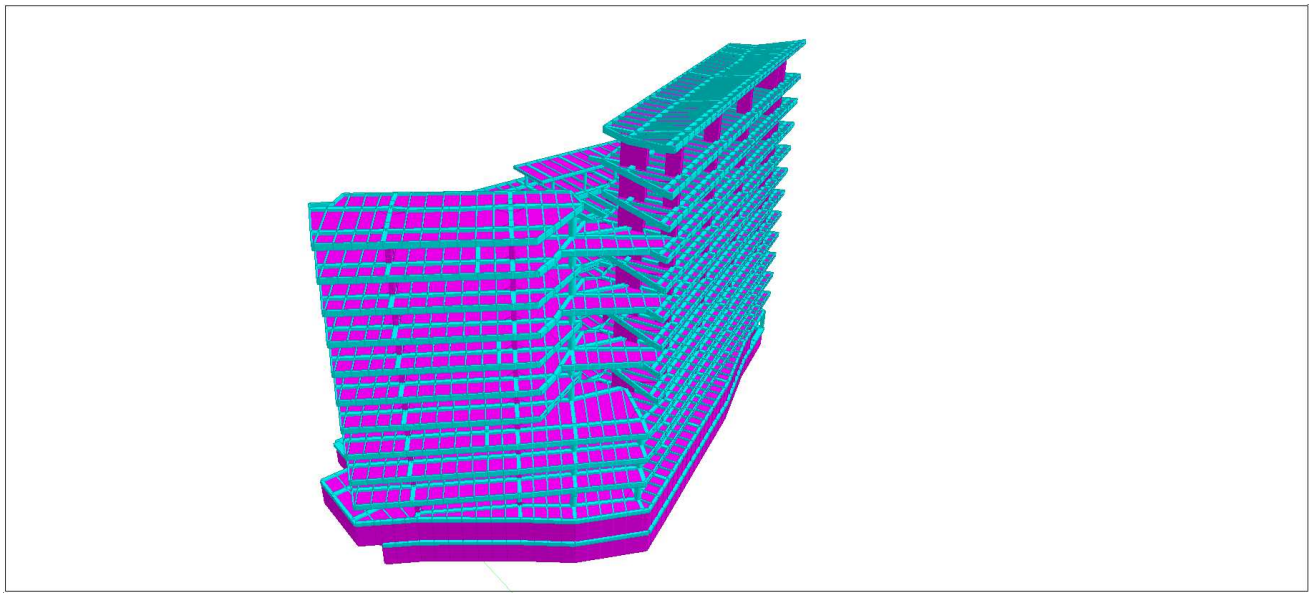
MODE	ACCELERATION-G	DAMPING
1	0.56319	0.05000
2	0.56319	0.05000
3	0.56319	0.05000
4	0.56319	0.05000
5	0.56319	0.05000
6	0.56319	0.05000
7	0.56319	0.05000
8	0.56319	0.05000
9	0.56319	0.05000
10	0.56319	0.05000
11	0.56319	0.05000
12	0.56319	0.05000
13	0.56319	0.05000
14	0.56319	0.05000
15	0.56319	0.05000
16	0.56319	0.05000
17	0.56319	0.05000
18	0.56319	0.05000
19	0.56319	0.05000
20	0.56319	0.05000

MODAL BASE ACTIONS FORCES IN MTON LENGTH IN METE

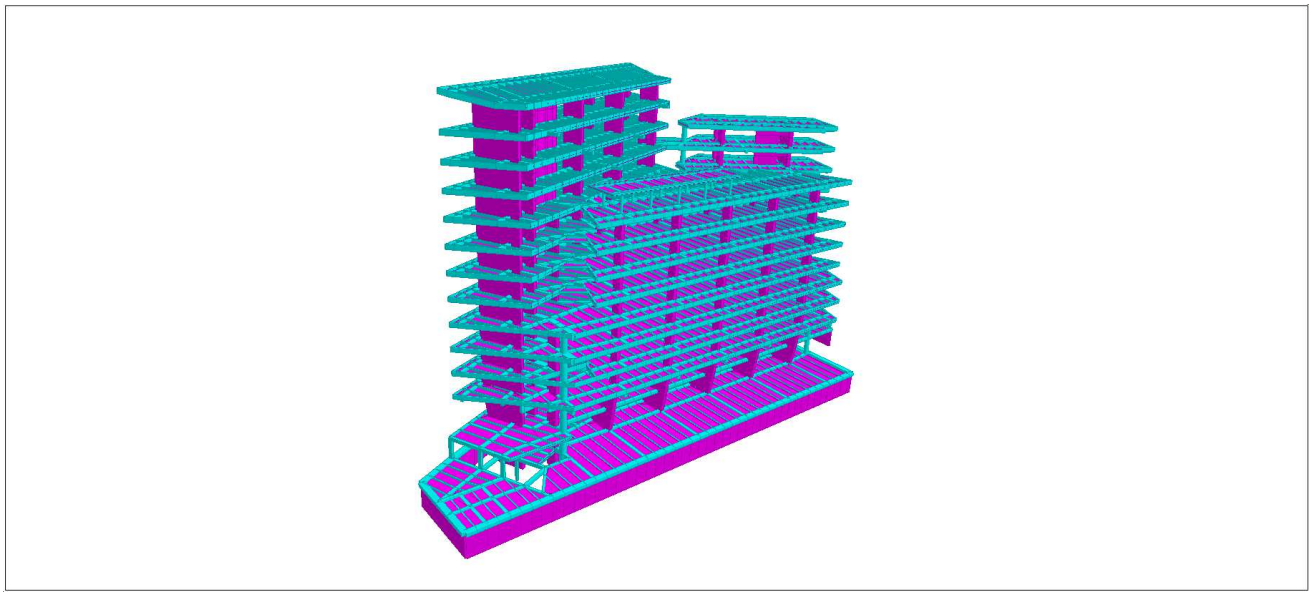
MODE	PERIOD	FX	FY	FZ	MOMENTS ARE ABOUT THE ORIGIN MX	MY	MZ
1	1.300	3982.06	-0.00	11680.68	417122.11	-390033.06	-138640.33
2	1.175	-1907.46	0.00	1038.95	28767.44	39923.13	61757.37
3	1.150	-2264.10	-0.00	562.27	22920.29	-59834.05	80202.52
4	0.373	534.59	0.00	1462.62	9835.82	-29929.04	-4379.06
5	0.346	-768.87	0.00	240.82	1280.17	-17284.00	2014.26
6	0.313	623.60	0.00	975.04	7705.55	-63698.81	-1779.36
7	0.299	-22.96	-0.00	4.37	19.55	222.67	55.01
8	0.287	85.16	0.00	224.68	1574.43	-12029.75	-133.90
9	0.277	-51.43	-0.00	74.11	330.00	788.89	80.68
10	0.269	-379.61	-0.00	1028.00	4682.05	-7190.42	958.65
11	0.215	169.48	-0.00	33.14	32.00	641.38	-655.20
12	0.179	6.46	-0.00	292.99	1141.47	-11081.38	369.03
13	0.162	-271.27	-0.00	462.12	1505.94	-20954.71	951.49
14	0.150	245.25	-0.00	179.04	708.64	-3144.60	-669.89
15	0.146	113.74	-0.00	95.55	135.52	-2833.24	-215.43
16	0.140	-47.19	-0.00	272.93	788.45	-6274.67	-39.11
17	0.137	-42.45	0.00	23.49	109.33	2628.35	-90.45
18	0.122	-40.78	0.00	149.03	286.30	-4885.26	117.04
19	0.118	-35.05	0.00	8.53	8.60	-834.67	28.31
20	0.116	0.18	0.00	5.33	40.52	74.75	19.61

	MASS PARTICIPATION FACTORS IN PERCENT						BASE SHEAR IN MTON		
MODE	X	Y	Z	SUMM-X	SUMM-Y	SUMM-Z	X	Y	Z
1	6.69	0.00	57.51	6.686	0.000	57.511	0.00	0.00	11680.68
2	17.25	0.00	5.12	23.933	0.000	62.626	0.00	0.00	1038.95
3	44.90	0.00	2.77	68.832	0.000	65.395	0.00	0.00	562.27
4	0.96	0.00	7.20	69.795	0.000	72.596	0.00	0.00	1462.62
5	12.09	0.00	1.19	81.884	0.000	73.782	0.00	0.00	240.82
6	1.96	0.00	4.80	83.848	0.000	78.582	0.00	0.00	975.04
7	0.59	0.00	0.02	84.442	0.000	78.604	0.00	0.00	4.37
8	0.16	0.00	1.11	84.601	0.000	79.710	0.00	0.00	224.68
9	0.18	0.00	0.36	84.777	0.000	80.075	0.00	0.00	74.11
10	0.69	0.00	5.06	85.467	0.000	85.137	0.00	0.00	1028.00
11	4.27	0.00	0.16	89.735	0.000	85.300	0.00	0.00	33.14
12	0.00	0.00	1.44	89.736	0.000	86.742	0.00	0.00	292.99
13	0.78	0.00	2.28	90.520	0.000	89.018	0.00	0.00	462.12
14	1.65	0.00	0.88	92.175	0.000	89.899	0.00	0.00	179.04
15	0.67	0.00	0.47	92.841	0.000	90.370	0.00	0.00	95.55
16	0.04	0.00	1.34	92.881	0.000	91.713	0.00	0.00	272.93
17	0.38	0.00	0.12	93.259	0.000	91.829	0.00	0.00	23.49
18	0.05	0.00	0.73	93.314	0.000	92.563	0.00	0.00	149.03
19	0.71	0.00	0.04	94.023	0.000	92.605	0.00	0.00	8.53
20	0.00	0.00	0.03	94.023	0.000	92.631	0.00	0.00	5.33
						TOTAL SRSS SHEAR	0.00	0.00	11938.74
						TOTAL 10PCT SHEAR	0.00	0.00	12078.20
						TOTAL ABS SHEAR	0.00	0.00	18813.70
						TOTAL CQC SHEAR	0.00	0.00	12848.55

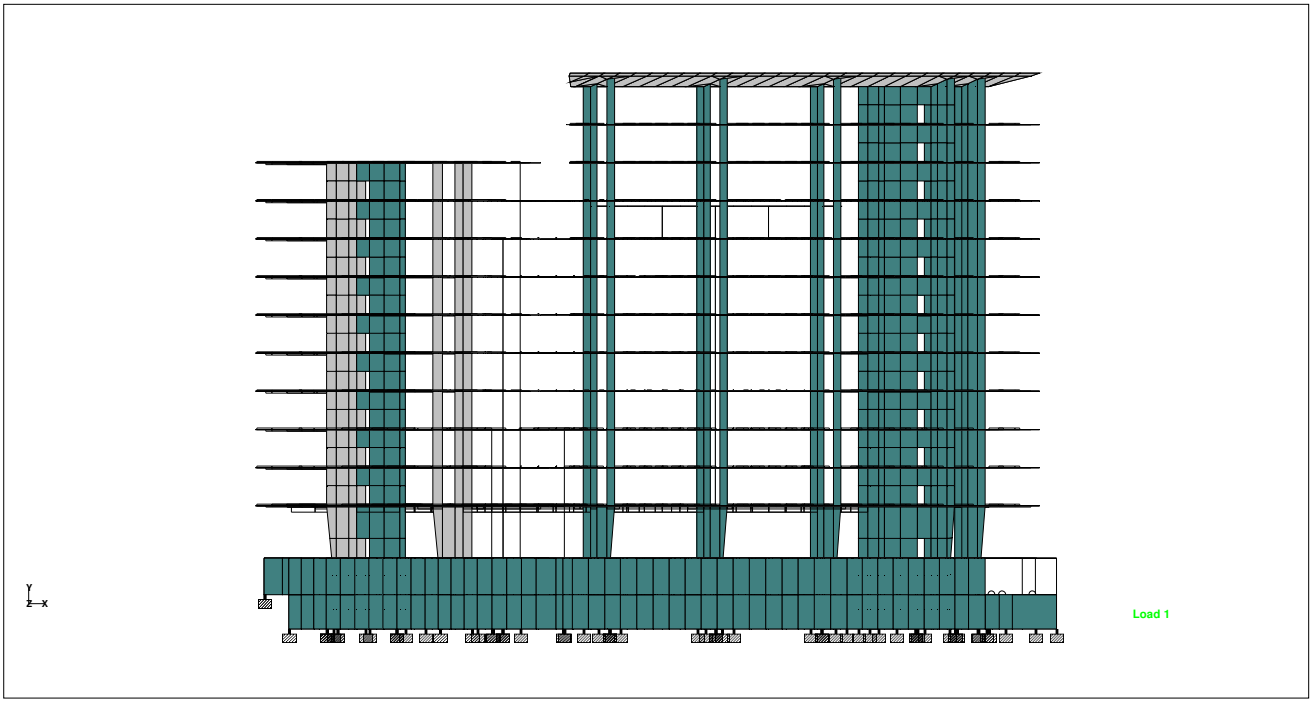
7722. PRINT ALL



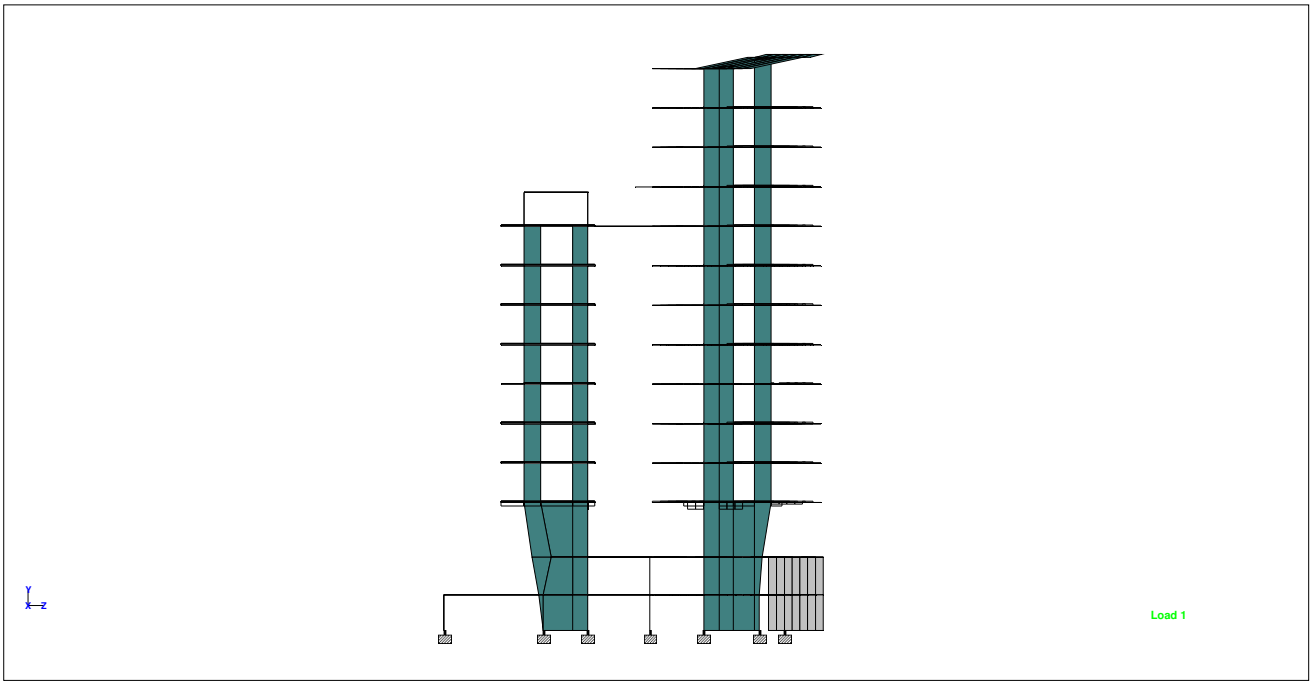
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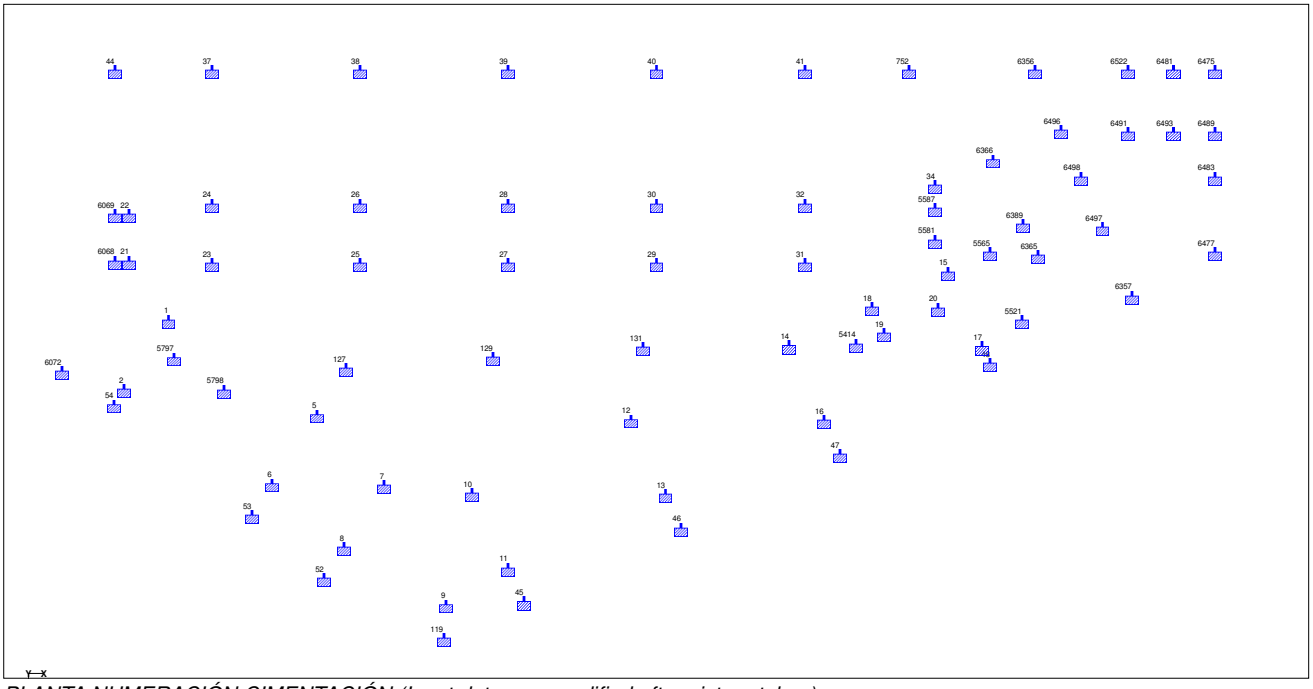
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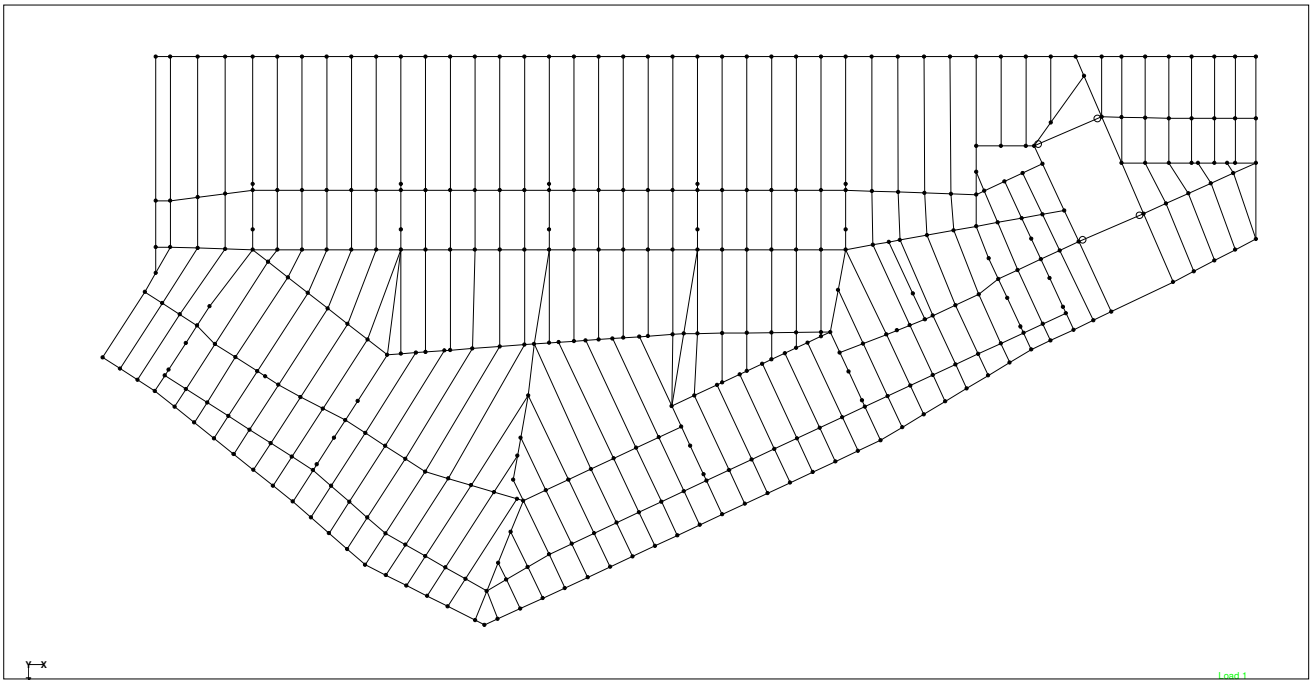
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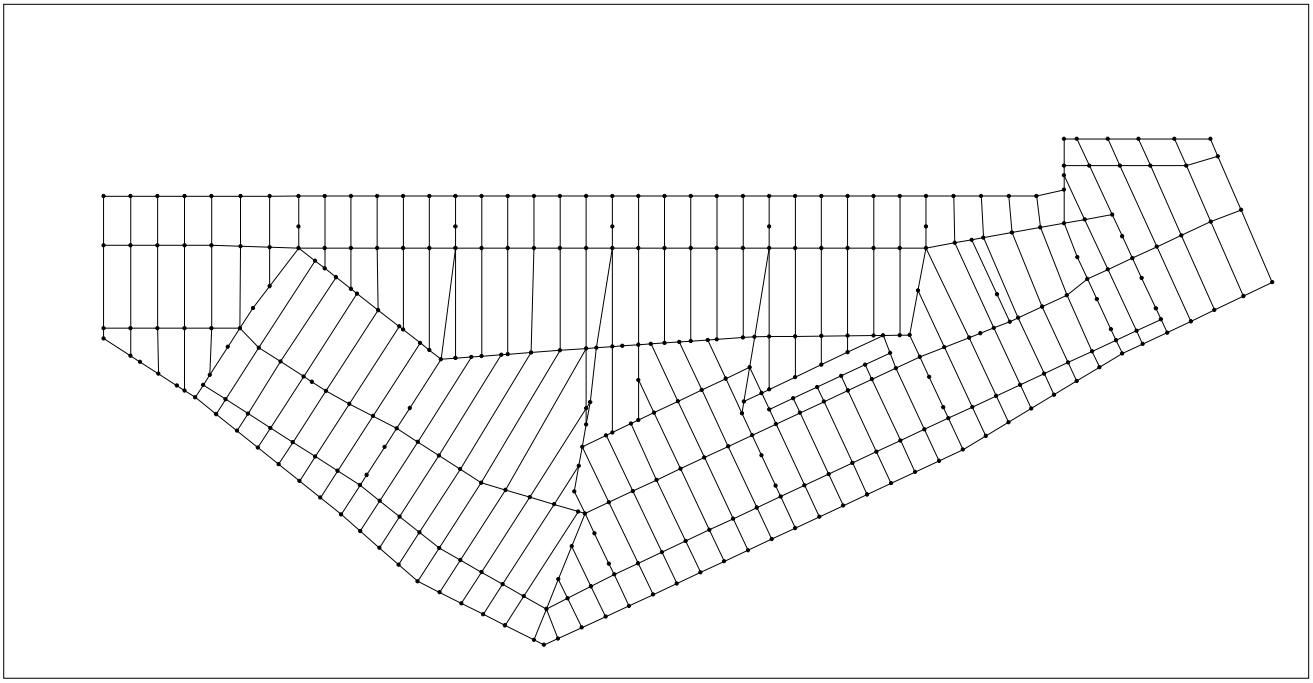
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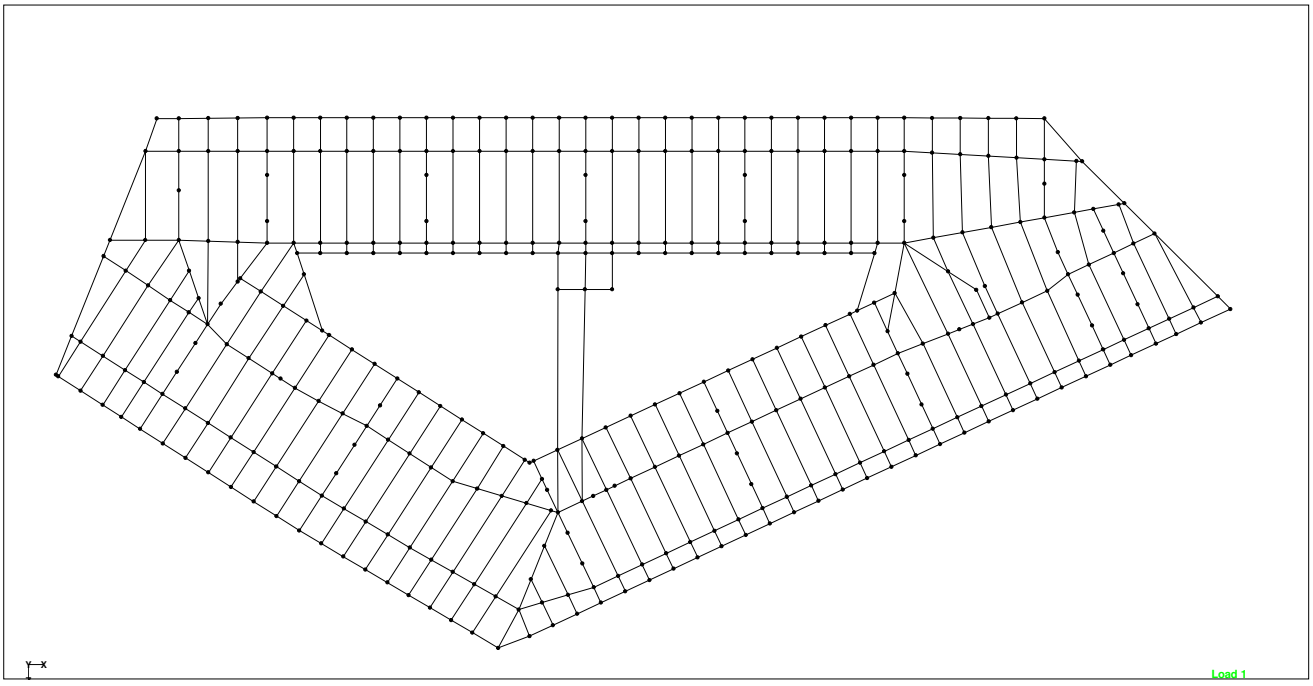
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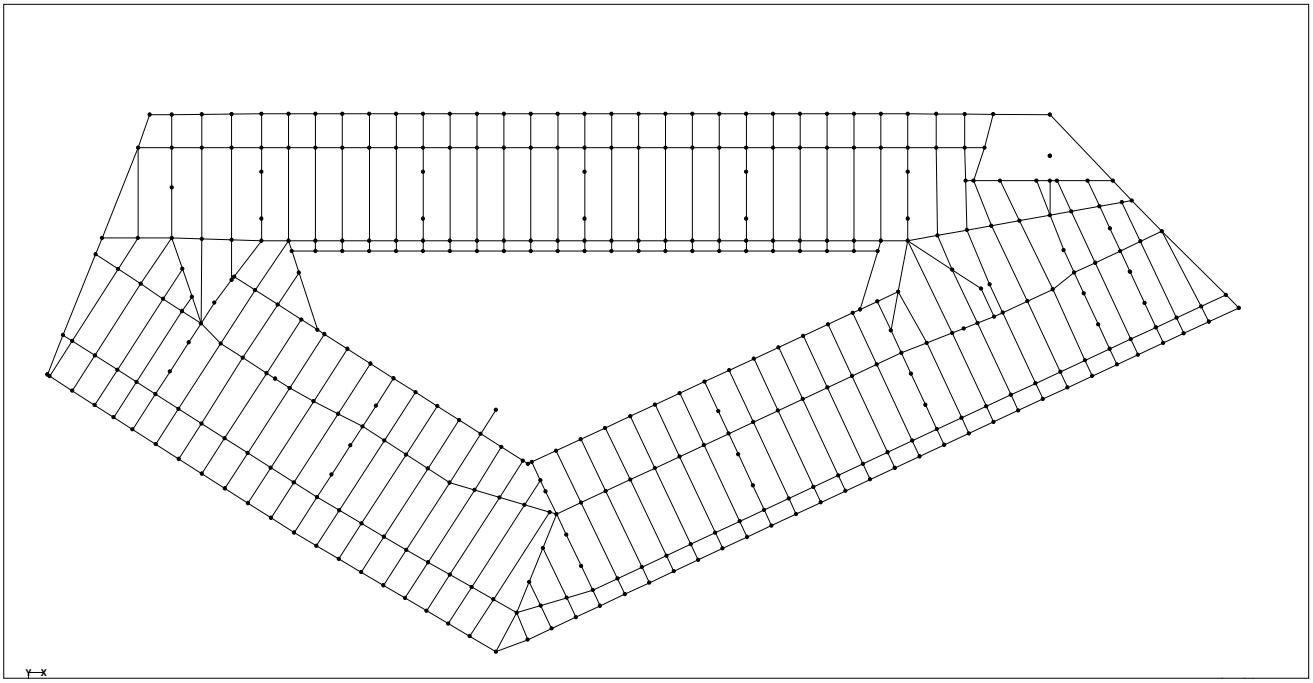
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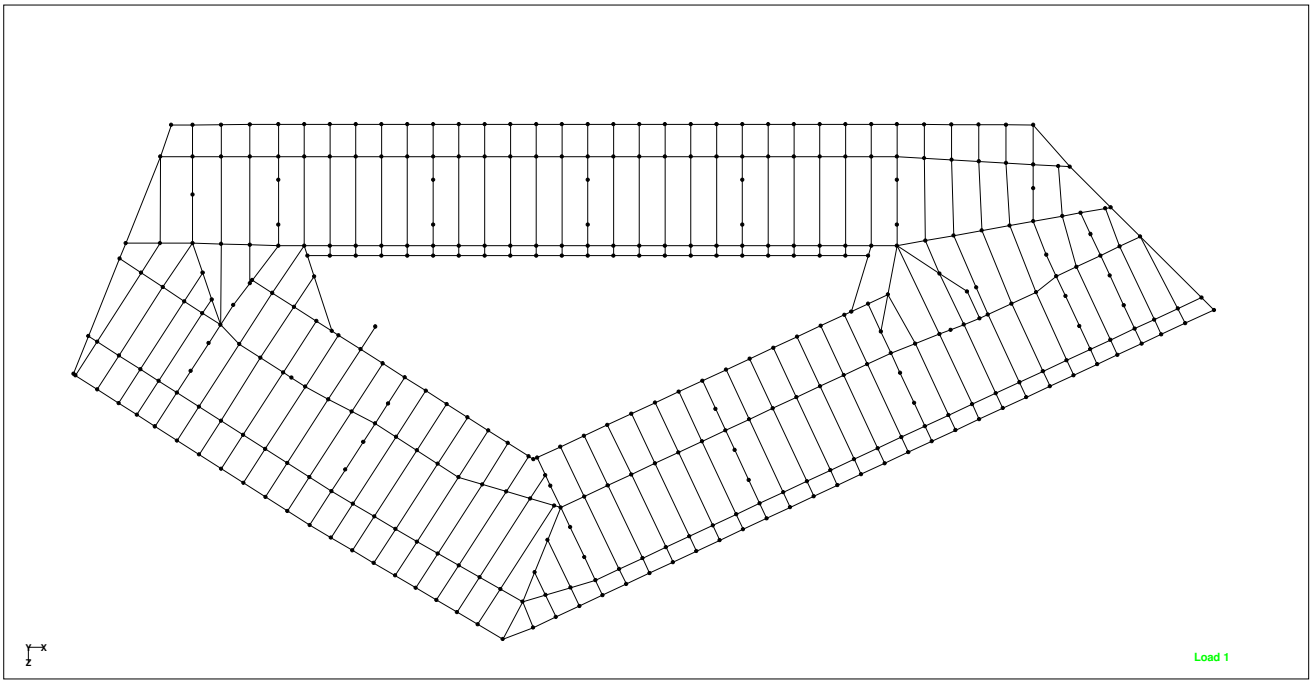
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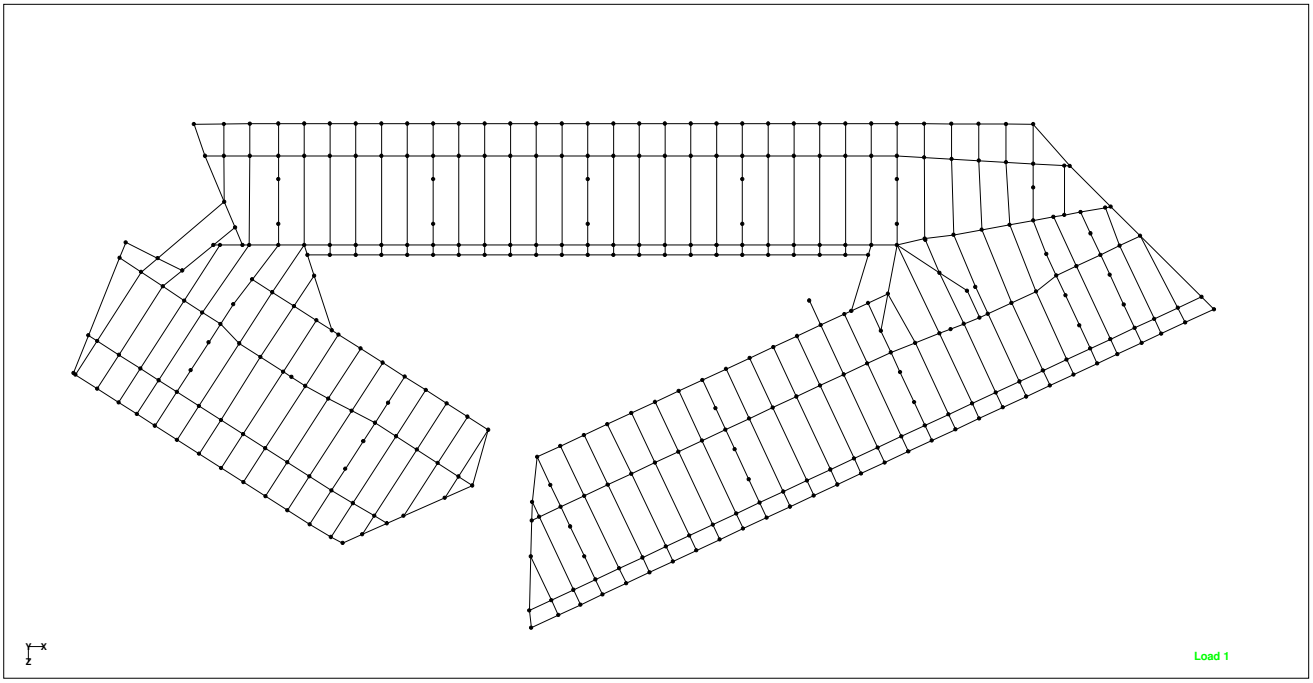
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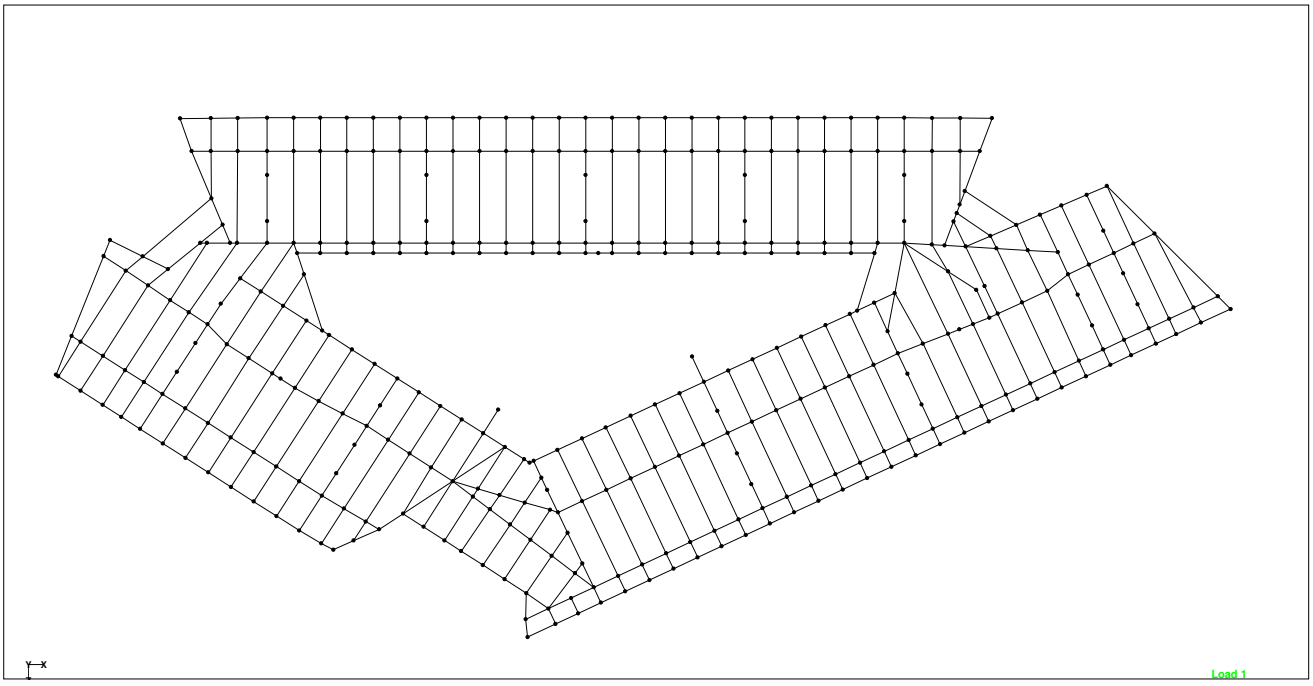
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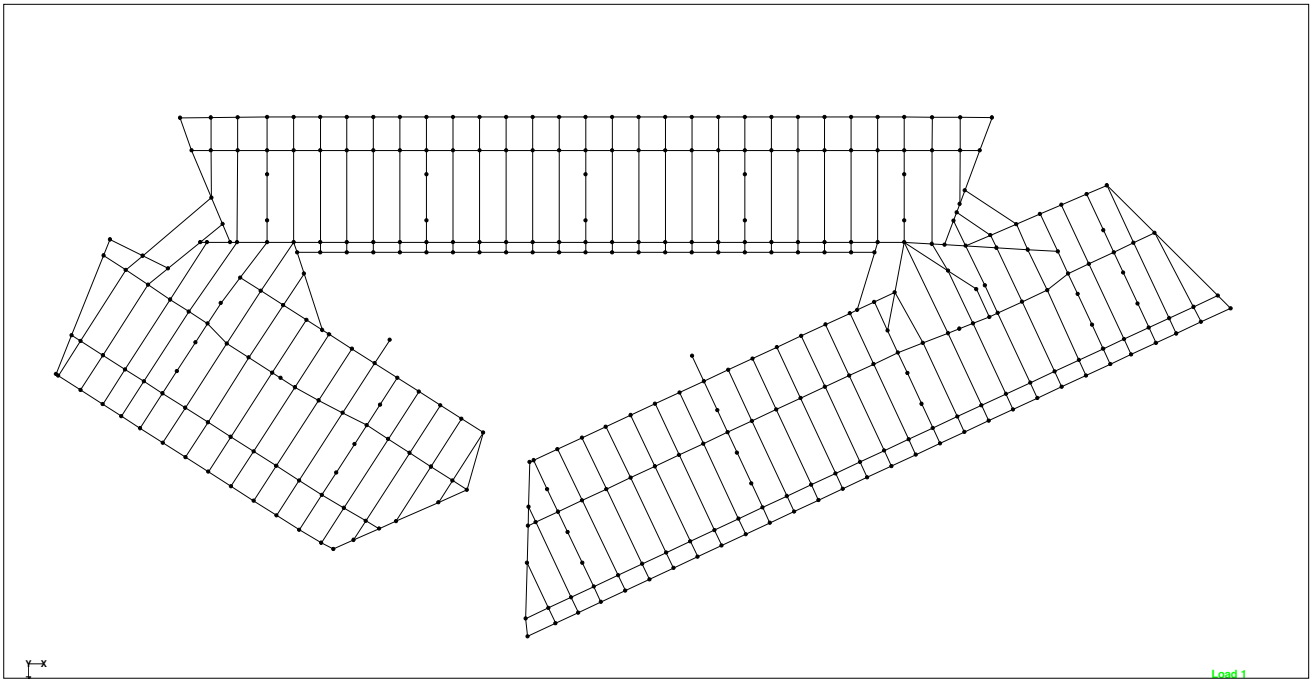
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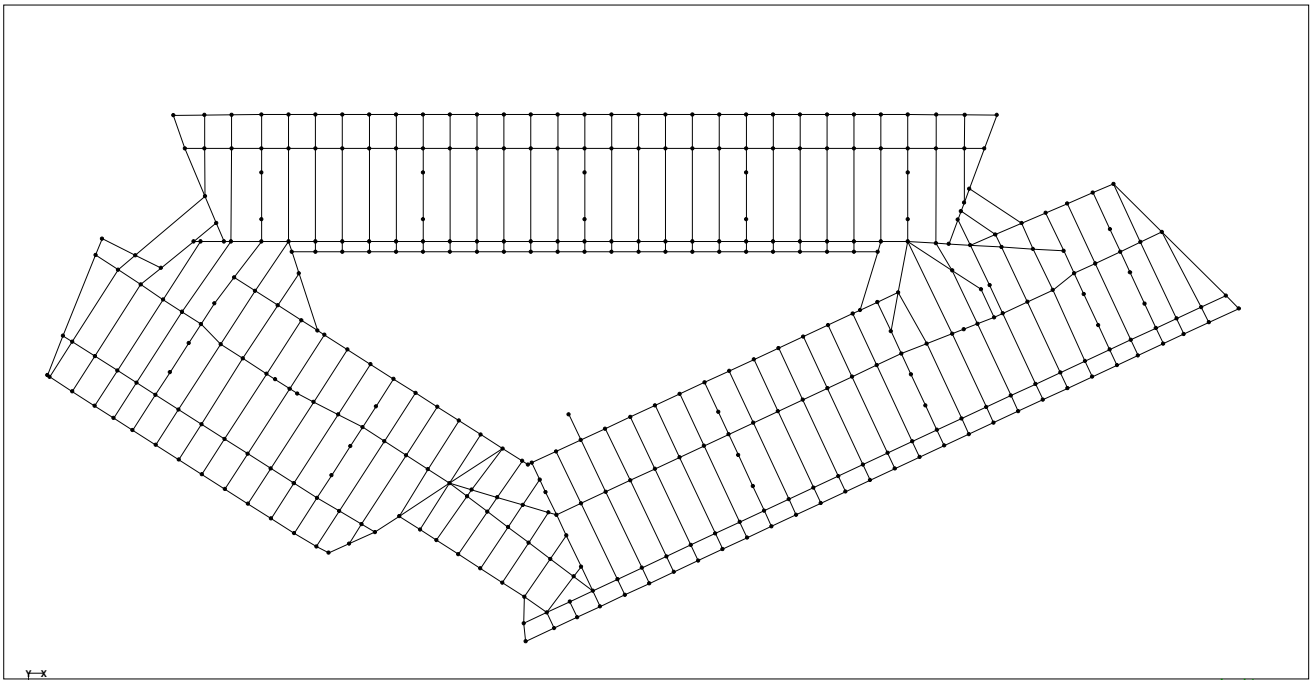
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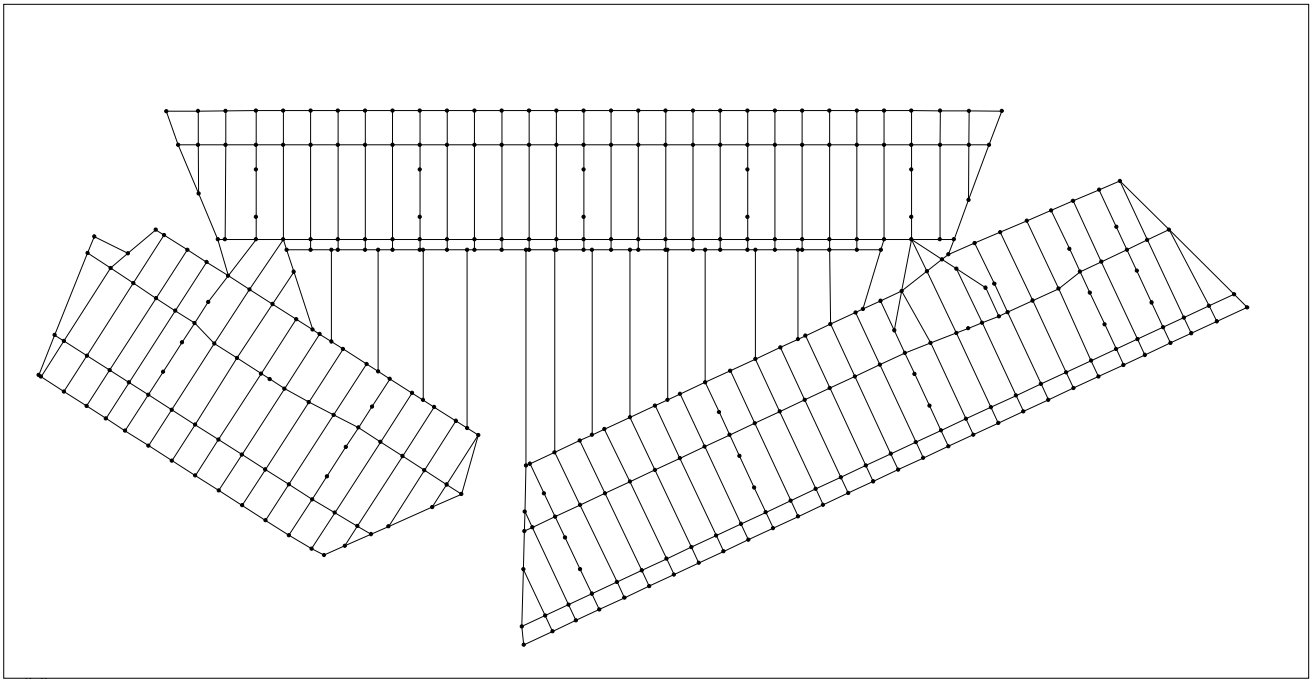
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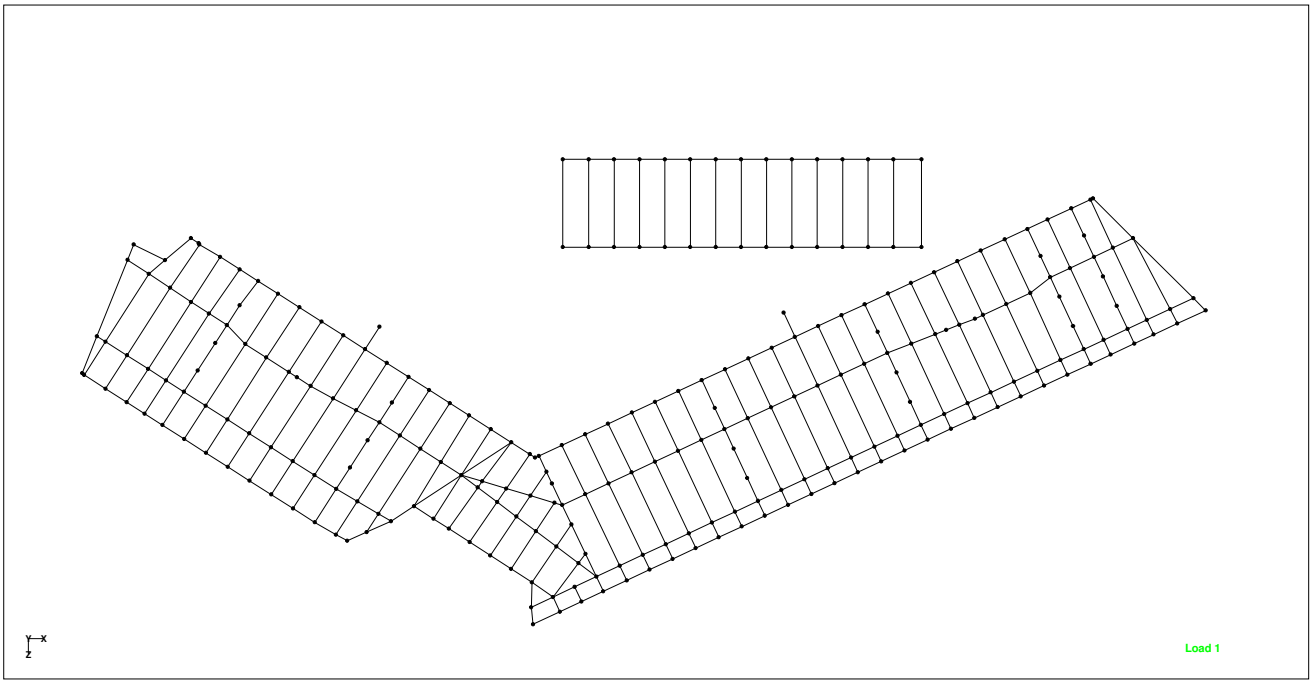
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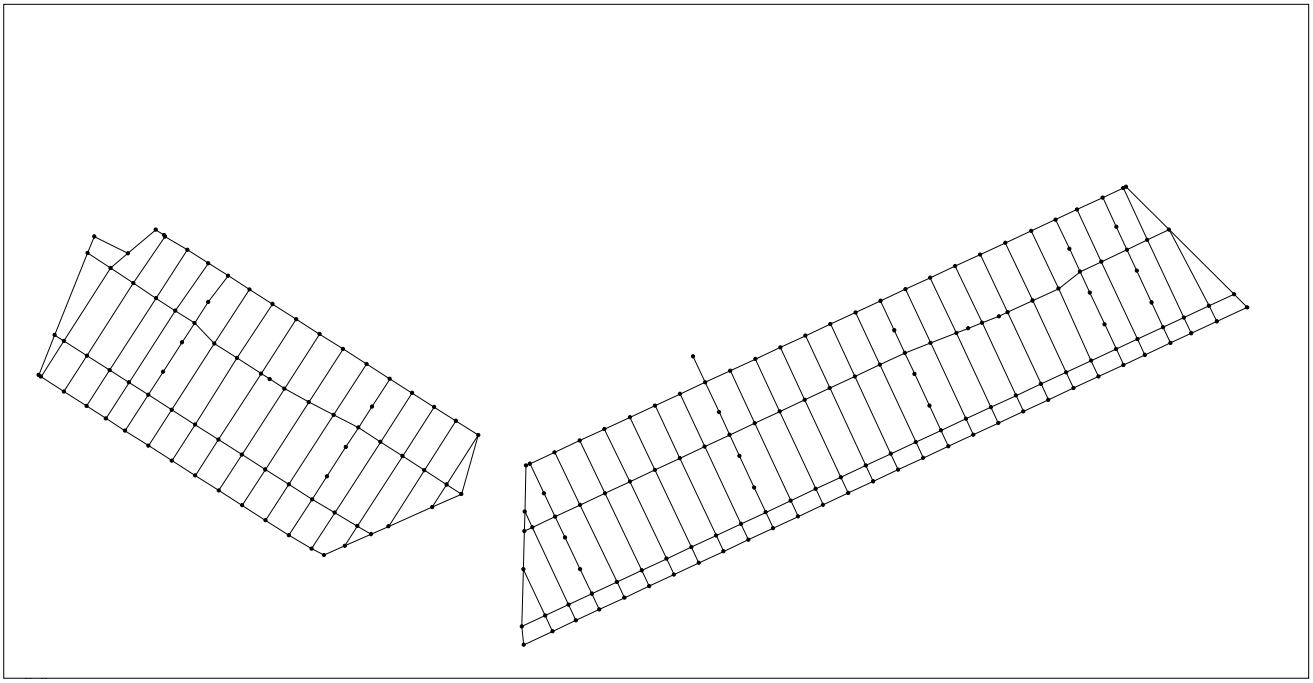
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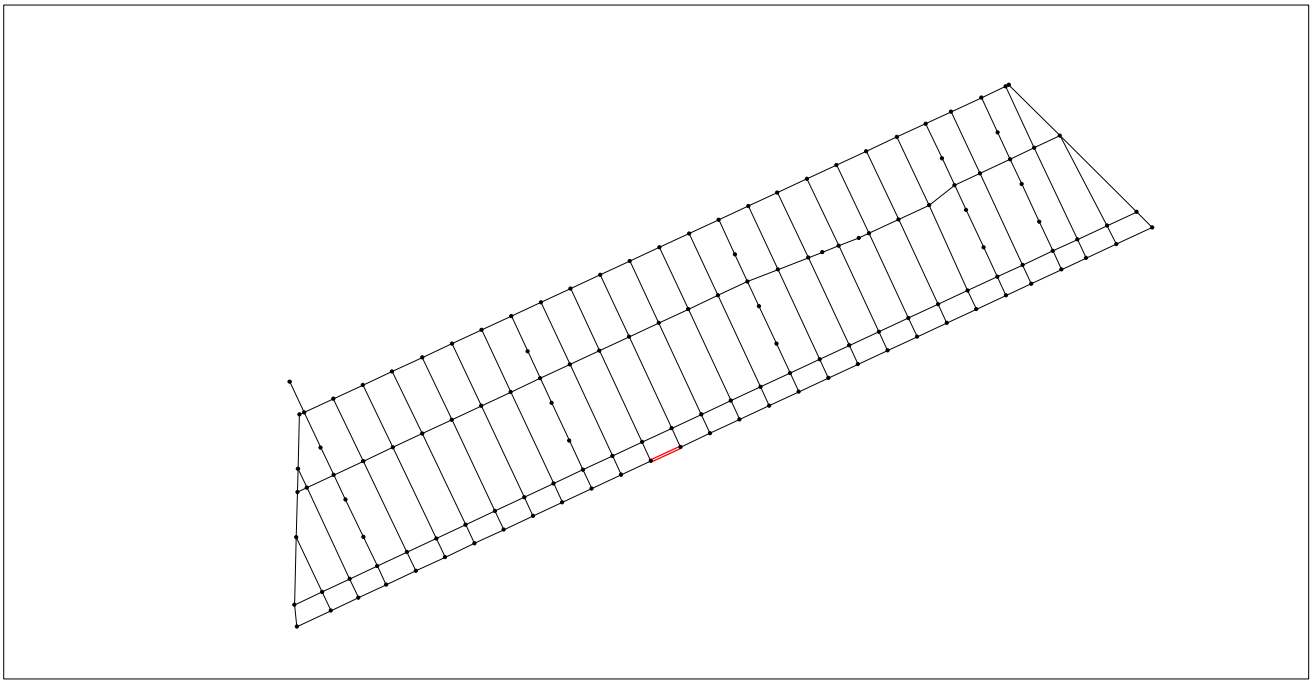
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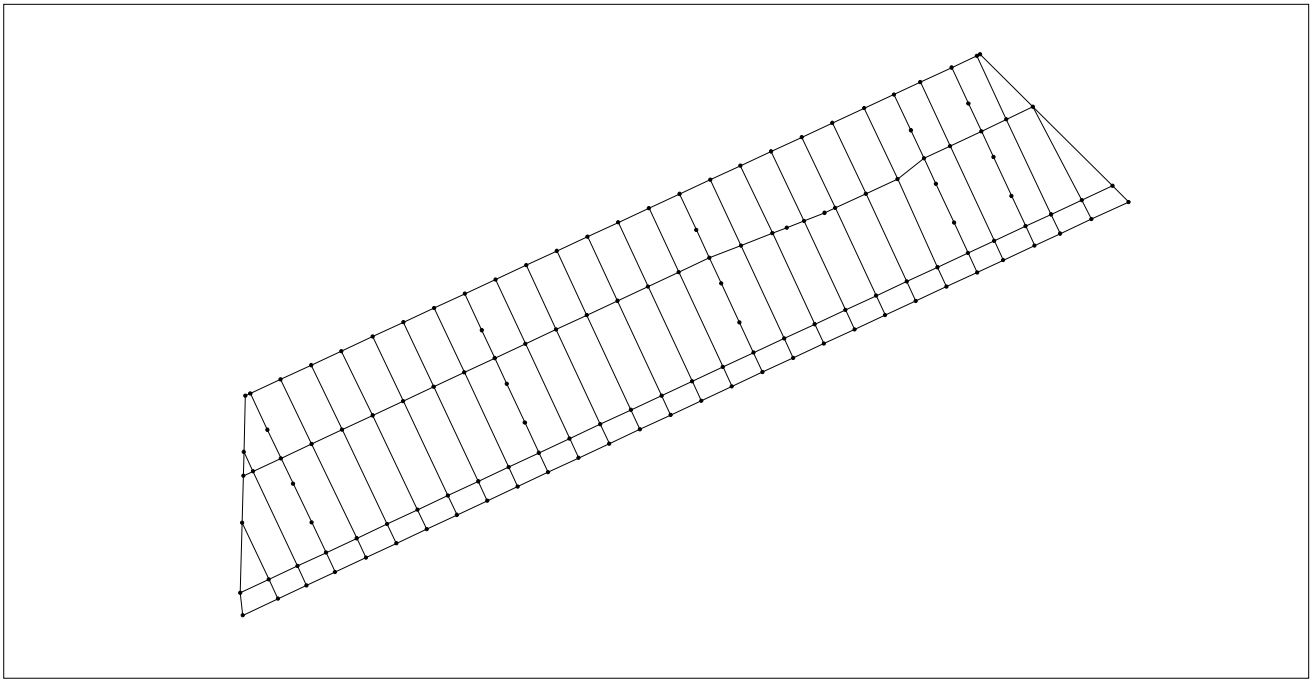
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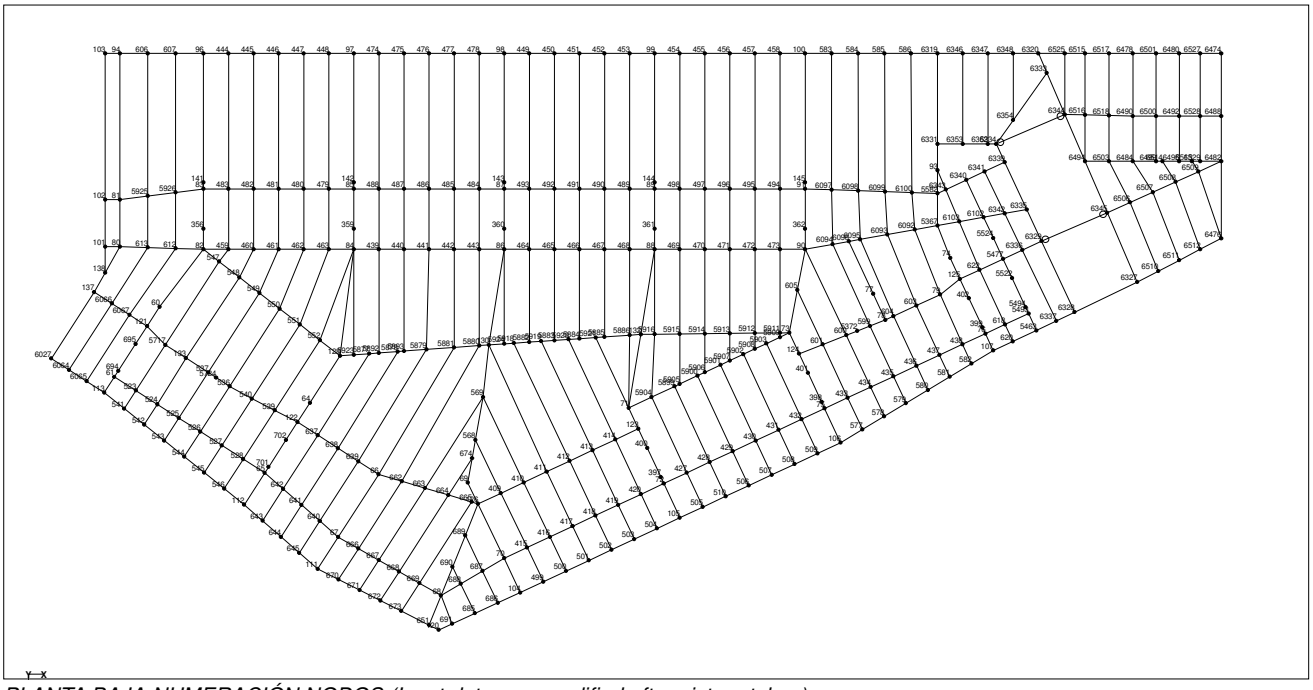
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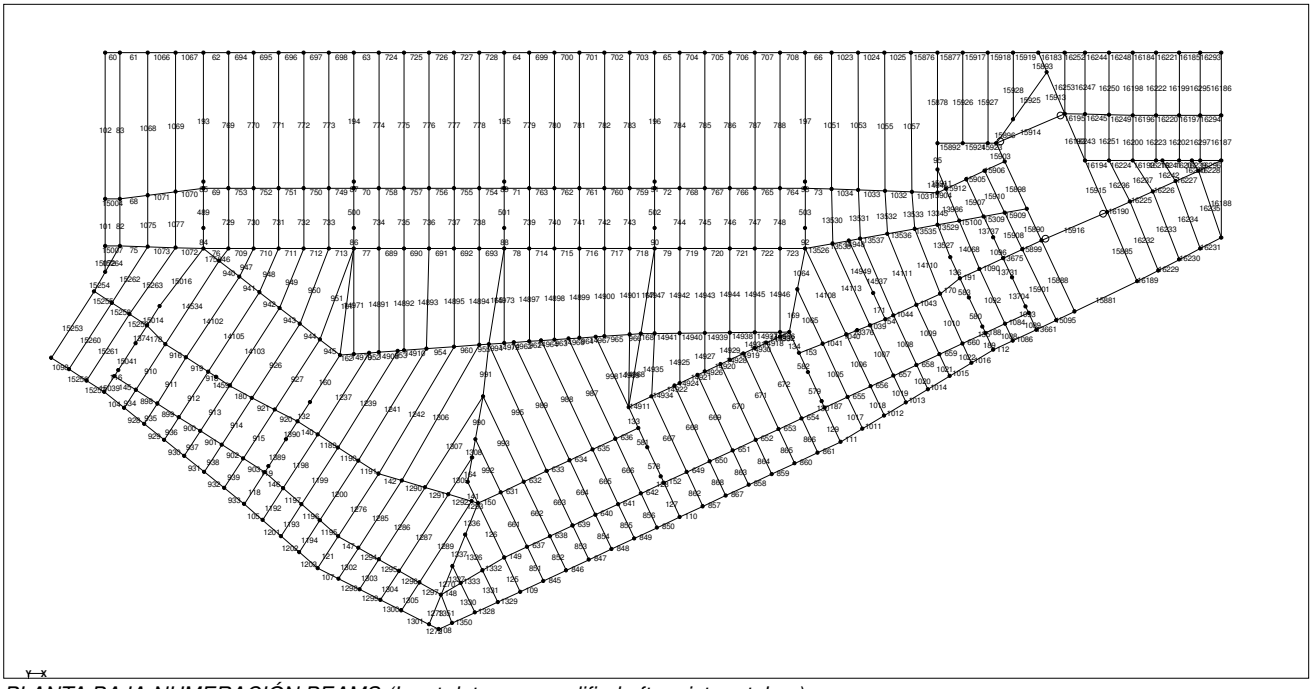
PLANTA PISO 12 (Input data was modified after picture taken)



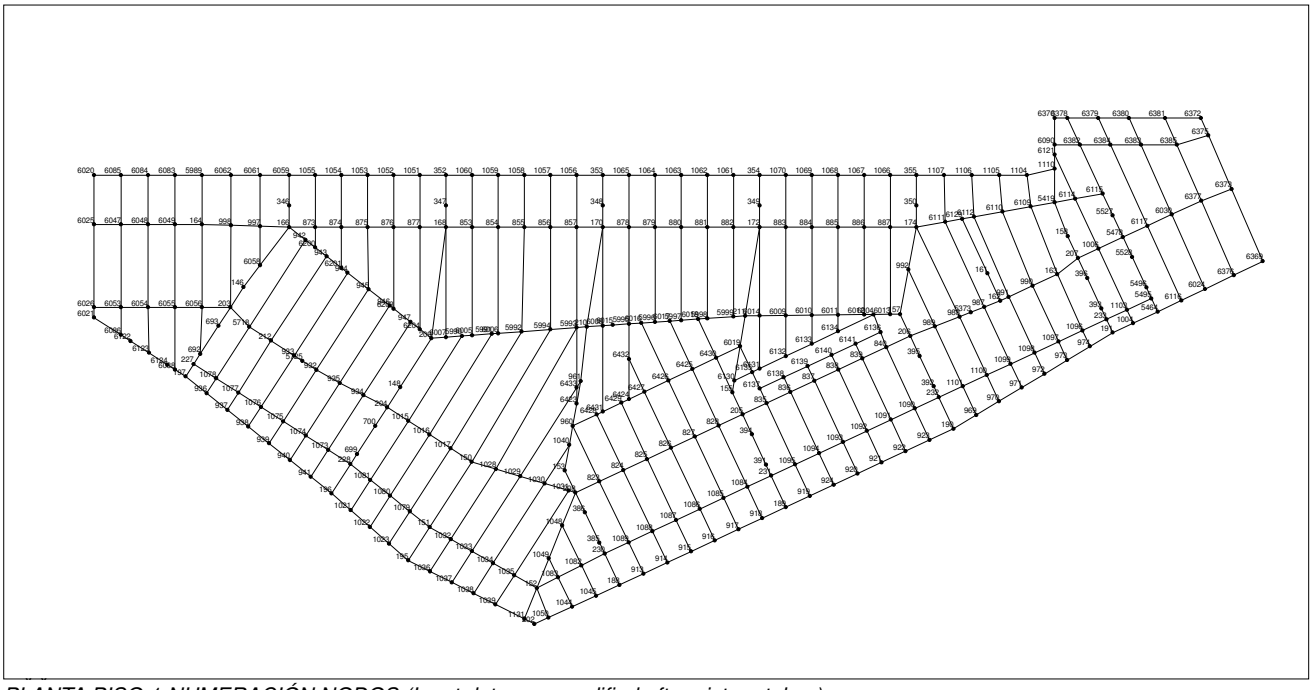
PLANTA CUBIERTA (Input data was modified after picture taken)



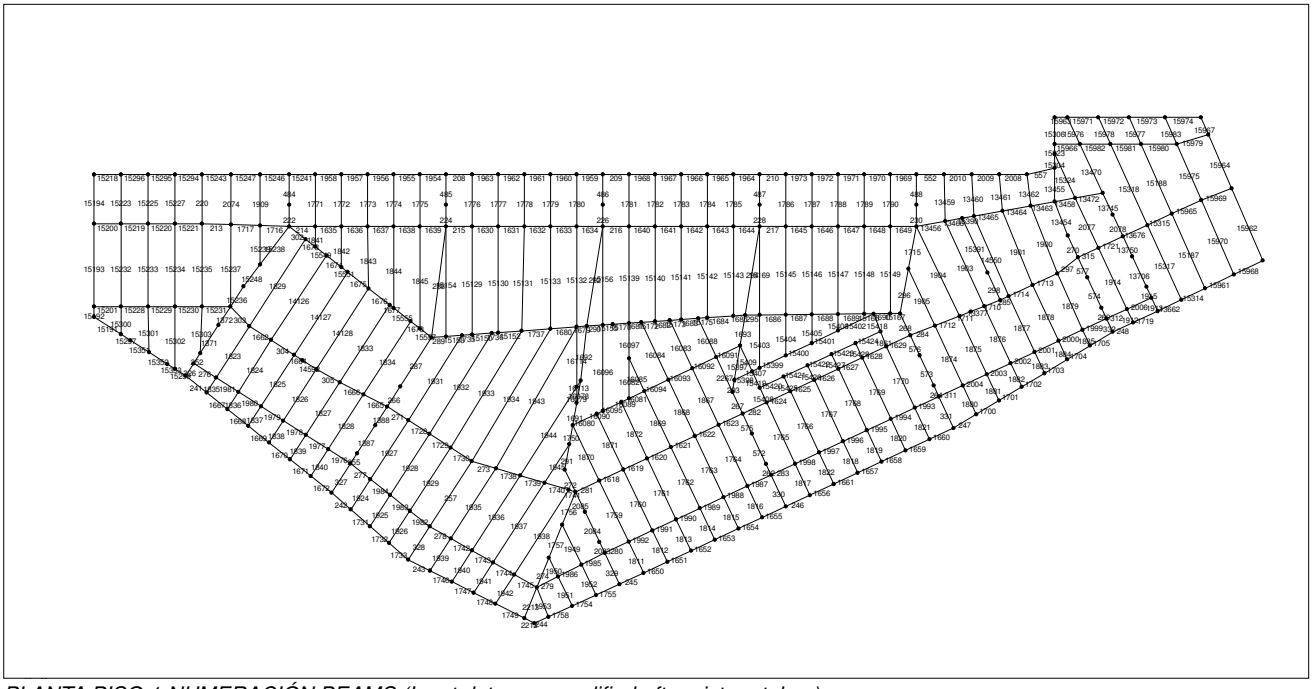
PLANTA BAJA-NUMERACIÓN NODOS (Input data was modified after picture taken)



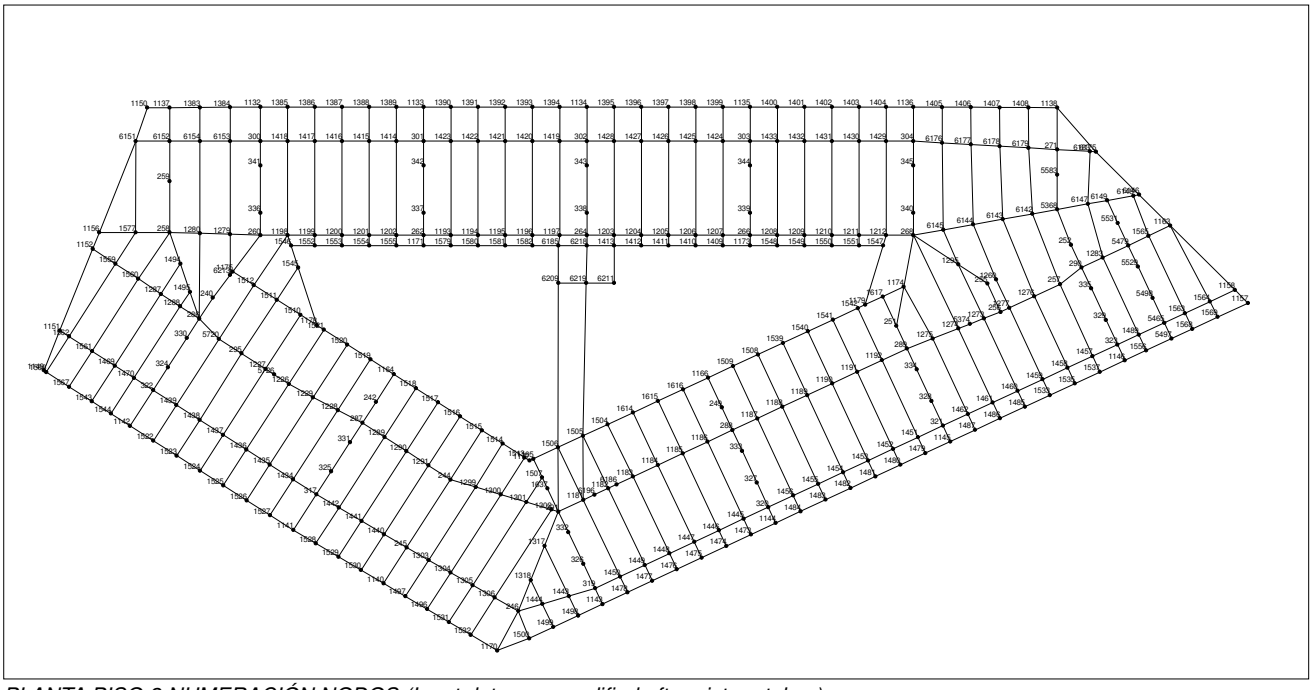
PLANTA BAJA-NUMERACIÓN BEAMS (Input data was modified after picture taken)



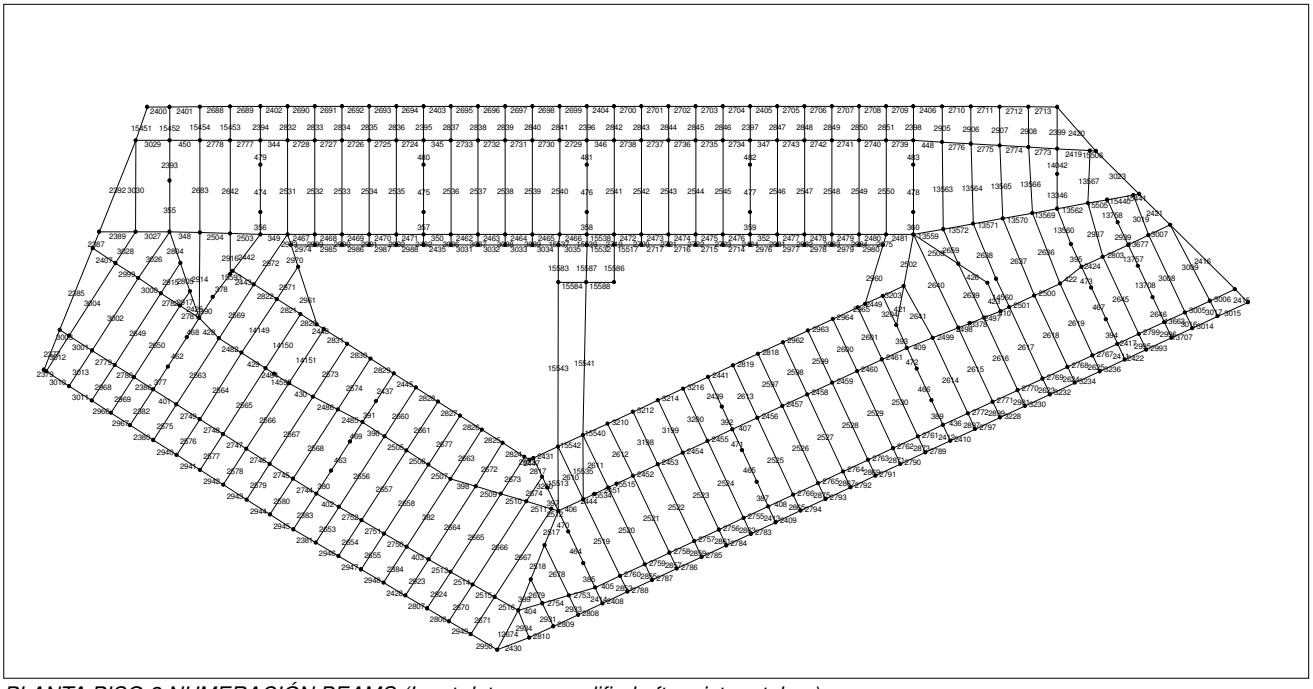
PLANTA PISO 1-NUMERACIÓN NODOS (Input data was modified after picture taken)



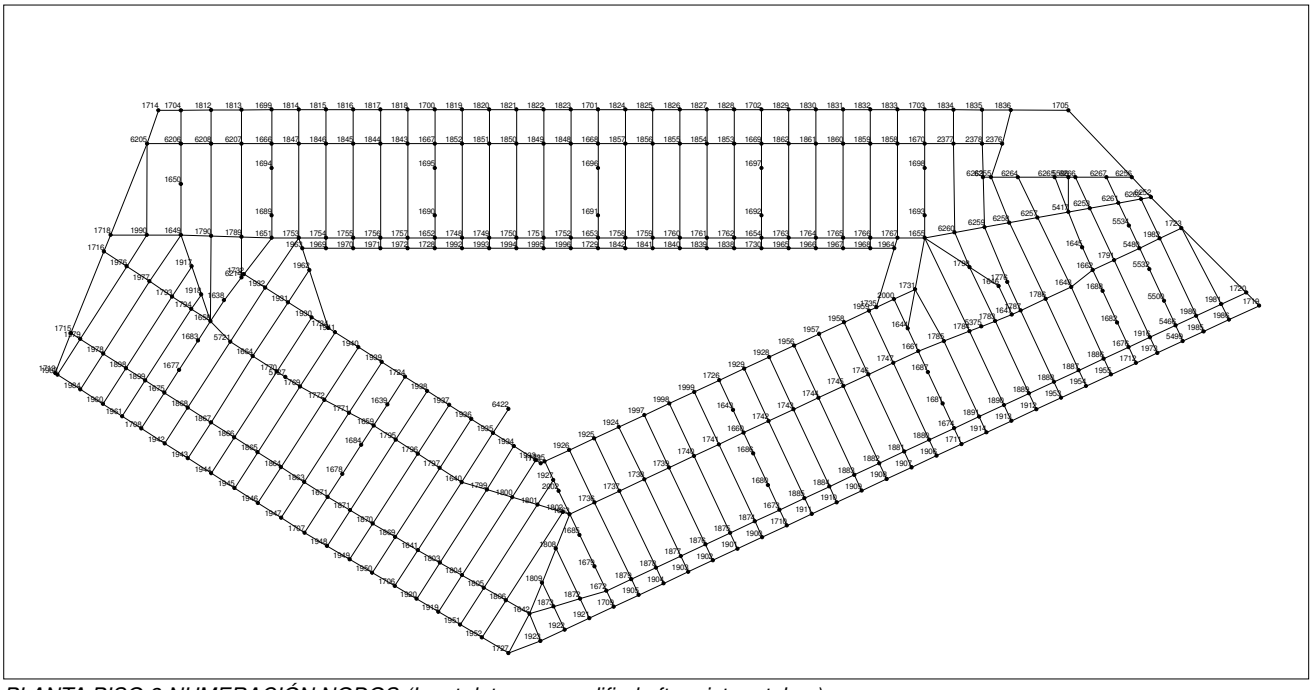
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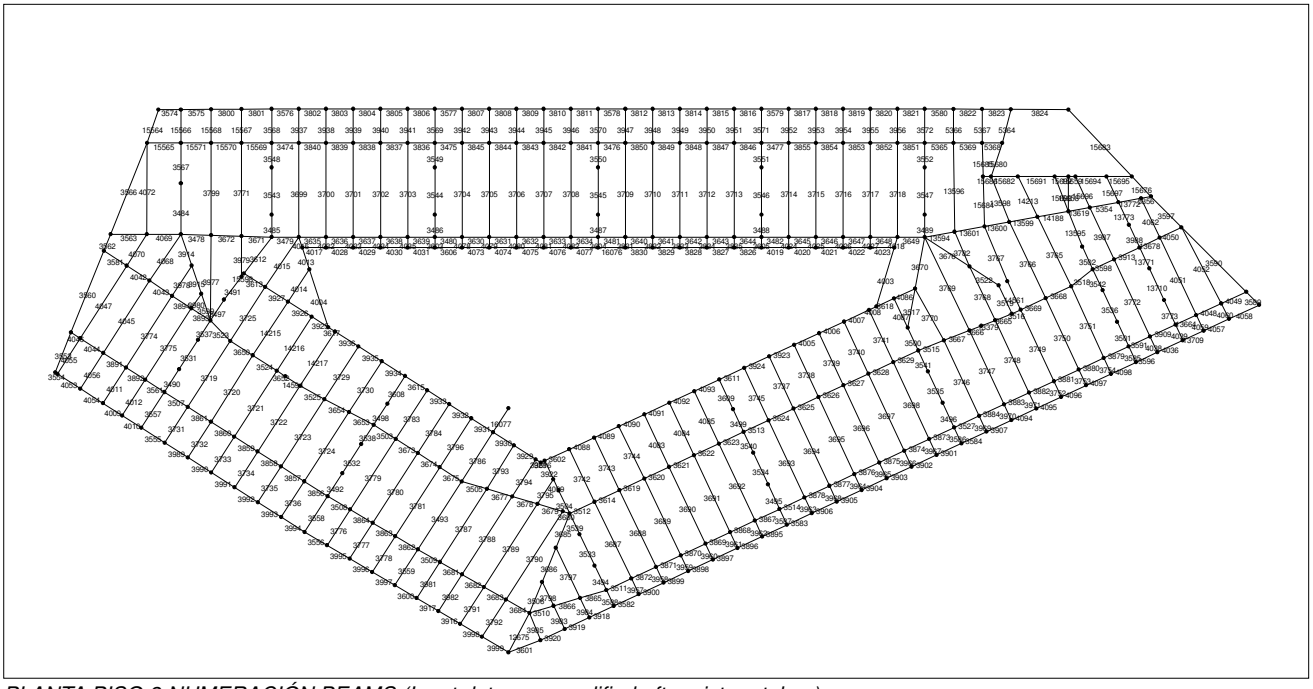
PLANTA PISO 2-NUMERACIÓN NODOS (Input data was modified after picture taken)



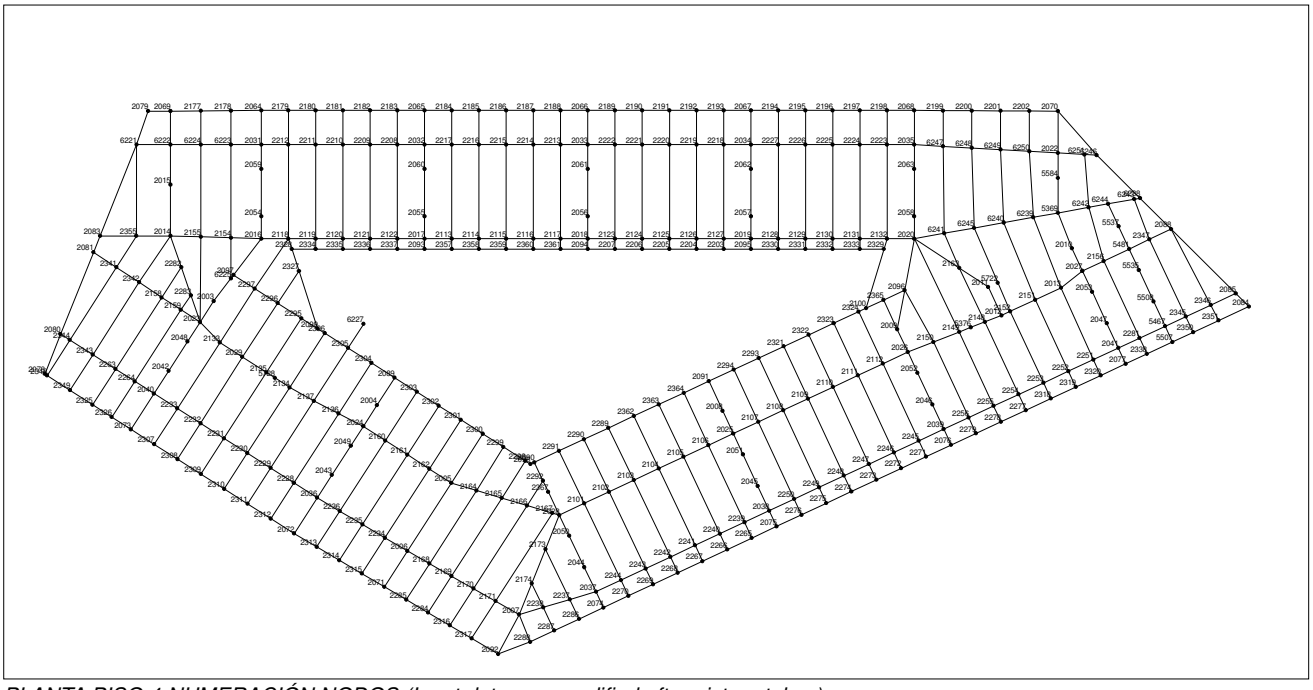
PLANTA PISO 2-NUMERACIÓN BEAMS (Input data was modified after picture taken)



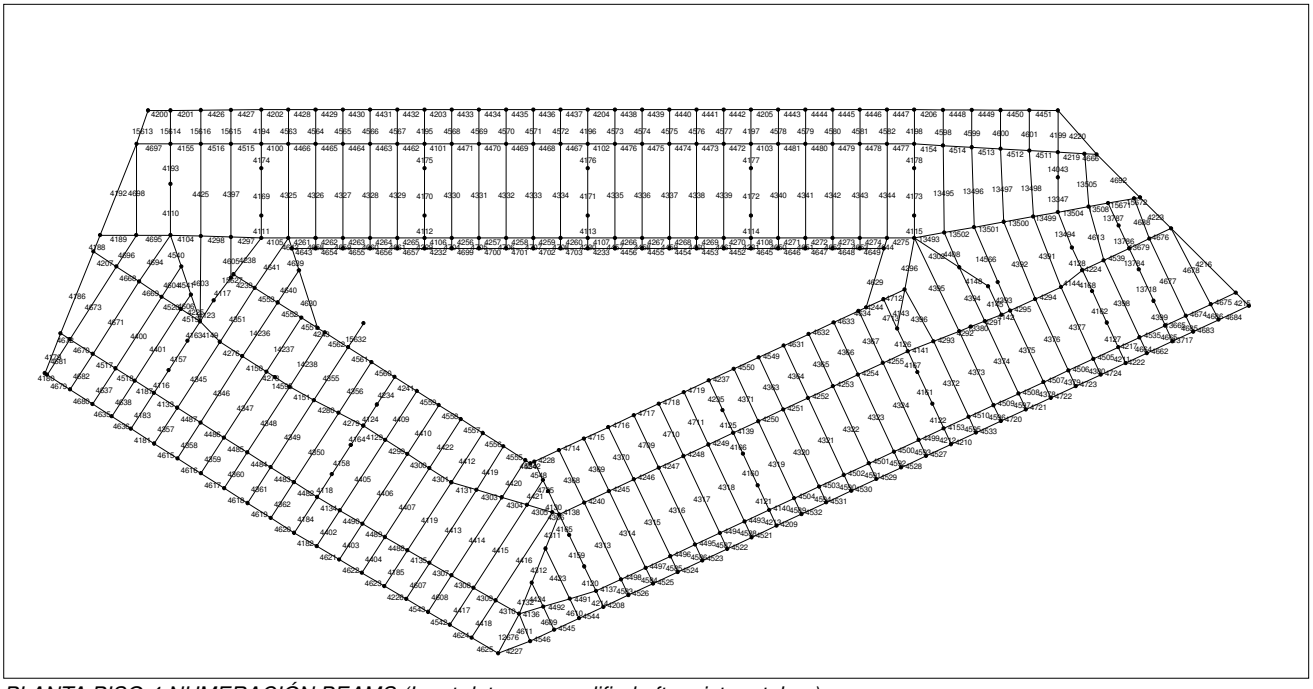
PLANTA PISO 3-NUMERACIÓN NODOS (Input data was modified after picture taken)



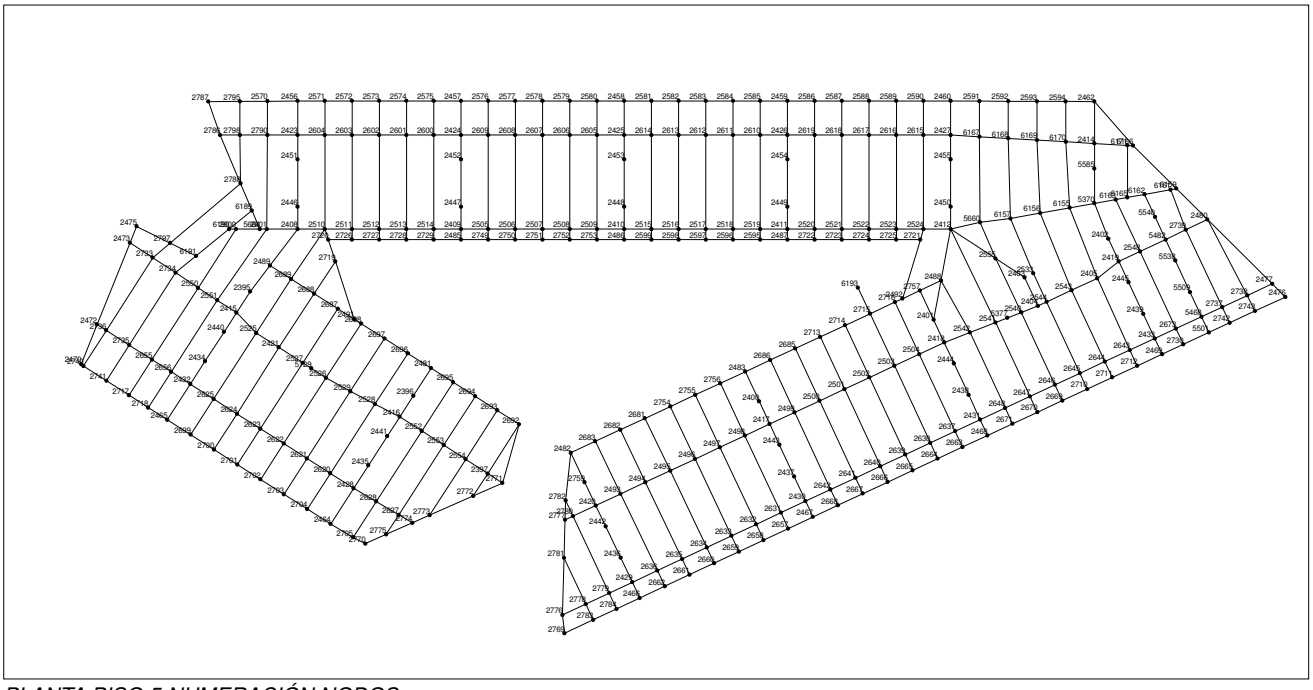
PLANTA PISO 3-NUMERACIÓN BEAMS (Input data was modified after picture taken)



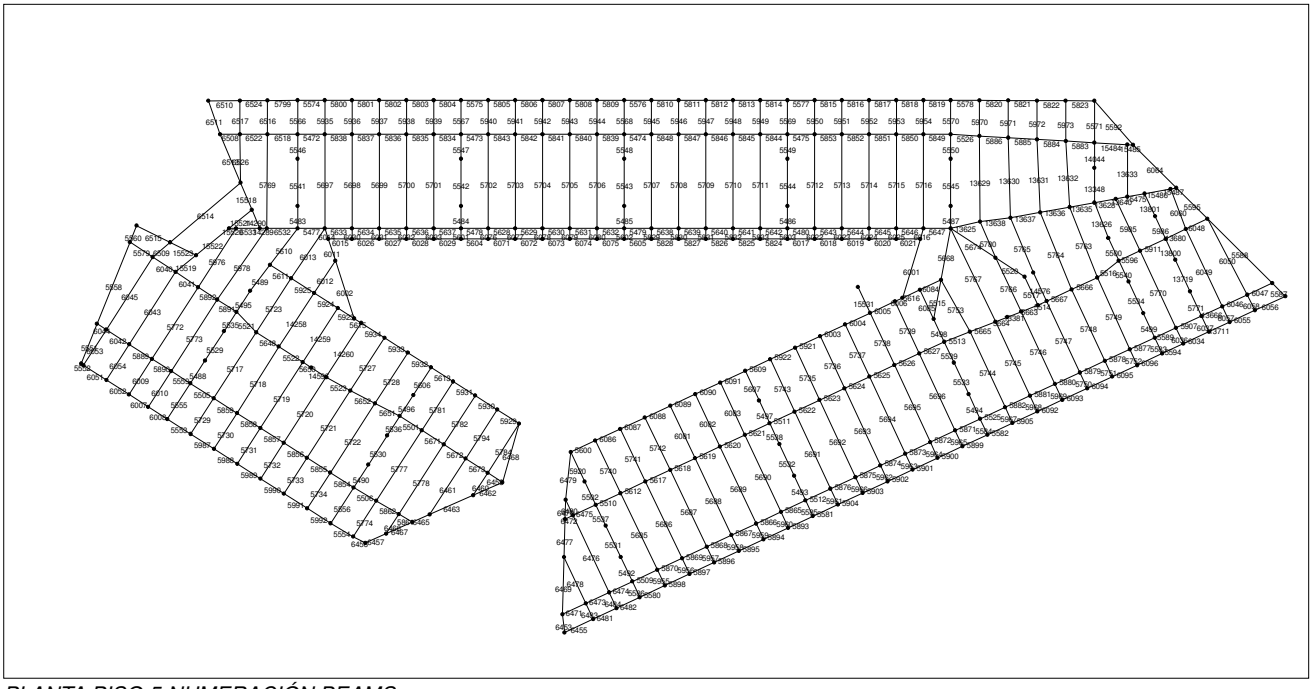
PLANTA PISO 4-NUMERACIÓN NODOS (Input data was modified after picture taken)



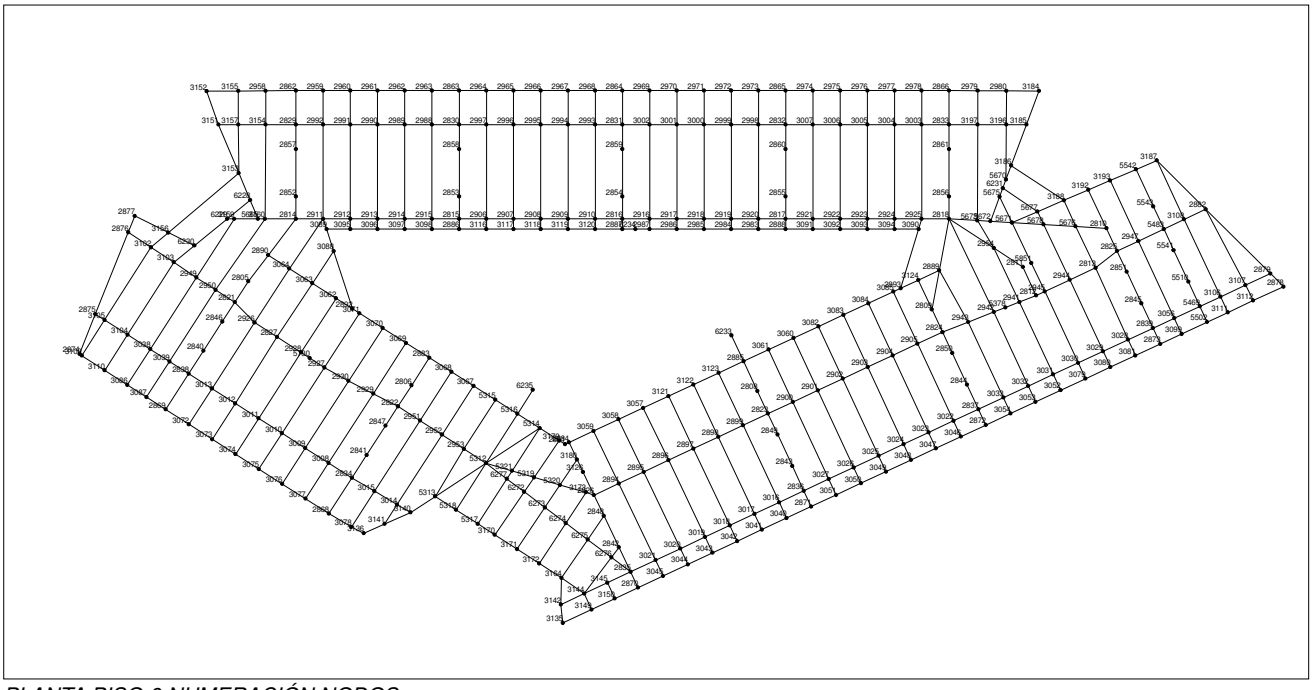
PLANTA PISO 4-NUMERACIÓN BEAMS (Input data was modified after picture taken)



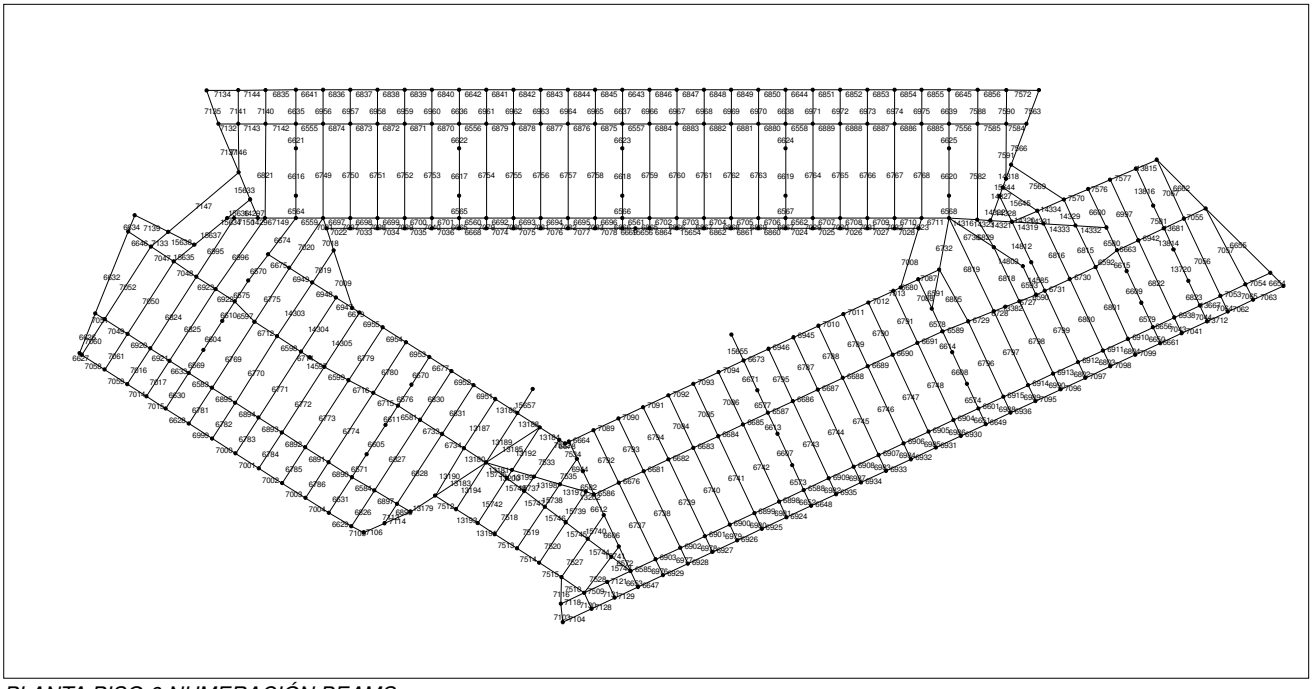
PLANTA PISO 5-NUMERACIÓN NODOS



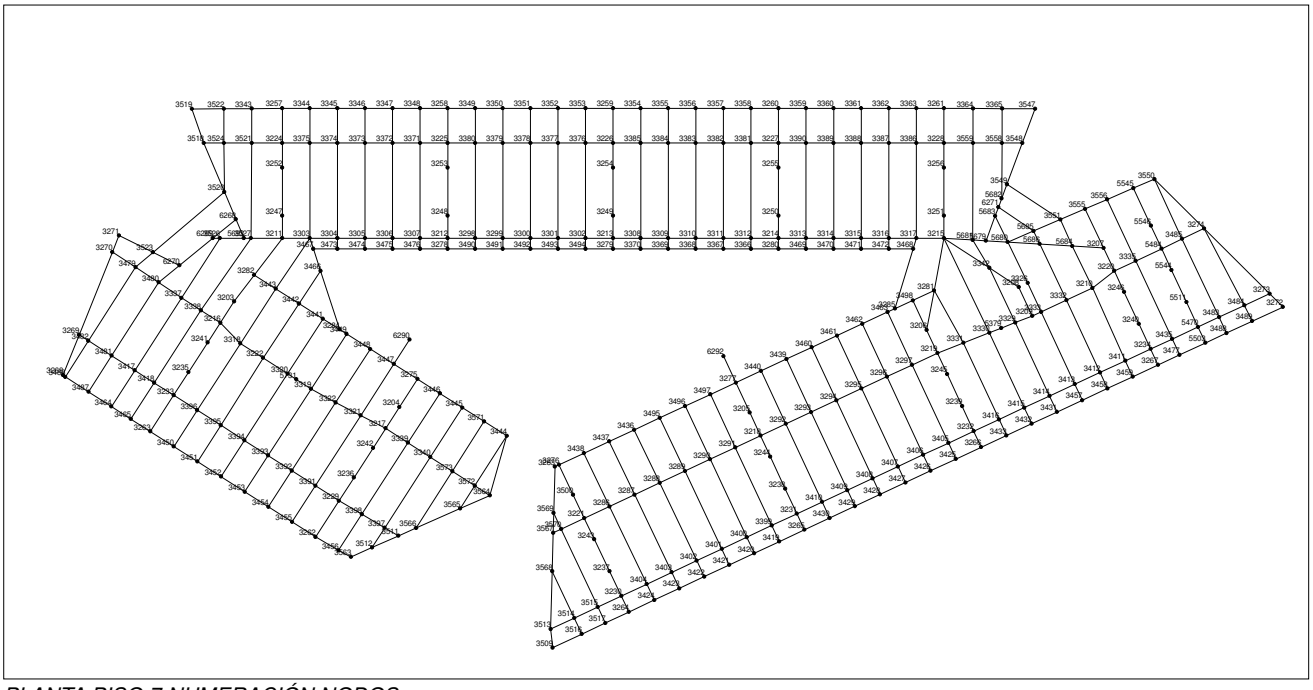
PLANTA PISO 5-NUMERACIÓN BEAMS



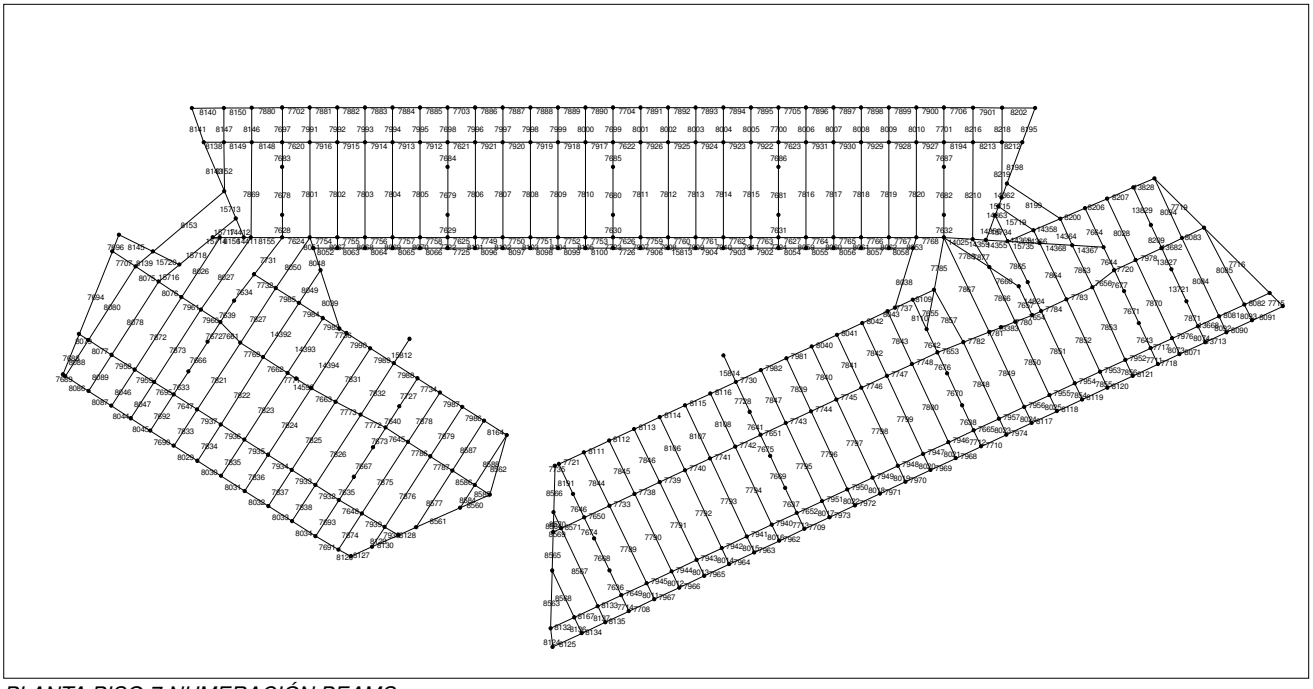
PLANTA PISO 6-NUMERACIÓN NODOS



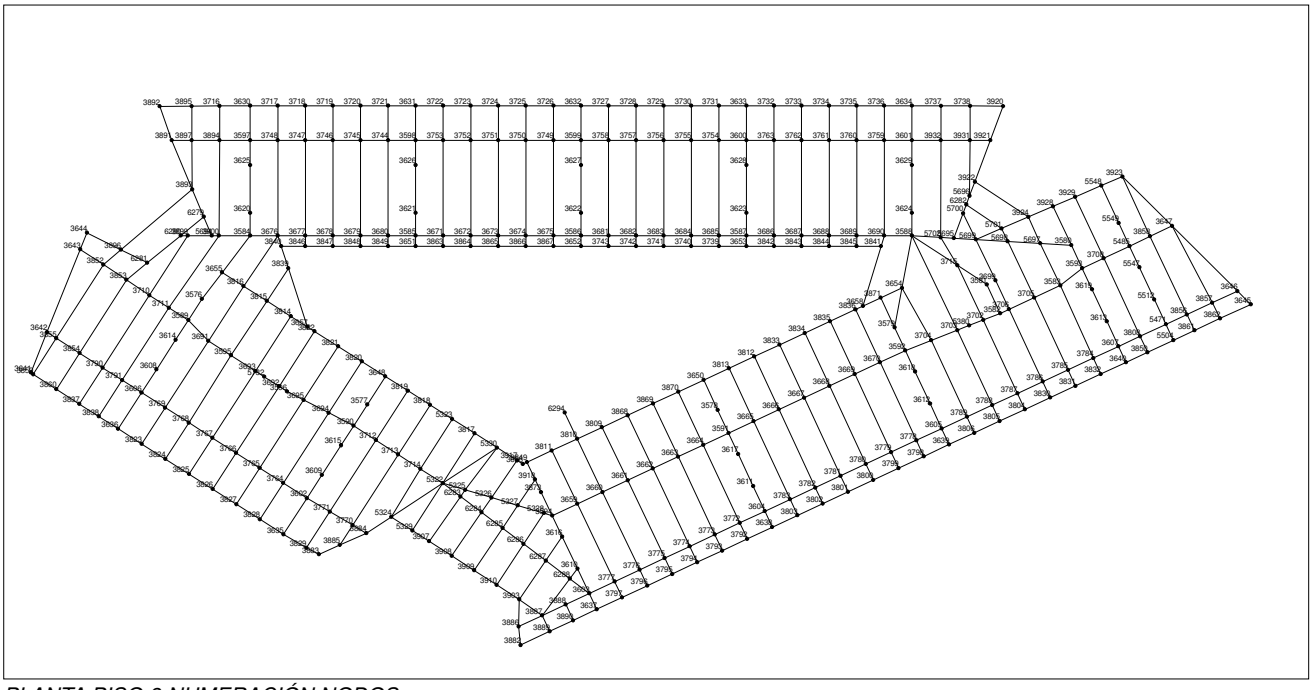
PLANTA PISO 6-NUMERACIÓN BEAMS



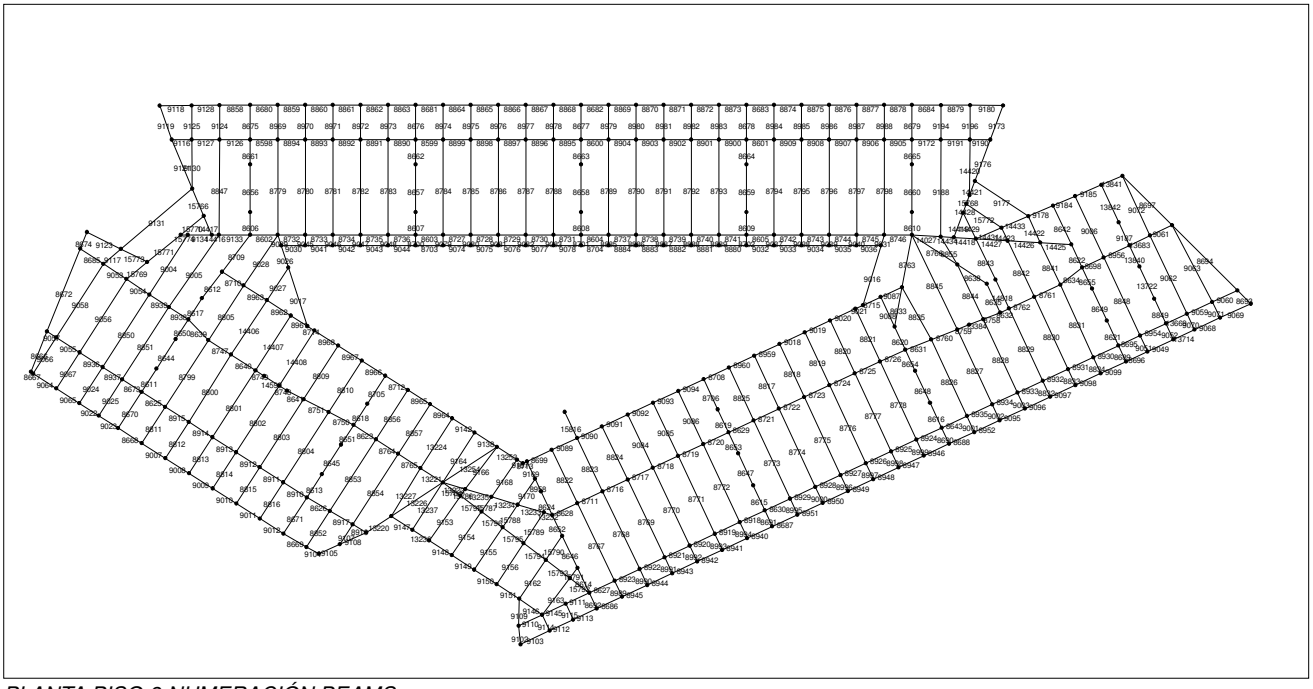
PLANTA PISO 7-NUMERACIÓN NODOS



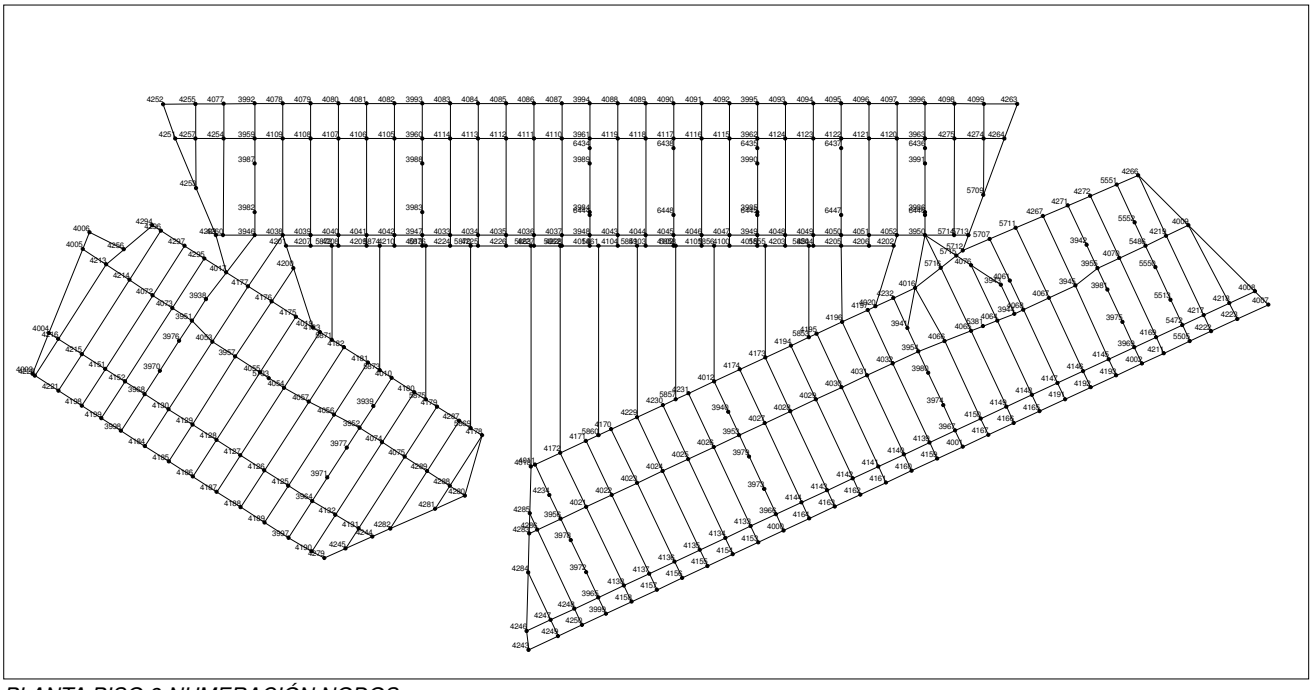
PLANTA PISO 7-NUMERACIÓN BEAMS



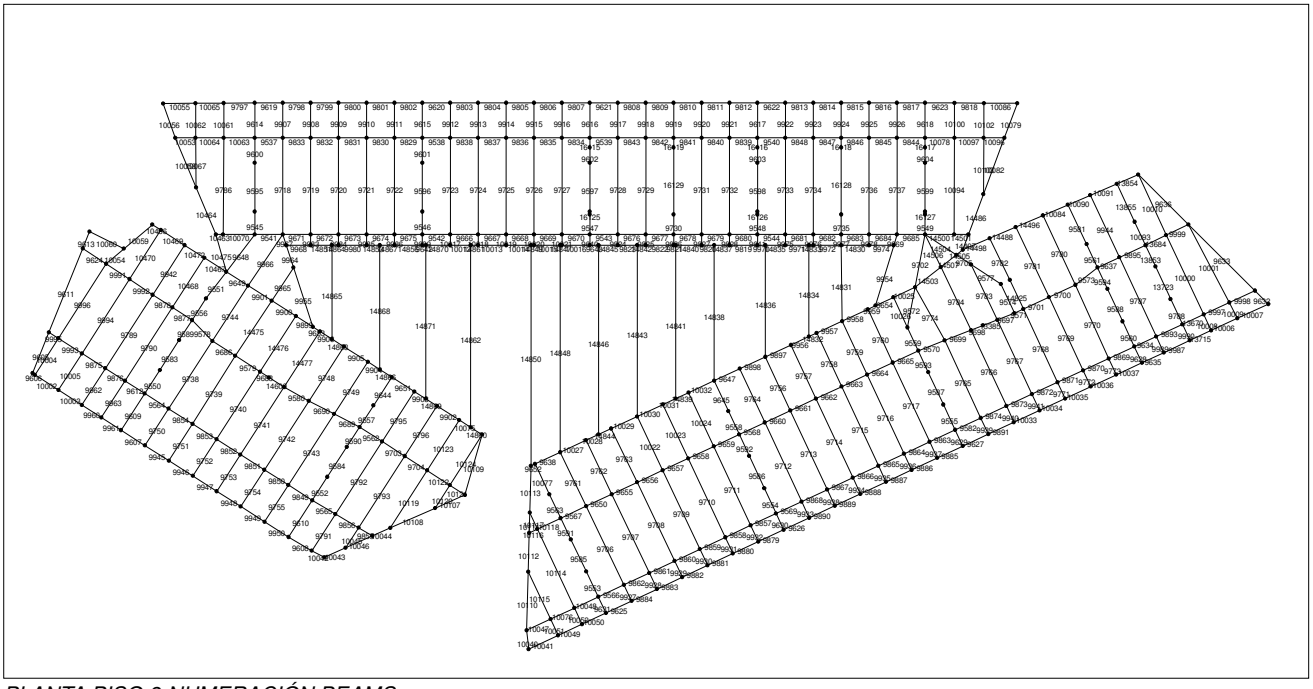
PLANTA PISO 8-NUMERACIÓN NODOS



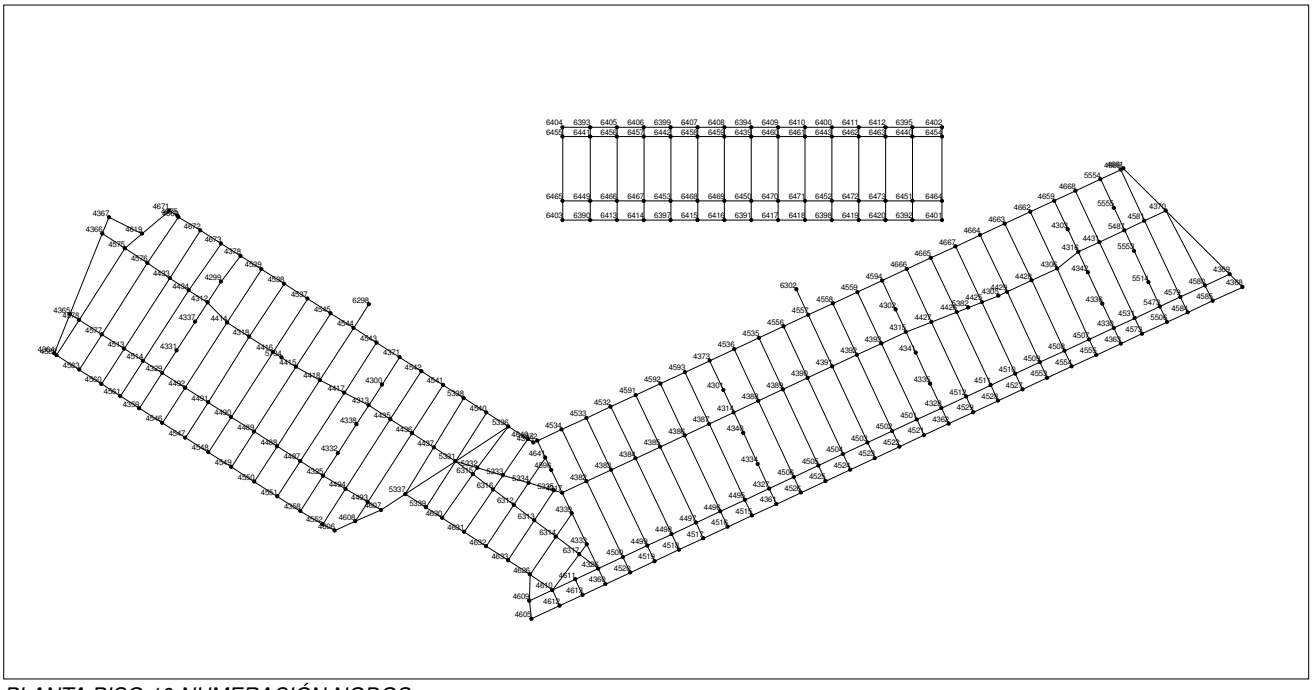
PLANTA PISO 8-NUMERACIÓN BEAMS



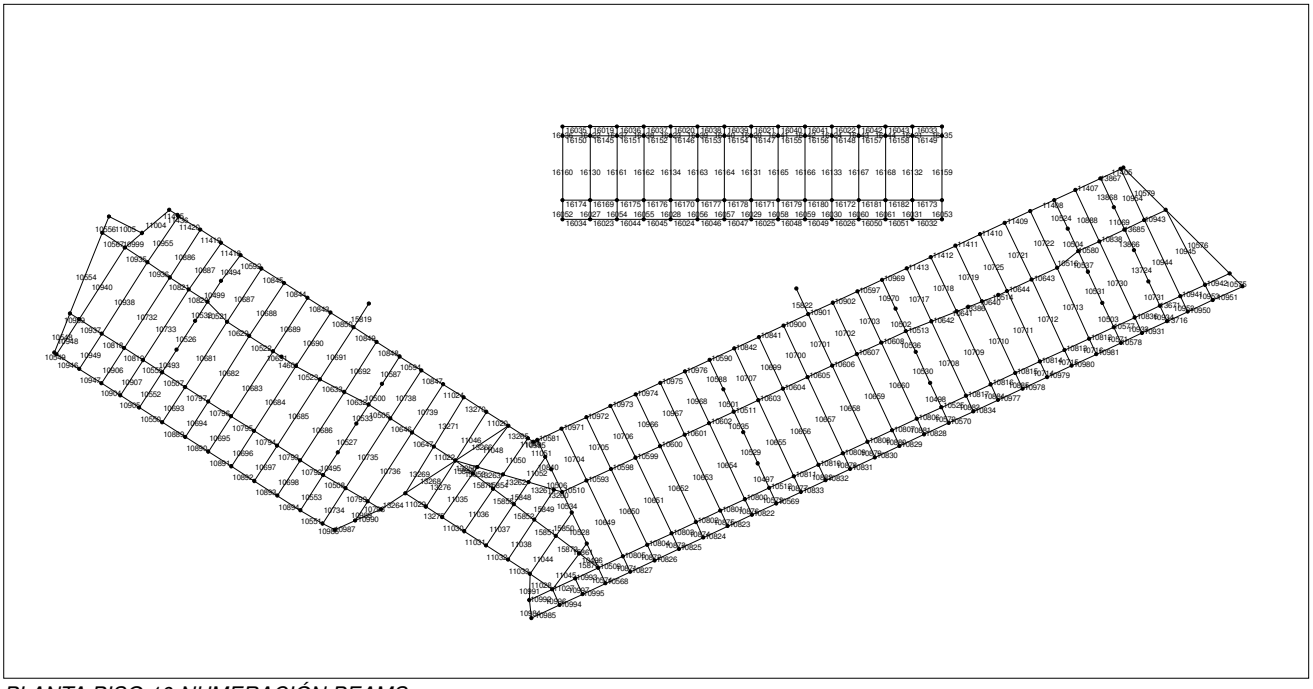
PLANTA PISO 9-NUMERACIÓN NODOS



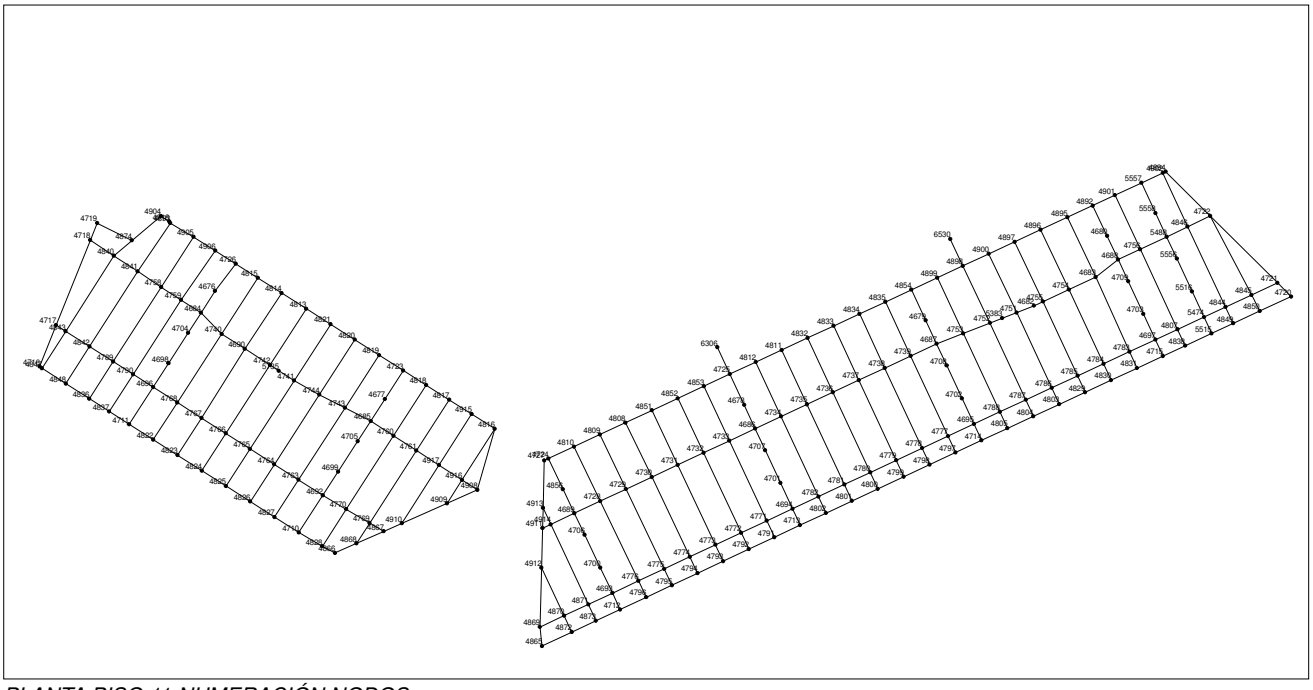
PLANTA PISO 9-NUMERACIÓN BEAMS



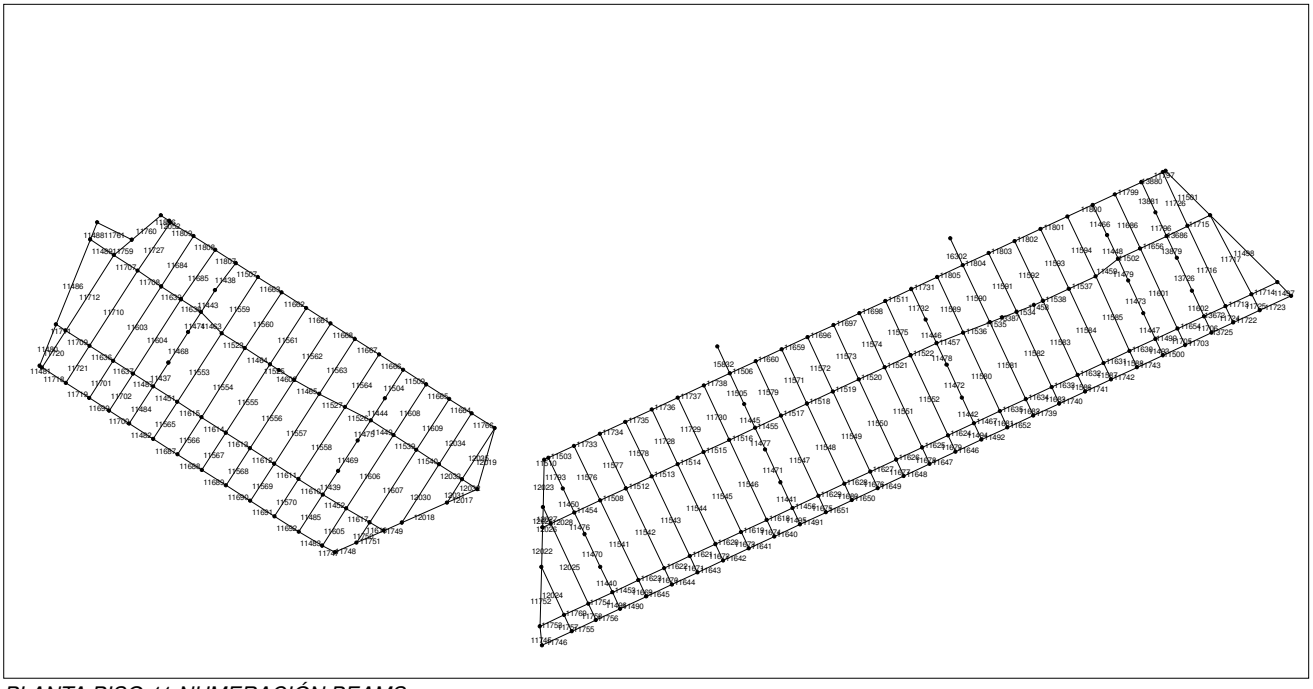
PLANTA PISO 10-NUMERACIÓN NODOS



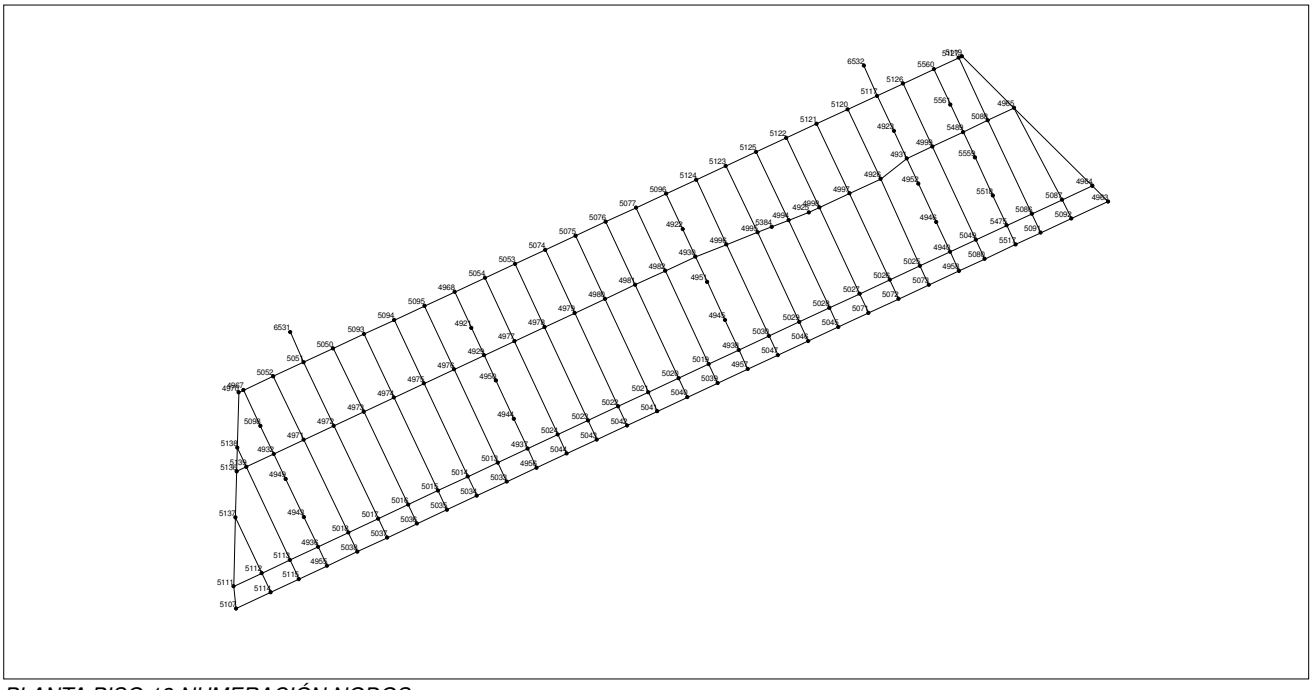
PLANTA PISO 10-NUMERACIÓN BEAMS



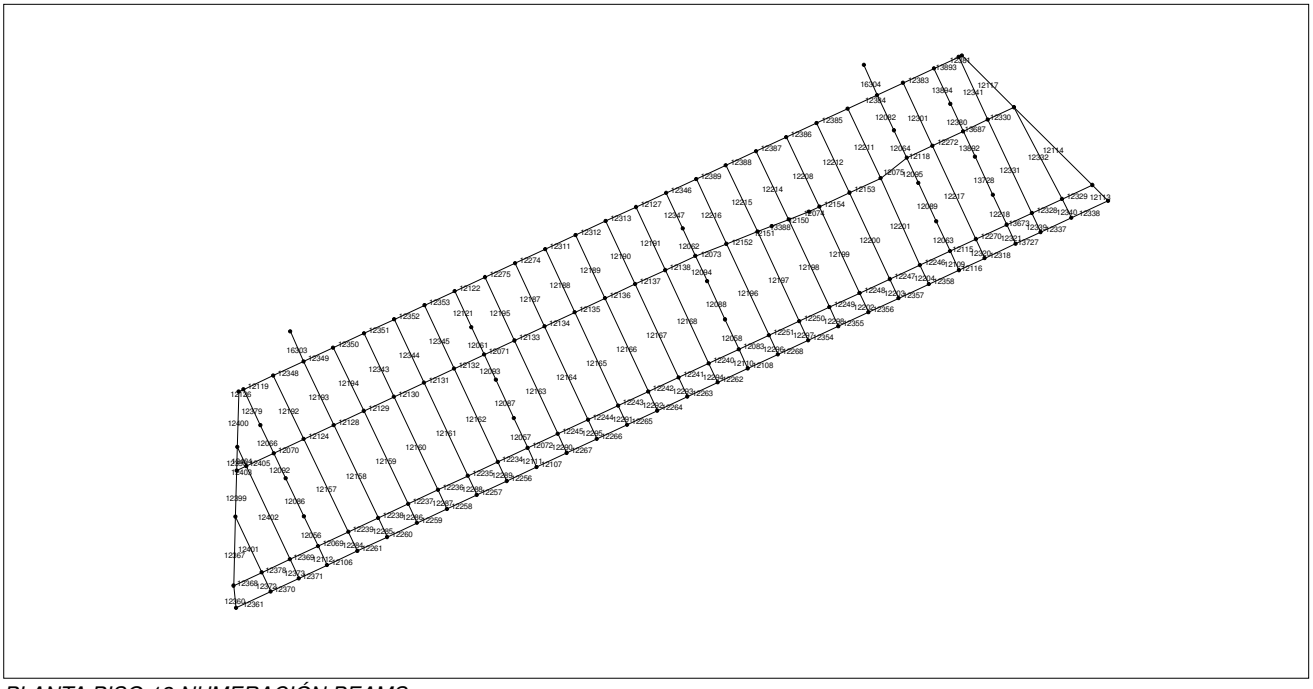
PLANTA PISO 11-NUMERACIÓN NODOS



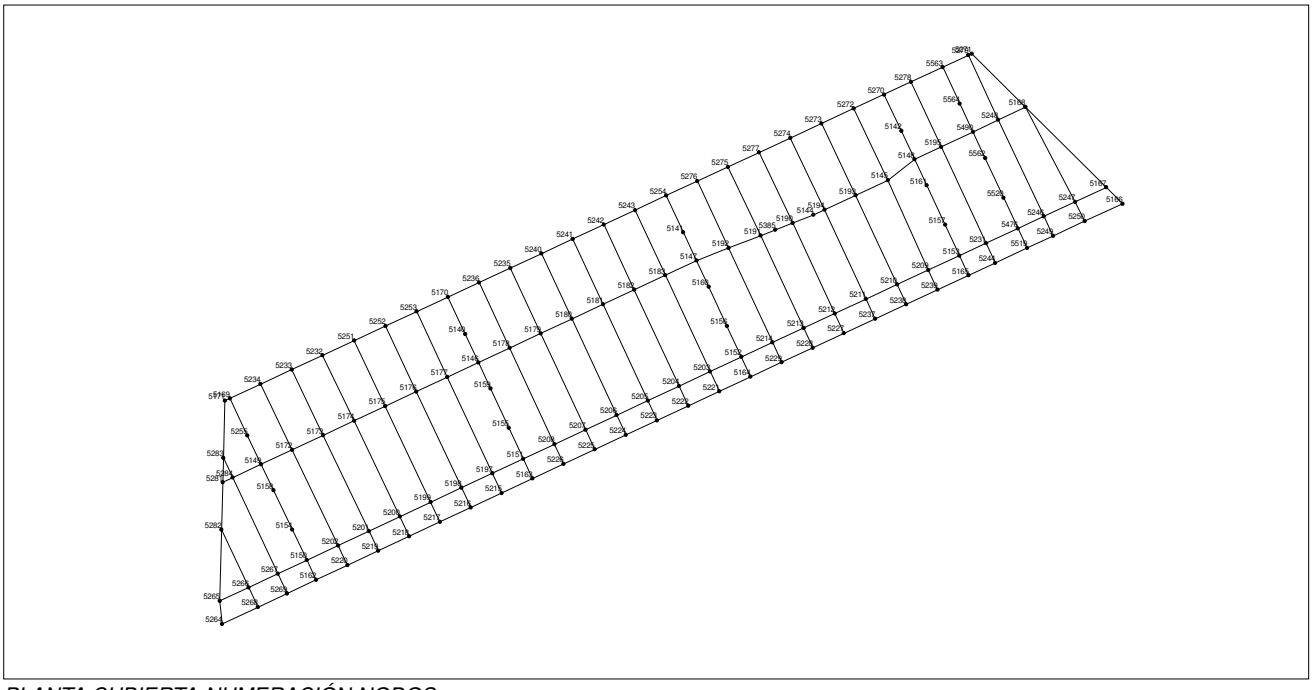
PLANTA PISO 11-NUMERACIÓN BEAMS



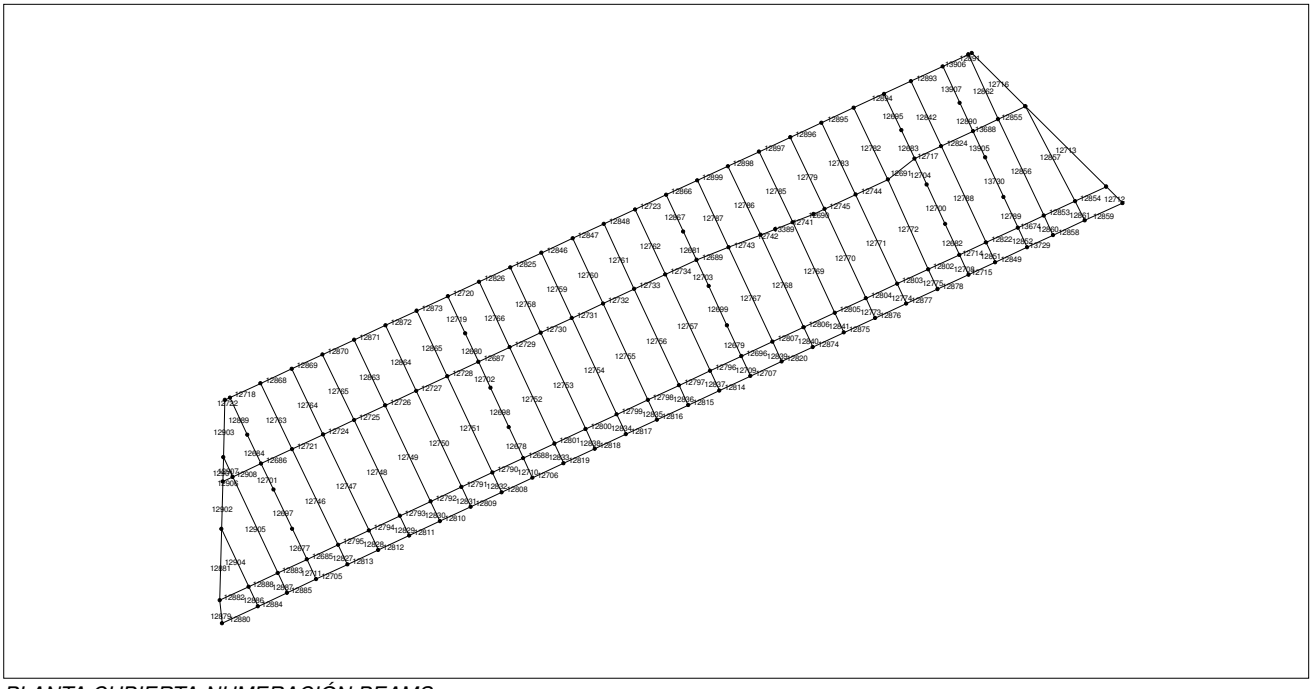
PLANTA PISO 12-NUMERACIÓN NODOS



PLANTA PISO 12-NUMERACIÓN BEAMS



PLANTA CUBIERTA-NUMERACIÓN NODOS



PLANTA CUBIERTA-NUMERACIÓN BEAMS

Nodes

Node	X (m)	Y (m)	Z (m)
1	0.000	-5.250	0.000
2	-3.520	-5.250	5.460
5	11.700	-5.250	7.474
6	8.180	-5.250	12.934
7	17.030	-5.250	13.054
8	13.890	-5.250	17.934
9	21.890	-5.250	22.484
10	23.970	-5.250	13.694
11	26.810	-5.250	19.584
12	36.480	-5.250	7.874
13	39.220	-5.250	13.764
14	48.990	-5.250	2.024
15	61.500	-5.250	-3.796
16	51.730	-5.250	7.914
17	64.240	-5.250	2.094
18	55.510	-5.250	-1.016
19	56.460	-5.250	1.024
20	60.720	-5.250	-0.956
21	-3.090	-5.250	-4.680
22	-3.090	-5.250	-8.350
23	3.410	-5.250	-4.480
24	3.410	-5.250	-9.180
25	15.110	-5.250	-4.480
26	15.110	-5.250	-9.180
27	26.810	-5.250	-4.480
28	26.810	-5.250	-9.180
29	38.510	-5.250	-4.480
30	38.510	-5.250	-9.180
31	50.210	-5.250	-4.480
32	50.210	-5.250	-9.180
34	60.510	-5.250	-10.630

Nodes Cont...

Node	X (m)	Y (m)	Z (m)
35	-3.090	-5.250	-19.730
37	3.410	-5.250	-19.730
38	15.110	-5.250	-19.730
39	26.810	-5.250	-19.730
40	38.510	-5.250	-19.730
41	50.210	-5.250	-19.730
44	-4.240	-5.250	-19.730
45	28.050	-5.250	22.254
46	40.460	-5.250	16.434
47	52.970	-5.250	10.584
48	64.850	-5.250	3.404
52	12.290	-5.250	20.414
53	6.580	-5.250	15.414
54	-4.305	-5.250	6.680
60	0.000	-1.050	0.000
61	-3.520	-1.050	5.460
64	11.700	-1.050	7.474
65	8.180	-1.050	12.934
66	17.030	-1.050	13.054
67	13.890	-1.050	17.934
68	21.890	-1.050	22.484
69	23.970	-1.050	13.694
70	26.810	-1.050	19.584
71	36.480	-1.050	7.874
72	39.220	-1.050	13.764
73	48.990	-1.050	2.024
74	61.500	-1.050	-3.796
75	51.730	-1.050	7.914
76	64.240	-1.050	2.094
77	55.510	-1.050	-1.016
78	56.460	-1.050	1.024
79	60.720	-1.050	-0.956
80	-3.090	-1.050	-4.680
81	-3.090	-1.050	-8.350
82	3.410	-1.050	-4.480
83	3.410	-1.050	-9.180
84	15.110	-1.050	-4.480
85	15.110	-1.050	-9.180
86	26.810	-1.050	-4.480
87	26.810	-1.050	-9.180
88	38.510	-1.050	-4.480
89	38.510	-1.050	-9.180
90	50.210	-1.050	-4.480
91	50.210	-1.050	-9.180
93	60.510	-1.050	-10.630
94	-3.090	-1.050	-19.730
96	3.410	-1.050	-19.730
97	15.110	-1.050	-19.730
98	26.810	-1.050	-19.730
99	38.510	-1.050	-19.730
100	50.210	-1.050	-19.730
101	-4.240	-1.050	-4.680
102	-4.240	-1.050	-8.350
103	-4.240	-1.050	-19.730

Nodes Cont...

Node	X (m)	Y (m)	Z (m)
104	28.050	-1.050	22.254
105	40.460	-1.050	16.434
106	52.970	-1.050	10.584
107	64.850	-1.050	3.404
111	12.290	-1.050	20.414
112	6.580	-1.050	15.414
113	-4.305	-1.050	6.680
119	21.710	-5.250	25.164
120	21.710	-1.050	25.164
121	-0.973	-1.050	1.510
122	10.727	-1.050	8.984
123	37.238	-1.050	9.503
124	49.748	-1.050	3.653
125	62.258	-1.050	-2.167
126	24.769	-1.050	15.350
127	14.030	-5.250	3.824
128	14.030	-1.050	3.824
129	25.620	-5.250	2.964
130	25.620	-1.050	2.964
131	37.430	-5.250	2.149
132	37.430	-1.050	2.149
133	2.050	-1.050	4.000
137	-5.093	-1.050	-1.140
138	-4.240	-1.050	-2.648
141	3.410	-1.050	-9.680
142	15.110	-1.050	-9.680
143	26.810	-1.050	-9.680
144	38.510	-1.050	-9.680
145	50.210	-1.050	-9.680
146	0.000	2.950	0.000
148	11.700	2.950	7.474
150	17.030	2.950	13.054
151	13.890	2.950	17.934
152	21.890	2.950	22.484
153	23.970	2.950	13.694
155	36.480	2.950	7.874
157	48.990	2.950	2.024
158	61.500	2.950	-3.796
161	55.510	2.950	-1.016
162	56.460	2.950	1.024
163	60.720	2.950	-0.956
164	-3.090	2.950	-4.680
166	3.410	2.950	-4.480
168	15.110	2.950	-4.480
170	26.810	2.950	-4.480
172	38.510	2.950	-4.480
174	50.210	2.950	-4.480
188	28.050	2.950	22.254
189	40.460	2.950	16.434
190	52.970	2.950	10.584
191	64.850	2.950	3.404
195	12.290	2.950	20.414
196	6.580	2.950	15.414
197	-4.305	2.950	6.680

Nodes Cont...

Node	X (m)	Y (m)	Z (m)
202	21.710	2.950	25.164
203	-0.973	2.950	1.510
204	10.727	2.950	8.984
205	37.238	2.950	9.503
206	49.748	2.950	3.653
207	62.258	2.950	-2.167
208	24.769	2.950	15.350
209	14.030	2.950	3.824
210	25.620	2.950	2.964
211	37.430	2.950	2.149
212	2.050	2.950	4.000
222	3.410	2.950	-10.380
223	15.110	2.950	-10.380
224	26.810	2.950	-10.380
225	38.510	2.950	-10.380
226	50.210	2.950	-10.380
227	-3.709	2.950	5.754
228	7.990	2.950	13.228
230	26.957	2.950	19.901
231	39.367	2.950	14.081
232	51.877	2.950	8.231
233	64.388	2.950	2.411
240	0.000	8.750	0.000
242	11.700	8.750	7.474
244	17.030	8.750	13.054
245	13.890	8.750	17.934
246	21.890	8.750	22.484
249	36.480	8.750	7.874
251	48.990	8.750	2.024
252	61.500	8.750	-3.796
255	55.510	8.750	-1.016
256	56.460	8.750	1.024
257	60.720	8.750	-0.956
258	-3.090	8.750	-4.680
259	-3.090	8.750	-8.350
260	3.410	8.750	-4.480
262	15.110	8.750	-4.480
264	26.810	8.750	-4.480
266	38.510	8.750	-4.480
268	50.210	8.750	-4.480
271	60.510	8.750	-10.630
286	-0.973	8.750	1.510
287	10.727	8.750	8.984
288	37.238	8.750	9.503
289	49.748	8.750	3.653
290	62.258	8.750	-2.167
291	24.769	8.750	15.350
295	2.050	8.750	4.000
300	3.410	8.750	-11.230
301	15.110	8.750	-11.230
302	26.810	8.750	-11.230
303	38.510	8.750	-11.230
304	50.210	8.750	-11.230
317	7.421	8.750	14.110

Nodes Cont...

Node	X (m)	Y (m)	Z (m)
319	27.400	8.750	20.854
320	39.810	8.750	15.034
321	52.320	8.750	9.184
322	-4.278	8.750	6.637
323	64.831	8.750	3.363
324	-3.221	8.750	4.998
325	8.478	8.750	12.472
326	26.559	8.750	19.094
327	38.987	8.750	13.266
328	51.498	8.750	7.416
329	64.008	8.750	1.595
330	-1.867	8.750	2.897
331	9.833	8.750	10.370
332	25.480	8.750	16.839
333	37.933	8.750	10.999
334	50.443	8.750	5.149
335	62.954	8.750	-0.671
336	3.410	8.750	-6.080
337	15.110	8.750	-6.080
338	26.810	8.750	-6.080
339	38.510	8.750	-6.080
340	50.210	8.750	-6.080
341	3.410	8.750	-9.480
342	15.110	8.750	-9.480
343	26.810	8.750	-9.480
344	38.510	8.750	-9.480
345	50.210	8.750	-9.480
346	3.410	2.950	-6.080
347	15.110	2.950	-6.080
348	26.810	2.950	-6.080
349	38.510	2.950	-6.080
350	50.210	2.950	-6.080
352	15.110	2.950	-8.360
353	26.810	2.950	-8.360
354	38.510	2.950	-8.360
355	50.210	2.950	-8.360
356	3.410	-1.050	-6.080
358	3.410	-5.250	-6.080
359	15.110	-1.050	-6.080
360	26.810	-1.050	-6.080
361	38.510	-1.050	-6.080
362	50.210	-1.050	-6.080
363	15.110	-5.250	-6.080
364	26.810	-5.250	-6.080
365	38.510	-5.250	-6.080
366	50.210	-5.250	-6.080
381	37.238	-5.250	9.503
382	49.748	-5.250	3.653
383	62.258	-5.250	-2.167
384	24.769	-5.250	15.350
385	26.559	2.950	19.094
386	25.480	2.950	16.839
387	26.559	-1.050	19.094
388	25.480	-1.050	16.839

Nodes Cont...

Node	X (m)	Y (m)	Z (m)
389	26.559	-5.200	19.094
390	25.480	-5.250	16.839
391	38.988	2.950	13.265
392	51.498	2.950	7.415
393	64.008	2.950	1.595
394	37.933	2.950	10.999
395	50.444	2.950	5.149
396	62.954	2.950	-0.671
397	38.988	-1.050	13.265
398	51.498	-1.050	7.415
399	64.008	-1.050	1.595
400	37.933	-1.050	10.999
401	50.444	-1.050	5.149
402	62.953	-1.050	-0.671
403	38.988	-5.250	13.265
404	51.498	-5.250	7.415
405	64.008	-5.250	1.595
406	37.933	-5.250	10.999
407	50.444	-5.250	5.149
408	62.953	-5.250	-0.671
409	26.550	-1.050	14.515
410	28.331	-1.050	13.680
411	30.112	-1.050	12.844
412	31.894	-1.050	12.009
413	33.675	-1.050	11.173
414	35.456	-1.050	10.338
415	28.583	-1.050	18.753
416	30.356	-1.050	17.921
417	32.129	-1.050	17.090
418	33.901	-1.050	16.258
419	35.674	-1.050	15.427
420	37.447	-1.050	14.595
427	41.007	-1.050	12.928
428	42.794	-1.050	12.093
429	44.581	-1.050	11.257
430	46.369	-1.050	10.421
431	48.156	-1.050	9.585
432	49.943	-1.050	8.750
433	53.517	-1.050	7.083
434	55.304	-1.050	6.251
435	57.091	-1.050	5.420
436	58.879	-1.050	4.588
437	60.666	-1.050	3.757
438	62.453	-1.050	2.925
439	17.060	-1.050	-4.480
440	19.010	-1.050	-4.480
441	20.960	-1.050	-4.480
442	22.910	-1.050	-4.480
443	24.860	-1.050	-4.480
444	5.360	-1.050	-19.730
445	7.310	-1.050	-19.730
446	9.260	-1.050	-19.730
447	11.210	-1.050	-19.730
448	13.160	-1.050	-19.730

Nodes Cont...

Node	X (m)	Y (m)	Z (m)
449	28.760	-1.050	-19.730
450	30.710	-1.050	-19.730
451	32.660	-1.050	-19.730
452	34.610	-1.050	-19.730
453	36.560	-1.050	-19.730
454	40.460	-1.050	-19.730
455	42.410	-1.050	-19.730
456	44.360	-1.050	-19.730
457	46.310	-1.050	-19.730
458	48.260	-1.050	-19.730
459	5.360	-1.050	-4.480
460	7.310	-1.050	-4.480
461	9.260	-1.050	-4.480
462	11.210	-1.050	-4.480
463	13.160	-1.050	-4.480
464	28.760	-1.050	-4.480
465	30.710	-1.050	-4.480
466	32.660	-1.050	-4.480
467	34.610	-1.050	-4.480
468	36.560	-1.050	-4.480
469	40.460	-1.050	-4.480
470	42.410	-1.050	-4.480
471	44.360	-1.050	-4.480
472	46.310	-1.050	-4.480
473	48.260	-1.050	-4.480
474	17.060	-1.050	-19.730
475	19.010	-1.050	-19.730
476	20.960	-1.050	-19.730
477	22.910	-1.050	-19.730
478	24.860	-1.050	-19.730
479	13.160	-1.050	-9.180
480	11.210	-1.050	-9.180
481	9.260	-1.050	-9.180
482	7.310	-1.050	-9.180
483	5.360	-1.050	-9.180
484	24.860	-1.050	-9.180
485	22.910	-1.050	-9.180
486	20.960	-1.050	-9.180
487	19.010	-1.050	-9.180
488	17.060	-1.050	-9.180
489	36.560	-1.050	-9.180
490	34.610	-1.050	-9.180
491	32.660	-1.050	-9.180
492	30.710	-1.050	-9.180
493	28.760	-1.050	-9.180
494	48.260	-1.050	-9.180
495	46.310	-1.050	-9.180
496	44.360	-1.050	-9.180
497	42.410	-1.050	-9.180
498	40.460	-1.050	-9.180
499	29.856	-1.050	21.407
500	31.624	-1.050	20.578
501	33.391	-1.050	19.749
502	35.159	-1.050	18.920

Nodes Cont...

Node	X (m)	Y (m)	Z (m)
503	36.926	-1.050	18.091
504	38.694	-1.050	17.262
505	42.249	-1.050	15.597
506	45.823	-1.050	13.926
507	47.610	-1.050	13.090
508	49.397	-1.050	12.255
509	51.185	-1.050	11.419
510	44.036	-1.050	14.762
523	-1.849	-1.050	6.528
524	-0.177	-1.050	7.595
525	1.494	-1.050	8.663
526	3.166	-1.050	9.731
527	4.837	-1.050	10.799
528	6.509	-1.050	11.866
536	5.447	-1.050	6.193
537	3.780	-1.050	5.117
539	8.955	-1.050	8.072
540	7.183	-1.050	7.159
541	-2.751	-1.050	7.927
542	-1.195	-1.050	9.175
543	0.360	-1.050	10.423
544	1.915	-1.050	11.671
545	3.470	-1.050	12.919
546	5.026	-1.050	14.167
547	4.632	-1.050	-3.525
548	6.201	-1.050	-2.298
549	7.770	-1.050	-1.071
550	9.339	-1.050	0.156
551	10.908	-1.050	1.383
552	12.476	-1.050	2.609
568	24.562	-1.050	10.372
569	25.158	-1.050	7.031
577	54.668	-1.050	9.557
578	56.365	-1.050	8.532
579	58.062	-1.050	7.506
580	59.759	-1.050	6.481
581	61.456	-1.050	5.455
582	63.153	-1.050	4.430
583	52.270	-1.050	-19.730
584	54.330	-1.050	-19.730
585	56.390	-1.050	-19.730
586	58.450	-1.050	-19.730
599	55.264	-1.050	1.492
600	53.425	-1.050	2.212
601	51.586	-1.050	2.932
603	58.873	-1.050	-0.097
604	57.085	-1.050	0.733
605	49.615	-1.050	-1.306
606	-0.923	-1.050	-19.730
607	1.243	-1.050	-19.730
612	1.243	-1.050	-4.547
613	-0.923	-1.050	-4.613
618	65.767	-1.050	1.384
620	66.377	-1.050	2.694

Nodes Cont...

Node	X (m)	Y (m)	Z (m)
622	63.783	-1.050	-2.877
637	12.302	-1.050	10.001
638	13.878	-1.050	11.019
639	15.454	-1.050	12.036
640	12.462	-1.050	16.684
641	11.035	-1.050	15.434
642	9.607	-1.050	14.184
643	8.008	-1.050	16.665
644	9.436	-1.050	17.915
645	10.865	-1.050	19.166
651	20.961	-1.050	24.786
662	18.840	-1.050	13.591
663	20.649	-1.050	14.128
664	22.459	-1.050	14.665
665	24.269	-1.050	15.202
666	15.468	-1.050	18.831
667	17.046	-1.050	19.729
668	18.624	-1.050	20.626
669	20.201	-1.050	21.524
670	13.921	-1.050	21.236
671	15.548	-1.050	22.057
672	17.175	-1.050	22.877
673	18.803	-1.050	23.698
674	24.310	-1.050	11.789
685	24.529	-1.050	23.870
686	26.309	-1.050	23.053
687	25.117	-1.050	20.582
688	23.425	-1.050	21.579
689	23.778	-1.050	17.805
690	22.788	-1.050	20.259
691	22.750	-1.050	24.687
692	-3.222	2.950	4.998
693	-1.867	2.950	2.897
694	-3.222	-1.050	4.998
695	-1.867	-1.050	2.897
696	-3.222	-5.250	4.998
697	-1.867	-5.250	2.897
698	-0.973	-5.250	1.510
699	8.478	2.950	12.472
700	9.833	2.950	10.371
701	8.478	-1.050	12.472
702	9.833	-1.050	10.371
703	10.727	-5.250	8.984
704	8.478	-5.250	12.472
705	9.833	-5.250	10.371
706	5.360	-5.250	-19.730
707	7.310	-5.250	-19.730
708	9.260	-5.250	-19.730
709	11.210	-5.250	-19.730
710	13.160	-5.250	-19.730
711	28.760	-5.250	-19.730
712	30.710	-5.250	-19.730
713	32.660	-5.250	-19.730
714	34.610	-5.250	-19.730

Nodes Cont...

Node	X (m)	Y (m)	Z (m)
715	36.560	-5.250	-19.730
716	40.460	-5.250	-19.730
717	42.410	-5.250	-19.730
718	44.360	-5.250	-19.730
719	46.310	-5.250	-19.730
720	48.260	-5.250	-19.730
721	17.060	-5.250	-19.730
722	19.010	-5.250	-19.730
723	20.960	-5.250	-19.730
724	22.910	-5.250	-19.730
725	24.860	-5.250	-19.730
726	29.856	-5.250	21.407
727	31.624	-5.250	20.578
728	33.391	-5.250	19.749
729	35.159	-5.250	18.920
730	36.926	-5.250	18.091
731	38.694	-5.250	17.262
732	42.249	-5.250	15.597
733	45.823	-5.250	13.926
734	47.610	-5.250	13.090
735	49.397	-5.250	12.255
736	51.185	-5.250	11.419
737	44.036	-5.250	14.762
738	-2.751	-5.250	7.927
739	-1.195	-5.250	9.175
740	0.360	-5.250	10.423
741	1.915	-5.250	11.671
742	3.470	-5.250	12.919
743	5.026	-5.250	14.167
744	54.668	-5.250	9.557
745	56.365	-5.250	8.532
746	58.062	-5.250	7.506
747	61.456	-5.250	5.455
748	63.153	-5.250	4.430
749	52.270	-5.250	-19.730
750	54.330	-5.250	-19.730
751	56.390	-5.250	-19.730
752	58.450	-5.250	-19.730
753	-0.923	-5.250	-19.730
754	1.243	-5.250	-19.730
756	66.377	-5.250	2.694
759	8.008	-5.250	16.665
760	9.436	-5.250	17.915
761	10.865	-5.250	19.166
762	13.921	-5.250	21.236
763	15.548	-5.250	22.057
764	17.175	-5.250	22.877
765	18.803	-5.250	23.698
766	24.529	-5.250	23.870
767	26.309	-5.250	23.053
768	22.750	-5.250	24.687
774	20.961	-5.250	24.786
783	59.759	-5.250	6.481
811	58.873	-5.250	-0.097

Nodes Cont...

Node	X (m)	Y (m)	Z (m)
812	57.085	-5.250	0.733
813	61.500	-2.650	-3.796
814	64.240	-2.650	2.094
815	60.720	-2.650	-0.956
816	62.258	-2.650	-2.167
817	64.008	-2.650	1.595
818	62.953	-2.650	-0.671
819	56.460	-2.650	1.024
820	58.873	-2.650	-0.097
821	57.085	-2.650	0.733
822	55.510	-2.650	-1.016
823	26.550	2.950	14.515
824	28.331	2.950	13.680
825	30.112	2.950	12.844
826	31.894	2.950	12.009
827	33.675	2.950	11.173
828	35.456	2.950	10.338
835	39.025	2.950	8.667
836	40.812	2.950	7.831
837	42.599	2.950	6.995
838	44.386	2.950	6.160
839	46.173	2.950	5.324
840	47.960	2.950	4.488
853	17.060	2.950	-4.480
854	19.010	2.950	-4.480
855	20.960	2.950	-4.480
856	22.910	2.950	-4.480
857	24.860	2.950	-4.480
873	5.360	2.950	-4.480
874	7.310	2.950	-4.480
875	9.260	2.950	-4.480
876	11.210	2.950	-4.480
877	13.160	2.950	-4.480
878	28.760	2.950	-4.480
879	30.710	2.950	-4.480
880	32.660	2.950	-4.480
881	34.610	2.950	-4.480
882	36.560	2.950	-4.480
883	40.460	2.950	-4.480
884	42.410	2.950	-4.480
885	44.360	2.950	-4.480
886	46.310	2.950	-4.480
887	48.260	2.950	-4.480
913	29.856	2.950	21.407
914	31.624	2.950	20.578
915	33.391	2.950	19.749
916	35.159	2.950	18.920
917	36.926	2.950	18.091
918	38.694	2.950	17.262
919	42.249	2.950	15.597
920	45.823	2.950	13.926
921	47.610	2.950	13.090
922	49.397	2.950	12.255
923	51.185	2.950	11.419

Nodes Cont...

Node	X (m)	Y (m)	Z (m)
924	44.036	2.950	14.762
932	5.447	2.950	6.193
933	3.780	2.950	5.117
934	8.955	2.950	8.072
935	7.183	2.950	7.159
936	-2.751	2.950	7.927
937	-1.195	2.950	9.175
938	0.360	2.950	10.423
939	1.915	2.950	11.671
940	3.470	2.950	12.919
941	5.026	2.950	14.167
942	4.632	2.950	-3.525
943	6.201	2.950	-2.298
944	7.770	2.950	-1.071
945	9.339	2.950	0.156
946	10.908	2.950	1.383
947	12.476	2.950	2.609
960	24.562	2.950	10.372
961	25.158	2.950	7.031
969	54.668	2.950	9.557
970	56.365	2.950	8.532
971	58.062	2.950	7.506
972	59.759	2.950	6.481
973	61.456	2.950	5.455
974	63.153	2.950	4.430
987	55.264	2.950	1.492
988	53.425	2.950	2.212
989	51.586	2.950	2.932
990	58.873	2.950	-0.097
991	57.085	2.950	0.733
992	49.615	2.950	-1.306
997	1.243	2.950	-4.547
998	-0.923	2.950	-4.613
1004	66.377	2.950	2.694
1006	63.783	2.950	-2.877
1015	12.302	2.950	10.001
1016	13.878	2.950	11.019
1017	15.454	2.950	12.036
1021	8.008	2.950	16.665
1022	9.436	2.950	17.915
1023	10.865	2.950	19.166
1028	18.840	2.950	13.591
1029	20.649	2.950	14.128
1030	22.459	2.950	14.665
1031	24.269	2.950	15.202
1032	15.468	2.950	18.831
1033	17.046	2.950	19.729
1034	18.624	2.950	20.626
1035	20.201	2.950	21.524
1036	13.921	2.950	21.236
1037	15.548	2.950	22.057
1038	17.175	2.950	22.877
1039	18.803	2.950	23.698
1040	24.310	2.950	11.789

Nodes Cont...

Node	X (m)	Y (m)	Z (m)
1044	24.529	2.950	23.870
1045	26.309	2.950	23.053
1048	23.778	2.950	17.805
1049	22.788	2.950	20.259
1050	22.750	2.950	24.687
1051	13.160	2.950	-8.360
1052	11.210	2.950	-8.360
1053	9.260	2.950	-8.360
1054	7.310	2.950	-8.360
1055	5.360	2.950	-8.360
1056	24.860	2.950	-8.360
1057	22.910	2.950	-8.360
1058	20.960	2.950	-8.360
1059	19.010	2.950	-8.360
1060	17.060	2.950	-8.360
1061	36.560	2.950	-8.360
1062	34.610	2.950	-8.360
1063	32.660	2.950	-8.360
1064	30.710	2.950	-8.360
1065	28.760	2.950	-8.360
1066	48.260	2.950	-8.360
1067	46.310	2.950	-8.360
1068	44.360	2.950	-8.360
1069	42.410	2.950	-8.360
1070	40.460	2.950	-8.360
1073	6.319	2.950	12.160
1074	4.648	2.950	11.093
1075	2.976	2.950	10.025
1076	1.305	2.950	8.957
1077	-0.367	2.950	7.890
1078	-2.038	2.950	6.822
1079	12.415	2.950	16.757
1080	10.940	2.950	15.581
1081	9.465	2.950	14.404
1082	25.217	2.950	20.788
1083	23.472	2.950	21.678
1084	37.595	2.950	14.912
1085	35.823	2.950	15.744
1086	34.051	2.950	16.575
1087	32.279	2.950	17.406
1088	30.507	2.950	18.237
1089	28.734	2.950	19.068
1090	50.090	2.950	9.067
1091	48.303	2.950	9.903
1092	46.516	2.950	10.738
1093	44.729	2.950	11.574
1094	42.942	2.950	12.410
1095	41.155	2.950	13.246
1096	62.600	2.950	3.243
1097	60.813	2.950	4.074
1098	59.026	2.950	4.906
1099	57.239	2.950	5.737
1100	55.452	2.950	6.568
1101	53.665	2.950	7.400

Nodes Cont...

Node	X (m)	Y (m)	Z (m)
1103	65.914	2.950	1.701
1104	58.450	2.950	-8.360
1105	56.390	2.950	-8.360
1106	54.330	2.950	-8.360
1107	52.270	2.950	-8.360
1110	60.510	2.950	-8.830
1131	20.961	2.950	24.786
1132	3.410	8.750	-13.680
1133	15.110	8.750	-13.680
1134	26.810	8.750	-13.680
1135	38.510	8.750	-13.680
1136	50.210	8.750	-13.680
1137	-3.090	8.750	-13.630
1138	60.510	8.750	-13.630
1140	12.234	8.750	20.500
1141	5.765	8.750	16.676
1142	-5.934	8.750	9.203
1143	27.927	8.750	21.988
1144	40.337	8.750	16.168
1145	52.847	8.750	10.318
1146	65.358	8.750	4.497
1149	-12.104	8.750	5.217
1150	-4.700	8.750	-13.630
1151	-10.969	8.750	2.363
1152	-8.611	8.750	-3.503
1156	-8.137	8.750	-4.680
1157	74.186	8.750	0.390
1158	73.251	8.750	-0.554
1163	68.612	8.750	-5.169
1164	12.970	8.750	5.494
1165	22.980	8.750	11.564
1166	35.490	8.750	5.744
1170	20.384	8.750	25.317
1171	15.110	8.750	-3.730
1173	38.510	8.750	-3.730
1174	49.516	8.750	-0.781
1175	1.423	8.750	-1.870
1177	22.695	8.750	11.696
1178	7.460	8.750	1.980
1179	46.751	8.750	0.505
1181	26.550	8.750	14.515
1182	28.331	8.750	13.680
1183	30.112	8.750	12.844
1184	31.894	8.750	12.009
1185	33.675	8.750	11.173
1186	35.456	8.750	10.338
1187	39.025	8.750	8.667
1188	40.812	8.750	7.831
1189	42.599	8.750	6.995
1190	44.386	8.750	6.160
1191	46.173	8.750	5.324
1192	47.960	8.750	4.488
1193	17.060	8.750	-4.480
1194	19.010	8.750	-4.480

Nodes Cont...

Node	X (m)	Y (m)	Z (m)
1195	20.960	8.750	-4.480
1196	22.910	8.750	-4.480
1197	24.860	8.750	-4.480
1198	5.360	8.750	-4.480
1199	7.310	8.750	-4.480
1200	9.260	8.750	-4.480
1201	11.210	8.750	-4.480
1202	13.160	8.750	-4.480
1203	28.760	8.750	-4.480
1204	30.710	8.750	-4.480
1205	32.660	8.750	-4.480
1206	34.610	8.750	-4.480
1207	36.560	8.750	-4.480
1208	40.460	8.750	-4.480
1209	42.410	8.750	-4.480
1210	44.360	8.750	-4.480
1211	46.310	8.750	-4.480
1212	48.260	8.750	-4.480
1226	5.447	8.750	6.193
1227	3.780	8.750	5.117
1228	8.955	8.750	8.072
1229	7.183	8.750	7.159
1260	56.136	8.750	-1.307
1273	55.264	8.750	1.492
1274	53.425	8.750	2.212
1275	51.586	8.750	2.932
1276	58.873	8.750	-0.097
1277	57.085	8.750	0.733
1279	1.243	8.750	-4.547
1280	-0.923	8.750	-4.613
1283	63.783	8.750	-2.877
1287	-3.723	8.750	-0.259
1288	-2.350	8.750	0.624
1289	12.302	8.750	10.001
1290	13.878	8.750	11.019
1291	15.454	8.750	12.036
1295	53.426	8.750	-2.378
1299	18.840	8.750	13.591
1300	20.649	8.750	14.128
1301	22.459	8.750	14.665
1302	24.269	8.750	15.202
1303	15.468	8.750	18.831
1304	17.046	8.750	19.729
1305	18.624	8.750	20.626
1306	20.201	8.750	21.524
1317	23.778	8.750	17.805
1318	22.788	8.750	20.259
1383	-0.923	8.750	-13.647
1384	1.243	8.750	-13.663
1385	5.360	8.750	-13.680
1386	7.310	8.750	-13.680
1387	9.260	8.750	-13.680
1388	11.210	8.750	-13.680
1389	13.160	8.750	-13.680

Nodes Cont...

Node	X (m)	Y (m)	Z (m)
1390	17.060	8.750	-13.680
1391	19.010	8.750	-13.680
1392	20.960	8.750	-13.680
1393	22.910	8.750	-13.680
1394	24.860	8.750	-13.680
1395	28.760	8.750	-13.680
1396	30.710	8.750	-13.680
1397	32.660	8.750	-13.680
1398	34.610	8.750	-13.680
1399	36.560	8.750	-13.680
1400	40.460	8.750	-13.680
1401	42.410	8.750	-13.680
1402	44.360	8.750	-13.680
1403	46.310	8.750	-13.680
1404	48.260	8.750	-13.680
1405	52.270	8.750	-13.670
1406	54.330	8.750	-13.660
1407	56.390	8.750	-13.650
1408	58.450	8.750	-13.640
1409	36.560	8.750	-3.730
1410	34.610	8.750	-3.730
1411	32.660	8.750	-3.730
1412	30.710	8.750	-3.730
1413	28.760	8.750	-3.730
1414	13.160	8.750	-11.230
1415	11.210	8.750	-11.230
1416	9.260	8.750	-11.230
1417	7.310	8.750	-11.230
1418	5.360	8.750	-11.230
1419	24.860	8.750	-11.230
1420	22.910	8.750	-11.230
1421	20.960	8.750	-11.230
1422	19.010	8.750	-11.230
1423	17.060	8.750	-11.230
1424	36.560	8.750	-11.230
1425	34.610	8.750	-11.230
1426	32.660	8.750	-11.230
1427	30.710	8.750	-11.230
1428	28.760	8.750	-11.230
1429	48.260	8.750	-11.230
1430	46.310	8.750	-11.230
1431	44.360	8.750	-11.230
1432	42.410	8.750	-11.230
1433	40.460	8.750	-11.230
1434	5.750	8.750	13.043
1435	4.079	8.750	11.975
1436	2.407	8.750	10.908
1437	0.736	8.750	9.840
1438	-0.936	8.750	8.772
1439	-2.607	8.750	7.704
1440	12.273	8.750	16.978
1441	10.656	8.750	16.022
1442	9.038	8.750	15.066
1443	25.517	8.750	21.411

Nodes Cont...

Node	X (m)	Y (m)	Z (m)
1444	23.615	8.750	21.974
1445	38.040	8.750	15.864
1446	36.270	8.750	16.694
1447	34.499	8.750	17.524
1448	32.729	8.750	18.354
1449	30.959	8.750	19.185
1450	29.188	8.750	20.015
1451	50.533	8.750	10.019
1452	48.746	8.750	10.855
1453	46.959	8.750	11.691
1454	45.172	8.750	12.526
1455	43.385	8.750	13.362
1456	41.598	8.750	14.198
1457	63.043	8.750	4.195
1458	61.256	8.750	5.026
1459	59.469	8.750	5.858
1460	57.682	8.750	6.689
1461	55.895	8.750	7.521
1462	54.108	8.750	8.352
1469	-7.030	8.750	4.879
1470	-5.654	8.750	5.758
1473	38.567	8.750	16.998
1474	36.798	8.750	17.827
1475	35.029	8.750	18.657
1476	33.261	8.750	19.486
1477	31.492	8.750	20.316
1478	29.723	8.750	21.145
1479	51.059	8.750	11.154
1480	49.272	8.750	11.990
1481	47.485	8.750	12.825
1482	45.697	8.750	13.661
1483	43.910	8.750	14.497
1484	42.123	8.750	15.332
1485	58.208	8.750	7.824
1486	56.420	8.750	8.655
1487	54.633	8.750	9.487
1489	66.358	8.750	2.653
1494	-2.323	8.750	-2.437
1495	-1.630	8.750	-0.412
1496	15.361	8.750	22.348
1497	13.799	8.750	21.425
1498	26.181	8.750	22.806
1499	24.409	8.750	23.638
1500	22.681	8.750	24.448
1504	28.290	8.750	9.094
1505	26.533	8.750	9.911
1506	24.741	8.750	10.745
1507	23.598	8.750	12.894
1508	39.067	8.750	4.080
1509	37.278	8.750	4.912
1510	6.286	8.750	1.231
1511	4.588	8.750	0.149
1512	2.941	8.750	-0.902
1513	22.339	8.750	11.469

Nodes Cont...

Node	X (m)	Y (m)	Z (m)
1514	20.766	8.750	10.466
1515	19.282	8.750	9.519
1516	17.717	8.750	8.521
1517	16.136	8.750	7.513
1518	14.556	8.750	6.505
1519	11.302	8.750	4.430
1520	9.630	8.750	3.364
1521	7.958	8.750	2.298
1522	-4.262	8.750	10.271
1523	-2.590	8.750	11.339
1524	-0.919	8.750	12.407
1525	0.753	8.750	13.475
1526	2.424	8.750	14.542
1527	4.096	8.750	15.610
1528	7.384	8.750	17.634
1529	9.002	8.750	18.590
1530	10.620	8.750	19.546
1531	16.921	8.750	23.270
1532	18.484	8.750	24.194
1533	59.995	8.750	6.992
1535	61.782	8.750	6.161
1537	63.569	8.750	5.330
1539	40.856	8.750	3.248
1540	42.644	8.750	2.416
1541	44.433	8.750	1.583
1542	46.222	8.750	0.751
1543	-8.677	8.750	7.439
1544	-7.303	8.750	8.322
1545	6.113	8.750	-2.164
1546	5.604	8.750	-3.730
1547	48.033	8.750	-3.730
1548	40.460	8.750	-3.730
1549	42.410	8.750	-3.730
1550	44.360	8.750	-3.730
1551	46.310	8.750	-3.730
1552	7.310	8.750	-3.730
1553	9.260	8.750	-3.730
1554	11.210	8.750	-3.730
1555	13.160	8.750	-3.730
1556	66.882	8.750	3.785
1559	-6.976	8.750	-2.430
1560	-5.342	8.750	-1.357
1561	-8.660	8.750	3.838
1562	-10.308	8.750	2.785
1563	69.673	8.750	1.111
1564	71.462	8.750	0.278
1565	67.054	8.750	-4.433
1566	-11.941	8.750	5.340
1567	-10.297	8.750	6.397
1568	70.199	8.750	2.235
1569	72.018	8.750	1.386
1577	-5.539	8.750	-4.680
1579	17.060	8.750	-3.730
1580	19.010	8.750	-3.730

Nodes Cont...

Node	X (m)	Y (m)	Z (m)
1581	20.960	8.750	-3.730
1582	22.910	8.750	-3.730
1584	56.460	1.150	1.024
1585	60.720	1.150	-0.956
1586	62.258	1.150	-2.167
1587	58.873	1.150	-0.097
1588	57.085	1.150	0.733
1589	56.460	5.150	1.024
1590	60.720	5.150	-0.956
1591	62.258	5.150	-2.167
1592	58.873	5.150	-0.097
1593	57.085	5.150	0.733
1594	61.500	5.150	-3.796
1595	64.008	5.150	1.595
1596	62.954	5.150	-0.671
1597	61.500	1.150	-3.796
1598	64.008	1.150	1.595
1599	62.954	1.150	-0.671
1600	64.561	5.213	2.783
1601	64.325	1.191	2.276
1614	30.115	8.750	8.244
1615	31.907	8.750	7.411
1616	33.698	8.750	6.578
1617	48.011	8.750	-0.081
1637	23.978	8.750	13.690
1638	0.000	12.950	0.000
1639	11.700	12.950	7.474
1640	17.030	12.950	13.054
1641	13.890	12.950	17.934
1642	21.890	12.950	22.484
1643	36.480	12.950	7.874
1644	48.990	12.950	2.024
1645	61.500	12.950	-3.796
1646	55.510	12.950	-1.016
1647	56.460	12.950	1.024
1648	60.720	12.950	-0.956
1649	-3.090	12.950	-4.680
1650	-3.090	12.950	-8.350
1651	3.410	12.950	-4.480
1652	15.110	12.950	-4.480
1653	26.810	12.950	-4.480
1654	38.510	12.950	-4.480
1655	50.210	12.950	-4.480
1658	-0.973	12.950	1.510
1659	10.727	12.950	8.984
1660	37.238	12.950	9.503
1661	49.748	12.950	3.653
1662	62.258	12.950	-2.167
1663	24.769	12.950	15.350
1664	2.050	12.950	4.000
1666	3.410	12.950	-11.230
1667	15.110	12.950	-11.230
1668	26.810	12.950	-11.230
1669	38.510	12.950	-11.230

Nodes Cont...

Node	X (m)	Y (m)	Z (m)
1670	50.210	12.950	-11.230
1671	7.421	12.950	14.110
1672	27.400	12.950	20.854
1673	39.810	12.950	15.034
1674	52.320	12.950	9.184
1675	-4.278	12.950	6.637
1676	64.831	12.950	3.363
1677	-3.221	12.950	4.998
1678	8.478	12.950	12.472
1679	26.559	12.950	19.094
1680	38.987	12.950	13.266
1681	51.498	12.950	7.416
1682	64.008	12.950	1.595
1683	-1.867	12.950	2.897
1684	9.833	12.950	10.370
1685	25.480	12.950	16.839
1686	37.933	12.950	10.999
1687	50.443	12.950	5.149
1688	62.954	12.950	-0.671
1689	3.410	12.950	-6.080
1690	15.110	12.950	-6.080
1691	26.810	12.950	-6.080
1692	38.510	12.950	-6.080
1693	50.210	12.950	-6.080
1694	3.410	12.950	-9.480
1695	15.110	12.950	-9.480
1696	26.810	12.950	-9.480
1697	38.510	12.950	-9.480
1698	50.210	12.950	-9.480
1699	3.410	12.950	-13.680
1700	15.110	12.950	-13.680
1701	26.810	12.950	-13.680
1702	38.510	12.950	-13.680
1703	50.210	12.950	-13.680
1704	-3.090	12.950	-13.630
1705	60.510	12.950	-13.630
1706	12.234	12.950	20.500
1707	5.765	12.950	16.676
1708	-5.934	12.950	9.203
1709	27.927	12.950	21.988
1710	40.337	12.950	16.168
1711	52.847	12.950	10.318
1712	65.358	12.950	4.497
1713	-12.104	12.950	5.217
1714	-4.700	12.950	-13.630
1715	-10.969	12.950	2.363
1716	-8.611	12.950	-3.503
1718	-8.137	12.950	-4.680
1719	74.188	12.950	0.390
1720	73.251	12.950	-0.554
1723	68.612	12.950	-5.169
1724	12.970	12.950	5.494
1725	22.980	12.950	11.564
1726	35.490	12.950	5.744

Nodes Cont...

Node	X (m)	Y (m)	Z (m)
1727	20.384	12.950	25.317
1728	15.110	12.950	-3.730
1729	26.810	12.950	-3.730
1730	38.510	12.950	-3.730
1731	49.516	12.950	-0.781
1732	1.423	12.950	-1.870
1733	22.695	12.950	11.696
1734	7.460	12.950	1.980
1735	46.751	12.950	0.505
1736	26.550	12.950	14.515
1737	28.331	12.950	13.680
1738	30.112	12.950	12.844
1739	31.894	12.950	12.009
1740	33.675	12.950	11.173
1741	35.456	12.950	10.338
1742	39.025	12.950	8.667
1743	40.812	12.950	7.831
1744	42.599	12.950	6.995
1745	44.386	12.950	6.160
1746	46.173	12.950	5.324
1747	47.960	12.950	4.488
1748	17.060	12.950	-4.480
1749	19.010	12.950	-4.480
1750	20.960	12.950	-4.480
1751	22.910	12.950	-4.480
1752	24.860	12.950	-4.480
1753	5.360	12.950	-4.480
1754	7.310	12.950	-4.480
1755	9.260	12.950	-4.480
1756	11.210	12.950	-4.480
1757	13.160	12.950	-4.480
1758	28.760	12.950	-4.480
1759	30.710	12.950	-4.480
1760	32.660	12.950	-4.480
1761	34.610	12.950	-4.480
1762	36.560	12.950	-4.480
1763	40.460	12.950	-4.480
1764	42.410	12.950	-4.480
1765	44.360	12.950	-4.480
1766	46.310	12.950	-4.480
1767	48.260	12.950	-4.480
1769	5.447	12.950	6.193
1770	3.780	12.950	5.117
1771	8.955	12.950	8.072
1772	7.183	12.950	7.159
1776	56.136	12.950	-1.307
1783	55.264	12.950	1.492
1784	53.425	12.950	2.212
1785	51.586	12.950	2.932
1786	58.873	12.950	-0.097
1787	57.085	12.950	0.733
1789	1.243	12.950	-4.547
1790	-0.923	12.950	-4.613
1791	63.783	12.950	-2.877

Nodes Cont...

Node	X (m)	Y (m)	Z (m)
1793	-3.723	12.950	-0.259
1794	-2.350	12.950	0.624
1795	12.302	12.950	10.001
1796	13.878	12.950	11.019
1797	15.454	12.950	12.036
1798	53.426	12.950	-2.378
1799	18.840	12.950	13.591
1800	20.649	12.950	14.128
1801	22.459	12.950	14.665
1802	24.269	12.950	15.202
1803	15.468	12.950	18.831
1804	17.046	12.950	19.729
1805	18.624	12.950	20.626
1806	20.201	12.950	21.524
1808	23.778	12.950	17.805
1809	22.788	12.950	20.259
1812	-0.923	12.950	-13.647
1813	1.243	12.950	-13.663
1814	5.360	12.950	-13.680
1815	7.310	12.950	-13.680
1816	9.260	12.950	-13.680
1817	11.210	12.950	-13.680
1818	13.160	12.950	-13.680
1819	17.060	12.950	-13.680
1820	19.010	12.950	-13.680
1821	20.960	12.950	-13.680
1822	22.910	12.950	-13.680
1823	24.860	12.950	-13.680
1824	28.760	12.950	-13.680
1825	30.710	12.950	-13.680
1826	32.660	12.950	-13.680
1827	34.610	12.950	-13.680
1828	36.560	12.950	-13.680
1829	40.460	12.950	-13.680
1830	42.410	12.950	-13.680
1831	44.360	12.950	-13.680
1832	46.310	12.950	-13.680
1833	48.260	12.950	-13.680
1834	52.270	12.950	-13.670
1835	54.330	12.950	-13.660
1836	56.390	12.950	-13.650
1838	36.560	12.950	-3.730
1839	34.610	12.950	-3.730
1840	32.660	12.950	-3.730
1841	30.710	12.950	-3.730
1842	28.760	12.950	-3.730
1843	13.160	12.950	-11.230
1844	11.210	12.950	-11.230
1845	9.260	12.950	-11.230
1846	7.310	12.950	-11.230
1847	5.360	12.950	-11.230
1848	24.860	12.950	-11.230
1849	22.910	12.950	-11.230
1850	20.960	12.950	-11.230

Nodes Cont...

Node	X (m)	Y (m)	Z (m)
1851	19.010	12.950	-11.230
1852	17.060	12.950	-11.230
1853	36.560	12.950	-11.230
1854	34.610	12.950	-11.230
1855	32.660	12.950	-11.230
1856	30.710	12.950	-11.230
1857	28.760	12.950	-11.230
1858	48.260	12.950	-11.230
1859	46.310	12.950	-11.230
1860	44.360	12.950	-11.230
1861	42.410	12.950	-11.230
1862	40.460	12.950	-11.230
1863	5.750	12.950	13.043
1864	4.079	12.950	11.975
1865	2.407	12.950	10.908
1866	0.736	12.950	9.840
1867	-0.936	12.950	8.772
1868	-2.607	12.950	7.704
1869	12.273	12.950	16.978
1870	10.656	12.950	16.022
1871	9.038	12.950	15.066
1872	25.517	12.950	21.411
1873	23.615	12.950	21.974
1874	38.040	12.950	15.864
1875	36.270	12.950	16.694
1876	34.499	12.950	17.524
1877	32.729	12.950	18.354
1878	30.959	12.950	19.185
1879	29.188	12.950	20.015
1880	50.533	12.950	10.019
1881	48.746	12.950	10.855
1882	46.959	12.950	11.691
1883	45.172	12.950	12.526
1884	43.385	12.950	13.362
1885	41.598	12.950	14.198
1886	63.043	12.950	4.195
1887	61.256	12.950	5.026
1888	59.469	12.950	5.858
1889	57.682	12.950	6.689
1890	55.895	12.950	7.521
1891	54.108	12.950	8.352
1898	-7.030	12.950	4.879
1899	-5.654	12.950	5.758
1900	38.567	12.950	16.998
1901	36.798	12.950	17.827
1902	35.029	12.950	18.657
1903	33.261	12.950	19.486
1904	31.492	12.950	20.316
1905	29.723	12.950	21.145
1906	51.059	12.950	11.154
1907	49.272	12.950	11.990
1908	47.485	12.950	12.825
1909	45.697	12.950	13.661
1910	43.910	12.950	14.497

Nodes Cont...

Node	X (m)	Y (m)	Z (m)
1911	42.123	12.950	15.332
1912	58.208	12.950	7.824
1913	56.420	12.950	8.655
1914	54.633	12.950	9.487
1916	66.358	12.950	2.653
1917	-2.323	12.950	-2.437
1918	-1.630	12.950	-0.412
1919	15.361	12.950	22.348
1920	13.799	12.950	21.425
1921	26.181	12.950	22.806
1922	24.409	12.950	23.638
1923	22.681	12.950	24.448
1924	28.290	12.950	9.094
1925	26.533	12.950	9.911
1926	24.741	12.950	10.745
1927	23.598	12.950	12.894
1928	39.067	12.950	4.080
1929	37.278	12.950	4.912
1930	6.286	12.950	1.231
1931	4.588	12.950	0.149
1932	2.941	12.950	-0.902
1933	22.339	12.950	11.469
1934	20.766	12.950	10.466
1935	19.282	12.950	9.519
1936	17.717	12.950	8.521
1937	16.136	12.950	7.513
1938	14.556	12.950	6.505
1939	11.302	12.950	4.430
1940	9.630	12.950	3.364
1941	7.958	12.950	2.298
1942	-4.262	12.950	10.271
1943	-2.590	12.950	11.339
1944	-0.919	12.950	12.407
1945	0.753	12.950	13.475
1946	2.424	12.950	14.542
1947	4.096	12.950	15.610
1948	7.384	12.950	17.634
1949	9.002	12.950	18.590
1950	10.620	12.950	19.546
1951	16.922	12.950	23.271
1952	18.484	12.950	24.194
1953	59.995	12.950	6.992
1954	61.782	12.950	6.161
1955	63.569	12.950	5.330
1956	40.856	12.950	3.248
1957	42.644	12.950	2.416
1958	44.433	12.950	1.583
1959	46.222	12.950	0.751
1960	-8.677	12.950	7.439
1961	-7.303	12.950	8.322
1962	6.113	12.950	-2.164
1963	5.604	12.950	-3.730
1964	48.033	12.950	-3.730
1965	40.460	12.950	-3.730

Nodes Cont...

Node	X (m)	Y (m)	Z (m)
1966	42.410	12.950	-3.730
1967	44.360	12.950	-3.730
1968	46.310	12.950	-3.730
1969	7.310	12.950	-3.730
1970	9.260	12.950	-3.730
1971	11.210	12.950	-3.730
1972	13.160	12.950	-3.730
1973	66.882	12.950	3.785
1976	-6.976	12.950	-2.430
1977	-5.342	12.950	-1.357
1978	-8.660	12.950	3.838
1979	-10.308	12.950	2.785
1980	69.673	12.950	1.111
1981	71.462	12.950	0.278
1982	67.054	12.950	-4.433
1983	-11.941	12.950	5.340
1984	-10.297	12.950	6.397
1985	70.199	12.950	2.235
1986	72.018	12.950	1.386
1990	-5.539	12.950	-4.680
1992	17.060	12.950	-3.730
1993	19.010	12.950	-3.730
1994	20.960	12.950	-3.730
1995	22.910	12.950	-3.730
1996	24.860	12.950	-3.730
1997	30.115	12.950	8.244
1998	31.907	12.950	7.411
1999	33.698	12.950	6.578
2000	48.011	12.950	-0.081
2002	23.978	12.950	13.690
2003	0.000	17.150	0.000
2004	11.700	17.150	7.474
2005	17.030	17.150	13.054
2006	13.890	17.150	17.934
2007	21.890	17.150	22.484
2008	36.480	17.150	7.874
2009	48.990	17.150	2.024
2010	61.500	17.150	-3.796
2011	55.510	17.150	-1.016
2012	56.460	17.150	1.024
2013	60.720	17.150	-0.956
2014	-3.090	17.150	-4.680
2015	-3.090	17.150	-8.350
2016	3.410	17.150	-4.480
2017	15.110	17.150	-4.480
2018	26.810	17.150	-4.480
2019	38.510	17.150	-4.480
2020	50.210	17.150	-4.480
2022	60.510	17.150	-10.630
2023	-0.973	17.150	1.510
2024	10.727	17.150	8.984
2025	37.238	17.150	9.503
2026	49.748	17.150	3.653
2027	62.258	17.150	-2.167

Nodes Cont...

Node	X (m)	Y (m)	Z (m)
2028	24.769	17.150	15.350
2029	2.050	17.150	4.000
2031	3.410	17.150	-11.230
2032	15.110	17.150	-11.230
2033	26.810	17.150	-11.230
2034	38.510	17.150	-11.230
2035	50.210	17.150	-11.230
2036	7.421	17.150	14.110
2037	27.400	17.150	20.854
2038	39.810	17.150	15.034
2039	52.320	17.150	9.184
2040	-4.278	17.150	6.637
2041	64.831	17.150	3.363
2042	-3.221	17.150	4.998
2043	8.478	17.150	12.472
2044	26.559	17.150	19.094
2045	38.987	17.150	13.266
2046	51.498	17.150	7.416
2047	64.008	17.150	1.595
2048	-1.867	17.150	2.897
2049	9.833	17.150	10.370
2050	25.480	17.150	16.839
2051	37.933	17.150	10.999
2052	50.443	17.150	5.149
2053	62.954	17.150	-0.671
2054	3.410	17.150	-6.080
2055	15.110	17.150	-6.080
2056	26.810	17.150	-6.080
2057	38.510	17.150	-6.080
2058	50.210	17.150	-6.080
2059	3.410	17.150	-9.480
2060	15.110	17.150	-9.480
2061	26.810	17.150	-9.480
2062	38.510	17.150	-9.480
2063	50.210	17.150	-9.480
2064	3.410	17.150	-13.680
2065	15.110	17.150	-13.680
2066	26.810	17.150	-13.680
2067	38.510	17.150	-13.680
2068	50.210	17.150	-13.680
2069	-3.090	17.150	-13.630
2070	60.510	17.150	-13.630
2071	12.234	17.150	20.500
2072	5.765	17.150	16.676
2073	-5.934	17.150	9.203
2074	27.927	17.150	21.988
2075	40.337	17.150	16.168
2076	52.847	17.150	10.318
2077	65.358	17.150	4.497
2078	-12.104	17.150	5.217
2079	-4.700	17.150	-13.630
2080	-10.969	17.150	2.363
2081	-8.611	17.150	-3.503
2083	-8.137	17.150	-4.680

Nodes Cont...

Node	X (m)	Y (m)	Z (m)
2084	74.188	17.150	0.390
2085	73.251	17.150	-0.554
2088	68.612	17.150	-5.169
2089	12.970	17.150	5.494
2090	22.980	17.150	11.564
2091	35.490	17.150	5.744
2092	20.384	17.150	25.317
2093	15.110	17.150	-3.730
2094	26.810	17.150	-3.730
2095	38.510	17.150	-3.730
2096	49.516	17.150	-0.781
2097	1.423	17.150	-1.870
2098	22.695	17.150	11.696
2099	7.460	17.150	1.980
2100	46.751	17.150	0.505
2101	26.550	17.150	14.515
2102	28.331	17.150	13.680
2103	30.112	17.150	12.844
2104	31.894	17.150	12.009
2105	33.675	17.150	11.173
2106	35.456	17.150	10.338
2107	39.025	17.150	8.667
2108	40.812	17.150	7.831
2109	42.599	17.150	6.995
2110	44.386	17.150	6.160
2111	46.173	17.150	5.324
2112	47.960	17.150	4.488
2113	17.060	17.150	-4.480
2114	19.010	17.150	-4.480
2115	20.960	17.150	-4.480
2116	22.910	17.150	-4.480
2117	24.860	17.150	-4.480
2118	5.360	17.150	-4.480
2119	7.310	17.150	-4.480
2120	9.260	17.150	-4.480
2121	11.210	17.150	-4.480
2122	13.160	17.150	-4.480
2123	28.760	17.150	-4.480
2124	30.710	17.150	-4.480
2125	32.660	17.150	-4.480
2126	34.610	17.150	-4.480
2127	36.560	17.150	-4.480
2128	40.460	17.150	-4.480
2129	42.410	17.150	-4.480
2130	44.360	17.150	-4.480
2131	46.310	17.150	-4.480
2132	48.260	17.150	-4.480
2133	0.443	17.150	2.973
2134	5.447	17.150	6.193
2135	3.780	17.150	5.117
2136	8.955	17.150	8.072
2137	7.183	17.150	7.159
2148	55.264	17.150	1.492
2149	53.425	17.150	2.212

Nodes Cont...

Node	X (m)	Y (m)	Z (m)
2150	51.586	17.150	2.932
2151	58.873	17.150	-0.097
2152	57.085	17.150	0.733
2154	1.243	17.150	-4.547
2155	-0.923	17.150	-4.613
2156	63.783	17.150	-2.877
2158	-3.723	17.150	-0.259
2159	-2.350	17.150	0.624
2160	12.302	17.150	10.001
2161	13.878	17.150	11.019
2162	15.454	17.150	12.036
2163	53.426	17.150	-2.378
2164	18.840	17.150	13.591
2165	20.649	17.150	14.128
2166	22.459	17.150	14.665
2167	24.269	17.150	15.202
2168	15.468	17.150	18.831
2169	17.046	17.150	19.729
2170	18.624	17.150	20.626
2171	20.201	17.150	21.524
2173	23.778	17.150	17.805
2174	22.788	17.150	20.259
2177	-0.923	17.150	-13.647
2178	1.243	17.150	-13.663
2179	5.360	17.150	-13.680
2180	7.310	17.150	-13.680
2181	9.260	17.150	-13.680
2182	11.210	17.150	-13.680
2183	13.160	17.150	-13.680
2184	17.060	17.150	-13.680
2185	19.010	17.150	-13.680
2186	20.960	17.150	-13.680
2187	22.910	17.150	-13.680
2188	24.860	17.150	-13.680
2189	28.760	17.150	-13.680
2190	30.710	17.150	-13.680
2191	32.660	17.150	-13.680
2192	34.610	17.150	-13.680
2193	36.560	17.150	-13.680
2194	40.460	17.150	-13.680
2195	42.410	17.150	-13.680
2196	44.360	17.150	-13.680
2197	46.310	17.150	-13.680
2198	48.260	17.150	-13.680
2199	52.270	17.150	-13.670
2200	54.330	17.150	-13.660
2201	56.390	17.150	-13.650
2202	58.450	17.150	-13.640
2203	36.560	17.150	-3.730
2204	34.610	17.150	-3.730
2205	32.660	17.150	-3.730
2206	30.710	17.150	-3.730
2207	28.760	17.150	-3.730
2208	13.160	17.150	-11.230

Nodes Cont...

Node	X (m)	Y (m)	Z (m)
2209	11.210	17.150	-11.230
2210	9.260	17.150	-11.230
2211	7.310	17.150	-11.230
2212	5.360	17.150	-11.230
2213	24.860	17.150	-11.230
2214	22.910	17.150	-11.230
2215	20.960	17.150	-11.230
2216	19.010	17.150	-11.230
2217	17.060	17.150	-11.230
2218	36.560	17.150	-11.230
2219	34.610	17.150	-11.230
2220	32.660	17.150	-11.230
2221	30.710	17.150	-11.230
2222	28.760	17.150	-11.230
2223	48.260	17.150	-11.230
2224	46.310	17.150	-11.230
2225	44.360	17.150	-11.230
2226	42.410	17.150	-11.230
2227	40.460	17.150	-11.230
2228	5.750	17.150	13.043
2229	4.079	17.150	11.975
2230	2.407	17.150	10.908
2231	0.736	17.150	9.840
2232	-0.936	17.150	8.772
2233	-2.607	17.150	7.704
2234	12.273	17.150	16.978
2235	10.656	17.150	16.022
2236	9.038	17.150	15.066
2237	25.517	17.150	21.411
2238	23.615	17.150	21.974
2239	38.040	17.150	15.864
2240	36.270	17.150	16.694
2241	34.499	17.150	17.524
2242	32.729	17.150	18.354
2243	30.959	17.150	19.185
2244	29.188	17.150	20.015
2245	50.533	17.150	10.019
2246	48.746	17.150	10.855
2247	46.959	17.150	11.691
2248	45.172	17.150	12.526
2249	43.385	17.150	13.362
2250	41.598	17.150	14.198
2251	63.043	17.150	4.195
2252	61.256	17.150	5.026
2253	59.469	17.150	5.858
2254	57.682	17.150	6.689
2255	55.895	17.150	7.521
2256	54.108	17.150	8.352
2263	-7.030	17.150	4.879
2264	-5.654	17.150	5.758
2265	38.567	17.150	16.998
2266	36.798	17.150	17.827
2267	35.029	17.150	18.657
2268	33.261	17.150	19.486

Nodes Cont...

Node	X (m)	Y (m)	Z (m)
2269	31.492	17.150	20.316
2270	29.723	17.150	21.145
2271	51.059	17.150	11.154
2272	49.272	17.150	11.990
2273	47.485	17.150	12.825
2274	45.697	17.150	13.661
2275	43.910	17.150	14.497
2276	42.123	17.150	15.332
2277	58.208	17.150	7.824
2278	56.420	17.150	8.655
2279	54.633	17.150	9.487
2281	66.358	17.150	2.653
2282	-2.323	17.150	-2.437
2283	-1.630	17.150	-0.412
2284	15.361	17.150	22.348
2285	13.799	17.150	21.425
2286	26.181	17.150	22.806
2287	24.409	17.150	23.638
2288	22.681	17.150	24.448
2289	28.290	17.150	9.094
2290	26.533	17.150	9.911
2291	24.741	17.150	10.745
2292	23.598	17.150	12.894
2293	39.067	17.150	4.080
2294	37.278	17.150	4.912
2295	6.286	17.150	1.231
2296	4.588	17.150	0.149
2297	2.941	17.150	-0.902
2298	22.339	17.150	11.469
2299	20.766	17.150	10.466
2300	19.282	17.150	9.519
2301	17.717	17.150	8.521
2302	16.136	17.150	7.513
2303	14.556	17.150	6.505
2304	11.302	17.150	4.430
2305	9.630	17.150	3.364
2306	7.958	17.150	2.298
2307	-4.262	17.150	10.271
2308	-2.590	17.150	11.339
2309	-0.919	17.150	12.407
2310	0.753	17.150	13.475
2311	2.424	17.150	14.542
2312	4.096	17.150	15.610
2313	7.384	17.150	17.634
2314	9.002	17.150	18.590
2315	10.620	17.150	19.546
2316	16.922	17.150	23.271
2317	18.484	17.150	24.194
2318	59.995	17.150	6.992
2319	61.782	17.150	6.161
2320	63.569	17.150	5.330
2321	40.856	17.150	3.248
2322	42.644	17.150	2.416
2323	44.433	17.150	1.583

Nodes Cont...

Node	X (m)	Y (m)	Z (m)
2324	46.222	17.150	0.751
2325	-8.677	17.150	7.439
2326	-7.303	17.150	8.322
2327	6.113	17.150	-2.164
2328	5.604	17.150	-3.730
2329	48.033	17.150	-3.730
2330	40.460	17.150	-3.730
2331	42.410	17.150	-3.730
2332	44.360	17.150	-3.730
2333	46.310	17.150	-3.730
2334	7.310	17.150	-3.730
2335	9.260	17.150	-3.730
2336	11.210	17.150	-3.730
2337	13.160	17.150	-3.730
2338	66.882	17.150	3.785
2341	-6.976	17.150	-2.430
2342	-5.342	17.150	-1.357
2343	-8.660	17.150	3.838
2344	-10.308	17.150	2.785
2345	69.673	17.150	1.111
2346	71.462	17.150	0.278
2347	67.054	17.150	-4.433
2348	-11.941	17.150	5.340
2349	-10.297	17.150	6.397
2350	70.199	17.150	2.235
2351	72.018	17.150	1.386
2355	-5.539	17.150	-4.680
2357	17.060	17.150	-3.730
2358	19.010	17.150	-3.730
2359	20.960	17.150	-3.730
2360	22.910	17.150	-3.730
2361	24.860	17.150	-3.730
2362	30.115	17.150	8.244
2363	31.907	17.150	7.411
2364	33.698	17.150	6.578
2365	48.011	17.150	-0.081
2367	23.978	17.150	13.690
2376	55.766	12.950	-11.230
2377	52.270	12.950	-11.230
2378	54.330	12.950	-11.230
2379	61.500	10.950	-3.796
2380	62.258	10.950	-2.167
2381	64.831	10.950	3.363
2382	64.008	10.950	1.595
2383	61.500	15.150	-3.796
2384	62.258	15.150	-2.167
2385	64.831	15.150	3.363
2386	64.008	15.150	1.595
2387	56.460	10.950	1.024
2388	60.720	10.950	-0.956
2389	58.873	10.950	-0.097
2390	57.085	10.950	0.733
2391	56.460	15.150	1.024
2392	60.720	15.150	-0.956

Nodes Cont...

Node	X (m)	Y (m)	Z (m)
2393	58.873	15.150	-0.097
2394	57.085	15.150	0.733
2395	0.000	21.350	0.000
2396	11.700	21.350	7.474
2397	17.030	21.350	13.054
2400	36.480	21.350	7.874
2401	48.990	21.350	2.024
2402	61.500	21.350	-3.796
2403	55.510	21.350	-1.016
2404	56.460	21.350	1.024
2405	60.720	21.350	-0.956
2408	3.410	21.350	-4.480
2409	15.110	21.350	-4.480
2410	26.810	21.350	-4.480
2411	38.510	21.350	-4.480
2412	50.210	21.350	-4.480
2414	60.510	21.350	-10.630
2415	-0.973	21.350	1.510
2416	10.727	21.350	8.984
2417	37.238	21.350	9.503
2418	49.748	21.350	3.653
2419	62.258	21.350	-2.167
2420	24.769	21.350	15.350
2421	2.050	21.350	4.000
2423	3.410	21.350	-11.230
2424	15.110	21.350	-11.230
2425	26.810	21.350	-11.230
2426	38.510	21.350	-11.230
2427	50.210	21.350	-11.230
2428	7.421	21.350	14.110
2429	27.400	21.350	20.854
2430	39.810	21.350	15.034
2431	52.320	21.350	9.184
2432	-4.278	21.350	6.637
2433	64.831	21.350	3.363
2434	-3.221	21.350	4.998
2435	8.478	21.350	12.472
2436	26.559	21.350	19.094
2437	38.987	21.350	13.266
2438	51.498	21.350	7.416
2439	64.008	21.350	1.595
2440	-1.867	21.350	2.897
2441	9.833	21.350	10.370
2442	25.480	21.350	16.839
2443	37.933	21.350	10.999
2444	50.443	21.350	5.149
2445	62.954	21.350	-0.671
2446	3.410	21.350	-6.080
2447	15.110	21.350	-6.080
2448	26.810	21.350	-6.080
2449	38.510	21.350	-6.080
2450	50.210	21.350	-6.080
2451	3.410	21.350	-9.480
2452	15.110	21.350	-9.480

Nodes Cont...

Node	X (m)	Y (m)	Z (m)
2453	26.810	21.350	-9.480
2454	38.510	21.350	-9.480
2455	50.210	21.350	-9.480
2456	3.410	21.350	-13.680
2457	15.110	21.350	-13.680
2458	26.810	21.350	-13.680
2459	38.510	21.350	-13.680
2460	50.210	21.350	-13.680
2462	60.510	21.350	-13.630
2464	5.765	21.350	16.676
2465	-5.934	21.350	9.203
2466	27.927	21.350	21.988
2467	40.337	21.350	16.168
2468	52.847	21.350	10.318
2469	65.358	21.350	4.497
2470	-12.104	21.350	5.217
2472	-10.969	21.350	2.363
2473	-8.611	21.350	-3.503
2475	-8.137	21.350	-4.680
2476	74.188	21.350	0.390
2477	73.251	21.350	-0.554
2480	68.612	21.350	-5.169
2481	12.970	21.350	5.494
2482	22.980	21.350	11.564
2483	35.490	21.350	5.744
2485	15.110	21.350	-3.730
2486	26.810	21.350	-3.730
2487	38.510	21.350	-3.730
2488	49.516	21.350	-0.781
2489	1.423	21.350	-1.870
2491	7.460	21.350	1.980
2492	46.751	21.350	0.505
2493	26.550	21.350	14.515
2494	28.331	21.350	13.680
2495	30.112	21.350	12.844
2496	31.894	21.350	12.009
2497	33.675	21.350	11.173
2498	35.456	21.350	10.338
2499	39.025	21.350	8.667
2500	40.812	21.350	7.831
2501	42.599	21.350	6.995
2502	44.386	21.350	6.160
2503	46.173	21.350	5.324
2504	47.960	21.350	4.488
2505	17.060	21.350	-4.480
2506	19.010	21.350	-4.480
2507	20.960	21.350	-4.480
2508	22.910	21.350	-4.480
2509	24.860	21.350	-4.480
2510	5.360	21.350	-4.480
2511	7.310	21.350	-4.480
2512	9.260	21.350	-4.480
2513	11.210	21.350	-4.480
2514	13.160	21.350	-4.480

Nodes Cont...

Node	X (m)	Y (m)	Z (m)
2515	28.760	21.350	-4.480
2516	30.710	21.350	-4.480
2517	32.660	21.350	-4.480
2518	34.610	21.350	-4.480
2519	36.560	21.350	-4.480
2520	40.460	21.350	-4.480
2521	42.410	21.350	-4.480
2522	44.360	21.350	-4.480
2523	46.310	21.350	-4.480
2524	48.260	21.350	-4.480
2525	0.443	21.350	2.973
2526	5.447	21.350	6.193
2527	3.780	21.350	5.117
2528	8.955	21.350	8.072
2529	7.183	21.350	7.159
2533	56.136	21.350	-1.307
2540	55.264	21.350	1.492
2541	53.425	21.350	2.212
2542	51.586	21.350	2.932
2543	58.873	21.350	-0.097
2544	57.085	21.350	0.733
2548	63.783	21.350	-2.877
2550	-3.723	21.350	-0.259
2551	-2.350	21.350	0.624
2552	12.302	21.350	10.001
2553	13.878	21.350	11.019
2554	15.454	21.350	12.036
2555	53.426	21.350	-2.378
2570	1.243	21.350	-13.663
2571	5.360	21.350	-13.680
2572	7.310	21.350	-13.680
2573	9.260	21.350	-13.680
2574	11.210	21.350	-13.680
2575	13.160	21.350	-13.680
2576	17.060	21.350	-13.680
2577	19.010	21.350	-13.680
2578	20.960	21.350	-13.680
2579	22.910	21.350	-13.680
2580	24.860	21.350	-13.680
2581	28.760	21.350	-13.680
2582	30.710	21.350	-13.680
2583	32.660	21.350	-13.680
2584	34.610	21.350	-13.680
2585	36.560	21.350	-13.680
2586	40.460	21.350	-13.680
2587	42.410	21.350	-13.680
2588	44.360	21.350	-13.680
2589	46.310	21.350	-13.680
2590	48.260	21.350	-13.680
2591	52.270	21.350	-13.670
2592	54.330	21.350	-13.660
2593	56.390	21.350	-13.650
2594	58.450	21.350	-13.640
2595	36.560	21.350	-3.730

Nodes Cont...

Node	X (m)	Y (m)	Z (m)
2596	34.610	21.350	-3.730
2597	32.660	21.350	-3.730
2598	30.710	21.350	-3.730
2599	28.760	21.350	-3.730
2600	13.160	21.350	-11.230
2601	11.210	21.350	-11.230
2602	9.260	21.350	-11.230
2603	7.310	21.350	-11.230
2604	5.360	21.350	-11.230
2605	24.860	21.350	-11.230
2606	22.910	21.350	-11.230
2607	20.960	21.350	-11.230
2608	19.010	21.350	-11.230
2609	17.060	21.350	-11.230
2610	36.560	21.350	-11.230
2611	34.610	21.350	-11.230
2612	32.660	21.350	-11.230
2613	30.710	21.350	-11.230
2614	28.760	21.350	-11.230
2615	48.260	21.350	-11.230
2616	46.310	21.350	-11.230
2617	44.360	21.350	-11.230
2618	42.410	21.350	-11.230
2619	40.460	21.350	-11.230
2620	5.750	21.350	13.043
2621	4.079	21.350	11.975
2622	2.407	21.350	10.908
2623	0.736	21.350	9.840
2624	-0.936	21.350	8.772
2625	-2.607	21.350	7.704
2627	10.656	21.350	16.022
2628	9.038	21.350	15.066
2631	38.040	21.350	15.864
2632	36.270	21.350	16.694
2633	34.499	21.350	17.524
2634	32.729	21.350	18.354
2635	30.959	21.350	19.185
2636	29.188	21.350	20.015
2637	50.533	21.350	10.019
2638	48.746	21.350	10.855
2639	46.959	21.350	11.691
2640	45.172	21.350	12.526
2641	43.385	21.350	13.362
2642	41.598	21.350	14.198
2643	63.043	21.350	4.195
2644	61.256	21.350	5.026
2645	59.469	21.350	5.858
2646	57.682	21.350	6.689
2647	55.895	21.350	7.521
2648	54.108	21.350	8.352
2655	-7.030	21.350	4.879
2656	-5.654	21.350	5.758
2657	38.567	21.350	16.998
2658	36.798	21.350	17.827

Nodes Cont...

Node	X (m)	Y (m)	Z (m)
2659	35.029	21.350	18.657
2660	33.261	21.350	19.486
2661	31.492	21.350	20.316
2662	29.723	21.350	21.145
2663	51.059	21.350	11.154
2664	49.272	21.350	11.990
2665	47.485	21.350	12.825
2666	45.697	21.350	13.661
2667	43.910	21.350	14.497
2668	42.123	21.350	15.332
2669	58.208	21.350	7.824
2670	56.420	21.350	8.655
2671	54.633	21.350	9.487
2673	66.358	21.350	2.653
2681	28.290	21.350	9.094
2682	26.533	21.350	9.911
2683	24.741	21.350	10.745
2685	39.067	21.350	4.080
2686	37.278	21.350	4.912
2687	6.286	21.350	1.231
2688	4.588	21.350	0.149
2689	2.941	21.350	-0.902
2692	19.282	21.350	9.519
2693	17.717	21.350	8.521
2694	16.136	21.350	7.513
2695	14.556	21.350	6.505
2696	11.302	21.350	4.430
2697	9.630	21.350	3.364
2698	7.958	21.350	2.298
2699	-4.262	21.350	10.271
2700	-2.590	21.350	11.339
2701	-0.919	21.350	12.407
2702	0.753	21.350	13.475
2703	2.424	21.350	14.542
2704	4.096	21.350	15.610
2705	7.384	21.350	17.634
2710	59.995	21.350	6.992
2711	61.782	21.350	6.161
2712	63.569	21.350	5.330
2713	40.856	21.350	3.248
2714	42.644	21.350	2.416
2715	44.433	21.350	1.583
2716	46.222	21.350	0.751
2717	-8.677	21.350	7.439
2718	-7.303	21.350	8.322
2719	6.113	21.350	-2.164
2720	5.604	21.350	-3.730
2721	48.033	21.350	-3.730
2722	40.460	21.350	-3.730
2723	42.410	21.350	-3.730
2724	44.360	21.350	-3.730
2725	46.310	21.350	-3.730
2726	7.310	21.350	-3.730
2727	9.260	21.350	-3.730

Nodes Cont...

Node	X (m)	Y (m)	Z (m)
2728	11.210	21.350	-3.730
2729	13.160	21.350	-3.730
2730	66.882	21.350	3.785
2733	-6.976	21.350	-2.430
2734	-5.342	21.350	-1.357
2735	-8.660	21.350	3.838
2736	-10.308	21.350	2.785
2737	69.673	21.350	1.111
2738	71.462	21.350	0.278
2739	67.054	21.350	-4.433
2740	-11.941	21.350	5.340
2741	-10.297	21.350	6.397
2742	70.199	21.350	2.235
2743	72.018	21.350	1.386
2749	17.060	21.350	-3.730
2750	19.010	21.350	-3.730
2751	20.960	21.350	-3.730
2752	22.910	21.350	-3.730
2753	24.860	21.350	-3.730
2754	30.115	21.350	8.244
2755	31.907	21.350	7.411
2756	33.698	21.350	6.578
2757	48.011	21.350	-0.081
2759	23.978	21.350	13.690
2760	61.500	19.350	-3.796
2761	62.258	19.350	-2.167
2762	64.831	19.350	3.363
2763	64.008	19.350	1.595
2764	56.460	19.350	1.024
2765	60.720	19.350	-0.956
2766	58.873	19.350	-0.097
2767	57.085	19.350	0.733
2769	22.536	21.350	24.516
2770	8.267	21.350	18.089
2771	18.086	21.350	13.736
2772	15.996	21.350	14.661
2773	12.875	21.350	16.042
2774	11.625	21.350	16.595
2775	9.753	21.350	17.424
2776	22.394	21.350	23.201
2777	22.573	21.350	16.380
2778	24.063	21.350	22.419
2779	25.731	21.350	21.636
2780	23.141	21.350	16.114
2781	22.501	21.350	19.109
2782	22.610	21.350	14.980
2783	24.592	21.350	23.551
2784	26.259	21.350	22.770
2786	-2.146	21.350	-11.230
2787	-2.987	21.350	-13.631
2788	-0.687	21.350	-7.759
2790	1.243	21.350	-11.230
2795	-0.723	21.350	-13.648
2797	-5.733	21.350	-3.483

Nodes Cont...

Node	X (m)	Y (m)	Z (m)
2798	-0.723	21.350	-11.230
2800	-1.009	21.350	-4.480
2801	1.197	21.350	-4.480
2805	0.000	25.550	0.000
2806	11.700	25.550	7.474
2808	36.480	25.550	7.874
2809	48.990	25.550	2.024
2810	61.500	25.550	-3.796
2811	55.510	25.550	-1.016
2812	56.460	25.550	1.024
2813	60.720	25.550	-0.956
2814	3.410	25.550	-4.480
2815	15.110	25.550	-4.480
2816	26.810	25.550	-4.480
2817	38.510	25.550	-4.480
2818	50.210	25.550	-4.480
2821	-0.973	25.550	1.510
2822	10.727	25.550	8.984
2823	37.238	25.550	9.503
2824	49.748	25.550	3.653
2825	62.258	25.550	-2.167
2826	24.769	25.550	15.350
2827	2.050	25.550	4.000
2829	3.410	25.550	-11.230
2830	15.110	25.550	-11.230
2831	26.810	25.550	-11.230
2832	38.510	25.550	-11.230
2833	50.210	25.550	-11.230
2834	7.421	25.550	14.110
2835	27.400	25.550	20.854
2836	39.810	25.550	15.034
2837	52.320	25.550	9.184
2838	-4.278	25.550	6.637
2839	64.831	25.550	3.363
2840	-3.221	25.550	4.998
2841	8.478	25.550	12.472
2842	26.559	25.550	19.094
2843	38.987	25.550	13.266
2844	51.498	25.550	7.416
2845	64.008	25.550	1.595
2846	-1.867	25.550	2.897
2847	9.833	25.550	10.370
2848	25.480	25.550	16.839
2849	37.933	25.550	10.999
2850	50.443	25.550	5.149
2851	62.954	25.550	-0.671
2852	3.410	25.550	-6.080
2853	15.110	25.550	-6.080
2854	26.810	25.550	-6.080
2855	38.510	25.550	-6.080
2856	50.210	25.550	-6.080
2857	3.410	25.550	-9.480
2858	15.110	25.550	-9.480
2859	26.810	25.550	-9.480

Nodes Cont...

Node	X (m)	Y (m)	Z (m)
2860	38.510	25.550	-9.480
2861	50.210	25.550	-9.480
2862	3.410	25.550	-13.680
2863	15.110	25.550	-13.680
2864	26.810	25.550	-13.680
2865	38.510	25.550	-13.680
2866	50.210	25.550	-13.680
2868	5.765	25.550	16.676
2869	-5.934	25.550	9.203
2870	27.927	25.550	21.988
2871	40.337	25.550	16.168
2872	52.847	25.550	10.318
2873	65.358	25.550	4.497
2874	-12.104	25.550	5.217
2875	-10.969	25.550	2.363
2876	-8.611	25.550	-3.503
2877	-8.137	25.550	-4.680
2878	74.188	25.550	0.390
2879	73.251	25.550	-0.554
2882	68.612	25.550	-5.169
2883	12.970	25.550	5.494
2884	22.980	25.550	11.564
2885	35.490	25.550	5.744
2886	15.110	25.550	-3.730
2887	26.810	25.550	-3.730
2888	38.510	25.550	-3.730
2889	49.516	25.550	-0.781
2890	1.423	25.550	-1.870
2891	22.695	25.550	11.696
2892	7.460	25.550	1.980
2893	46.751	25.550	0.505
2894	26.550	25.550	14.515
2895	28.331	25.550	13.680
2896	30.112	25.550	12.844
2897	31.894	25.550	12.009
2898	33.675	25.550	11.173
2899	35.456	25.550	10.338
2900	39.025	25.550	8.667
2901	40.812	25.550	7.831
2902	42.599	25.550	6.995
2903	44.386	25.550	6.160
2904	46.173	25.550	5.324
2905	47.960	25.550	4.488
2906	17.060	25.550	-4.480
2907	19.010	25.550	-4.480
2908	20.960	25.550	-4.480
2909	22.910	25.550	-4.480
2910	24.860	25.550	-4.480
2911	5.360	25.550	-4.480
2912	7.310	25.550	-4.480
2913	9.260	25.550	-4.480
2914	11.210	25.550	-4.480
2915	13.160	25.550	-4.480
2916	28.760	25.550	-4.480

Nodes Cont...

Node	X (m)	Y (m)	Z (m)
2917	30.710	25.550	-4.480
2918	32.660	25.550	-4.480
2919	34.610	25.550	-4.480
2920	36.560	25.550	-4.480
2921	40.460	25.550	-4.480
2922	42.410	25.550	-4.480
2923	44.360	25.550	-4.480
2924	46.310	25.550	-4.480
2925	48.260	25.550	-4.480
2926	0.443	25.550	2.973
2927	5.447	25.550	6.193
2928	3.780	25.550	5.117
2929	8.955	25.550	8.072
2930	7.183	25.550	7.159
2941	55.264	25.550	1.492
2942	53.425	25.550	2.212
2943	51.586	25.550	2.932
2944	58.873	25.550	-0.097
2945	57.085	25.550	0.733
2947	63.783	25.550	-2.877
2949	-3.723	25.550	-0.259
2950	-2.350	25.550	0.624
2951	12.302	25.550	10.001
2952	13.878	25.550	11.019
2953	15.454	25.550	12.036
2954	53.426	25.550	-2.378
2958	1.243	25.550	-13.663
2959	5.360	25.550	-13.680
2960	7.310	25.550	-13.680
2961	9.260	25.550	-13.680
2962	11.210	25.550	-13.680
2963	13.160	25.550	-13.680
2964	17.060	25.550	-13.680
2965	19.010	25.550	-13.680
2966	20.960	25.550	-13.680
2967	22.910	25.550	-13.680
2968	24.860	25.550	-13.680
2969	28.760	25.550	-13.680
2970	30.710	25.550	-13.680
2971	32.660	25.550	-13.680
2972	34.610	25.550	-13.680
2973	36.560	25.550	-13.680
2974	40.460	25.550	-13.680
2975	42.410	25.550	-13.680
2976	44.360	25.550	-13.680
2977	46.310	25.550	-13.680
2978	48.260	25.550	-13.680
2979	52.270	25.550	-13.670
2980	54.330	25.550	-13.660
2983	36.560	25.550	-3.730
2984	34.610	25.550	-3.730
2985	32.660	25.550	-3.730
2986	30.710	25.550	-3.730
2987	28.760	25.550	-3.730

Nodes Cont...

Node	X (m)	Y (m)	Z (m)
2988	13.160	25.550	-11.230
2989	11.210	25.550	-11.230
2990	9.260	25.550	-11.230
2991	7.310	25.550	-11.230
2992	5.360	25.550	-11.230
2993	24.860	25.550	-11.230
2994	22.910	25.550	-11.230
2995	20.960	25.550	-11.230
2996	19.010	25.550	-11.230
2997	17.060	25.550	-11.230
2998	36.560	25.550	-11.230
2999	34.610	25.550	-11.230
3000	32.660	25.550	-11.230
3001	30.710	25.550	-11.230
3002	28.760	25.550	-11.230
3003	48.260	25.550	-11.230
3004	46.310	25.550	-11.230
3005	44.360	25.550	-11.230
3006	42.410	25.550	-11.230
3007	40.460	25.550	-11.230
3008	5.750	25.550	13.043
3009	4.079	25.550	11.975
3010	2.407	25.550	10.908
3011	0.736	25.550	9.840
3012	-0.936	25.550	8.772
3013	-2.607	25.550	7.704
3014	10.656	25.550	16.022
3015	9.038	25.550	15.066
3016	38.040	25.550	15.864
3017	36.270	25.550	16.694
3018	34.499	25.550	17.524
3019	32.729	25.550	18.354
3020	30.959	25.550	19.185
3021	29.188	25.550	20.015
3022	50.533	25.550	10.019
3023	48.746	25.550	10.855
3024	46.959	25.550	11.691
3025	45.172	25.550	12.526
3026	43.385	25.550	13.362
3027	41.598	25.550	14.198
3028	63.043	25.550	4.195
3029	61.256	25.550	5.026
3030	59.469	25.550	5.858
3031	57.682	25.550	6.689
3032	55.895	25.550	7.521
3033	54.108	25.550	8.352
3038	-7.030	25.550	4.879
3039	-5.654	25.550	5.758
3040	38.567	25.550	16.998
3041	36.798	25.550	17.827
3042	35.029	25.550	18.657
3043	33.261	25.550	19.486
3044	31.492	25.550	20.316
3045	29.723	25.550	21.145

Nodes Cont...

Node	X (m)	Y (m)	Z (m)
3046	51.059	25.550	11.154
3047	49.272	25.550	11.990
3048	47.485	25.550	12.825
3049	45.697	25.550	13.661
3050	43.910	25.550	14.497
3051	42.123	25.550	15.332
3052	58.208	25.550	7.824
3053	56.420	25.550	8.655
3054	54.633	25.550	9.487
3056	66.358	25.550	2.653
3057	28.290	25.550	9.094
3058	26.533	25.550	9.911
3059	24.741	25.550	10.745
3060	39.067	25.550	4.080
3061	37.278	25.550	4.912
3062	6.286	25.550	1.231
3063	4.588	25.550	0.149
3064	2.941	25.550	-0.902
3067	16.136	25.550	7.513
3068	14.556	25.550	6.505
3069	11.302	25.550	4.430
3070	9.630	25.550	3.364
3071	7.958	25.550	2.298
3072	-4.262	25.550	10.271
3073	-2.590	25.550	11.339
3074	-0.919	25.550	12.407
3075	0.753	25.550	13.475
3076	2.424	25.550	14.542
3077	4.096	25.550	15.610
3078	7.384	25.550	17.634
3079	59.995	25.550	6.992
3080	61.782	25.550	6.161
3081	63.569	25.550	5.330
3082	40.856	25.550	3.248
3083	42.644	25.550	2.416
3084	44.433	25.550	1.583
3085	46.222	25.550	0.751
3086	-8.677	25.550	7.439
3087	-7.303	25.550	8.322
3088	6.113	25.550	-2.164
3089	5.604	25.550	-3.730
3090	48.033	25.550	-3.730
3091	40.460	25.550	-3.730
3092	42.410	25.550	-3.730
3093	44.360	25.550	-3.730
3094	46.310	25.550	-3.730
3095	7.310	25.550	-3.730
3096	9.260	25.550	-3.730
3097	11.210	25.550	-3.730
3098	13.160	25.550	-3.730
3099	66.882	25.550	3.785
3102	-6.976	25.550	-2.430
3103	-5.342	25.550	-1.357
3104	-8.660	25.550	3.838

Nodes Cont...

Node	X (m)	Y (m)	Z (m)
3105	-10.308	25.550	2.785
3106	69.673	25.550	1.111
3107	71.462	25.550	0.278
3108	67.054	25.550	-4.433
3109	-11.941	25.550	5.340
3110	-10.297	25.550	6.397
3111	70.199	25.550	2.235
3112	72.018	25.550	1.386
3116	17.060	25.550	-3.730
3117	19.010	25.550	-3.730
3118	20.960	25.550	-3.730
3119	22.910	25.550	-3.730
3120	24.860	25.550	-3.730
3121	30.115	25.550	8.244
3122	31.907	25.550	7.411
3123	33.698	25.550	6.578
3124	48.011	25.550	-0.081
3126	23.978	25.550	13.690
3127	61.500	23.550	-3.796
3128	62.258	23.550	-2.167
3129	64.831	23.550	3.363
3130	64.008	23.550	1.595
3131	56.460	23.550	1.024
3132	60.720	23.550	-0.956
3133	58.873	23.550	-0.097
3134	57.085	23.550	0.733
3135	22.536	25.550	24.516
3136	8.267	25.550	18.089
3140	11.625	25.550	16.595
3141	9.753	25.550	17.424
3142	22.394	25.550	23.201
3144	24.063	25.550	22.419
3145	25.731	25.550	21.636
3149	24.592	25.550	23.551
3150	26.259	25.550	22.770
3151	-2.146	25.550	-11.230
3152	-2.987	25.550	-13.631
3153	-0.687	25.550	-7.759
3154	1.243	25.550	-11.230
3155	-0.723	25.550	-13.648
3156	-5.733	25.550	-3.483
3157	-0.723	25.550	-11.230
3159	-1.009	25.550	-4.480
3160	1.197	25.550	-4.480
3164	22.444	25.550	21.285
3170	17.659	25.550	18.197
3171	19.254	25.550	19.226
3172	20.849	25.550	20.256
3173	24.196	25.550	15.146
3179	22.285	25.550	11.435
3180	23.557	25.550	12.794
3184	56.660	25.550	-13.649
3185	55.760	25.550	-11.230
3186	54.668	25.550	-8.295

Nodes Cont...

Node	X (m)	Y (m)	Z (m)
3187	65.105	25.550	-8.658
3188	58.450	25.550	-5.804
3192	60.191	25.550	-6.551
3193	61.759	25.550	-7.223
3196	54.317	25.550	-11.230
3197	52.264	25.550	-11.230
3203	0.000	29.750	0.000
3204	11.700	29.750	7.474
3205	36.480	29.750	7.874
3206	48.990	29.750	2.024
3207	61.500	29.750	-3.796
3208	55.510	29.750	-1.016
3209	56.460	29.750	1.024
3210	60.720	29.750	-0.956
3211	3.410	29.750	-4.480
3212	15.110	29.750	-4.480
3213	26.810	29.750	-4.480
3214	38.510	29.750	-4.480
3215	50.210	29.750	-4.480
3216	-0.973	29.750	1.510
3217	10.727	29.750	8.984
3218	37.238	29.750	9.503
3219	49.748	29.750	3.653
3220	62.258	29.750	-2.167
3221	24.769	29.750	15.350
3222	2.050	29.750	4.000
3224	3.410	29.750	-11.230
3225	15.110	29.750	-11.230
3226	26.810	29.750	-11.230
3227	38.510	29.750	-11.230
3228	50.210	29.750	-11.230
3229	7.421	29.750	14.110
3230	27.400	29.750	20.854
3231	39.810	29.750	15.034
3232	52.320	29.750	9.184
3233	-4.278	29.750	6.637
3234	64.831	29.750	3.363
3235	-3.221	29.750	4.998
3236	8.478	29.750	12.472
3237	26.559	29.750	19.094
3238	38.987	29.750	13.266
3239	51.498	29.750	7.416
3240	64.008	29.750	1.595
3241	-1.867	29.750	2.897
3242	9.833	29.750	10.370
3243	25.480	29.750	16.839
3244	37.933	29.750	10.999
3245	50.443	29.750	5.149
3246	62.954	29.750	-0.671
3247	3.410	29.750	-6.080
3248	15.110	29.750	-6.080
3249	26.810	29.750	-6.080
3250	38.510	29.750	-6.080
3251	50.210	29.750	-6.080

Nodes Cont...

Node	X (m)	Y (m)	Z (m)
3252	3.410	29.750	-9.480
3253	15.110	29.750	-9.480
3254	26.810	29.750	-9.480
3255	38.510	29.750	-9.480
3256	50.210	29.750	-9.480
3257	3.410	29.750	-13.680
3258	15.110	29.750	-13.680
3259	26.810	29.750	-13.680
3260	38.510	29.750	-13.680
3261	50.210	29.750	-13.680
3262	5.765	29.750	16.676
3263	-5.934	29.750	9.203
3264	27.927	29.750	21.988
3265	40.337	29.750	16.168
3266	52.847	29.750	10.318
3267	65.358	29.750	4.497
3268	-12.104	29.750	5.217
3269	-10.969	29.750	2.363
3270	-8.611	29.750	-3.503
3271	-8.137	29.750	-4.680
3272	74.188	29.750	0.390
3273	73.251	29.750	-0.554
3274	68.612	29.750	-5.169
3275	12.970	29.750	5.494
3276	22.980	29.750	11.564
3277	35.490	29.750	5.744
3278	15.110	29.750	-3.730
3279	26.810	29.750	-3.730
3280	38.510	29.750	-3.730
3281	49.516	29.750	-0.781
3282	1.423	29.750	-1.870
3283	22.695	29.750	11.696
3284	7.460	29.750	1.980
3285	46.751	29.750	0.505
3286	26.550	29.750	14.515
3287	28.331	29.750	13.680
3288	30.112	29.750	12.844
3289	31.894	29.750	12.009
3290	33.675	29.750	11.173
3291	35.456	29.750	10.338
3292	39.025	29.750	8.667
3293	40.812	29.750	7.831
3294	42.599	29.750	6.995
3295	44.386	29.750	6.160
3296	46.173	29.750	5.324
3297	47.960	29.750	4.488
3298	17.060	29.750	-4.480
3299	19.010	29.750	-4.480
3300	20.960	29.750	-4.480
3301	22.910	29.750	-4.480
3302	24.860	29.750	-4.480
3303	5.360	29.750	-4.480
3304	7.310	29.750	-4.480
3305	9.260	29.750	-4.480

Nodes Cont...

Node	X (m)	Y (m)	Z (m)
3306	11.210	29.750	-4.480
3307	13.160	29.750	-4.480
3308	28.760	29.750	-4.480
3309	30.710	29.750	-4.480
3310	32.660	29.750	-4.480
3311	34.610	29.750	-4.480
3312	36.560	29.750	-4.480
3313	40.460	29.750	-4.480
3314	42.410	29.750	-4.480
3315	44.360	29.750	-4.480
3316	46.310	29.750	-4.480
3317	48.260	29.750	-4.480
3318	0.443	29.750	2.973
3319	5.447	29.750	6.193
3320	3.780	29.750	5.117
3321	8.955	29.750	8.072
3322	7.183	29.750	7.159
3326	56.136	29.750	-1.307
3329	55.264	29.750	1.492
3330	53.425	29.750	2.212
3331	51.586	29.750	2.932
3332	58.873	29.750	-0.097
3333	57.085	29.750	0.733
3335	63.783	29.750	-2.877
3337	-3.723	29.750	-0.259
3338	-2.350	29.750	0.624
3339	12.302	29.750	10.001
3340	13.878	29.750	11.019
3342	53.426	29.750	-2.378
3343	1.243	29.750	-13.663
3344	5.360	29.750	-13.680
3345	7.310	29.750	-13.680
3346	9.260	29.750	-13.680
3347	11.210	29.750	-13.680
3348	13.160	29.750	-13.680
3349	17.060	29.750	-13.680
3350	19.010	29.750	-13.680
3351	20.960	29.750	-13.680
3352	22.910	29.750	-13.680
3353	24.860	29.750	-13.680
3354	28.760	29.750	-13.680
3355	30.710	29.750	-13.680
3356	32.660	29.750	-13.680
3357	34.610	29.750	-13.680
3358	36.560	29.750	-13.680
3359	40.460	29.750	-13.680
3360	42.410	29.750	-13.680
3361	44.360	29.750	-13.680
3362	46.310	29.750	-13.680
3363	48.260	29.750	-13.680
3364	52.270	29.750	-13.670
3365	54.330	29.750	-13.660
3366	36.560	29.750	-3.730
3367	34.610	29.750	-3.730

Nodes Cont...

Node	X (m)	Y (m)	Z (m)
3368	32.660	29.750	-3.730
3369	30.710	29.750	-3.730
3370	28.760	29.750	-3.730
3371	13.160	29.750	-11.230
3372	11.210	29.750	-11.230
3373	9.260	29.750	-11.230
3374	7.310	29.750	-11.230
3375	5.360	29.750	-11.230
3376	24.860	29.750	-11.230
3377	22.910	29.750	-11.230
3378	20.960	29.750	-11.230
3379	19.010	29.750	-11.230
3380	17.060	29.750	-11.230
3381	36.560	29.750	-11.230
3382	34.610	29.750	-11.230
3383	32.660	29.750	-11.230
3384	30.710	29.750	-11.230
3385	28.760	29.750	-11.230
3386	48.260	29.750	-11.230
3387	46.310	29.750	-11.230
3388	44.360	29.750	-11.230
3389	42.410	29.750	-11.230
3390	40.460	29.750	-11.230
3391	5.750	29.750	13.043
3392	4.079	29.750	11.975
3393	2.407	29.750	10.908
3394	0.736	29.750	9.840
3395	-0.936	29.750	8.772
3396	-2.607	29.750	7.704
3397	10.656	29.750	16.022
3398	9.038	29.750	15.066
3399	38.040	29.750	15.864
3400	36.270	29.750	16.694
3401	34.499	29.750	17.524
3402	32.729	29.750	18.354
3403	30.959	29.750	19.185
3404	29.188	29.750	20.015
3405	50.533	29.750	10.019
3406	48.746	29.750	10.855
3407	46.959	29.750	11.691
3408	45.172	29.750	12.526
3409	43.385	29.750	13.362
3410	41.598	29.750	14.198
3411	63.043	29.750	4.195
3412	61.256	29.750	5.026
3413	59.469	29.750	5.858
3414	57.682	29.750	6.689
3415	55.895	29.750	7.521
3416	54.108	29.750	8.352
3417	-7.030	29.750	4.879
3418	-5.654	29.750	5.758
3419	38.567	29.750	16.998
3420	36.798	29.750	17.827
3421	35.029	29.750	18.657

Nodes Cont...

Node	X (m)	Y (m)	Z (m)
3422	33.261	29.750	19.486
3423	31.492	29.750	20.316
3424	29.723	29.750	21.145
3425	51.059	29.750	11.154
3426	49.272	29.750	11.990
3427	47.485	29.750	12.825
3428	45.697	29.750	13.661
3429	43.910	29.750	14.497
3430	42.123	29.750	15.332
3431	58.208	29.750	7.824
3432	56.420	29.750	8.655
3433	54.633	29.750	9.487
3435	66.358	29.750	2.653
3436	28.290	29.750	9.094
3437	26.533	29.750	9.911
3438	24.741	29.750	10.745
3439	39.067	29.750	4.080
3440	37.278	29.750	4.912
3441	6.286	29.750	1.231
3442	4.588	29.750	0.149
3443	2.941	29.750	-0.902
3444	19.282	29.750	9.519
3445	16.136	29.750	7.513
3446	14.556	29.750	6.505
3447	11.302	29.750	4.430
3448	9.630	29.750	3.364
3449	7.958	29.750	2.298
3450	-4.262	29.750	10.271
3451	-2.590	29.750	11.339
3452	-0.919	29.750	12.407
3453	0.753	29.750	13.475
3454	2.424	29.750	14.542
3455	4.096	29.750	15.610
3456	7.384	29.750	17.634
3457	59.995	29.750	6.992
3458	61.782	29.750	6.161
3459	63.569	29.750	5.330
3460	40.856	29.750	3.248
3461	42.644	29.750	2.416
3462	44.433	29.750	1.583
3463	46.222	29.750	0.751
3464	-8.677	29.750	7.439
3465	-7.303	29.750	8.322
3466	6.113	29.750	-2.164
3467	5.604	29.750	-3.730
3468	48.033	29.750	-3.730
3469	40.460	29.750	-3.730
3470	42.410	29.750	-3.730
3471	44.360	29.750	-3.730
3472	46.310	29.750	-3.730
3473	7.310	29.750	-3.730
3474	9.260	29.750	-3.730
3475	11.210	29.750	-3.730
3476	13.160	29.750	-3.730

Nodes Cont...

Node	X (m)	Y (m)	Z (m)
3477	66.882	29.750	3.785
3479	-6.976	29.750	-2.430
3480	-5.342	29.750	-1.357
3481	-8.660	29.750	3.838
3482	-10.308	29.750	2.785
3483	69.673	29.750	1.111
3484	71.462	29.750	0.278
3485	67.054	29.750	-4.433
3486	-11.941	29.750	5.340
3487	-10.297	29.750	6.397
3488	70.199	29.750	2.235
3489	72.018	29.750	1.386
3490	17.060	29.750	-3.730
3491	19.010	29.750	-3.730
3492	20.960	29.750	-3.730
3493	22.910	29.750	-3.730
3494	24.860	29.750	-3.730
3495	30.115	29.750	8.244
3496	31.907	29.750	7.411
3497	33.698	29.750	6.578
3498	48.011	29.750	-0.081
3500	23.978	29.750	13.690
3501	61.500	27.750	-3.796
3502	62.258	27.750	-2.167
3503	64.831	27.750	3.363
3504	64.008	27.750	1.595
3505	56.460	27.750	1.024
3506	60.720	27.750	-0.956
3507	58.873	27.750	-0.097
3508	57.085	27.750	0.733
3509	22.536	29.750	24.516
3511	11.625	29.750	16.595
3512	9.753	29.750	17.424
3513	22.394	29.750	23.201
3514	24.063	29.750	22.419
3515	25.731	29.750	21.636
3516	24.592	29.750	23.551
3517	26.259	29.750	22.770
3518	-2.146	29.750	-11.230
3519	-2.987	29.750	-13.631
3520	-0.687	29.750	-7.759
3521	1.243	29.750	-11.230
3522	-0.723	29.750	-13.648
3523	-5.733	29.750	-3.483
3524	-0.723	29.750	-11.230
3526	-1.009	29.750	-4.480
3527	1.197	29.750	-4.480
3547	56.660	29.750	-13.649
3548	55.760	29.750	-11.230
3549	54.668	29.750	-8.295
3550	65.105	29.750	-8.658
3551	58.450	29.750	-5.804
3555	60.191	29.750	-6.551
3556	61.759	29.750	-7.223

Nodes Cont...

Node	X (m)	Y (m)	Z (m)
3558	54.317	29.750	-11.230
3559	52.264	29.750	-11.230
3563	8.267	29.750	18.089
3564	18.086	29.750	13.736
3565	15.996	29.750	14.661
3566	12.875	29.750	16.042
3567	22.573	29.750	16.380
3568	22.501	29.750	19.109
3569	22.610	29.750	14.980
3570	23.141	29.750	16.114
3571	17.685	29.750	8.501
3572	17.025	29.750	13.051
3573	15.437	29.750	12.025
3576	0.000	33.950	0.000
3577	11.700	33.950	7.474
3578	36.480	33.950	7.874
3579	48.990	33.950	2.024
3580	61.500	33.950	-3.796
3581	55.510	33.950	-1.016
3582	56.460	33.950	1.024
3583	60.720	33.950	-0.956
3584	3.410	33.950	-4.480
3585	15.110	33.950	-4.480
3586	26.810	33.950	-4.480
3587	38.510	33.950	-4.480
3588	50.210	33.950	-4.480
3589	-0.973	33.950	1.510
3590	10.727	33.950	8.984
3591	37.238	33.950	9.503
3592	49.748	33.950	3.653
3593	62.258	33.950	-2.167
3594	24.769	33.950	15.350
3595	2.050	33.950	4.000
3596	6.000	33.950	6.550
3597	3.410	33.950	-11.230
3598	15.110	33.950	-11.230
3599	26.810	33.950	-11.230
3600	38.510	33.950	-11.230
3601	50.210	33.950	-11.230
3602	7.421	33.950	14.110
3603	27.400	33.950	20.854
3604	39.810	33.950	15.034
3605	52.320	33.950	9.184
3606	-4.278	33.950	6.637
3607	64.831	33.950	3.363
3608	-3.221	33.950	4.998
3609	8.478	33.950	12.472
3610	26.559	33.950	19.094
3611	38.987	33.950	13.266
3612	51.498	33.950	7.416
3613	64.008	33.950	1.595
3614	-1.867	33.950	2.897
3615	9.833	33.950	10.370
3616	25.480	33.950	16.839

Nodes Cont...

Node	X (m)	Y (m)	Z (m)
3617	37.933	33.950	10.999
3618	50.443	33.950	5.149
3619	62.954	33.950	-0.671
3620	3.410	33.950	-6.080
3621	15.110	33.950	-6.080
3622	26.810	33.950	-6.080
3623	38.510	33.950	-6.080
3624	50.210	33.950	-6.080
3625	3.410	33.950	-9.480
3626	15.110	33.950	-9.480
3627	26.810	33.950	-9.480
3628	38.510	33.950	-9.480
3629	50.210	33.950	-9.480
3630	3.410	33.950	-13.680
3631	15.110	33.950	-13.680
3632	26.810	33.950	-13.680
3633	38.510	33.950	-13.680
3634	50.210	33.950	-13.680
3635	5.765	33.950	16.676
3636	-5.934	33.950	9.203
3637	27.927	33.950	21.988
3638	40.337	33.950	16.168
3639	52.847	33.950	10.318
3640	65.358	33.950	4.497
3641	-12.104	33.950	5.217
3642	-10.969	33.950	2.363
3643	-8.611	33.950	-3.503
3644	-8.137	33.950	-4.680
3645	74.188	33.950	0.390
3646	73.251	33.950	-0.554
3647	68.612	33.950	-5.169
3648	12.970	33.950	5.494
3649	22.980	33.950	11.564
3650	35.490	33.950	5.744
3651	15.110	33.950	-3.730
3652	26.810	33.950	-3.730
3653	38.510	33.950	-3.730
3654	49.516	33.950	-0.781
3655	1.423	33.950	-1.870
3656	22.695	33.950	11.696
3657	7.460	33.950	1.980
3658	46.751	33.950	0.505
3659	26.550	33.950	14.515
3660	28.331	33.950	13.680
3661	30.112	33.950	12.844
3662	31.894	33.950	12.009
3663	33.675	33.950	11.173
3664	35.456	33.950	10.338
3665	39.025	33.950	8.667
3666	40.812	33.950	7.831
3667	42.599	33.950	6.995
3668	44.386	33.950	6.160
3669	46.173	33.950	5.324
3670	47.960	33.950	4.488

Nodes Cont...

Node	X (m)	Y (m)	Z (m)
3671	17.060	33.950	-4.480
3672	19.010	33.950	-4.480
3673	20.960	33.950	-4.480
3674	22.910	33.950	-4.480
3675	24.860	33.950	-4.480
3676	5.360	33.950	-4.480
3677	7.310	33.950	-4.480
3678	9.260	33.950	-4.480
3679	11.210	33.950	-4.480
3680	13.160	33.950	-4.480
3681	28.760	33.950	-4.480
3682	30.710	33.950	-4.480
3683	32.660	33.950	-4.480
3684	34.610	33.950	-4.480
3685	36.560	33.950	-4.480
3686	40.460	33.950	-4.480
3687	42.410	33.950	-4.480
3688	44.360	33.950	-4.480
3689	46.310	33.950	-4.480
3690	48.260	33.950	-4.480
3691	0.443	33.950	2.973
3692	5.447	33.950	6.193
3693	3.780	33.950	5.117
3694	8.955	33.950	8.072
3695	7.183	33.950	7.159
3699	56.136	33.950	-1.307
3702	55.264	33.950	1.492
3703	53.425	33.950	2.212
3704	51.586	33.950	2.932
3705	58.873	33.950	-0.097
3706	57.085	33.950	0.733
3708	63.783	33.950	-2.877
3710	-3.723	33.950	-0.259
3711	-2.350	33.950	0.624
3712	12.302	33.950	10.001
3713	13.878	33.950	11.019
3714	15.454	33.950	12.036
3715	53.426	33.950	-2.378
3716	1.243	33.950	-13.663
3717	5.360	33.950	-13.680
3718	7.310	33.950	-13.680
3719	9.260	33.950	-13.680
3720	11.210	33.950	-13.680
3721	13.160	33.950	-13.680
3722	17.060	33.950	-13.680
3723	19.010	33.950	-13.680
3724	20.960	33.950	-13.680
3725	22.910	33.950	-13.680
3726	24.860	33.950	-13.680
3727	28.760	33.950	-13.680
3728	30.710	33.950	-13.680
3729	32.660	33.950	-13.680
3730	34.610	33.950	-13.680
3731	36.560	33.950	-13.680

Nodes Cont...

Node	X (m)	Y (m)	Z (m)
3732	40.460	33.950	-13.680
3733	42.410	33.950	-13.680
3734	44.360	33.950	-13.680
3735	46.310	33.950	-13.680
3736	48.260	33.950	-13.680
3737	52.270	33.950	-13.670
3738	54.330	33.950	-13.660
3739	36.560	33.950	-3.730
3740	34.610	33.950	-3.730
3741	32.660	33.950	-3.730
3742	30.710	33.950	-3.730
3743	28.760	33.950	-3.730
3744	13.160	33.950	-11.230
3745	11.210	33.950	-11.230
3746	9.260	33.950	-11.230
3747	7.310	33.950	-11.230
3748	5.360	33.950	-11.230
3749	24.860	33.950	-11.230
3750	22.910	33.950	-11.230
3751	20.960	33.950	-11.230
3752	19.010	33.950	-11.230
3753	17.060	33.950	-11.230
3754	36.560	33.950	-11.230
3755	34.610	33.950	-11.230
3756	32.660	33.950	-11.230
3757	30.710	33.950	-11.230
3758	28.760	33.950	-11.230
3759	48.260	33.950	-11.230
3760	46.310	33.950	-11.230
3761	44.360	33.950	-11.230
3762	42.410	33.950	-11.230
3763	40.460	33.950	-11.230
3764	5.750	33.950	13.043
3765	4.079	33.950	11.975
3766	2.407	33.950	10.908
3767	0.736	33.950	9.840
3768	-0.936	33.950	8.772
3769	-2.607	33.950	7.704
3770	10.656	33.950	16.022
3771	9.038	33.950	15.066
3772	38.040	33.950	15.864
3773	36.270	33.950	16.694
3774	34.499	33.950	17.524
3775	32.729	33.950	18.354
3776	30.959	33.950	19.185
3777	29.188	33.950	20.015
3778	50.533	33.950	10.019
3779	48.746	33.950	10.855
3780	46.959	33.950	11.691
3781	45.172	33.950	12.526
3782	43.385	33.950	13.362
3783	41.598	33.950	14.198
3784	63.043	33.950	4.195
3785	61.256	33.950	5.026

Nodes Cont...

Node	X (m)	Y (m)	Z (m)
3786	59.469	33.950	5.858
3787	57.682	33.950	6.689
3788	55.895	33.950	7.521
3789	54.108	33.950	8.352
3790	-7.030	33.950	4.879
3791	-5.654	33.950	5.758
3792	38.567	33.950	16.998
3793	36.798	33.950	17.827
3794	35.029	33.950	18.657
3795	33.261	33.950	19.486
3796	31.492	33.950	20.316
3797	29.723	33.950	21.145
3798	51.059	33.950	11.154
3799	49.272	33.950	11.990
3800	47.485	33.950	12.825
3801	45.697	33.950	13.661
3802	43.910	33.950	14.497
3803	42.123	33.950	15.332
3804	58.208	33.950	7.824
3805	56.420	33.950	8.655
3806	54.633	33.950	9.487
3808	66.358	33.950	2.653
3809	28.290	33.950	9.094
3810	26.533	33.950	9.911
3811	24.741	33.950	10.745
3812	39.067	33.950	4.080
3813	37.278	33.950	4.912
3814	6.286	33.950	1.231
3815	4.588	33.950	0.149
3816	2.941	33.950	-0.902
3817	19.282	33.950	9.519
3818	16.136	33.950	7.513
3819	14.556	33.950	6.505
3820	11.302	33.950	4.430
3821	9.630	33.950	3.364
3822	7.958	33.950	2.298
3823	-4.262	33.950	10.271
3824	-2.590	33.950	11.339
3825	-0.919	33.950	12.407
3826	0.753	33.950	13.475
3827	2.424	33.950	14.542
3828	4.096	33.950	15.610
3829	7.384	33.950	17.634
3830	59.995	33.950	6.992
3831	61.782	33.950	6.161
3832	63.569	33.950	5.330
3833	40.856	33.950	3.248
3834	42.644	33.950	2.416
3835	44.433	33.950	1.583
3836	46.222	33.950	0.751
3837	-8.677	33.950	7.439
3838	-7.303	33.950	8.322
3839	6.113	33.950	-2.164
3840	5.604	33.950	-3.730

Nodes Cont...

Node	X (m)	Y (m)	Z (m)
3841	48.033	33.950	-3.730
3842	40.460	33.950	-3.730
3843	42.410	33.950	-3.730
3844	44.360	33.950	-3.730
3845	46.310	33.950	-3.730
3846	7.310	33.950	-3.730
3847	9.260	33.950	-3.730
3848	11.210	33.950	-3.730
3849	13.160	33.950	-3.730
3850	66.882	33.950	3.785
3852	-6.976	33.950	-2.430
3853	-5.342	33.950	-1.357
3854	-8.660	33.950	3.838
3855	-10.308	33.950	2.785
3856	69.673	33.950	1.111
3857	71.462	33.950	0.278
3858	67.054	33.950	-4.433
3859	-11.941	33.950	5.340
3860	-10.297	33.950	6.397
3861	70.199	33.950	2.235
3862	72.018	33.950	1.386
3863	17.060	33.950	-3.730
3864	19.010	33.950	-3.730
3865	20.960	33.950	-3.730
3866	22.910	33.950	-3.730
3867	24.860	33.950	-3.730
3868	30.115	33.950	8.244
3869	31.907	33.950	7.411
3870	33.698	33.950	6.578
3871	48.011	33.950	-0.081
3873	23.978	33.950	13.690
3874	61.500	31.950	-3.796
3875	62.258	31.950	-2.167
3876	64.831	31.950	3.363
3877	64.008	31.950	1.595
3878	56.460	31.950	1.024
3879	60.720	31.950	-0.956
3880	58.873	31.950	-0.097
3881	57.085	31.950	0.733
3882	22.536	33.950	24.516
3883	8.267	33.950	18.089
3884	11.625	33.950	16.595
3885	9.753	33.950	17.424
3886	22.394	33.950	23.201
3887	24.063	33.950	22.419
3888	25.731	33.950	21.636
3889	24.592	33.950	23.551
3890	26.259	33.950	22.770
3891	-2.146	33.950	-11.230
3892	-2.987	33.950	-13.631
3893	-0.687	33.950	-7.759
3894	1.243	33.950	-11.230
3895	-0.723	33.950	-13.648
3896	-5.733	33.950	-3.483

Nodes Cont...

Node	X (m)	Y (m)	Z (m)
3897	-0.723	33.950	-11.230
3899	-1.009	33.950	-4.480
3900	1.197	33.950	-4.480
3903	22.444	33.950	21.285
3907	16.064	33.950	17.167
3908	17.659	33.950	18.197
3909	19.254	33.950	19.226
3910	20.849	33.950	20.256
3917	22.285	33.950	11.435
3918	23.557	33.950	12.794
3920	56.660	33.950	-13.649
3921	55.760	33.950	-11.230
3922	54.668	33.950	-8.295
3923	65.105	33.950	-8.658
3924	58.450	33.950	-5.804
3928	60.191	33.950	-6.551
3929	61.759	33.950	-7.223
3931	54.317	33.950	-11.230
3932	52.264	33.950	-11.230
3938	0.000	38.150	0.000
3939	11.700	38.150	7.474
3940	36.480	38.150	7.874
3941	48.990	38.150	2.024
3942	61.500	38.150	-3.796
3943	55.510	38.150	-1.016
3944	56.460	38.150	1.024
3945	60.720	38.150	-0.956
3946	3.410	38.150	-4.480
3947	15.110	38.150	-4.480
3948	26.810	38.150	-4.480
3949	38.510	38.150	-4.480
3950	50.210	38.150	-4.480
3951	-0.973	38.150	1.510
3952	10.727	38.150	8.984
3953	37.238	38.150	9.503
3954	49.748	38.150	3.653
3955	62.258	38.150	-2.167
3956	24.769	38.150	15.350
3957	2.050	38.150	4.000
3959	3.410	38.150	-11.230
3960	15.110	38.150	-11.230
3961	26.810	38.150	-11.230
3962	38.510	38.150	-11.230
3963	50.210	38.150	-11.230
3964	7.421	38.150	14.110
3965	27.400	38.150	20.854
3966	39.810	38.150	15.034
3967	52.320	38.150	9.184
3968	-4.278	38.150	6.637
3969	64.831	38.150	3.363
3970	-3.221	38.150	4.998
3971	8.478	38.150	12.472
3972	26.559	38.150	19.094
3973	38.987	38.150	13.266

Nodes Cont...

Node	X (m)	Y (m)	Z (m)
3974	51.498	38.150	7.416
3975	64.008	38.150	1.595
3976	-1.867	38.150	2.897
3977	9.833	38.150	10.370
3978	25.480	38.150	16.839
3979	37.933	38.150	10.999
3980	50.443	38.150	5.149
3981	62.954	38.150	-0.671
3982	3.410	38.150	-6.080
3983	15.110	38.150	-6.080
3984	26.810	38.150	-6.080
3985	38.510	38.150	-6.080
3986	50.210	38.150	-6.080
3987	3.410	38.150	-9.480
3988	15.110	38.150	-9.480
3989	26.810	38.150	-9.480
3990	38.510	38.150	-9.480
3991	50.210	38.150	-9.480
3992	3.410	38.150	-13.680
3993	15.110	38.150	-13.680
3994	26.810	38.150	-13.680
3995	38.510	38.150	-13.680
3996	50.210	38.150	-13.680
3997	5.765	38.150	16.676
3998	-5.934	38.150	9.203
3999	27.927	38.150	21.988
4000	40.337	38.150	16.168
4001	52.847	38.150	10.318
4002	65.358	38.150	4.497
4003	-12.104	38.150	5.217
4004	-10.969	38.150	2.363
4005	-8.611	38.150	-3.503
4006	-8.137	38.150	-4.680
4007	74.188	38.150	0.390
4008	73.251	38.150	-0.554
4009	68.612	38.150	-5.169
4010	12.970	38.150	5.494
4011	22.980	38.150	11.564
4012	35.490	38.150	5.744
4013	15.110	38.150	-3.730
4014	26.810	38.150	-3.730
4015	38.510	38.150	-3.730
4016	49.516	38.150	-0.781
4017	1.423	38.150	-1.870
4018	22.695	38.150	11.696
4019	7.460	38.150	1.980
4020	46.751	38.150	0.505
4021	26.550	38.150	14.515
4022	28.331	38.150	13.680
4023	30.112	38.150	12.844
4024	31.894	38.150	12.009
4025	33.675	38.150	11.173
4026	35.456	38.150	10.338
4027	39.025	38.150	8.667

Nodes Cont...

Node	X (m)	Y (m)	Z (m)
4028	40.812	38.150	7.831
4029	42.599	38.150	6.995
4030	44.386	38.150	6.160
4031	46.173	38.150	5.324
4032	47.960	38.150	4.488
4033	17.060	38.150	-4.480
4034	19.010	38.150	-4.480
4035	20.960	38.150	-4.480
4036	22.910	38.150	-4.480
4037	24.860	38.150	-4.480
4038	5.360	38.150	-4.480
4039	7.310	38.150	-4.480
4040	9.260	38.150	-4.480
4041	11.210	38.150	-4.480
4042	13.160	38.150	-4.480
4043	28.760	38.150	-4.480
4044	30.710	38.150	-4.480
4045	32.660	38.150	-4.480
4046	34.610	38.150	-4.480
4047	36.560	38.150	-4.480
4048	40.460	38.150	-4.480
4049	42.410	38.150	-4.480
4050	44.360	38.150	-4.480
4051	46.310	38.150	-4.480
4052	48.260	38.150	-4.480
4053	0.443	38.150	2.973
4054	5.447	38.150	6.193
4055	3.780	38.150	5.117
4056	8.955	38.150	8.072
4057	7.183	38.150	7.159
4061	56.136	38.150	-1.307
4064	55.264	38.150	1.492
4065	53.425	38.150	2.212
4066	51.586	38.150	2.932
4067	58.873	38.150	-0.097
4068	57.085	38.150	0.733
4070	63.783	38.150	-2.877
4072	-3.723	38.150	-0.259
4073	-2.350	38.150	0.624
4074	12.302	38.150	10.001
4075	13.878	38.150	11.019
4076	53.426	38.150	-2.378
4077	1.243	38.150	-13.663
4078	5.360	38.150	-13.680
4079	7.310	38.150	-13.680
4080	9.260	38.150	-13.680
4081	11.210	38.150	-13.680
4082	13.160	38.150	-13.680
4083	17.060	38.150	-13.680
4084	19.010	38.150	-13.680
4085	20.960	38.150	-13.680
4086	22.910	38.150	-13.680
4087	24.860	38.150	-13.680
4088	28.760	38.150	-13.680

Nodes Cont...

Node	X (m)	Y (m)	Z (m)
4089	30.710	38.150	-13.680
4090	32.660	38.150	-13.680
4091	34.610	38.150	-13.680
4092	36.560	38.150	-13.680
4093	40.460	38.150	-13.680
4094	42.410	38.150	-13.680
4095	44.360	38.150	-13.680
4096	46.310	38.150	-13.680
4097	48.260	38.150	-13.680
4098	52.270	38.150	-13.670
4099	54.330	38.150	-13.660
4100	36.560	38.150	-3.730
4101	34.610	38.150	-3.730
4102	32.660	38.150	-3.730
4103	30.710	38.150	-3.730
4104	28.760	38.150	-3.730
4105	13.160	38.150	-11.230
4106	11.210	38.150	-11.230
4107	9.260	38.150	-11.230
4108	7.310	38.150	-11.230
4109	5.360	38.150	-11.230
4110	24.860	38.150	-11.230
4111	22.910	38.150	-11.230
4112	20.960	38.150	-11.230
4113	19.010	38.150	-11.230
4114	17.060	38.150	-11.230
4115	36.560	38.150	-11.230
4116	34.610	38.150	-11.230
4117	32.660	38.150	-11.230
4118	30.710	38.150	-11.230
4119	28.760	38.150	-11.230
4120	48.260	38.150	-11.230
4121	46.310	38.150	-11.230
4122	44.360	38.150	-11.230
4123	42.410	38.150	-11.230
4124	40.460	38.150	-11.230
4125	5.750	38.150	13.043
4126	4.079	38.150	11.975
4127	2.407	38.150	10.908
4128	0.736	38.150	9.840
4129	-0.936	38.150	8.772
4130	-2.607	38.150	7.704
4131	10.656	38.150	16.022
4132	9.038	38.150	15.066
4133	38.040	38.150	15.864
4134	36.270	38.150	16.694
4135	34.499	38.150	17.524
4136	32.729	38.150	18.354
4137	30.959	38.150	19.185
4138	29.188	38.150	20.015
4139	50.533	38.150	10.019
4140	48.746	38.150	10.855
4141	46.959	38.150	11.691
4142	45.172	38.150	12.526

Nodes Cont...

Node	X (m)	Y (m)	Z (m)
4143	43.385	38.150	13.362
4144	41.598	38.150	14.198
4145	63.043	38.150	4.195
4146	61.256	38.150	5.026
4147	59.469	38.150	5.858
4148	57.682	38.150	6.689
4149	55.895	38.150	7.521
4150	54.108	38.150	8.352
4151	-7.030	38.150	4.879
4152	-5.654	38.150	5.758
4153	38.567	38.150	16.998
4154	36.798	38.150	17.827
4155	35.029	38.150	18.657
4156	33.261	38.150	19.486
4157	31.492	38.150	20.316
4158	29.723	38.150	21.145
4159	51.059	38.150	11.154
4160	49.272	38.150	11.990
4161	47.485	38.150	12.825
4162	45.697	38.150	13.661
4163	43.910	38.150	14.497
4164	42.123	38.150	15.332
4165	58.208	38.150	7.824
4166	56.420	38.150	8.655
4167	54.633	38.150	9.487
4169	66.358	38.150	2.653
4170	28.290	38.150	9.094
4171	26.533	38.150	9.911
4172	24.741	38.150	10.745
4173	39.067	38.150	4.080
4174	37.278	38.150	4.912
4175	6.286	38.150	1.231
4176	4.588	38.150	0.149
4177	2.941	38.150	-0.902
4178	19.282	38.150	9.519
4179	16.136	38.150	7.513
4180	14.556	38.150	6.505
4181	11.302	38.150	4.430
4182	9.630	38.150	3.364
4183	7.958	38.150	2.298
4184	-4.262	38.150	10.271
4185	-2.590	38.150	11.339
4186	-0.919	38.150	12.407
4187	0.753	38.150	13.475
4188	2.424	38.150	14.542
4189	4.096	38.150	15.610
4190	7.384	38.150	17.634
4191	59.995	38.150	6.992
4192	61.782	38.150	6.161
4193	63.569	38.150	5.330
4194	40.856	38.150	3.248
4195	42.644	38.150	2.416
4196	44.433	38.150	1.583
4197	46.222	38.150	0.751

Nodes Cont...

Node	X (m)	Y (m)	Z (m)
4198	-8.677	38.150	7.439
4199	-7.303	38.150	8.322
4200	6.113	38.150	-2.164
4201	5.604	38.150	-3.730
4202	48.033	38.150	-3.730
4203	40.460	38.150	-3.730
4204	42.410	38.150	-3.730
4205	44.360	38.150	-3.730
4206	46.310	38.150	-3.730
4207	7.310	38.150	-3.730
4208	9.260	38.150	-3.730
4209	11.210	38.150	-3.730
4210	13.160	38.150	-3.730
4211	66.882	38.150	3.785
4213	-6.976	38.150	-2.430
4214	-5.342	38.150	-1.357
4215	-8.660	38.150	3.838
4216	-10.308	38.150	2.785
4217	69.673	38.150	1.111
4218	71.462	38.150	0.278
4219	67.054	38.150	-4.433
4220	-11.941	38.150	5.340
4221	-10.297	38.150	6.397
4222	70.199	38.150	2.235
4223	72.018	38.150	1.386
4224	17.060	38.150	-3.730
4225	19.010	38.150	-3.730
4226	20.960	38.150	-3.730
4227	22.910	38.150	-3.730
4228	24.860	38.150	-3.730
4229	30.115	38.150	8.244
4230	31.907	38.150	7.411
4231	33.698	38.150	6.578
4232	48.011	38.150	-0.081
4234	23.978	38.150	13.690
4235	61.500	36.150	-3.796
4236	62.258	36.150	-2.167
4237	64.831	36.150	3.363
4238	64.008	36.150	1.595
4239	56.460	36.150	1.024
4240	60.720	36.150	-0.956
4241	58.873	36.150	-0.097
4242	57.085	36.150	0.733
4243	22.536	38.150	24.516
4244	11.625	38.150	16.595
4245	9.753	38.150	17.424
4246	22.394	38.150	23.201
4247	24.063	38.150	22.419
4248	25.731	38.150	21.636
4249	24.592	38.150	23.551
4250	26.259	38.150	22.770
4251	-2.146	38.150	-11.230
4252	-2.987	38.150	-13.631
4253	-0.687	38.150	-7.759

Nodes Cont...

Node	X (m)	Y (m)	Z (m)
4254	1.243	38.150	-11.230
4255	-0.723	38.150	-13.648
4256	-5.733	38.150	-3.483
4257	-0.723	38.150	-11.230
4260	1.197	38.150	-4.480
4263	56.660	38.150	-13.649
4264	55.760	38.150	-11.230
4266	65.105	38.150	-8.658
4267	58.450	38.150	-5.804
4271	60.191	38.150	-6.551
4272	61.759	38.150	-7.223
4274	54.317	38.150	-11.230
4275	52.264	38.150	-11.230
4279	8.267	38.150	18.089
4280	18.086	38.150	13.736
4281	15.996	38.150	14.661
4282	12.875	38.150	16.042
4283	22.573	38.150	16.380
4284	22.501	38.150	19.109
4285	22.610	38.150	14.980
4286	23.141	38.150	16.114
4287	17.685	38.150	8.501
4288	17.025	38.150	13.051
4289	15.437	38.150	12.025
4293	0.691	38.150	-4.480
4294	-3.746	38.150	-5.167
4295	-0.114	38.150	-2.851
4296	-3.151	38.150	-4.787
4297	-1.492	38.150	-3.729
4299	0.000	42.350	0.000
4300	11.700	42.350	7.474
4301	36.480	42.350	7.874
4302	48.990	42.350	2.024
4303	61.500	42.350	-3.796
4305	56.460	42.350	1.024
4306	60.720	42.350	-0.956
4312	-0.973	42.350	1.510
4313	10.727	42.350	8.984
4314	37.238	42.350	9.503
4315	49.748	42.350	3.653
4316	62.258	42.350	-2.167
4317	24.769	42.350	15.350
4318	2.050	42.350	4.000
4325	7.421	42.350	14.110
4326	27.400	42.350	20.854
4327	39.810	42.350	15.034
4328	52.320	42.350	9.184
4329	-4.278	42.350	6.637
4330	64.831	42.350	3.363
4331	-3.221	42.350	4.998
4332	8.478	42.350	12.472
4333	26.559	42.350	19.094
4334	38.987	42.350	13.266
4335	51.498	42.350	7.416

Nodes Cont...

Node	X (m)	Y (m)	Z (m)
4336	64.008	42.350	1.595
4337	-1.867	42.350	2.897
4338	9.833	42.350	10.370
4339	25.480	42.350	16.839
4340	37.933	42.350	10.999
4341	50.443	42.350	5.149
4342	62.954	42.350	-0.671
4358	5.765	42.350	16.676
4359	-5.934	42.350	9.203
4360	27.927	42.350	21.988
4361	40.337	42.350	16.168
4362	52.847	42.350	10.318
4363	65.358	42.350	4.497
4364	-12.104	42.350	5.217
4365	-10.969	42.350	2.363
4366	-8.611	42.350	-3.503
4367	-8.137	42.350	-4.680
4368	74.188	42.350	0.390
4369	73.251	42.350	-0.554
4370	68.612	42.350	-5.169
4371	12.970	42.350	5.494
4372	22.980	42.350	11.564
4373	35.490	42.350	5.744
4378	1.423	42.350	-1.870
4379	22.695	42.350	11.696
4382	26.550	42.350	14.515
4383	28.331	42.350	13.680
4384	30.112	42.350	12.844
4385	31.894	42.350	12.009
4386	33.675	42.350	11.173
4387	35.456	42.350	10.338
4388	39.025	42.350	8.667
4389	40.812	42.350	7.831
4390	42.599	42.350	6.995
4391	44.386	42.350	6.160
4392	46.173	42.350	5.324
4393	47.960	42.350	4.488
4414	0.443	42.350	2.973
4415	5.447	42.350	6.193
4416	3.780	42.350	5.117
4417	8.955	42.350	8.072
4418	7.183	42.350	7.159
4425	55.264	42.350	1.492
4426	53.425	42.350	2.212
4427	51.586	42.350	2.932
4428	58.873	42.350	-0.097
4429	57.085	42.350	0.733
4431	63.783	42.350	-2.877
4433	-3.723	42.350	-0.259
4434	-2.350	42.350	0.624
4435	12.302	42.350	10.001
4436	13.878	42.350	11.019
4437	15.454	42.350	12.036
4487	5.750	42.350	13.043

Nodes Cont...

Node	X (m)	Y (m)	Z (m)
4488	4.079	42.350	11.975
4489	2.407	42.350	10.908
4490	0.736	42.350	9.840
4491	-0.936	42.350	8.772
4492	-2.607	42.350	7.704
4493	10.656	42.350	16.022
4494	9.038	42.350	15.066
4495	38.040	42.350	15.864
4496	36.270	42.350	16.694
4497	34.499	42.350	17.524
4498	32.729	42.350	18.354
4499	30.959	42.350	19.185
4500	29.188	42.350	20.015
4501	50.533	42.350	10.019
4502	48.746	42.350	10.855
4503	46.959	42.350	11.691
4504	45.172	42.350	12.526
4505	43.385	42.350	13.362
4506	41.598	42.350	14.198
4507	63.043	42.350	4.195
4508	61.256	42.350	5.026
4509	59.469	42.350	5.858
4510	57.682	42.350	6.689
4511	55.895	42.350	7.521
4512	54.108	42.350	8.352
4513	-7.030	42.350	4.879
4514	-5.654	42.350	5.758
4515	38.567	42.350	16.998
4516	36.798	42.350	17.827
4517	35.029	42.350	18.657
4518	33.261	42.350	19.486
4519	31.492	42.350	20.316
4520	29.723	42.350	21.145
4521	51.059	42.350	11.154
4522	49.272	42.350	11.990
4523	47.485	42.350	12.825
4524	45.697	42.350	13.661
4525	43.910	42.350	14.497
4526	42.123	42.350	15.332
4527	58.208	42.350	7.824
4528	56.420	42.350	8.655
4529	54.633	42.350	9.487
4531	66.358	42.350	2.653
4532	28.290	42.350	9.094
4533	26.533	42.350	9.911
4534	24.741	42.350	10.745
4535	39.067	42.350	4.080
4536	37.278	42.350	4.912
4537	6.286	42.350	1.231
4538	4.588	42.350	0.149
4539	2.941	42.350	-0.902
4540	19.282	42.350	9.519
4541	16.136	42.350	7.513
4542	14.556	42.350	6.505

Nodes Cont...

Node	X (m)	Y (m)	Z (m)
4543	11.302	42.350	4.430
4544	9.630	42.350	3.364
4545	7.958	42.350	2.298
4546	-4.262	42.350	10.271
4547	-2.590	42.350	11.339
4548	-0.919	42.350	12.407
4549	0.753	42.350	13.475
4550	2.424	42.350	14.542
4551	4.096	42.350	15.610
4552	7.384	42.350	17.634
4553	59.995	42.350	6.992
4554	61.782	42.350	6.161
4555	63.569	42.350	5.330
4556	40.856	42.350	3.248
4557	42.644	42.350	2.416
4558	44.433	42.350	1.583
4559	46.222	42.350	0.751
4560	-8.677	42.350	7.439
4561	-7.303	42.350	8.322
4573	66.882	42.350	3.785
4575	-6.976	42.350	-2.430
4576	-5.342	42.350	-1.357
4577	-8.660	42.350	3.838
4578	-10.308	42.350	2.785
4579	69.673	42.350	1.111
4580	71.462	42.350	0.278
4581	67.054	42.350	-4.433
4582	-11.941	42.350	5.340
4583	-10.297	42.350	6.397
4584	70.199	42.350	2.235
4585	72.018	42.350	1.386
4591	30.115	42.350	8.244
4592	31.907	42.350	7.411
4593	33.698	42.350	6.578
4594	48.011	42.350	-0.081
4596	23.978	42.350	13.690
4597	61.500	40.350	-3.796
4598	62.258	40.350	-2.167
4599	64.831	40.350	3.363
4600	64.008	40.350	1.595
4601	56.460	40.350	1.024
4602	60.720	40.350	-0.956
4603	58.873	40.350	-0.097
4604	57.085	40.350	0.733
4605	22.536	42.350	24.516
4606	8.267	42.350	18.089
4607	11.625	42.350	16.595
4608	9.753	42.350	17.424
4609	22.394	42.350	23.201
4610	24.063	42.350	22.419
4611	25.731	42.350	21.636
4612	24.592	42.350	23.551
4613	26.259	42.350	22.770
4619	-5.733	42.350	-3.483

Nodes Cont...

Node	X (m)	Y (m)	Z (m)
4626	22.444	42.350	21.285
4630	16.064	42.350	17.167
4631	17.659	42.350	18.197
4632	19.254	42.350	19.226
4633	20.849	42.350	20.256
4640	22.285	42.350	11.435
4641	23.557	42.350	12.794
4659	60.510	42.350	-5.880
4660	-3.090	42.350	-4.680
4661	65.533	42.350	-8.233
4662	58.769	42.350	-5.086
4663	56.918	42.350	-4.225
4664	55.127	42.350	-3.392
4665	51.549	42.350	-1.727
4666	49.798	42.350	-0.912
4667	53.338	42.350	-2.559
4668	62.044	42.350	-6.610
4669	65.342	42.350	-8.144
4671	-3.746	42.350	-5.167
4672	-1.492	42.350	-3.729
4673	0.010	42.350	-2.772
4675	-3.151	42.350	-4.787
4676	0.000	46.550	0.000
4677	11.700	46.550	7.474
4678	36.480	46.550	7.874
4679	48.990	46.550	2.024
4680	61.500	46.550	-3.796
4682	56.460	46.550	1.024
4683	60.720	46.550	-0.956
4684	-0.973	46.550	1.510
4685	10.727	46.550	8.984
4686	37.238	46.550	9.503
4687	49.748	46.550	3.653
4688	62.258	46.550	-2.167
4689	24.769	46.550	15.350
4690	2.050	46.550	4.000
4692	7.421	46.550	14.110
4693	27.400	46.550	20.854
4694	39.810	46.550	15.034
4695	52.320	46.550	9.184
4696	-4.278	46.550	6.637
4697	64.831	46.550	3.363
4698	-3.221	46.550	4.998
4699	8.478	46.550	12.472
4700	26.559	46.550	19.094
4701	38.987	46.550	13.266
4702	51.498	46.550	7.416
4703	64.008	46.550	1.595
4704	-1.867	46.550	2.897
4705	9.833	46.550	10.370
4706	25.480	46.550	16.839
4707	37.933	46.550	10.999
4708	50.443	46.550	5.149
4709	62.954	46.550	-0.671

Nodes Cont...

Node	X (m)	Y (m)	Z (m)
4710	5.765	46.550	16.676
4711	-5.934	46.550	9.203
4712	27.927	46.550	21.988
4713	40.337	46.550	16.168
4714	52.847	46.550	10.318
4715	65.358	46.550	4.497
4716	-12.104	46.550	5.217
4717	-10.969	46.550	2.363
4718	-8.611	46.550	-3.503
4719	-8.137	46.550	-4.680
4720	74.188	46.550	0.390
4721	73.251	46.550	-0.554
4722	68.612	46.550	-5.169
4723	12.970	46.550	5.494
4724	22.980	46.550	11.564
4725	35.490	46.550	5.744
4726	1.423	46.550	-1.870
4727	22.695	46.550	11.696
4728	26.550	46.550	14.515
4729	28.331	46.550	13.680
4730	30.112	46.550	12.844
4731	31.894	46.550	12.009
4732	33.675	46.550	11.173
4733	35.456	46.550	10.338
4734	39.025	46.550	8.667
4735	40.812	46.550	7.831
4736	42.599	46.550	6.995
4737	44.386	46.550	6.160
4738	46.173	46.550	5.324
4739	47.960	46.550	4.488
4740	0.443	46.550	2.973
4741	5.447	46.550	6.193
4742	3.780	46.550	5.117
4743	8.955	46.550	8.072
4744	7.183	46.550	7.159
4751	55.264	46.550	1.492
4752	53.425	46.550	2.212
4753	51.586	46.550	2.932
4754	58.873	46.550	-0.097
4755	57.085	46.550	0.733
4756	63.783	46.550	-2.877
4758	-3.723	46.550	-0.259
4759	-2.350	46.550	0.624
4760	12.302	46.550	10.001
4761	13.878	46.550	11.019
4763	5.750	46.550	13.043
4764	4.079	46.550	11.975
4765	2.407	46.550	10.908
4766	0.736	46.550	9.840
4767	-0.936	46.550	8.772
4768	-2.607	46.550	7.704
4769	10.656	46.550	16.022
4770	9.038	46.550	15.066
4771	38.040	46.550	15.864

Nodes Cont...

Node	X (m)	Y (m)	Z (m)
4772	36.270	46.550	16.694
4773	34.499	46.550	17.524
4774	32.729	46.550	18.354
4775	30.959	46.550	19.185
4776	29.188	46.550	20.015
4777	50.533	46.550	10.019
4778	48.746	46.550	10.855
4779	46.959	46.550	11.691
4780	45.172	46.550	12.526
4781	43.385	46.550	13.362
4782	41.598	46.550	14.198
4783	63.043	46.550	4.195
4784	61.256	46.550	5.026
4785	59.469	46.550	5.858
4786	57.682	46.550	6.689
4787	55.895	46.550	7.521
4788	54.108	46.550	8.352
4789	-7.030	46.550	4.879
4790	-5.654	46.550	5.758
4791	38.567	46.550	16.998
4792	36.798	46.550	17.827
4793	35.029	46.550	18.657
4794	33.261	46.550	19.486
4795	31.492	46.550	20.316
4796	29.723	46.550	21.145
4797	51.059	46.550	11.154
4798	49.272	46.550	11.990
4799	47.485	46.550	12.825
4800	45.697	46.550	13.661
4801	43.910	46.550	14.497
4802	42.123	46.550	15.332
4803	58.208	46.550	7.824
4804	56.420	46.550	8.655
4805	54.633	46.550	9.487
4807	66.358	46.550	2.653
4808	28.290	46.550	9.094
4809	26.533	46.550	9.911
4810	24.741	46.550	10.745
4811	39.067	46.550	4.080
4812	37.278	46.550	4.912
4813	6.286	46.550	1.231
4814	4.588	46.550	0.149
4815	2.941	46.550	-0.902
4816	19.282	46.550	9.519
4817	16.136	46.550	7.513
4818	14.556	46.550	6.505
4819	11.302	46.550	4.430
4820	9.630	46.550	3.364
4821	7.958	46.550	2.298
4822	-4.262	46.550	10.271
4823	-2.590	46.550	11.339
4824	-0.919	46.550	12.407
4825	0.753	46.550	13.475
4826	2.424	46.550	14.542

Nodes Cont...

Node	X (m)	Y (m)	Z (m)
4827	4.096	46.550	15.610
4828	7.384	46.550	17.634
4829	59.995	46.550	6.992
4830	61.782	46.550	6.161
4831	63.569	46.550	5.330
4832	40.856	46.550	3.248
4833	42.644	46.550	2.416
4834	44.433	46.550	1.583
4835	46.222	46.550	0.751
4836	-8.677	46.550	7.439
4837	-7.303	46.550	8.322
4838	66.882	46.550	3.785
4840	-6.976	46.550	-2.430
4841	-5.342	46.550	-1.357
4842	-8.660	46.550	3.838
4843	-10.308	46.550	2.785
4844	69.673	46.550	1.111
4845	71.462	46.550	0.278
4846	67.054	46.550	-4.433
4847	-11.941	46.550	5.340
4848	-10.297	46.550	6.397
4849	70.199	46.550	2.235
4850	72.018	46.550	1.386
4851	30.115	46.550	8.244
4852	31.907	46.550	7.411
4853	33.698	46.550	6.578
4854	48.011	46.550	-0.081
4856	23.978	46.550	13.690
4857	61.500	44.550	-3.796
4858	62.258	44.550	-2.167
4859	64.831	44.550	3.363
4860	64.008	44.550	1.595
4861	56.460	44.550	1.024
4862	60.720	44.550	-0.956
4863	58.873	44.550	-0.097
4864	57.085	44.550	0.733
4865	22.536	46.550	24.516
4866	8.267	46.550	18.089
4867	11.625	46.550	16.595
4868	9.753	46.550	17.424
4869	22.394	46.550	23.201
4870	24.063	46.550	22.419
4871	25.731	46.550	21.636
4872	24.592	46.550	23.551
4873	26.259	46.550	22.770
4874	-5.733	46.550	-3.483
4892	60.510	46.550	-5.880
4893	-3.090	46.550	-4.680
4894	65.533	46.550	-8.233
4895	58.769	46.550	-5.086
4896	56.918	46.550	-4.225
4897	55.127	46.550	-3.392
4898	51.549	46.550	-1.727
4899	49.798	46.550	-0.912

Nodes Cont...

Node	X (m)	Y (m)	Z (m)
4900	53.338	46.550	-2.559
4901	62.044	46.550	-6.610
4902	65.342	46.550	-8.144
4904	-3.746	46.550	-5.167
4905	-1.492	46.550	-3.729
4906	0.010	46.550	-2.772
4908	18.086	46.550	13.736
4909	15.996	46.550	14.661
4910	12.875	46.550	16.042
4911	22.573	46.550	16.380
4912	22.501	46.550	19.109
4913	22.610	46.550	14.980
4914	23.141	46.550	16.114
4915	17.685	46.550	8.501
4916	17.025	46.550	13.051
4917	15.437	46.550	12.025
4918	-3.151	46.550	-4.787
4921	36.480	50.750	7.874
4922	48.990	50.750	2.024
4923	61.500	50.750	-3.796
4925	56.460	50.750	1.024
4926	60.720	50.750	-0.956
4929	37.238	50.750	9.503
4930	49.748	50.750	3.653
4931	62.258	50.750	-2.167
4932	24.769	50.750	15.350
4936	27.400	50.750	20.854
4937	39.810	50.750	15.034
4938	52.320	50.750	9.184
4940	64.831	50.750	3.363
4943	26.559	50.750	19.094
4944	38.987	50.750	13.266
4945	51.498	50.750	7.416
4946	64.008	50.750	1.595
4949	25.480	50.750	16.839
4950	37.933	50.750	10.999
4951	50.443	50.750	5.149
4952	62.954	50.750	-0.671
4955	27.927	50.750	21.988
4956	40.337	50.750	16.168
4957	52.847	50.750	10.318
4958	65.358	50.750	4.497
4963	74.188	50.750	0.390
4964	73.251	50.750	-0.554
4965	68.612	50.750	-5.169
4967	22.980	50.750	11.564
4968	35.490	50.750	5.744
4970	22.695	50.750	11.696
4971	26.550	50.750	14.515
4972	28.331	50.750	13.680
4973	30.112	50.750	12.844
4974	31.894	50.750	12.009
4975	33.675	50.750	11.173
4976	35.456	50.750	10.338

Nodes Cont...

Node	X (m)	Y (m)	Z (m)
4977	39.025	50.750	8.667
4978	40.812	50.750	7.831
4979	42.599	50.750	6.995
4980	44.386	50.750	6.160
4981	46.173	50.750	5.324
4982	47.960	50.750	4.488
4994	55.264	50.750	1.492
4995	53.425	50.750	2.212
4996	51.586	50.750	2.932
4997	58.873	50.750	-0.097
4998	57.085	50.750	0.733
4999	63.783	50.750	-2.877
5013	38.040	50.750	15.864
5014	36.270	50.750	16.694
5015	34.499	50.750	17.524
5016	32.729	50.750	18.354
5017	30.959	50.750	19.185
5018	29.188	50.750	20.015
5019	50.533	50.750	10.019
5020	48.746	50.750	10.855
5021	46.959	50.750	11.691
5022	45.172	50.750	12.526
5023	43.385	50.750	13.362
5024	41.598	50.750	14.198
5025	63.043	50.750	4.195
5026	61.256	50.750	5.026
5027	59.469	50.750	5.858
5028	57.682	50.750	6.689
5029	55.895	50.750	7.521
5030	54.108	50.750	8.352
5033	38.567	50.750	16.998
5034	36.798	50.750	17.827
5035	35.029	50.750	18.657
5036	33.261	50.750	19.486
5037	31.492	50.750	20.316
5038	29.723	50.750	21.145
5039	51.059	50.750	11.154
5040	49.272	50.750	11.990
5041	47.485	50.750	12.825
5042	45.697	50.750	13.661
5043	43.910	50.750	14.497
5044	42.123	50.750	15.332
5045	58.208	50.750	7.824
5046	56.420	50.750	8.655
5047	54.633	50.750	9.487
5049	66.358	50.750	2.653
5050	28.290	50.750	9.094
5051	26.533	50.750	9.911
5052	24.741	50.750	10.745
5053	39.067	50.750	4.080
5054	37.278	50.750	4.912
5071	59.995	50.750	6.992
5072	61.782	50.750	6.161
5073	63.569	50.750	5.330

Nodes Cont...

Node	X (m)	Y (m)	Z (m)
5074	40.856	50.750	3.248
5075	42.644	50.750	2.416
5076	44.433	50.750	1.583
5077	46.222	50.750	0.751
5080	66.882	50.750	3.785
5086	69.673	50.750	1.111
5087	71.462	50.750	0.278
5088	67.054	50.750	-4.433
5091	70.199	50.750	2.235
5092	72.018	50.750	1.386
5093	30.115	50.750	8.244
5094	31.907	50.750	7.411
5095	33.698	50.750	6.578
5096	48.011	50.750	-0.081
5098	23.978	50.750	13.690
5099	61.500	48.750	-3.796
5100	62.258	48.750	-2.167
5101	64.831	48.750	3.363
5102	64.008	48.750	1.595
5103	56.460	48.750	1.024
5104	60.720	48.750	-0.956
5105	58.873	48.750	-0.097
5106	57.085	48.750	0.733
5107	22.536	50.750	24.516
5111	22.394	50.750	23.201
5112	24.063	50.750	22.419
5113	25.731	50.750	21.636
5114	24.592	50.750	23.551
5115	26.259	50.750	22.770
5117	60.510	50.750	-5.880
5119	65.533	50.750	-8.233
5120	58.769	50.750	-5.086
5121	56.918	50.750	-4.225
5122	55.127	50.750	-3.392
5123	51.549	50.750	-1.727
5124	49.798	50.750	-0.912
5125	53.338	50.750	-2.559
5126	62.044	50.750	-6.610
5127	65.342	50.750	-8.144
5136	22.573	50.750	16.380
5137	22.501	50.750	19.109
5138	22.610	50.750	14.980
5139	23.141	50.750	16.114
5140	36.480	54.950	7.874
5141	48.990	54.950	2.024
5142	61.500	54.950	-3.796
5144	56.460	54.950	1.024
5145	60.720	54.950	-0.956
5146	37.238	54.950	9.503
5147	49.748	54.950	3.653
5148	62.258	54.950	-2.167
5149	24.769	54.950	15.350
5150	27.400	56.120	20.854
5151	39.810	56.120	15.034

Nodes Cont...

Node	X (m)	Y (m)	Z (m)
5152	52.320	56.120	9.184
5153	64.831	56.120	3.363
5154	26.559	55.770	19.094
5155	38.987	55.770	13.266
5156	51.498	55.770	7.416
5157	64.008	55.770	1.595
5158	25.480	55.250	16.839
5159	37.933	55.250	10.999
5160	50.443	55.250	5.149
5161	62.954	55.250	-0.671
5162	27.927	56.440	21.988
5163	40.337	56.440	16.168
5164	52.847	56.440	10.318
5165	65.358	56.440	4.497
5166	74.188	56.440	0.390
5167	73.251	56.120	-0.554
5168	68.612	54.950	-5.169
5169	22.980	54.950	11.564
5170	35.490	54.950	5.744
5171	22.695	54.950	11.696
5172	26.550	54.950	14.515
5173	28.331	54.950	13.680
5174	30.112	54.950	12.844
5175	31.894	54.950	12.009
5176	33.675	54.950	11.173
5177	35.456	54.950	10.338
5178	39.025	54.950	8.667
5179	40.812	54.950	7.831
5180	42.599	54.950	6.995
5181	44.386	54.950	6.160
5182	46.173	54.950	5.324
5183	47.960	54.950	4.488
5190	55.264	54.950	1.492
5191	53.425	54.950	2.212
5192	51.586	54.950	2.932
5193	58.873	54.950	-0.097
5194	57.085	54.950	0.733
5195	63.783	54.950	-2.877
5197	38.040	56.120	15.864
5198	36.270	56.120	16.694
5199	34.499	56.120	17.524
5200	32.729	56.120	18.354
5201	30.959	56.120	19.185
5202	29.188	56.120	20.015
5203	50.533	56.120	10.019
5204	48.746	56.120	10.855
5205	46.959	56.120	11.691
5206	45.172	56.120	12.526
5207	43.385	56.120	13.362
5208	41.598	56.120	14.198
5209	63.043	56.120	4.195
5210	61.256	56.120	5.026
5211	59.469	56.120	5.858
5212	57.682	56.120	6.689

Nodes Cont...

Node	X (m)	Y (m)	Z (m)
5213	55.895	56.120	7.521
5214	54.108	56.120	8.352
5215	38.567	56.440	16.998
5216	36.798	56.440	17.827
5217	35.029	56.440	18.657
5218	33.261	56.440	19.486
5219	31.492	56.440	20.316
5220	29.723	56.440	21.145
5221	51.059	56.440	11.154
5222	49.272	56.440	11.990
5223	47.485	56.440	12.825
5224	45.697	56.440	13.661
5225	43.910	56.440	14.497
5226	42.123	56.440	15.332
5227	58.208	56.440	7.824
5228	56.420	56.440	8.655
5229	54.633	56.440	9.487
5231	66.358	56.120	2.653
5232	28.290	54.950	9.094
5233	26.533	54.950	9.911
5234	24.741	54.950	10.745
5235	39.067	54.950	4.080
5236	37.278	54.950	4.912
5237	59.995	56.440	6.992
5238	61.782	56.440	6.161
5239	63.569	56.440	5.330
5240	40.856	54.950	3.248
5241	42.644	54.950	2.416
5242	44.433	54.950	1.583
5243	46.222	54.950	0.751
5244	66.882	56.440	3.785
5246	69.673	56.120	1.111
5247	71.462	56.120	0.278
5248	67.054	54.950	-4.433
5249	70.199	56.440	2.235
5250	72.018	56.440	1.386
5251	30.115	54.950	8.244
5252	31.907	54.950	7.411
5253	33.698	54.950	6.578
5254	48.011	54.950	-0.081
5255	23.978	54.950	13.690
5256	61.500	52.950	-3.796
5257	62.258	52.950	-2.167
5258	64.831	52.950	3.363
5259	64.008	52.950	1.595
5260	56.460	52.950	1.024
5261	60.720	52.950	-0.956
5262	58.873	52.950	-0.097
5263	57.085	52.950	0.733
5264	22.536	56.440	24.516
5265	22.394	56.120	23.201
5266	24.063	56.120	22.419
5267	25.731	56.120	21.636
5268	24.592	56.440	23.551

Nodes Cont...

Node	X (m)	Y (m)	Z (m)
5269	26.259	56.440	22.770
5270	60.510	54.950	-5.880
5271	65.533	54.950	-8.233
5272	58.769	54.950	-5.086
5273	56.918	54.950	-4.225
5274	55.127	54.950	-3.392
5275	51.549	54.950	-1.727
5276	49.798	54.950	-0.912
5277	53.338	54.950	-2.559
5278	62.044	54.950	-6.610
5279	65.342	54.950	-8.144
5281	22.573	54.950	16.380
5282	22.501	55.450	19.109
5283	22.610	54.950	14.980
5284	23.141	54.950	16.114
5288	62.954	10.950	-0.671
5289	62.954	15.150	-0.671
5290	62.954	19.350	-0.671
5291	62.954	23.550	-0.671
5292	62.954	27.750	-0.671
5293	62.954	31.950	-0.671
5294	62.954	36.150	-0.671
5295	62.954	40.350	-0.671
5296	62.954	44.550	-0.671
5297	62.954	48.750	-0.671
5298	62.954	52.950	-0.671
5299	55.510	10.950	-1.016
5300	55.510	19.350	-1.016
5301	55.510	23.550	-1.016
5302	55.510	27.750	-1.016
5303	55.510	31.950	-1.016
5304	55.510	36.150	-1.016
5309	55.510	5.150	-1.016
5310	55.510	1.150	-1.016
5311	55.510	15.150	-1.016
5312	17.030	25.550	13.054
5313	13.388	25.550	15.440
5314	20.875	25.550	10.535
5315	17.702	25.550	8.512
5316	19.284	25.550	9.520
5317	16.438	25.550	17.409
5318	14.890	25.550	16.409
5319	20.478	25.550	14.077
5320	22.331	25.550	14.627
5321	18.892	25.550	13.607
5322	17.025	33.950	13.051
5323	17.702	33.950	8.512
5324	13.387	33.950	15.439
5325	18.618	33.950	13.524
5326	20.478	33.950	14.076
5327	22.331	33.950	14.627
5328	24.177	33.950	15.175
5329	14.882	33.950	16.404
5330	20.866	33.950	10.530

Nodes Cont...

Node	X (m)	Y (m)	Z (m)
5331	17.025	42.350	13.051
5332	18.618	42.350	13.524
5333	20.478	42.350	14.076
5334	22.331	42.350	14.627
5335	24.177	42.350	15.175
5336	20.866	42.350	10.530
5337	13.387	42.350	15.439
5338	17.625	42.350	8.463
5339	14.882	42.350	16.404
5367	60.510	-1.050	-6.330
5368	60.510	8.750	-6.330
5369	60.510	17.150	-6.330
5370	60.510	21.350	-6.330
5372	54.263	-1.050	1.884
5373	54.263	2.950	1.884
5374	54.263	8.750	1.884
5375	54.263	12.950	1.884
5376	54.263	17.150	1.884
5377	54.263	21.350	1.884
5378	54.263	25.550	1.884
5379	54.263	29.750	1.884
5380	54.263	33.950	1.884
5381	54.263	38.150	1.884
5382	54.263	42.350	1.884
5383	54.263	46.550	1.884
5384	54.263	50.750	1.884
5385	54.263	54.950	1.884
5386	55.264	10.950	1.492
5387	55.264	15.150	1.492
5388	55.264	19.350	1.492
5389	55.264	23.550	1.492
5390	55.264	27.750	1.492
5391	55.264	31.950	1.492
5392	55.264	36.150	1.492
5393	55.264	40.350	1.492
5394	55.264	44.550	1.492
5395	55.264	48.750	1.492
5396	55.264	52.950	1.492
5397	54.263	10.950	1.884
5398	54.263	15.150	1.884
5399	54.263	19.350	1.884
5400	54.263	23.550	1.884
5401	54.263	27.750	1.884
5402	54.263	31.950	1.884
5403	54.263	40.350	1.884
5404	54.263	44.550	1.884
5405	54.263	48.750	1.884
5406	54.263	52.950	1.884
5407	55.264	5.150	1.492
5408	54.263	5.150	1.884
5409	55.264	1.150	1.492
5410	54.263	1.150	1.884
5411	55.264	-2.650	1.492
5412	54.263	-2.650	1.884

Nodes Cont...

Node	X (m)	Y (m)	Z (m)
5413	55.264	-5.250	1.492
5414	54.263	-5.250	1.884
5415	54.263	36.150	1.884
5417	60.510	12.950	-6.330
5419	60.510	2.950	-6.330
5463	68.205	-1.050	1.844
5464	68.205	2.950	1.844
5465	68.186	8.750	1.802
5466	68.186	12.950	1.802
5467	68.186	17.150	1.802
5468	68.186	21.350	1.802
5469	68.186	25.550	1.802
5470	68.186	29.750	1.802
5471	68.186	33.950	1.802
5472	68.186	38.150	1.802
5473	68.186	42.350	1.802
5474	68.186	46.550	1.802
5475	68.186	50.750	1.802
5476	68.186	56.120	1.802
5477	65.611	-1.050	-3.727
5478	65.611	2.950	-3.727
5479	65.609	8.750	-3.732
5480	65.609	12.950	-3.732
5481	65.609	17.150	-3.732
5482	65.609	21.350	-3.732
5483	65.609	25.550	-3.732
5484	65.609	29.750	-3.732
5485	65.609	33.950	-3.732
5486	65.609	38.150	-3.732
5487	65.609	42.350	-3.732
5488	65.609	46.550	-3.732
5489	65.609	50.750	-3.732
5490	65.609	54.950	-3.732
5491	65.611	-5.250	-3.727
5492	68.205	-5.250	1.844
5493	67.595	-1.050	0.534
5494	67.363	-1.050	0.035
5495	67.743	2.950	0.850
5496	67.363	2.950	0.035
5497	68.709	8.750	2.931
5498	67.363	8.750	0.035
5499	68.709	12.950	2.931
5500	67.363	12.950	0.035
5501	68.709	21.350	2.931
5502	68.709	25.550	2.931
5503	68.709	29.750	2.931
5504	68.709	33.950	2.931
5505	68.709	38.150	2.931
5506	68.709	42.350	2.931
5507	68.709	17.150	2.931
5508	67.363	17.150	0.035
5509	67.363	21.350	0.035
5510	67.363	25.550	0.035
5511	67.363	29.750	0.035

Nodes Cont...

Node	X (m)	Y (m)	Z (m)
5512	67.363	33.950	0.035
5513	67.363	38.150	0.035
5514	67.363	42.350	0.035
5515	68.709	46.550	2.931
5516	67.363	46.550	0.035
5517	68.709	50.750	2.931
5518	67.363	50.750	0.035
5519	68.709	56.440	2.931
5520	67.363	55.770	0.035
5521	67.363	-5.250	0.035
5522	66.308	-1.050	-2.231
5524	64.852	-1.050	-5.359
5527	64.851	2.950	-5.359
5528	66.308	2.950	-2.232
5529	66.308	8.750	-2.232
5531	64.849	8.750	-5.364
5532	66.308	12.950	-2.232
5534	64.849	12.950	-5.364
5535	66.308	17.150	-2.232
5537	64.849	17.150	-5.364
5538	66.308	21.350	-2.232
5540	64.849	21.350	-5.364
5541	66.308	25.550	-2.232
5542	63.613	25.550	-8.019
5543	64.849	25.550	-5.364
5544	66.308	29.750	-2.232
5545	63.613	29.750	-8.019
5546	64.849	29.750	-5.364
5547	66.308	33.950	-2.232
5548	63.613	33.950	-8.019
5549	64.849	33.950	-5.364
5550	66.308	38.150	-2.232
5551	63.613	38.150	-8.019
5552	64.849	38.150	-5.364
5553	66.308	42.350	-2.232
5554	63.873	42.350	-7.460
5555	64.849	42.350	-5.364
5556	66.308	46.550	-2.232
5557	63.873	46.550	-7.460
5558	64.849	46.550	-5.364
5559	66.308	50.750	-2.232
5560	63.873	50.750	-7.460
5561	64.849	50.750	-5.364
5562	66.308	55.250	-2.232
5563	63.873	54.950	-7.460
5564	64.849	54.950	-5.364
5565	64.852	-5.250	-5.359
5566	66.308	-5.250	-2.231
5581	60.510	-5.250	-6.330
5582	60.510	-1.050	-8.830
5583	60.510	8.750	-8.830
5584	60.510	17.150	-8.830
5585	60.510	21.350	-8.830
5586	60.510	12.950	-8.830

Nodes Cont...

Node	X (m)	Y (m)	Z (m)
5587	60.510	-5.250	-8.830
5660	52.309	21.350	-4.969
5664	0.691	21.350	-4.480
5665	0.691	25.550	-4.480
5670	54.296	25.550	-7.295
5671	54.724	25.550	-4.207
5672	53.181	25.550	-4.300
5673	52.246	25.550	-4.357
5675	53.836	25.550	-6.060
5676	59.283	25.550	-3.930
5677	56.549	25.550	-4.989
5678	56.993	25.550	-4.069
5679	53.181	29.750	-4.300
5680	54.724	29.750	-4.207
5681	52.246	29.750	-4.357
5682	54.296	29.750	-7.295
5683	53.836	29.750	-6.060
5684	59.283	29.750	-3.930
5685	56.549	29.750	-4.989
5686	56.993	29.750	-4.069
5693	0.691	29.750	-4.480
5694	0.691	33.950	-4.480
5695	53.181	33.950	-4.300
5696	54.296	33.950	-7.295
5697	59.283	33.950	-3.930
5698	56.993	33.950	-4.069
5699	54.734	33.950	-4.206
5700	53.836	33.950	-6.060
5701	56.550	33.950	-4.987
5702	52.246	33.950	-4.357
5707	54.724	38.150	-4.207
5709	54.296	38.150	-7.295
5711	56.549	38.150	-4.989
5712	52.847	38.150	-3.401
5713	53.248	38.150	-4.480
5714	52.246	38.150	-4.480
5715	52.399	38.150	-3.049
5716	51.319	38.150	-2.200
5717	0.443	-1.050	2.973
5718	0.443	2.950	2.973
5720	0.443	8.750	2.973
5721	0.443	12.950	2.973
5722	56.199	17.150	-1.314
5724	4.394	-1.050	5.513
5725	4.394	2.950	5.513
5726	4.394	8.750	5.513
5727	4.394	12.950	5.513
5728	4.394	17.150	5.513
5729	4.394	21.350	5.513
5730	4.394	25.550	5.513
5731	4.394	29.750	5.513
5732	4.394	33.950	5.513
5733	4.394	38.150	5.513
5734	4.394	42.350	5.513

Nodes Cont...

Node	X (m)	Y (m)	Z (m)
5735	4.394	46.550	5.513
5736	-0.973	-2.650	1.510
5737	2.050	-2.650	4.000
5738	3.780	-2.650	5.117
5739	0.443	-2.650	2.973
5740	4.394	-2.650	5.513
5741	-0.973	1.150	1.510
5742	2.050	1.150	4.000
5743	3.780	1.150	5.117
5744	0.443	1.150	2.973
5745	4.394	1.150	5.513
5746	-0.973	5.150	1.510
5747	2.050	5.150	4.000
5748	3.780	5.150	5.117
5749	0.443	5.150	2.973
5750	4.394	5.150	5.513
5751	-0.973	10.950	1.510
5752	2.050	10.950	4.000
5753	3.780	10.950	5.117
5754	-0.973	15.150	1.510
5755	0.443	15.150	2.973
5756	3.780	15.150	5.117
5757	-0.973	19.350	1.510
5758	2.050	19.350	4.000
5759	0.443	19.350	2.973
5760	3.780	19.350	5.117
5761	-0.973	23.550	1.510
5762	2.050	23.550	4.000
5763	0.443	23.550	2.973
5764	3.780	23.550	5.117
5765	-0.973	27.750	1.510
5766	2.050	27.750	4.000
5767	0.443	27.750	2.973
5768	3.780	27.750	5.117
5769	-0.973	31.950	1.510
5770	2.050	31.950	4.000
5771	0.443	31.950	2.973
5772	3.780	31.950	5.117
5773	-0.973	36.150	1.510
5774	2.050	36.150	4.000
5775	0.443	36.150	2.973
5776	3.780	36.150	5.117
5777	-0.973	40.350	1.510
5778	2.050	40.350	4.000
5779	0.443	40.350	2.973
5780	3.780	40.350	5.117
5781	-0.973	44.550	1.510
5782	2.050	44.550	4.000
5783	0.443	44.550	2.973
5784	3.780	44.550	5.117
5785	0.443	10.950	2.973
5786	4.394	10.950	5.513
5787	4.394	15.150	5.513
5788	4.394	19.350	5.513

Nodes Cont...

Node	X (m)	Y (m)	Z (m)
5789	4.394	23.550	5.513
5790	4.394	27.750	5.513
5791	4.394	31.950	5.513
5792	4.394	36.150	5.513
5793	4.394	40.350	5.513
5794	4.394	44.550	5.513
5795	2.050	-5.250	4.000
5796	3.780	-5.250	5.117
5797	0.443	-5.250	2.973
5798	4.394	-5.250	5.513
5799	2.050	15.150	4.000
5800	0.000	15.150	0.000
5801	-4.278	15.150	6.637
5802	-3.221	15.150	4.998
5803	-1.867	15.150	2.897
5804	0.000	19.350	0.000
5805	-4.278	19.350	6.637
5806	-3.221	19.350	4.998
5807	-1.867	19.350	2.897
5808	0.000	23.550	0.000
5809	-4.278	23.550	6.637
5810	-3.221	23.550	4.998
5811	-1.867	23.550	2.897
5812	0.000	27.750	0.000
5813	-4.278	27.750	6.637
5814	-3.221	27.750	4.998
5815	-1.867	27.750	2.897
5816	0.000	31.950	0.000
5817	-4.278	31.950	6.637
5818	-3.221	31.950	4.998
5819	-1.867	31.950	2.897
5820	0.000	36.150	0.000
5821	-4.278	36.150	6.637
5822	-3.221	36.150	4.998
5823	-1.867	36.150	2.897
5824	0.000	40.350	0.000
5825	-4.278	40.350	6.637
5826	-1.867	40.350	2.897
5827	0.000	44.550	0.000
5828	-4.278	44.550	6.637
5829	-3.221	44.550	4.998
5830	-1.867	44.550	2.897
5831	0.000	5.150	0.000
5833	-3.221	5.150	4.998
5834	-1.867	5.150	2.897
5835	0.000	1.150	0.000
5837	-1.867	1.150	2.897
5838	0.000	-2.650	0.000
5839	-3.520	-2.650	5.460
5841	-3.222	-2.650	4.998
5842	-1.867	-2.650	2.897
5843	0.000	10.950	0.000
5844	-4.278	10.950	6.637
5845	-3.221	10.950	4.998

Nodes Cont...

Node	X (m)	Y (m)	Z (m)
5846	-1.867	10.950	2.897
5847	-3.222	1.150	4.998
5848	-3.221	40.350	4.998
5849	-3.925	5.150	6.090
5850	-3.627	1.150	5.626
5851	56.112	25.550	-1.304
5853	42.108	38.150	2.665
5854	42.108	38.150	-3.730
5855	39.067	38.150	-3.730
5856	35.490	38.150	-3.730
5857	32.802	38.150	6.994
5858	32.802	38.150	-3.730
5859	30.115	38.150	-3.730
5860	27.411	38.150	9.502
5861	27.411	38.150	-3.730
5862	24.741	38.150	-3.730
5863	22.695	38.150	-3.730
5869	18.483	38.150	9.010
5870	18.483	38.150	-3.730
5871	8.794	38.150	2.831
5872	8.794	38.150	-3.730
5873	12.136	38.150	4.962
5874	12.136	38.150	-3.730
5875	15.346	38.150	7.009
5876	15.346	38.150	-3.730
5877	16.299	-1.050	3.656
5878	18.533	-1.050	3.490
5879	20.754	-1.050	3.325
5880	24.860	-1.050	3.020
5881	22.910	-1.050	3.165
5882	28.760	-1.050	2.747
5883	30.710	-1.050	2.613
5884	32.660	-1.050	2.478
5885	34.610	-1.050	2.344
5886	36.560	-1.050	2.209
5892	17.060	-1.050	3.599
5893	19.010	-1.050	3.454
5899	40.054	-1.050	6.203
5900	41.841	-1.050	5.367
5901	43.629	-1.050	4.531
5902	45.416	-1.050	3.695
5903	47.203	-1.050	2.860
5904	38.267	-1.050	7.038
5905	40.460	-1.050	6.013
5906	42.410	-1.050	5.101
5907	44.360	-1.050	4.189
5908	46.310	-1.050	3.277
5909	48.260	-1.050	2.365
5911	48.260	-1.050	2.032
5912	46.310	-1.050	2.053
5913	44.360	-1.050	2.074
5914	42.410	-1.050	2.095
5915	40.460	-1.050	2.116
5916	38.510	-1.050	2.137

Nodes Cont...

Node	X (m)	Y (m)	Z (m)
5918	27.558	-1.050	2.830
5919	29.684	-1.050	2.684
5920	31.808	-1.050	2.537
5921	33.929	-1.050	2.391
5923	15.110	-1.050	3.744
5924	26.810	-1.050	2.882
5925	-0.923	-1.050	-8.627
5926	1.243	-1.050	-8.903
5927	-11.150	-1.050	-8.350
5929	-11.150	-1.050	2.277
5930	-11.150	-1.050	-4.680
5931	-11.150	-1.050	1.510
5989	-3.090	2.950	-8.350
5990	16.299	2.950	3.656
5991	18.533	2.950	3.490
5992	20.754	2.950	3.325
5993	24.860	2.950	3.020
5994	22.910	2.950	3.165
5995	28.760	2.950	2.747
5996	30.710	2.950	2.613
5997	32.660	2.950	2.478
5998	34.610	2.950	2.344
5999	36.560	2.950	2.209
6004	47.017	2.950	2.045
6005	17.060	2.950	3.599
6006	19.010	2.950	3.454
6007	15.110	2.950	3.744
6008	26.810	2.950	2.882
6009	40.460	2.950	2.116
6010	42.410	2.950	2.095
6011	44.360	2.950	2.074
6012	46.310	2.950	2.053
6013	48.260	2.950	2.032
6014	38.510	2.950	2.137
6015	27.558	2.950	2.830
6016	29.684	2.950	2.684
6017	31.808	2.950	2.537
6018	33.929	2.950	2.391
6019	37.052	2.950	4.426
6020	-11.150	2.950	-8.350
6021	-11.150	2.950	2.277
6024	71.734	2.950	0.149
6025	-11.150	2.950	-4.680
6026	-11.150	2.950	1.510
6027	-8.425	-1.050	4.030
6030	69.262	2.950	-5.425
6047	-9.135	2.950	-4.680
6048	-7.120	2.950	-4.680
6049	-5.105	2.950	-4.680
6053	-9.135	2.950	1.510
6054	-7.120	2.950	1.510
6055	-5.105	2.950	1.510
6056	-3.090	2.950	1.510
6058	1.243	2.950	-1.633

Nodes Cont...

Node	X (m)	Y (m)	Z (m)
6059	3.410	2.950	-8.360
6061	1.243	2.950	-8.350
6062	-0.923	2.950	-8.350
6064	-7.052	-1.050	4.913
6065	-5.678	-1.050	5.797
6066	-3.720	-1.050	-0.257
6067	-2.347	-1.050	0.626
6068	-4.240	-5.250	-4.680
6069	-4.240	-5.250	-8.350
6070	-5.093	-5.250	-1.140
6071	-4.240	-5.250	-2.648
6072	-8.425	-5.250	4.030
6073	-7.052	-5.250	4.913
6074	-5.678	-5.250	5.797
6083	-5.105	2.950	-8.350
6084	-7.120	2.950	-8.350
6085	-9.135	2.950	-8.350
6086	-9.135	2.950	3.573
6088	-5.105	2.950	6.165
6090	60.510	2.950	-10.630
6092	58.736	-1.050	-6.011
6093	56.621	-1.050	-5.631
6094	52.357	-1.050	-4.866
6095	54.496	-1.050	-5.250
6096	53.612	-1.050	-5.091
6097	52.275	-1.050	-9.110
6098	54.349	-1.050	-9.039
6099	56.431	-1.050	-8.969
6100	58.519	-1.050	-8.898
6102	64.099	-1.050	-6.975
6103	62.211	-1.050	-6.636
6109	58.736	2.950	-6.011
6110	56.621	2.950	-5.631
6111	52.354	2.950	-4.865
6112	54.496	2.950	-5.250
6114	62.046	2.950	-6.606
6115	64.099	2.950	-6.975
6116	69.970	2.950	0.996
6117	67.437	2.950	-4.576
6121	60.510	2.950	-9.905
6122	-8.425	2.950	4.030
6123	-7.052	2.950	4.913
6124	-5.678	2.950	5.797
6125	-9.135	-1.050	3.573
6129	53.612	2.950	-5.091
6130	36.627	2.950	6.986
6131	38.510	2.950	6.091
6132	40.460	2.950	5.164
6133	42.410	2.950	4.236
6134	44.360	2.950	3.309
6135	37.950	2.950	6.357
6136	47.528	2.950	3.369
6137	38.519	2.950	7.579
6138	40.306	2.950	6.744

Nodes Cont...

Node	X (m)	Y (m)	Z (m)
6139	42.093	2.950	5.908
6140	43.881	2.950	5.073
6141	45.668	2.950	4.238
6142	58.736	8.750	-6.011
6143	56.621	8.750	-5.631
6144	54.493	8.750	-5.249
6145	52.354	8.750	-4.865
6146	66.385	8.750	-7.385
6147	62.709	8.750	-6.725
6148	65.972	8.750	-7.311
6149	64.099	8.750	-6.975
6151	-5.525	8.750	-11.230
6152	-3.090	8.750	-11.230
6153	1.243	8.750	-11.230
6154	-0.923	8.750	-11.230
6155	58.736	21.350	-6.011
6156	56.621	21.350	-5.631
6157	54.493	21.350	-5.249
6159	66.385	21.350	-7.385
6161	65.972	21.350	-7.311
6162	64.099	21.350	-6.975
6163	62.046	21.350	-6.606
6165	62.872	21.350	-6.754
6166	63.286	21.350	-10.468
6167	52.270	21.350	-11.110
6168	54.333	21.350	-10.990
6169	56.396	21.350	-10.870
6170	58.462	21.350	-10.749
6171	62.872	21.350	-10.492
6175	63.286	8.750	-10.468
6176	52.271	8.750	-11.110
6177	54.333	8.750	-10.990
6178	56.396	8.750	-10.870
6179	58.462	8.750	-10.749
6183	62.866	8.750	-10.493
6185	24.769	8.750	-3.730
6186	28.938	8.750	13.395
6189	0.129	21.350	-5.817
6190	-1.511	21.350	-4.480
6191	-3.871	21.350	-2.556
6193	43.569	21.350	-0.275
6196	27.360	8.750	14.135
6200	5.360	2.950	-2.955
6201	7.310	2.950	-1.431
6203	11.210	2.950	1.619
6204	13.160	2.950	3.144
6205	-5.525	12.950	-11.230
6206	-3.090	12.950	-11.230
6207	1.243	12.950	-11.230
6208	-0.923	12.950	-11.230
6209	24.764	8.750	-1.055
6211	28.760	8.750	-1.055
6213	1.243	8.750	-1.633
6214	1.243	12.950	-1.633

Nodes Cont...

Node	X (m)	Y (m)	Z (m)
6218	26.810	8.750	-3.730
6219	26.756	8.750	-1.055
6221	-5.525	17.150	-11.230
6222	-3.090	17.150	-11.230
6223	1.243	17.150	-11.230
6224	-0.923	17.150	-11.230
6225	1.243	17.150	-1.633
6227	10.741	17.150	1.641
6228	0.129	25.550	-5.817
6229	-1.511	25.550	-4.480
6230	-3.871	25.550	-2.556
6231	54.066	25.550	-6.677
6233	34.626	25.550	3.885
6234	27.734	25.550	-3.730
6235	20.386	25.550	7.792
6238	66.385	17.150	-7.385
6239	58.736	17.150	-6.011
6240	56.621	17.150	-5.631
6241	52.354	17.150	-4.865
6242	62.709	17.150	-6.725
6243	65.972	17.150	-7.311
6244	64.099	17.150	-6.975
6245	54.496	17.150	-5.250
6246	63.286	17.150	-10.468
6247	52.271	17.150	-11.110
6248	54.333	17.150	-10.990
6249	56.396	17.150	-10.870
6250	58.462	17.150	-10.749
6251	62.412	17.150	-10.519
6252	66.424	12.950	-7.392
6253	62.046	12.950	-6.606
6255	54.973	12.950	-8.830
6256	65.061	12.950	-8.830
6257	58.294	12.950	-5.932
6258	56.269	12.950	-5.568
6259	54.493	12.950	-5.249
6260	52.354	12.950	-4.865
6261	64.099	12.950	-6.975
6262	65.717	12.950	-7.265
6263	54.395	12.950	-8.830
6264	56.896	12.950	-8.830
6265	59.533	12.950	-8.830
6266	61.011	12.950	-8.830
6267	63.235	12.950	-8.830
6268	0.129	29.750	-5.817
6269	-1.511	29.750	-4.480
6270	-3.871	29.750	-2.556
6271	54.066	29.750	-6.677
6272	19.768	25.550	15.114
6273	21.256	25.550	16.233
6274	22.749	25.550	17.355
6275	24.320	25.550	18.538
6276	26.018	25.550	19.815
6277	18.524	25.550	14.177

Nodes Cont...

Node	X (m)	Y (m)	Z (m)
6279	0.129	33.950	-5.817
6280	-1.511	33.950	-4.480
6281	-3.871	33.950	-2.556
6282	54.066	33.950	-6.677
6283	18.285	33.950	13.998
6284	19.768	33.950	15.114
6285	21.256	33.950	16.233
6286	22.749	33.950	17.356
6287	24.320	33.950	18.538
6288	26.018	33.950	19.815
6290	12.413	29.750	2.707
6292	34.626	29.750	3.885
6294	25.650	33.950	8.061
6298	10.741	42.350	1.641
6302	41.780	42.350	0.557
6306	34.626	46.550	3.885
6312	21.256	42.350	16.233
6313	22.749	42.350	17.356
6314	24.320	42.350	18.538
6315	18.285	42.350	13.998
6316	19.768	42.350	15.114
6317	26.018	42.350	19.815
6319	60.510	-1.050	-19.730
6320	68.360	-1.050	-19.730
6327	76.047	-1.050	-1.922
6328	71.173	-1.050	0.418
6329	68.599	-1.050	-5.117
6331	60.510	-1.050	-12.680
6333	69.014	-1.050	-18.215
6334	65.081	-1.050	-12.680
6335	67.454	-1.050	-7.577
6336	67.105	-1.050	-4.422
6337	69.756	-1.050	1.099
6339	65.741	-1.050	-11.263
6340	62.750	-1.050	-9.872
6341	64.171	-1.050	-10.533
6342	65.738	-1.050	-7.269
6343	61.150	-1.050	-9.128
6344	70.410	-1.050	-14.981
6345	73.715	-1.050	-7.325
6346	62.472	-1.050	-19.730
6347	64.435	-1.050	-19.730
6348	66.397	-1.050	-19.730
6352	64.435	-1.050	-12.680
6353	62.472	-1.050	-12.680
6354	66.397	-1.050	-14.533
6355	60.510	-5.250	-19.730
6356	68.360	-5.250	-19.730
6357	76.047	-5.250	-1.922
6361	62.472	-5.250	-19.730
6362	64.435	-5.250	-19.730
6363	66.397	-5.250	-19.730
6364	71.173	-5.250	0.418
6365	68.599	-5.250	-5.117

Nodes Cont...

Node	X (m)	Y (m)	Z (m)
6366	65.081	-5.250	-12.680
6367	69.756	-5.250	1.099
6369	76.047	2.950	-1.922
6370	60.510	2.950	-12.630
6372	71.425	2.950	-12.630
6373	73.715	2.950	-7.325
6375	71.986	2.950	-11.330
6376	73.891	2.950	-0.887
6377	71.458	2.950	-6.446
6378	61.466	2.950	-12.630
6379	63.775	2.950	-12.630
6380	66.068	2.950	-12.630
6381	68.752	2.950	-12.630
6382	62.397	2.950	-10.630
6383	66.955	2.950	-10.630
6384	64.684	2.950	-10.630
6385	69.628	2.950	-10.630
6389	67.454	-5.250	-7.577
6390	26.810	41.750	-4.480
6391	38.510	41.750	-4.480
6392	50.210	41.750	-4.480
6393	26.810	41.750	-11.230
6394	38.510	41.750	-11.230
6395	50.210	41.750	-11.230
6397	32.660	41.750	-4.480
6398	44.360	41.750	-4.480
6399	32.660	41.750	-11.230
6400	44.360	41.750	-11.230
6401	52.360	41.750	-4.480
6402	52.360	41.750	-11.230
6403	24.810	41.750	-4.480
6404	24.810	41.750	-11.230
6405	28.760	41.750	-11.230
6406	30.710	41.750	-11.230
6407	34.610	41.750	-11.230
6408	36.560	41.750	-11.230
6409	40.460	41.750	-11.230
6410	42.410	41.750	-11.230
6411	46.310	41.750	-11.230
6412	48.260	41.750	-11.230
6413	28.760	41.750	-4.480
6414	30.710	41.750	-4.480
6415	34.610	41.750	-4.480
6416	36.560	41.750	-4.480
6417	40.460	41.750	-4.480
6418	42.410	41.750	-4.480
6419	46.310	41.750	-4.480
6420	48.260	41.750	-4.480
6422	20.383	12.950	7.790
6423	24.860	2.950	8.703
6424	28.760	2.950	8.374
6425	33.486	2.950	6.124
6426	31.701	2.950	6.974
6427	29.916	2.950	7.823

Nodes Cont...

Node	X (m)	Y (m)	Z (m)
6428	26.347	2.950	9.522
6429	28.201	2.950	8.640
6430	35.271	2.950	5.274
6431	26.810	2.950	9.302
6432	28.760	2.950	5.376
6433	24.860	2.950	7.501
6434	26.810	38.150	-10.550
6435	38.510	38.150	-10.550
6436	50.210	38.150	-10.550
6437	44.360	38.150	-10.550
6438	32.660	38.150	-10.550
6439	38.510	41.750	-10.550
6440	50.210	41.750	-10.550
6441	26.810	41.750	-10.550
6442	32.660	41.750	-10.550
6443	44.360	41.750	-10.550
6444	26.810	38.150	-5.880
6445	38.510	38.150	-5.880
6446	50.210	38.150	-5.880
6447	44.360	38.150	-5.880
6448	32.660	38.150	-5.880
6449	26.810	41.750	-5.880
6450	38.510	41.750	-5.880
6451	50.210	41.750	-5.880
6452	44.360	41.750	-5.880
6453	32.660	41.750	-5.880
6454	52.360	41.750	-10.550
6455	24.810	41.750	-10.550
6456	28.760	41.750	-10.550
6457	30.710	41.750	-10.550
6458	34.610	41.750	-10.550
6459	36.560	41.750	-10.550
6460	40.460	41.750	-10.550
6461	42.410	41.750	-10.550
6462	46.310	41.750	-10.550
6463	48.260	41.750	-10.550
6464	52.360	41.750	-5.880
6465	24.810	41.750	-5.880
6466	28.760	41.750	-5.880
6467	30.710	41.750	-5.880
6468	34.610	41.750	-5.880
6469	36.560	41.750	-5.880
6470	40.460	41.750	-5.880
6471	42.410	41.750	-5.880
6472	46.310	41.750	-5.880
6473	48.260	41.750	-5.880
6474	82.580	-1.050	-19.730
6475	82.580	-5.250	-19.730
6476	82.580	-1.050	-5.330
6477	82.580	-5.250	-5.330
6478	75.710	-1.050	-19.730
6480	79.310	-1.050	-19.730
6481	79.310	-5.250	-19.730
6482	82.580	-1.050	-11.330

Nodes Cont...

Node	X (m)	Y (m)	Z (m)
6483	82.580	-5.250	-11.330
6484	75.710	-1.050	-11.330
6488	82.580	-1.050	-14.855
6489	82.580	-5.250	-14.855
6490	75.710	-1.050	-14.855
6491	75.710	-5.250	-14.855
6492	79.310	-1.050	-14.855
6493	79.310	-5.250	-14.855
6494	71.986	-1.050	-11.330
6495	79.310	-1.050	-11.330
6496	70.410	-5.250	-14.981
6497	73.715	-5.250	-7.325
6498	71.986	-5.250	-11.330
6499	77.510	-1.050	-11.330
6500	77.510	-1.050	-14.855
6501	77.510	-1.050	-19.730
6502	77.510	-5.250	-19.730
6503	73.848	-1.050	-11.330
6506	75.488	-1.050	-8.126
6507	77.261	-1.050	-8.927
6508	79.034	-1.050	-9.728
6509	80.807	-1.050	-10.529
6510	77.680	-1.050	-2.774
6511	79.314	-1.050	-3.626
6512	80.947	-1.050	-4.478
6513	80.310	-1.050	-11.330
6514	78.010	-1.050	-11.330
6515	71.986	-1.050	-19.730
6516	71.986	-1.050	-14.943
6517	73.848	-1.050	-19.730
6518	73.848	-1.050	-14.899
6519	77.680	-5.250	-2.774
6520	79.314	-5.250	-3.626
6521	80.947	-5.250	-4.478
6522	75.710	-5.250	-19.730
6523	71.986	-5.250	-19.730
6524	73.848	-5.250	-19.730
6525	70.410	-1.050	-19.730
6526	70.410	-5.250	-19.730
6527	80.945	-1.050	-19.730
6528	80.945	-1.050	-14.855
6529	80.945	-1.050	-11.330
6530	50.689	46.550	-3.577
6531	25.753	50.750	8.121
6532	59.730	50.750	-7.670

Beams

Beam	Node A	Node B	Length (m)	Property	β (degrees)
7	7	66	4.200	14	0
8	8	67	4.200	14	0
9	9	68	4.200	14	0
21	21	80	4.200	56	0
22	22	81	4.200	14	0
34	34	93	4.200	56	0
60	103	94	1.150	52	0
61	94	606	2.167	52	0
62	96	444	1.950	52	0
63	97	474	1.950	52	0
64	98	449	1.950	52	0
65	99	454	1.950	52	0
66	100	583	2.060	52	0
68	81	5925	2.184	42	0
69	83	483	1.950	42	0
70	85	488	1.950	42	0
71	87	493	1.950	42	0
72	89	498	1.950	42	0
73	91	6097	2.066	42	0
75	80	613	2.168	39	0
76	82	459	1.950	39	0
77	84	439	1.950	39	0
78	86	464	1.950	39	0
79	88	469	1.950	39	0
82	80	81	3.670	29	0
83	81	94	11.380	40	0
84	82	356	1.600	11	0
85	83	141	0.500	11	0
86	84	359	1.600	11	0
87	85	142	0.500	11	0
88	86	360	1.600	11	0
89	87	143	0.500	11	0
90	88	361	1.600	11	0
91	89	144	0.500	11	0
92	90	362	1.600	11	0
93	91	145	0.500	11	0
95	93	6331	2.050	11	0
101	101	102	3.670	52	0
102	102	103	11.380	52	0
104	113	541	1.993	29	0
105	112	643	1.899	29	0
107	111	670	1.826	29	0
108	120	691	1.144	29	0
109	104	499	1.995	29	0
110	105	505	1.975	29	0
111	106	577	1.985	29	0
112	107	620	1.684	52	0
116	61	694	0.550	11	0
118	112	65	2.951	11	0
119	65	701	0.550	11	0
121	111	67	2.951	11	0
125	104	70	2.944	11	0
126	70	126	4.700	11	0
127	105	72	2.944	11	0

Beams Cont...

Beam	Node A	Node B	Length (m)	Property	β (degrees)
128	72	397	0.550	11	0
129	106	75	2.944	11	0
130	75	398	0.550	11	0
132	122	64	1.796	11	0
133	123	71	1.796	11	0
134	124	73	1.796	11	0
135	76	399	0.550	11	0
136	125	74	1.796	11	0
140	122	637	1.876	39	0
141	126	69	1.839	11	0
142	66	662	1.888	39	0
145	61	523	1.983	11	0
146	65	642	1.897	11	0
147	67	666	1.815	11	0
148	68	688	1.782	11	0
149	70	415	1.958	11	0
150	126	409	1.967	65	0
152	72	427	1.973	11	0
153	124	601	1.975	39	0
154	78	604	0.690	39	0
157	127	128	4.200	15	0
158	129	130	4.200	15	0
159	131	132	4.200	15	0
160	64	128	4.330	11	0
161	128	84	8.374	11	0
162	128	5923	1.083	64	0
164	69	674	1.935	11	0
165	130	86	7.539	11	0
167	132	88	6.716	11	0
168	132	5916	1.080	64	0
169	73	605	3.388	11	0
170	79	125	1.958	39	0
171	78	77	2.250	29	0
175	82	547	1.551	39	0
178	121	5717	2.037	39	0
180	536	540	1.988	39	0
187	75	433	1.971	11	0
188	76	618	1.684	11	0
189	107	76	1.445	11	0
191	125	622	1.682	39	0
193	141	96	10.050	11	0
194	142	97	10.050	11	0
195	143	98	10.050	11	0
196	144	99	10.050	11	0
197	145	100	10.050	11	0
208	352	1060	1.950	11	0
209	353	1065	1.950	11	0
210	354	1070	1.950	11	0
213	164	998	2.168	50	0
214	166	873	1.950	50	0
215	168	853	1.950	50	0
216	170	878	1.950	50	0
217	172	883	1.950	50	0
220	164	5989	3.670	29	0

Beams Cont...

Beam	Node A	Node B	Length (m)	Property	β (degrees)
222	166	346	1.600	11	0
224	168	347	1.600	11	0
226	170	348	1.600	11	0
228	172	349	1.600	11	0
230	174	350	1.600	11	0
241	197	936	1.993	29	0
242	196	1021	1.899	29	0
243	195	1036	1.826	29	0
244	202	1050	1.144	29	0
245	188	913	1.995	29	0
246	189	919	1.975	29	0
247	190	969	1.985	29	0
248	191	1004	1.684	29	0
252	227	692	0.900	50	0
255	228	699	0.900	11	0
257	151	150	5.803	11	0
262	231	391	0.900	11	0
264	232	392	0.900	11	0
266	204	148	1.796	11	0
267	205	155	1.796	11	0
268	206	157	1.796	11	0
269	233	393	0.900	50	0
270	207	158	1.796	50	0
271	204	1015	1.876	50	0
272	208	153	1.839	11	0
273	150	1028	1.888	50	0
274	152	1049	2.400	11	0
276	227	1078	1.983	11	0
277	228	1081	1.886	11	0
278	151	1032	1.815	11	0
279	152	1083	1.776	11	0
280	230	1089	1.963	11	0
281	208	823	1.967	50	0
282	205	835	1.973	50	0
283	231	1095	1.973	11	0
284	206	989	1.975	50	0
285	162	991	0.690	50	0
287	148	209	4.330	11	0
288	209	168	8.374	11	0
289	209	6007	1.083	61	0
290	210	6008	1.193	61	0
291	153	1040	1.935	11	0
292	210	170	7.539	11	0
293	155	6130	0.900	11	0
294	211	172	6.716	11	0
295	211	6014	1.080	61	0
296	157	992	3.388	11	0
297	163	207	1.958	50	0
298	162	161	2.250	29	0
302	166	942	1.551	50	0
303	203	5718	2.037	50	0
304	212	933	2.060	50	0
305	932	935	1.988	50	0
311	232	1101	1.971	11	0

Beams Cont...

Beam	Node A	Node B	Length (m)	Property	β (degrees)
312	233	1103	1.684	11	0
315	207	1006	1.682	50	0
326	197	227	1.101	50	0
327	196	228	2.601	11	0
328	195	151	2.951	11	0
329	188	230	2.594	11	0
330	189	231	2.594	11	0
331	190	232	2.594	11	0
332	191	233	1.095	50	0
344	300	1418	1.950	28	0
345	301	1423	1.950	28	0
346	302	1428	1.950	28	0
347	303	1433	1.950	28	0
348	258	1280	2.168	27	0
349	260	1198	1.950	27	0
350	262	1193	1.950	27	0
352	266	1208	1.950	27	0
355	258	259	3.670	28	0
356	260	336	1.600	28	0
357	262	337	1.600	28	0
358	264	338	1.600	28	0
359	266	339	1.600	28	0
360	268	340	1.600	28	0
377	322	324	1.950	51	0
378	240	6213	2.053	51	0
380	317	325	1.950	28	0
382	245	244	5.803	28	0
385	319	326	1.950	28	0
387	320	327	1.950	28	0
389	321	328	1.950	28	0
390	286	240	1.796	51	0
391	287	242	1.796	28	0
392	288	249	1.796	28	0
393	289	251	1.796	28	0
394	323	329	1.950	51	0
395	290	252	1.796	51	0
396	287	1289	1.876	27	0
397	291	1637	1.839	28	0
398	244	1299	1.888	27	0
399	246	1318	2.400	51	0
401	322	1439	1.982	48	0
402	317	1442	1.879	48	0
403	245	1303	1.815	48	0
404	246	1444	1.799	48	0
405	319	1450	1.976	48	0
406	291	1181	1.967	27	0
407	288	1187	1.973	27	0
408	320	1456	1.974	48	0
409	289	1275	1.975	27	0
410	256	1277	0.690	27	0
421	251	1174	2.854	51	0
422	257	290	1.958	27	0
423	256	255	2.250	44	0
426	255	1295	2.490	44	0

Beams Cont...

Beam	Node A	Node B	Length (m)	Property	β (degrees)
428	286	5720	2.037	27	0
429	295	1227	2.060	27	0
430	1226	1229	1.988	27	0
436	321	1462	1.972	48	0
448	304	6176	2.064	28	0
450	6152	6154	2.167	28	0
462	324	330	2.500	51	0
463	325	331	2.500	28	0
464	326	332	2.500	28	0
465	327	333	2.500	28	0
466	328	334	2.500	28	0
467	329	335	2.500	51	0
468	330	286	1.650	51	0
469	331	287	1.650	28	0
470	332	291	1.650	28	0
471	333	288	1.650	28	0
472	334	289	1.650	28	0
473	335	290	1.650	51	0
474	336	341	3.400	28	0
475	337	342	3.400	28	0
476	338	343	3.400	28	0
477	339	344	3.400	28	0
478	340	345	3.400	28	0
479	341	300	1.750	28	0
480	342	301	1.750	28	0
481	343	302	1.750	28	0
482	344	303	1.750	28	0
483	345	304	1.750	28	0
484	346	6059	2.280	11	0
485	347	352	2.280	11	0
486	348	353	2.280	11	0
487	349	354	2.280	11	0
488	350	355	2.280	11	0
489	356	83	3.100	11	0
500	359	85	3.100	11	0
501	360	87	3.100	11	0
502	361	89	3.100	11	0
503	362	91	3.100	11	0
552	355	1107	2.060	11	0
557	1104	1110	2.113	11	0
559	81	5989	4.000	14	0
572	391	394	2.500	11	0
573	392	395	2.500	11	0
574	393	396	2.500	50	0
575	394	205	1.650	11	0
576	395	206	1.650	11	0
577	396	207	1.650	50	0
578	397	400	2.500	11	0
579	398	401	2.500	11	0
580	399	402	2.500	11	0
581	400	123	1.650	11	0
582	401	124	1.650	11	0
583	402	125	1.650	11	0
623	80	164	4.000	56	0

Beams Cont...

Beam	Node A	Node B	Length (m)	Property	β (degrees)
624	164	258	5.800	56	0
625	67	151	4.000	14	0
626	66	150	4.000	14	0
627	150	244	5.800	14	0
628	151	245	5.800	14	0
629	68	152	4.000	14	0
630	152	246	5.800	14	0
631	409	410	1.967	65	0
632	410	411	1.967	65	0
633	411	412	1.967	65	0
634	412	413	1.967	65	0
635	413	414	1.967	65	0
636	414	123	1.967	65	0
637	415	416	1.958	11	0
638	416	417	1.958	11	0
639	417	418	1.958	11	0
640	418	419	1.958	11	0
641	419	420	1.958	11	0
642	420	72	1.958	11	0
649	427	428	1.973	11	0
650	428	429	1.973	11	0
651	429	430	1.973	11	0
652	430	431	1.973	11	0
653	431	432	1.973	11	0
654	432	75	1.973	11	0
655	433	434	1.971	11	0
656	434	435	1.971	11	0
657	435	436	1.971	11	0
658	436	437	1.971	11	0
659	437	438	1.971	11	0
660	438	76	1.971	11	0
661	415	409	4.700	40	0
662	416	410	4.700	40	0
663	417	411	4.700	40	0
664	418	412	4.700	40	0
665	419	413	4.700	40	0
666	420	414	4.700	40	0
667	427	5904	6.496	40	0
668	428	5899	6.496	40	0
669	429	5900	6.496	40	0
670	430	5901	6.496	40	0
671	431	5902	6.496	40	0
672	432	5903	6.496	40	0
689	439	440	1.950	39	0
690	440	441	1.950	39	0
691	441	442	1.950	39	0
692	442	443	1.950	39	0
693	443	86	1.950	39	0
694	444	445	1.950	52	0
695	445	446	1.950	52	0
696	446	447	1.950	52	0
697	447	448	1.950	52	0
698	448	97	1.950	52	0
699	449	450	1.950	52	0

Beams Cont...

Beam	Node A	Node B	Length (m)	Property	β (degrees)
700	450	451	1.950	52	0
701	451	452	1.950	52	0
702	452	453	1.950	52	0
703	453	99	1.950	52	0
704	454	455	1.950	52	0
705	455	456	1.950	52	0
706	456	457	1.950	52	0
707	457	458	1.950	52	0
708	458	100	1.950	52	0
709	459	460	1.950	39	0
710	460	461	1.950	39	0
711	461	462	1.950	39	0
712	462	463	1.950	39	0
713	463	84	1.950	39	0
714	464	465	1.950	39	0
715	465	466	1.950	39	0
716	466	467	1.950	39	0
717	467	468	1.950	39	0
718	468	88	1.950	39	0
719	469	470	1.950	39	0
720	470	471	1.950	39	0
721	471	472	1.950	39	0
722	472	473	1.950	39	0
723	473	90	1.950	39	0
724	474	475	1.950	52	0
725	475	476	1.950	52	0
726	476	477	1.950	52	0
727	477	478	1.950	52	0
728	478	98	1.950	52	0
729	459	483	4.700	40	0
730	460	482	4.700	40	0
731	461	481	4.700	40	0
732	462	480	4.700	40	0
733	463	479	4.700	40	0
734	439	488	4.700	40	0
735	440	487	4.700	40	0
736	441	486	4.700	40	0
737	442	485	4.700	40	0
738	443	484	4.700	40	0
739	464	493	4.700	40	0
740	465	492	4.700	40	0
741	466	491	4.700	40	0
742	467	490	4.700	40	0
743	468	489	4.700	40	0
744	469	498	4.700	40	0
745	470	497	4.700	40	0
746	471	496	4.700	40	0
747	472	495	4.700	40	0
748	473	494	4.700	40	0
749	479	85	1.950	42	0
750	480	479	1.950	42	0
751	481	480	1.950	42	0
752	482	481	1.950	42	0
753	483	482	1.950	42	0

Beams Cont...

Beam	Node A	Node B	Length (m)	Property	β (degrees)
754	484	87	1.950	42	0
755	485	484	1.950	42	0
756	486	485	1.950	42	0
757	487	486	1.950	42	0
758	488	487	1.950	42	0
759	489	89	1.950	42	0
760	490	489	1.950	42	0
761	491	490	1.950	42	0
762	492	491	1.950	42	0
763	493	492	1.950	42	0
764	494	91	1.950	42	0
765	495	494	1.950	42	0
766	496	495	1.950	42	0
767	497	496	1.950	42	0
768	498	497	1.950	42	0
769	483	444	10.550	40	0
770	482	445	10.550	40	0
771	481	446	10.550	40	0
772	480	447	10.550	40	0
773	479	448	10.550	40	0
774	488	474	10.550	40	0
775	487	475	10.550	40	0
776	486	476	10.550	40	0
777	485	477	10.550	40	0
778	484	478	10.550	40	0
779	493	449	10.550	40	0
780	492	450	10.550	40	0
781	491	451	10.550	40	0
782	490	452	10.550	40	0
783	489	453	10.550	40	0
784	498	454	10.550	40	0
785	497	455	10.550	40	0
786	496	456	10.550	40	0
787	495	457	10.550	40	0
788	494	458	10.550	40	0
845	499	500	1.952	29	0
846	500	501	1.952	29	0
847	501	502	1.952	29	0
848	502	503	1.952	29	0
849	503	504	1.952	29	0
850	504	105	1.950	29	0
851	499	415	2.944	40	0
852	500	416	2.944	40	0
853	501	417	2.944	40	0
854	502	418	2.944	40	0
855	503	419	2.944	40	0
856	504	420	2.944	40	0
857	505	510	1.973	29	0
858	506	507	1.973	29	0
859	507	508	1.973	29	0
860	508	509	1.973	29	0
861	509	106	1.971	29	0
862	505	427	2.944	40	0
863	506	429	2.944	40	0

Beams Cont...

Beam	Node A	Node B	Length (m)	Property	β (degrees)
864	507	430	2.944	40	0
865	508	431	2.944	40	0
866	509	432	2.944	40	0
867	510	506	1.973	29	0
868	510	428	2.944	40	0
898	523	524	1.983	11	0
899	524	525	1.983	11	0
900	525	526	1.983	11	0
901	526	527	1.983	11	0
902	527	528	1.983	11	0
903	528	65	1.983	11	0
910	523	5717	4.229	40	0
911	524	133	4.229	40	0
912	525	537	4.219	40	0
913	526	536	4.210	40	0
914	527	540	4.330	40	0
915	528	539	4.515	40	0
916	5717	133	1.907	39	0
918	537	5724	0.730	39	0
919	133	537	2.060	39	0
920	539	122	1.993	39	0
921	540	539	1.993	39	0
926	540	551	6.873	40	0
927	539	552	6.499	29	0
928	541	542	1.994	29	0
929	542	543	1.994	29	0
930	543	544	1.994	29	0
931	544	545	1.994	29	0
932	545	546	1.994	29	0
933	546	112	1.993	29	0
934	541	523	1.665	40	0
935	542	524	1.879	40	0
936	543	525	2.094	40	0
937	544	526	2.308	40	0
938	545	527	2.523	40	0
939	546	528	2.737	40	0
940	547	548	1.992	39	0
941	548	549	1.992	39	0
942	549	550	1.992	39	0
943	550	551	1.992	39	0
944	551	552	1.992	39	0
945	552	128	1.972	39	0
946	547	459	1.201	40	0
947	548	460	2.448	40	0
948	549	461	3.720	40	0
949	550	462	4.999	40	0
950	551	463	6.280	40	0
951	552	84	7.563	40	0
952	5877	5892	0.763	64	0
953	5878	5893	0.479	64	0
954	5879	5881	2.162	64	0
955	5880	130	0.762	64	0
960	5881	5880	1.955	64	0
962	5882	5919	0.927	64	0

Beams Cont...

Beam	Node A	Node B	Length (m)	Property	β (degrees)
963	5883	5920	1.101	64	0
964	5884	5921	1.272	64	0
965	5885	5886	1.955	64	0
966	5886	132	0.872	64	0
987	414	5920	8.612	40	0
988	413	5919	9.381	49	0
989	412	5918	10.151	49	0
990	568	569	3.393	11	0
991	569	130	4.094	11	0
992	409	568	4.595	40	0
993	410	569	7.367	40	0
994	130	5924	1.193	64	0
995	411	130	10.854	49	0
998	71	5921	6.048	40	0
1005	433	601	4.577	40	0
1006	434	600	4.454	40	0
1007	435	599	4.332	40	0
1008	436	604	4.252	40	0
1009	437	603	4.251	40	0
1010	438	79	4.251	40	0
1011	577	578	1.983	29	0
1012	578	579	1.983	29	0
1013	579	580	1.983	29	0
1014	580	581	1.983	29	0
1015	581	582	1.983	29	0
1016	582	107	1.983	29	0
1017	577	433	2.730	40	0
1018	578	434	2.516	40	0
1019	579	435	2.301	40	0
1020	580	436	2.087	40	0
1021	581	437	1.873	40	0
1022	582	438	1.659	40	0
1023	583	584	2.060	52	0
1024	584	585	2.060	52	0
1025	585	586	2.060	52	0
1031	6100	5582	1.992	42	0
1032	6099	6100	2.089	42	0
1033	6098	6099	2.083	42	0
1034	6097	6098	2.075	42	0
1039	599	78	1.284	39	0
1040	600	5372	0.900	39	0
1041	601	600	1.975	39	0
1043	603	79	2.037	39	0
1044	604	603	1.971	39	0
1051	6097	583	10.620	40	0
1053	6098	584	10.691	40	0
1055	6099	585	10.761	40	0
1057	6100	586	10.833	40	0
1064	605	90	3.229	11	0
1065	601	605	4.675	40	0
1066	606	607	2.167	52	0
1067	607	96	2.167	52	0
1068	5925	606	11.103	40	0
1069	5926	607	10.827	40	0

Beams Cont...

Beam	Node A	Node B	Length (m)	Property	β (degrees)
1070	5926	83	2.184	42	0
1071	5925	5926	2.184	42	0
1072	612	82	2.168	39	0
1073	613	612	2.168	39	0
1075	613	5925	4.013	40	0
1077	612	5926	4.357	40	0
1084	618	5493	2.017	11	0
1086	620	5463	2.017	52	0
1088	620	618	1.445	40	0
1089	5463	5493	1.445	11	0
1090	622	5477	2.017	39	0
1092	618	622	4.700	40	0
1093	5493	5494	0.550	11	0
1096	5477	5524	1.800	11	0
1098	6027	6064	1.633	29	0
1189	637	638	1.876	39	0
1190	638	639	1.876	39	0
1191	639	66	1.876	39	0
1192	643	642	2.952	40	0
1193	644	641	2.952	40	0
1194	645	640	2.952	40	0
1195	640	67	1.898	11	0
1196	641	640	1.898	11	0
1197	642	641	1.897	11	0
1198	642	637	4.976	40	0
1199	641	638	5.251	40	0
1200	640	639	5.527	40	0
1201	643	644	1.898	29	0
1202	644	645	1.898	29	0
1203	645	111	1.895	29	0
1237	637	5877	7.499	40	0
1239	638	5878	8.851	40	0
1241	639	5879	10.197	49	0
1242	66	5881	11.505	49	0
1270	68	690	2.400	11	0
1272	651	120	0.839	29	0
1273	651	68	2.483	11	0
1276	67	66	5.803	11	0
1285	666	662	6.231	40	0
1286	667	663	6.660	40	0
1287	668	664	7.089	40	0
1289	669	665	7.517	40	0
1290	662	663	1.888	39	0
1291	663	664	1.888	39	0
1292	664	665	1.888	39	0
1293	665	126	0.521	39	0
1294	666	667	1.815	11	0
1295	667	668	1.815	11	0
1296	668	669	1.815	11	0
1297	669	68	1.942	11	0
1298	670	671	1.822	29	0
1299	671	672	1.823	29	0
1300	672	673	1.822	29	0
1301	673	651	2.417	29	0

Beams Cont...

Beam	Node A	Node B	Length (m)	Property	β (degrees)
1302	670	666	2.860	40	0
1303	671	667	2.768	40	0
1304	672	668	2.677	40	0
1305	673	669	2.585	40	0
1306	662	5880	12.165	49	0
1307	663	569	8.408	40	0
1308	674	568	1.439	11	0
1309	664	674	3.420	40	0
1326	687	689	3.083	40	0
1327	688	690	1.466	40	0
1328	685	686	1.958	29	0
1329	686	104	1.916	29	0
1330	685	688	2.543	40	0
1331	686	687	2.744	40	0
1332	687	70	1.965	11	0
1333	688	687	1.965	11	0
1336	689	126	2.646	11	0
1337	690	689	2.646	11	0
1350	691	685	1.958	29	0
1351	691	68	2.365	40	0
1371	692	693	2.500	50	0
1372	693	203	1.650	50	0
1374	695	121	1.650	11	0
1387	699	700	2.500	11	0
1388	700	204	1.650	11	0
1389	701	702	2.500	11	0
1390	702	122	1.650	11	0
1618	823	824	1.967	50	0
1619	824	825	1.967	50	0
1620	825	826	1.967	50	0
1621	826	827	1.967	50	0
1622	827	828	1.967	50	0
1623	828	205	1.967	50	0
1624	835	836	1.973	50	0
1625	836	837	1.973	50	0
1626	837	838	1.973	50	0
1627	838	839	1.973	50	0
1628	839	840	1.973	50	0
1629	840	206	1.973	50	0
1630	853	854	1.950	50	0
1631	854	855	1.950	50	0
1632	855	856	1.950	50	0
1633	856	857	1.950	50	0
1634	857	170	1.950	50	0
1635	873	874	1.950	50	0
1636	874	875	1.950	50	0
1637	875	876	1.950	50	0
1638	876	877	1.950	50	0
1639	877	168	1.950	50	0
1640	878	879	1.950	50	0
1641	879	880	1.950	50	0
1642	880	881	1.950	50	0
1643	881	882	1.950	50	0
1644	882	172	1.950	50	0

Beams Cont...

Beam	Node A	Node B	Length (m)	Property	β (degrees)
1645	883	884	1.950	50	0
1646	884	885	1.950	50	0
1647	885	886	1.950	50	0
1648	886	887	1.950	50	0
1649	887	174	1.950	50	0
1650	913	914	1.952	29	0
1651	914	915	1.952	29	0
1652	915	916	1.952	29	0
1653	916	917	1.952	29	0
1654	917	918	1.952	29	0
1655	918	189	1.950	29	0
1656	919	924	1.973	29	0
1657	920	921	1.973	29	0
1658	921	922	1.973	29	0
1659	922	923	1.973	29	0
1660	923	190	1.971	29	0
1661	924	920	1.973	29	0
1662	5718	212	1.907	50	0
1664	933	5725	0.730	50	0
1665	934	204	1.993	50	0
1666	935	934	1.993	50	0
1667	936	937	1.994	29	0
1668	937	938	1.994	29	0
1669	938	939	1.994	29	0
1670	939	940	1.994	29	0
1671	940	941	1.994	29	0
1672	941	196	1.993	29	0
1673	942	6200	0.924	50	0
1674	943	6201	1.408	50	0
1675	944	945	1.992	50	0
1676	945	946	1.992	50	0
1677	946	6203	0.384	50	0
1678	947	6204	0.868	50	0
1679	5993	210	0.762	61	0
1680	5994	5993	1.955	61	0
1681	5995	6016	0.927	61	0
1682	5996	6017	1.101	61	0
1683	5997	6018	1.272	61	0
1684	5998	5999	1.955	61	0
1685	5999	211	0.872	61	0
1686	6014	6009	1.950	61	0
1687	6009	6010	1.950	61	0
1688	6010	6011	1.950	61	0
1689	6011	6012	1.950	61	0
1690	6004	6013	1.243	61	0
1691	960	6423	1.695	11	0
1692	961	210	4.094	11	0
1693	6019	211	2.308	11	0
1700	969	970	1.983	29	0
1701	970	971	1.983	29	0
1702	971	972	1.983	29	0
1703	972	973	1.983	29	0
1704	973	974	1.983	29	0
1705	974	191	1.983	29	0

Beams Cont...

Beam	Node A	Node B	Length (m)	Property	β (degrees)
1710	987	162	1.284	50	0
1711	988	5373	0.900	50	0
1712	989	988	1.975	50	0
1713	990	163	2.037	50	0
1714	991	990	1.971	50	0
1715	992	174	3.229	11	0
1716	997	166	2.168	50	0
1717	998	997	2.168	50	0
1719	1004	5464	2.017	29	0
1721	1006	5478	2.017	50	0
1728	1015	1016	1.876	50	0
1729	1016	1017	1.876	50	0
1730	1017	150	1.876	50	0
1731	1021	1022	1.898	29	0
1732	1022	1023	1.898	29	0
1733	1023	195	1.895	29	0
1735	5990	6005	0.763	61	0
1736	5991	6006	0.479	61	0
1737	5992	5994	2.162	61	0
1738	1028	1029	1.888	50	0
1739	1029	1030	1.888	50	0
1740	1030	1031	1.888	50	0
1741	1031	208	0.521	11	0
1742	1032	1033	1.815	11	0
1743	1033	1034	1.815	11	0
1744	1034	1035	1.815	11	0
1745	1035	152	1.942	11	0
1746	1036	1037	1.822	29	0
1747	1037	1038	1.823	29	0
1748	1038	1039	1.822	29	0
1749	1039	1131	2.417	29	0
1750	1040	960	1.439	11	0
1754	1044	1045	1.958	29	0
1755	1045	188	1.916	29	0
1756	1048	208	2.646	11	0
1757	1049	1048	2.646	11	0
1758	1050	1044	1.958	29	0
1759	1089	823	5.050	40	0
1760	1088	824	5.050	40	0
1761	1087	825	5.050	40	0
1762	1086	826	5.050	40	0
1763	1085	827	5.050	40	0
1764	1084	828	5.050	40	0
1765	1095	835	5.050	40	0
1766	1094	836	5.050	40	0
1767	1093	837	5.050	40	0
1768	1092	838	5.050	40	0
1769	1091	839	5.050	40	0
1770	1090	840	5.050	40	0
1771	873	1055	3.880	40	0
1772	874	1054	3.880	40	0
1773	875	1053	3.880	40	0
1774	876	1052	3.880	40	0
1775	877	1051	3.880	40	0

Beams Cont...

Beam	Node A	Node B	Length (m)	Property	β (degrees)
1776	853	1060	3.880	40	0
1777	854	1059	3.880	40	0
1778	855	1058	3.880	40	0
1779	856	1057	3.880	40	0
1780	857	1056	3.880	43	0
1781	878	1065	3.880	43	0
1782	879	1064	3.880	40	0
1783	880	1063	3.880	40	0
1784	881	1062	3.880	40	0
1785	882	1061	3.880	40	0
1786	883	1070	3.880	40	0
1787	884	1069	3.880	40	0
1788	885	1068	3.880	40	0
1789	886	1067	3.880	40	0
1790	887	1066	3.880	40	0
1811	913	1089	2.594	40	0
1812	914	1088	2.594	40	0
1813	915	1087	2.594	40	0
1814	916	1086	2.594	40	0
1815	917	1085	2.594	40	0
1816	918	1084	2.594	40	0
1817	919	1095	2.594	40	0
1818	920	1093	2.594	40	0
1819	921	1092	2.594	40	0
1820	922	1091	2.594	40	0
1821	923	1090	2.594	40	0
1822	924	1094	2.594	40	0
1823	1078	5718	4.579	40	0
1824	1077	212	4.579	40	0
1825	1076	933	4.569	40	0
1826	1075	932	4.560	40	0
1827	1074	935	4.680	40	0
1828	1073	934	4.865	40	0
1829	5718	942	7.731	40	0
1833	935	946	6.873	40	0
1834	934	947	6.499	40	0
1835	936	1078	1.315	40	0
1836	937	1077	1.529	40	0
1837	938	1076	1.744	40	0
1838	939	1075	1.958	40	0
1839	940	1074	2.173	40	0
1840	941	1073	2.387	40	0
1841	6200	873	1.525	40	0
1842	6201	874	3.049	40	0
1843	945	875	4.636	40	0
1844	6203	876	6.099	40	0
1845	6204	877	7.624	29	0
1861	840	6136	1.200	40	0
1867	828	6425	4.652	40	0
1868	827	6426	4.641	49	0
1869	826	6427	4.629	49	0
1870	823	960	4.595	40	0
1871	824	6428	4.606	40	0
1872	825	6429	4.619	49	0

Beams Cont...

Beam	Node A	Node B	Length (m)	Property	β (degrees)
1874	1101	989	4.927	40	0
1875	1100	988	4.804	40	0
1876	1099	987	4.682	40	0
1877	1098	991	4.602	40	0
1878	1097	990	4.601	40	0
1879	1096	163	4.601	40	0
1880	969	1101	2.380	40	0
1881	970	1100	2.166	40	0
1882	971	1099	1.951	40	0
1883	972	1098	1.737	40	0
1884	973	1097	1.523	40	0
1885	974	1096	1.309	40	0
1900	163	6109	5.431	40	0
1901	990	6110	5.975	40	0
1903	987	6111	6.992	40	0
1904	988	174	7.425	40	0
1905	989	992	4.675	40	0
1909	997	6061	3.803	40	0
1912	1004	1103	1.095	40	0
1913	5464	5495	1.096	11	0
1914	1103	1006	5.050	40	0
1915	5495	5496	0.900	11	0
1924	1021	1081	2.689	40	0
1925	1022	1080	2.777	40	0
1926	1023	1079	2.864	40	0
1927	1081	1015	5.238	40	0
1928	1080	1016	5.426	40	0
1929	1079	1017	5.615	40	0
1931	1015	5990	7.499	40	0
1932	1016	5991	8.851	40	0
1933	1017	5992	10.197	49	0
1934	150	5994	11.505	49	0
1935	1032	1028	6.231	40	0
1936	1033	1029	6.660	40	0
1937	1034	1030	7.089	40	0
1938	1035	1031	7.517	40	0
1939	1036	1032	2.860	40	0
1940	1037	1033	2.768	40	0
1941	1038	1034	2.677	40	0
1942	1039	1035	2.585	40	0
1943	1028	5993	12.165	49	0
1944	1029	6433	7.852	40	0
1945	1030	1040	3.420	40	0
1949	1082	1048	3.313	40	0
1950	1083	1049	1.575	40	0
1951	1044	1083	2.434	40	0
1952	1045	1082	2.514	40	0
1953	1050	152	2.365	40	0
1954	1051	352	1.950	11	0
1955	1052	1051	1.950	11	0
1956	1053	1052	1.950	11	0
1957	1054	1053	1.950	11	0
1958	1055	1054	1.950	11	0
1959	1056	353	1.950	11	0

Beams Cont...

Beam	Node A	Node B	Length (m)	Property	β (degrees)
1960	1057	1056	1.950	11	0
1961	1058	1057	1.950	11	0
1962	1059	1058	1.950	11	0
1963	1060	1059	1.950	11	0
1964	1061	354	1.950	11	0
1965	1062	1061	1.950	11	0
1966	1063	1062	1.950	11	0
1967	1064	1063	1.950	11	0
1968	1065	1064	1.950	11	0
1969	1066	355	1.950	11	0
1970	1067	1066	1.950	11	0
1971	1068	1067	1.950	11	0
1972	1069	1068	1.950	11	0
1973	1070	1069	1.950	11	0
1976	1073	228	1.983	11	0
1977	1074	1073	1.983	11	0
1978	1075	1074	1.983	11	0
1979	1076	1075	1.983	11	0
1980	1077	1076	1.983	11	0
1981	1078	1077	1.983	11	0
1982	1079	151	1.887	11	0
1983	1080	1079	1.887	11	0
1984	1081	1080	1.887	11	0
1985	1082	230	1.953	11	0
1986	1083	1082	1.958	11	0
1987	1084	231	1.957	11	0
1988	1085	1084	1.958	11	0
1989	1086	1085	1.957	11	0
1990	1087	1086	1.957	11	0
1991	1088	1087	1.957	11	0
1992	1089	1088	1.957	11	0
1993	1090	232	1.973	11	0
1994	1091	1090	1.973	11	0
1995	1092	1091	1.973	11	0
1996	1093	1092	1.973	11	0
1997	1094	1093	1.973	11	0
1998	1095	1094	1.973	11	0
1999	1096	233	1.971	11	0
2000	1097	1096	1.971	11	0
2001	1098	1097	1.971	11	0
2002	1099	1098	1.971	11	0
2003	1100	1099	1.971	11	0
2004	1101	1100	1.971	11	0
2006	1103	5495	2.017	11	0
2008	1105	1104	2.060	11	0
2009	1106	1105	2.060	11	0
2010	1107	1106	2.060	11	0
2074	998	6062	3.737	40	0
2077	1006	6114	4.114	40	0
2078	5478	5527	1.800	11	0
2083	230	385	0.900	11	0
2084	385	386	2.500	11	0
2085	386	208	1.650	11	0
2212	1131	202	0.839	29	0

Beams Cont...

Beam	Node A	Node B	Length (m)	Property	β (degrees)
2213	1131	152	2.483	11	0
2267	155	6430	2.867	40	0
2377	1149	1151	3.072	22	0
2379	1149	1566	0.204	22	0
2380	1142	1522	1.984	22	0
2381	1141	1528	1.881	22	0
2382	1142	322	3.054	51	0
2383	1141	317	3.054	28	0
2384	1140	245	3.054	28	0
2385	1151	1152	6.322	22	0
2386	322	1470	1.633	48	0
2387	1152	1156	1.269	22	0
2389	1156	1577	2.598	27	0
2392	1156	6151	7.052	22	0
2393	259	6152	2.880	28	0
2394	300	1132	2.450	28	0
2395	301	1133	2.450	28	0
2396	302	1134	2.450	28	0
2397	303	1135	2.450	28	0
2398	304	1136	2.450	28	0
2399	271	1138	3.000	28	0
2400	1150	1137	1.610	22	0
2401	1137	1383	2.167	22	0
2402	1132	1385	1.950	22	0
2403	1133	1390	1.950	22	0
2404	1134	1395	1.950	22	0
2405	1135	1400	1.950	22	0
2406	1136	1405	2.060	22	0
2407	1152	1559	1.955	38	0
2408	1143	1478	1.984	22	0
2409	1144	1484	1.972	22	0
2410	1145	1487	1.970	22	0
2411	1146	323	1.250	51	0
2412	1145	321	1.250	28	0
2413	1144	320	1.250	28	0
2414	1143	319	1.250	28	0
2415	1157	1158	1.329	22	0
2416	1158	1163	6.543	22	0
2417	323	1489	1.684	48	0
2419	271	6183	2.360	28	0
2420	6175	1138	4.207	22	0
2421	1163	6146	3.142	22	0
2422	1146	1556	1.682	22	0
2424	290	1283	1.682	38	0
2425	286	1495	2.031	51	0
2428	1140	1497	1.818	22	0
2430	1170	1500	2.456	22	0
2431	1165	1506	1.942	22	0
2432	1171	262	0.750	28	0
2434	1173	266	0.750	28	0
2435	1171	1579	1.950	30	0
2437	242	1164	2.352	28	0
2439	249	1166	2.349	28	0
2441	1166	1509	1.972	22	0

Beams Cont...

Beam	Node A	Node B	Length (m)	Property	β (degrees)
2442	1175	260	3.280	51	0
2443	1175	1512	1.800	22	0
2444	1181	6196	0.895	27	0
2445	1164	1518	1.881	22	0
2447	1177	1165	0.314	22	0
2448	1178	1521	0.590	22	0
2449	1179	1617	1.389	22	0
2451	1182	6186	0.670	27	0
2452	1183	1184	1.967	27	0
2453	1184	1185	1.967	27	0
2454	1185	1186	1.967	27	0
2455	1186	288	1.967	27	0
2456	1187	1188	1.973	27	0
2457	1188	1189	1.973	27	0
2458	1189	1190	1.973	27	0
2459	1190	1191	1.973	27	0
2460	1191	1192	1.973	27	0
2461	1192	289	1.973	27	0
2462	1193	1194	1.950	27	0
2463	1194	1195	1.950	27	0
2464	1195	1196	1.950	27	0
2465	1196	1197	1.950	27	0
2466	1197	264	1.950	27	0
2467	1198	1199	1.950	27	0
2468	1199	1200	1.950	27	0
2469	1200	1201	1.950	27	0
2470	1201	1202	1.950	27	0
2471	1202	262	1.950	27	0
2472	1203	1204	1.950	27	0
2473	1204	1205	1.950	27	0
2474	1205	1206	1.950	27	0
2475	1206	1207	1.950	27	0
2476	1207	266	1.950	27	0
2477	1208	1209	1.950	27	0
2478	1209	1210	1.950	27	0
2479	1210	1211	1.950	27	0
2480	1211	1212	1.950	27	0
2481	1212	268	1.950	27	0
2482	5720	295	1.907	27	0
2484	1227	5726	0.730	27	0
2485	1228	287	1.993	27	0
2486	1229	1228	1.993	27	0
2497	1273	256	1.284	27	0
2498	1274	5374	0.900	27	0
2499	1275	1274	1.975	27	0
2500	1276	257	2.037	27	0
2501	1277	1276	1.971	27	0
2502	1174	268	3.763	51	0
2503	1279	260	2.168	27	0
2504	1280	1279	2.168	27	0
2505	1289	1290	1.876	27	0
2506	1290	1291	1.876	27	0
2507	1291	244	1.876	27	0
2508	1295	268	3.842	44	0

Beams Cont...

Beam	Node A	Node B	Length (m)	Property	β (degrees)
2509	1299	1300	1.888	27	0
2510	1300	1301	1.888	27	0
2511	1301	1302	1.888	27	0
2512	1302	291	0.521	27	0
2513	1303	1304	1.815	48	0
2514	1304	1305	1.815	48	0
2515	1305	1306	1.815	48	0
2516	1306	246	1.942	48	0
2517	1317	291	2.646	51	0
2518	1318	1317	2.646	51	0
2519	1450	1181	6.100	12	0
2520	1449	1182	6.100	12	0
2521	1448	1183	6.100	12	0
2522	1447	1184	6.100	12	0
2523	1446	1185	6.100	12	0
2524	1445	1186	6.100	12	0
2525	1456	1187	6.100	12	0
2526	1455	1188	6.100	12	0
2527	1454	1189	6.100	12	0
2528	1453	1190	6.100	12	0
2529	1452	1191	6.100	12	0
2530	1451	1192	6.100	12	0
2531	1198	1418	6.750	12	0
2532	1199	1417	6.750	12	0
2533	1200	1416	6.750	12	0
2534	1201	1415	6.750	12	0
2535	1202	1414	6.750	12	0
2536	1193	1423	6.750	12	0
2537	1194	1422	6.750	12	0
2538	1195	1421	6.750	12	0
2539	1196	1420	6.750	12	0
2540	1197	1419	6.750	12	0
2541	1203	1428	6.750	12	0
2542	1204	1427	6.750	12	0
2543	1205	1426	6.750	12	0
2544	1206	1425	6.750	12	0
2545	1207	1424	6.750	12	0
2546	1208	1433	6.750	12	0
2547	1209	1432	6.750	12	0
2548	1210	1431	6.750	12	0
2549	1211	1430	6.750	12	0
2550	1212	1429	6.750	12	0
2563	1439	5720	5.629	12	0
2564	1438	295	5.629	12	0
2565	1437	1227	5.619	12	0
2566	1436	1226	5.610	12	0
2567	1435	1229	5.730	12	0
2568	1434	1228	5.915	12	0
2569	5720	1512	4.611	12	0
2573	1229	1520	4.516	12	0
2574	1228	1519	4.332	12	0
2575	1522	1439	3.054	12	0
2576	1523	1438	3.054	12	0
2577	1524	1437	3.054	12	0

Beams Cont...

Beam	Node A	Node B	Length (m)	Property	β (degrees)
2578	1525	1436	3.054	12	0
2579	1526	1435	3.054	12	0
2580	1527	1434	3.054	12	0
2597	1188	1508	4.137	12	0
2598	1189	1539	4.133	12	0
2599	1190	1540	4.129	12	0
2600	1191	1541	4.126	12	0
2601	1192	1542	4.122	12	0
2610	1181	1506	4.182	12	0
2611	1182	1505	4.176	12	0
2612	1183	1504	4.170	12	0
2613	1187	1509	4.141	12	0
2614	1462	1275	5.977	12	0
2615	1461	1274	5.854	12	0
2616	1460	1273	5.732	12	0
2617	1459	1277	5.652	12	0
2618	1458	1276	5.651	12	0
2619	1457	257	5.651	12	0
2623	1533	1459	1.250	12	0
2624	1535	1458	1.250	12	0
2625	1537	1457	1.250	12	0
2636	257	6142	5.431	12	0
2637	1276	6143	5.975	12	0
2638	1260	6144	4.271	12	0
2639	1273	1295	4.285	12	0
2640	1274	268	7.425	12	0
2641	1275	1174	4.252	12	0
2642	1279	6153	6.683	12	0
2645	1489	1283	6.100	12	0
2646	5465	5498	1.950	51	0
2649	1469	1287	6.110	12	0
2650	1470	1288	6.105	12	0
2653	1528	1442	3.054	12	0
2654	1529	1441	3.054	12	0
2655	1530	1440	3.054	12	0
2656	1442	1289	6.026	12	0
2657	1441	1290	5.951	12	0
2658	1440	1291	5.877	12	0
2659	1295	6145	2.708	12	0
2660	1289	1518	4.159	12	0
2661	1290	1517	4.170	12	0
2663	244	1515	4.191	28	0
2664	1303	1299	6.231	12	0
2665	1304	1300	6.660	12	0
2666	1305	1301	7.089	12	0
2667	1306	1302	7.517	12	0
2670	1531	1305	3.144	12	0
2671	1532	1306	3.175	12	0
2672	1299	1514	3.671	12	0
2673	1300	1513	3.150	12	0
2674	1301	1507	2.105	12	0
2677	1291	1516	4.180	12	0
2678	1443	1317	4.004	12	0
2679	1444	1318	1.904	12	0

Beams Cont...

Beam	Node A	Node B	Length (m)	Property	β (degrees)
2683	1280	6154	6.617	12	0
2688	1383	1384	2.167	22	0
2689	1384	1132	2.167	22	0
2690	1385	1386	1.950	22	0
2691	1386	1387	1.950	22	0
2692	1387	1388	1.950	22	0
2693	1388	1389	1.950	22	0
2694	1389	1133	1.950	22	0
2695	1390	1391	1.950	22	0
2696	1391	1392	1.950	22	0
2697	1392	1393	1.950	22	0
2698	1393	1394	1.950	22	0
2699	1394	1134	1.950	22	0
2700	1395	1396	1.950	22	0
2701	1396	1397	1.950	22	0
2702	1397	1398	1.950	22	0
2703	1398	1399	1.950	22	0
2704	1399	1135	1.950	22	0
2705	1400	1401	1.950	22	0
2706	1401	1402	1.950	22	0
2707	1402	1403	1.950	22	0
2708	1403	1404	1.950	22	0
2709	1404	1136	1.950	22	0
2710	1405	1406	2.060	22	0
2711	1406	1407	2.060	22	0
2712	1407	1408	2.060	22	0
2713	1408	1138	2.060	22	0
2714	1409	1173	1.950	30	0
2715	1410	1409	1.950	30	0
2716	1411	1410	1.950	30	0
2717	1412	1411	1.950	30	0
2719	1413	1203	0.750	12	0
2720	1412	1204	0.750	12	0
2721	1411	1205	0.750	12	0
2722	1410	1206	0.750	12	0
2723	1409	1207	0.750	12	0
2724	1414	301	1.950	28	0
2725	1415	1414	1.950	28	0
2726	1416	1415	1.950	28	0
2727	1417	1416	1.950	28	0
2728	1418	1417	1.950	28	0
2729	1419	302	1.950	28	0
2730	1420	1419	1.950	28	0
2731	1421	1420	1.950	28	0
2732	1422	1421	1.950	28	0
2733	1423	1422	1.950	28	0
2734	1424	303	1.950	28	0
2735	1425	1424	1.950	28	0
2736	1426	1425	1.950	28	0
2737	1427	1426	1.950	28	0
2738	1428	1427	1.950	28	0
2739	1429	304	1.950	28	0
2740	1430	1429	1.950	28	0
2741	1431	1430	1.950	28	0

Beams Cont...

Beam	Node A	Node B	Length (m)	Property	β (degrees)
2742	1432	1431	1.950	28	0
2743	1433	1432	1.950	28	0
2744	1434	317	1.983	48	0
2745	1435	1434	1.983	48	0
2746	1436	1435	1.983	48	0
2747	1437	1436	1.983	48	0
2748	1438	1437	1.983	48	0
2749	1439	1438	1.983	48	0
2750	1440	245	1.879	48	0
2751	1441	1440	1.879	48	0
2752	1442	1441	1.879	48	0
2753	1443	319	1.963	48	0
2754	1444	1443	1.984	48	0
2755	1445	320	1.955	48	0
2756	1446	1445	1.955	48	0
2757	1447	1446	1.955	48	0
2758	1448	1447	1.955	48	0
2759	1449	1448	1.955	48	0
2760	1450	1449	1.955	48	0
2761	1451	321	1.972	48	0
2762	1452	1451	1.973	48	0
2763	1453	1452	1.973	48	0
2764	1454	1453	1.973	48	0
2765	1455	1454	1.973	48	0
2766	1456	1455	1.973	48	0
2767	1457	323	1.972	48	0
2768	1458	1457	1.971	48	0
2769	1459	1458	1.971	48	0
2770	1460	1459	1.971	48	0
2771	1461	1460	1.971	48	0
2772	1462	1461	1.971	48	0
2773	6179	271	2.052	28	0
2774	6178	6179	2.069	28	0
2775	6177	6178	2.067	28	0
2776	6176	6177	2.066	28	0
2777	6153	300	2.167	28	0
2778	6154	6153	2.167	28	0
2779	1469	1561	1.935	48	0
2780	1470	1469	1.633	48	0
2781	1288	286	1.637	38	0
2782	1287	1288	1.633	38	0
2783	1473	1144	1.954	22	0
2784	1474	1473	1.954	22	0
2785	1475	1474	1.954	22	0
2786	1476	1475	1.954	22	0
2787	1477	1476	1.954	22	0
2788	1478	1477	1.954	22	0
2789	1479	1145	1.974	22	0
2790	1480	1479	1.973	22	0
2791	1481	1480	1.973	22	0
2792	1482	1481	1.973	22	0
2793	1483	1482	1.973	22	0
2794	1484	1483	1.973	22	0
2797	1487	1486	1.971	22	0

Beams Cont...

Beam	Node A	Node B	Length (m)	Property	β (degrees)
2799	1489	5465	2.017	48	0
2803	1283	5479	2.017	38	0
2804	1494	258	2.371	51	0
2805	1495	1494	2.141	51	0
2806	1496	1531	1.812	22	0
2807	1497	1496	1.814	22	0
2808	1498	1143	1.928	22	0
2809	1499	1498	1.958	22	0
2810	1500	1499	1.908	22	0
2817	1507	1165	1.467	28	0
2818	1508	1539	1.973	22	0
2819	1509	1508	1.973	22	0
2820	1510	1178	1.393	22	0
2821	1511	1510	2.013	22	0
2822	1512	1511	1.954	22	0
2823	1513	1177	0.423	22	0
2824	1514	1513	1.865	22	0
2825	1515	1514	1.760	22	0
2826	1516	1515	1.856	22	0
2827	1517	1516	1.875	22	0
2828	1518	1517	1.875	22	0
2829	1519	1164	1.978	22	0
2830	1520	1519	1.983	22	0
2831	1521	1520	1.983	22	0
2832	1418	1385	2.450	12	0
2833	1417	1386	2.450	12	0
2834	1416	1387	2.450	12	0
2835	1415	1388	2.450	12	0
2836	1414	1389	2.450	12	0
2837	1423	1390	2.450	12	0
2838	1422	1391	2.450	12	0
2839	1421	1392	2.450	12	0
2840	1420	1393	2.450	12	0
2841	1419	1394	2.450	12	0
2842	1428	1395	2.450	12	0
2843	1427	1396	2.450	12	0
2844	1426	1397	2.450	12	0
2845	1425	1398	2.450	12	0
2846	1424	1399	2.450	12	0
2847	1433	1400	2.450	12	0
2848	1432	1401	2.450	12	0
2849	1431	1402	2.450	12	0
2850	1430	1403	2.450	12	0
2851	1429	1404	2.450	12	0
2853	1478	1450	1.250	12	0
2855	1477	1449	1.250	12	0
2857	1476	1448	1.251	12	0
2859	1475	1447	1.250	12	0
2861	1474	1446	1.250	12	0
2863	1473	1445	1.251	12	0
2865	1484	1456	1.250	12	0
2867	1482	1454	1.250	12	0
2869	1481	1453	1.250	12	0
2871	1480	1452	1.250	12	0

Beams Cont...

Beam	Node A	Node B	Length (m)	Property	β (degrees)
2873	1479	1451	1.250	12	0
2875	1483	1455	1.250	12	0
2897	1487	1462	1.251	12	0
2899	1486	1461	1.250	12	0
2901	1485	1460	1.251	12	0
2905	6176	1405	2.560	12	0
2906	6177	1406	2.670	12	0
2907	6178	1407	2.780	12	0
2908	6179	1408	2.891	12	0
2914	286	1280	6.123	12	0
2915	1287	1494	2.589	12	0
2916	6213	1279	2.913	12	0
2917	1288	1495	1.261	12	0
2923	1497	1303	3.084	12	0
2924	1496	1304	3.115	12	0
2931	1499	1444	1.844	12	0
2933	1498	1443	1.546	12	0
2934	1500	246	2.117	12	0
2937	1283	6147	3.995	12	0
2939	5479	5531	1.800	51	0
2940	1522	1523	1.983	22	0
2941	1523	1524	1.983	22	0
2942	1524	1525	1.983	22	0
2943	1525	1526	1.983	22	0
2944	1526	1527	1.983	22	0
2945	1527	1141	1.981	22	0
2946	1528	1529	1.879	22	0
2947	1529	1530	1.879	22	0
2948	1530	1140	1.875	22	0
2949	1531	1532	1.815	22	0
2950	1532	1170	2.208	22	0
2960	1179	1547	4.425	26	0
2961	1178	1545	4.358	26	0
2962	1539	1540	1.973	22	0
2963	1540	1541	1.973	22	0
2964	1541	1542	1.973	22	0
2965	1542	1179	0.583	22	0
2966	1543	1544	1.633	22	0
2967	1544	1142	1.629	22	0
2968	1543	1469	3.044	12	0
2969	1544	1470	3.049	12	0
2970	1545	1546	1.646	26	0
2971	1511	1545	2.770	12	0
2972	1512	1198	4.319	12	0
2973	1546	1198	0.789	26	0
2974	1546	1552	1.706	30	0
2975	1547	1212	0.784	26	0
2976	1173	1548	1.950	30	0
2977	1548	1549	1.950	30	0
2978	1549	1550	1.950	30	0
2979	1550	1551	1.950	30	0
2980	1551	1547	1.723	30	0
2981	1548	1208	0.750	12	0
2982	1549	1209	0.750	12	0

Beams Cont...

Beam	Node A	Node B	Length (m)	Property	β (degrees)
2983	1550	1210	0.750	12	0
2984	1551	1211	0.750	12	0
2985	1552	1553	1.950	30	0
2986	1553	1554	1.950	30	0
2987	1554	1555	1.950	30	0
2988	1555	1171	1.950	30	0
2989	1552	1199	0.750	12	0
2990	1553	1200	0.750	12	0
2991	1554	1201	0.750	12	0
2992	1555	1202	0.750	12	0
2993	1556	5497	2.017	22	0
2995	1556	1489	1.248	12	0
2996	5497	5465	1.244	51	0
2999	1559	1560	1.955	38	0
3000	1560	1287	1.956	38	0
3001	1561	1562	1.955	48	0
3002	1561	1560	6.165	12	0
3003	1562	1151	0.784	48	0
3004	1562	1559	6.189	12	0
3005	1563	1564	1.973	48	0
3006	1564	1158	1.973	48	0
3007	1565	1163	1.723	38	0
3008	1563	1565	6.131	12	0
3009	1564	1163	6.148	12	0
3010	1566	1567	1.955	22	0
3011	1567	1543	1.926	22	0
3012	1566	1562	3.032	12	0
3013	1567	1561	3.038	12	0
3014	1568	1569	2.007	22	0
3015	1569	1157	2.386	22	0
3016	1568	1563	1.242	12	0
3017	1569	1564	1.239	12	0
3019	1565	6148	3.075	12	0
3023	6146	6175	4.371	22	0
3026	1560	258	4.014	12	0
3027	1577	258	2.449	27	0
3028	1559	1577	2.670	12	0
3029	6151	6152	2.435	28	0
3030	1577	6151	6.550	12	0
3031	1579	1580	1.950	30	0
3032	1580	1581	1.950	30	0
3033	1581	1582	1.950	30	0
3034	1582	6185	1.859	30	0
3035	6185	6218	2.041	30	0
3036	1579	1193	0.750	12	0
3037	1580	1194	0.750	12	0
3038	1581	1195	0.750	12	0
3039	1582	1196	0.750	12	0
3198	1184	1614	4.163	12	0
3199	1185	1615	4.157	12	0
3200	1186	1616	4.151	12	0
3203	1617	1174	1.660	22	0
3204	251	1617	2.322	12	0
3210	1504	1614	2.013	22	0

Beams Cont...

Beam	Node A	Node B	Length (m)	Property	β (degrees)
3212	1614	1615	1.976	22	0
3214	1615	1616	1.976	22	0
3216	1616	1166	1.976	22	0
3228	1486	1485	1.971	22	0
3230	1485	1533	1.971	22	0
3232	1533	1535	1.971	22	0
3234	1535	1537	1.971	22	0
3236	1537	1146	1.973	22	0
3260	1637	1507	0.882	28	0
3474	1666	1847	1.950	16	0
3475	1667	1852	1.950	16	0
3476	1668	1857	1.950	16	0
3477	1669	1862	1.950	16	0
3478	1649	1790	2.168	16	0
3479	1651	1753	1.950	16	0
3480	1652	1748	1.950	16	0
3481	1653	1758	1.950	16	0
3482	1654	1763	1.950	16	0
3484	1649	1650	3.670	33	0
3485	1651	1689	1.600	33	0
3486	1652	1690	1.600	16	0
3487	1653	1691	1.600	16	0
3488	1654	1692	1.600	16	0
3489	1655	1693	1.600	33	0
3490	1675	1677	1.950	33	0
3491	1638	6214	2.053	33	0
3492	1671	1678	1.950	16	0
3493	1641	1640	5.803	16	0
3494	1672	1679	1.950	16	0
3495	1673	1680	1.950	16	0
3496	1674	1681	1.950	16	0
3497	1658	1638	1.796	33	0
3498	1659	1639	1.796	16	0
3499	1660	1643	1.796	16	0
3500	1661	1644	1.796	16	0
3501	1676	1682	1.950	33	0
3502	1662	1645	1.796	62	0
3503	1659	1795	1.876	33	0
3504	1663	2002	1.839	16	0
3505	1640	1799	1.888	33	0
3506	1642	1809	2.400	16	0
3507	1675	1868	1.982	16	0
3508	1671	1871	1.879	16	0
3509	1641	1803	1.815	16	0
3510	1642	1873	1.799	16	0
3511	1672	1879	1.976	16	0
3512	1663	1736	1.967	33	0
3513	1660	1742	1.973	33	0
3514	1673	1885	1.974	16	0
3515	1661	1785	1.975	37	0
3516	1647	1787	0.690	37	0
3517	1644	1731	2.854	33	0
3518	1648	1662	1.958	37	0
3519	1647	1646	2.250	44	0

Beams Cont...

Beam	Node A	Node B	Length (m)	Property	β (degrees)
3522	1646	1798	2.490	44	0
3523	1658	5721	2.037	37	0
3524	1664	1770	2.060	37	0
3525	1769	1772	1.988	37	0
3527	1674	1891	1.972	16	0
3531	1677	1683	2.500	33	0
3532	1678	1684	2.500	16	0
3533	1679	1685	2.500	16	0
3534	1680	1686	2.500	16	0
3535	1681	1687	2.500	16	0
3536	1682	1688	2.500	33	0
3537	1683	1658	1.650	33	0
3538	1684	1659	1.650	16	0
3539	1685	1663	1.650	16	0
3540	1686	1660	1.650	16	0
3541	1687	1661	1.650	16	0
3542	1688	1662	1.650	33	0
3543	1689	1694	3.400	33	0
3544	1690	1695	3.400	16	0
3545	1691	1696	3.400	16	0
3546	1692	1697	3.400	16	0
3547	1693	1698	3.400	33	0
3548	1694	1666	1.750	33	0
3549	1695	1667	1.750	16	0
3550	1696	1668	1.750	16	0
3551	1697	1669	1.750	16	0
3552	1698	1670	1.750	33	0
3553	1713	1715	3.071	22	0
3554	1713	1983	0.204	22	0
3555	1708	1942	1.984	22	0
3556	1707	1948	1.881	22	0
3557	1708	1675	3.054	33	0
3558	1707	1671	3.054	16	0
3559	1706	1641	3.054	16	0
3560	1715	1716	6.322	22	0
3561	1675	1899	1.633	38	0
3562	1716	1718	1.269	22	0
3563	1718	1990	2.598	16	0
3566	1718	6205	7.052	22	0
3567	1650	6206	2.880	33	0
3568	1666	1699	2.450	33	0
3569	1667	1700	2.450	16	0
3570	1668	1701	2.450	16	0
3571	1669	1702	2.450	16	0
3572	1670	1703	2.450	33	0
3574	1714	1704	1.610	22	0
3575	1704	1812	2.167	22	0
3576	1699	1814	1.950	22	0
3577	1700	1819	1.950	22	0
3578	1701	1824	1.950	22	0
3579	1702	1829	1.950	22	0
3580	1703	1834	2.060	22	0
3581	1716	1976	1.955	36	0
3582	1709	1905	1.984	22	0

Beams Cont...

Beam	Node A	Node B	Length (m)	Property	β (degrees)
3583	1710	1911	1.972	22	0
3584	1711	1914	1.970	22	0
3585	1712	1676	1.250	33	0
3586	1711	1674	1.250	16	0
3587	1710	1673	1.250	16	0
3588	1709	1672	1.250	16	0
3589	1719	1720	1.330	22	0
3590	1720	1723	6.544	22	0
3591	1676	1916	1.684	16	0
3596	1712	1973	1.682	22	0
3597	1723	6252	3.120	22	0
3598	1662	1791	1.682	33	0
3599	1658	1918	2.031	33	0
3600	1706	1920	1.818	22	0
3601	1727	1923	2.456	22	0
3602	1725	1926	1.942	22	0
3603	1728	1652	0.750	16	0
3604	1729	1653	0.750	16	0
3605	1730	1654	0.750	16	0
3606	1728	1992	1.950	30	0
3608	1639	1724	2.352	16	0
3609	1643	1726	2.349	16	0
3611	1726	1929	1.972	22	0
3612	1732	1651	3.280	33	0
3613	1732	1932	1.800	22	0
3614	1736	1737	1.967	33	0
3615	1724	1938	1.881	22	0
3616	1733	1725	0.314	22	0
3617	1734	1941	0.590	22	0
3618	1735	2000	1.389	22	0
3619	1737	1738	1.967	33	0
3620	1738	1739	1.967	33	0
3621	1739	1740	1.967	33	0
3622	1740	1741	1.967	33	0
3623	1741	1660	1.967	33	0
3624	1742	1743	1.973	33	0
3625	1743	1744	1.973	33	0
3626	1744	1745	1.973	33	0
3627	1745	1746	1.973	33	0
3628	1746	1747	1.973	33	0
3629	1747	1661	1.973	33	0
3630	1748	1749	1.950	16	0
3631	1749	1750	1.950	16	0
3632	1750	1751	1.950	16	0
3633	1751	1752	1.950	16	0
3634	1752	1653	1.950	16	0
3635	1753	1754	1.950	16	0
3636	1754	1755	1.950	16	0
3637	1755	1756	1.950	16	0
3638	1756	1757	1.950	16	0
3639	1757	1652	1.950	16	0
3640	1758	1759	1.950	16	0
3641	1759	1760	1.950	16	0
3642	1760	1761	1.950	16	0

Beams Cont...

Beam	Node A	Node B	Length (m)	Property	β (degrees)
3643	1761	1762	1.950	16	0
3644	1762	1654	1.950	16	0
3645	1763	1764	1.950	16	0
3646	1764	1765	1.950	16	0
3647	1765	1766	1.950	16	0
3648	1766	1767	1.950	16	0
3649	1767	1655	1.950	16	0
3650	5721	1664	1.907	37	0
3652	1770	5727	0.730	37	0
3653	1771	1659	1.993	37	0
3654	1772	1771	1.993	37	0
3665	1783	1647	1.284	37	0
3666	1784	5375	0.900	37	0
3667	1785	1784	1.975	37	0
3668	1786	1648	2.037	37	0
3669	1787	1786	1.971	37	0
3670	1731	1655	3.763	33	0
3671	1789	1651	2.168	16	0
3672	1790	1789	2.168	16	0
3673	1795	1796	1.876	33	0
3674	1796	1797	1.876	33	0
3675	1797	1640	1.876	33	0
3676	1798	1655	3.842	44	0
3677	1799	1800	1.888	33	0
3678	1800	1801	1.888	33	0
3679	1801	1802	1.888	33	0
3680	1802	1663	0.521	33	0
3681	1803	1804	1.815	16	0
3682	1804	1805	1.815	16	0
3683	1805	1806	1.815	16	0
3684	1806	1642	1.942	16	0
3685	1808	1663	2.646	16	0
3686	1809	1808	2.646	16	0
3687	1879	1736	6.100	12	0
3688	1878	1737	6.100	12	0
3689	1877	1738	6.100	12	0
3690	1876	1739	6.100	12	0
3691	1875	1740	6.100	12	0
3692	1874	1741	6.100	12	0
3693	1885	1742	6.100	12	0
3694	1884	1743	6.100	12	0
3695	1883	1744	6.100	12	0
3696	1882	1745	6.100	12	0
3697	1881	1746	6.100	12	0
3698	1880	1747	6.100	12	0
3699	1753	1847	6.750	12	0
3700	1754	1846	6.750	12	0
3701	1755	1845	6.750	12	0
3702	1756	1844	6.750	12	0
3703	1757	1843	6.750	12	0
3704	1748	1852	6.750	12	0
3705	1749	1851	6.750	12	0
3706	1750	1850	6.750	12	0
3707	1751	1849	6.750	12	0

Beams Cont...

Beam	Node A	Node B	Length (m)	Property	β (degrees)
3708	1752	1848	6.750	12	0
3709	1758	1857	6.750	12	0
3710	1759	1856	6.750	12	0
3711	1760	1855	6.750	12	0
3712	1761	1854	6.750	12	0
3713	1762	1853	6.750	12	0
3714	1763	1862	6.750	12	0
3715	1764	1861	6.750	12	0
3716	1765	1860	6.750	12	0
3717	1766	1859	6.750	12	0
3718	1767	1858	6.750	12	0
3719	1868	5721	5.629	12	0
3720	1867	1664	5.629	12	0
3721	1866	1770	5.619	12	0
3722	1865	1769	5.610	12	0
3723	1864	1772	5.730	12	0
3724	1863	1771	5.915	12	0
3725	5721	1932	4.611	30	0
3729	1772	1940	4.516	30	0
3730	1771	1939	4.332	30	0
3731	1942	1868	3.054	12	0
3732	1943	1867	3.054	12	0
3733	1944	1866	3.054	12	0
3734	1945	1865	3.054	12	0
3735	1946	1864	3.054	12	0
3736	1947	1863	3.054	12	0
3737	1743	1928	4.137	30	0
3738	1744	1956	4.133	30	0
3739	1745	1957	4.129	30	0
3740	1746	1958	4.126	30	0
3741	1747	1959	4.122	30	0
3742	1736	1926	4.182	30	0
3743	1737	1925	4.176	30	0
3744	1738	1924	4.170	30	0
3745	1742	1929	4.141	30	0
3746	1891	1785	5.977	12	0
3747	1890	1784	5.854	12	0
3748	1889	1783	5.732	12	0
3749	1888	1787	5.652	12	0
3750	1887	1786	5.651	12	0
3751	1886	1648	5.651	12	0
3752	1953	1888	1.250	12	0
3753	1954	1887	1.250	12	0
3754	1955	1886	1.250	12	0
3765	1648	6257	5.536	30	0
3766	1786	6258	6.059	30	0
3767	1776	6259	4.271	30	0
3768	1783	1798	4.285	30	0
3769	1784	1655	7.425	30	0
3770	1785	1731	4.252	30	0
3771	1789	6207	6.683	12	0
3772	1916	1791	6.100	12	0
3773	5466	5500	1.950	16	0
3774	1898	1793	6.110	30	0

Beams Cont...

Beam	Node A	Node B	Length (m)	Property	β (degrees)
3775	1899	1794	6.105	12	0
3776	1948	1871	3.054	12	0
3777	1949	1870	3.054	12	0
3778	1950	1869	3.054	12	0
3779	1871	1795	6.026	12	0
3780	1870	1796	5.951	12	0
3781	1869	1797	5.877	12	0
3782	1798	6260	2.708	30	0
3783	1795	1938	4.159	30	0
3784	1796	1937	4.170	30	0
3786	1640	1935	4.191	16	0
3787	1803	1799	6.231	30	0
3788	1804	1800	6.660	30	0
3789	1805	1801	7.089	30	0
3790	1806	1802	7.517	30	0
3791	1951	1805	3.145	30	0
3792	1952	1806	3.175	30	0
3793	1799	1934	3.671	30	0
3794	1800	1933	3.150	30	0
3795	1801	1927	2.105	12	0
3796	1797	1936	4.180	30	0
3797	1872	1808	4.004	12	0
3798	1873	1809	1.904	12	0
3799	1790	6208	6.617	30	0
3800	1812	1813	2.167	22	0
3801	1813	1699	2.167	22	0
3802	1814	1815	1.950	22	0
3803	1815	1816	1.950	22	0
3804	1816	1817	1.950	22	0
3805	1817	1818	1.950	22	0
3806	1818	1700	1.950	22	0
3807	1819	1820	1.950	22	0
3808	1820	1821	1.950	22	0
3809	1821	1822	1.950	22	0
3810	1822	1823	1.950	22	0
3811	1823	1701	1.950	22	0
3812	1824	1825	1.950	22	0
3813	1825	1826	1.950	22	0
3814	1826	1827	1.950	22	0
3815	1827	1828	1.950	22	0
3816	1828	1702	1.950	22	0
3817	1829	1830	1.950	22	0
3818	1830	1831	1.950	22	0
3819	1831	1832	1.950	22	0
3820	1832	1833	1.950	22	0
3821	1833	1703	1.950	22	0
3822	1834	1835	2.060	22	0
3823	1835	1836	2.060	22	0
3824	1836	1705	4.120	22	0
3826	1838	1730	1.950	30	0
3827	1839	1838	1.950	30	0
3828	1840	1839	1.950	30	0
3829	1841	1840	1.950	30	0
3830	1842	1841	1.950	30	0

Beams Cont...

Beam	Node A	Node B	Length (m)	Property	β (degrees)
3831	1842	1758	0.750	12	0
3832	1841	1759	0.750	12	0
3833	1840	1760	0.750	12	0
3834	1839	1761	0.750	12	0
3835	1838	1762	0.750	12	0
3836	1843	1667	1.950	16	0
3837	1844	1843	1.950	16	0
3838	1845	1844	1.950	16	0
3839	1846	1845	1.950	16	0
3840	1847	1846	1.950	16	0
3841	1848	1668	1.950	16	0
3842	1849	1848	1.950	16	0
3843	1850	1849	1.950	16	0
3844	1851	1850	1.950	16	0
3845	1852	1851	1.950	16	0
3846	1853	1669	1.950	16	0
3847	1854	1853	1.950	16	0
3848	1855	1854	1.950	16	0
3849	1856	1855	1.950	16	0
3850	1857	1856	1.950	16	0
3851	1858	1670	1.950	16	0
3852	1859	1858	1.950	16	0
3853	1860	1859	1.950	16	0
3854	1861	1860	1.950	16	0
3855	1862	1861	1.950	16	0
3856	1863	1671	1.983	16	0
3857	1864	1863	1.983	16	0
3858	1865	1864	1.983	16	0
3859	1866	1865	1.983	16	0
3860	1867	1866	1.983	16	0
3861	1868	1867	1.983	16	0
3862	1869	1641	1.879	16	0
3863	1870	1869	1.879	16	0
3864	1871	1870	1.879	16	0
3865	1872	1672	1.963	16	0
3866	1873	1872	1.984	16	0
3867	1874	1673	1.955	16	0
3868	1875	1874	1.955	16	0
3869	1876	1875	1.955	16	0
3870	1877	1876	1.955	16	0
3871	1878	1877	1.955	16	0
3872	1879	1878	1.955	16	0
3873	1880	1674	1.972	16	0
3874	1881	1880	1.973	16	0
3875	1882	1881	1.973	16	0
3876	1883	1882	1.973	16	0
3877	1884	1883	1.973	16	0
3878	1885	1884	1.973	16	0
3879	1886	1676	1.972	16	0
3880	1887	1886	1.971	16	0
3881	1888	1887	1.971	16	0
3882	1889	1888	1.971	16	0
3883	1890	1889	1.971	16	0
3884	1891	1890	1.971	16	0

Beams Cont...

Beam	Node A	Node B	Length (m)	Property	β (degrees)
3891	1898	1978	1.935	38	0
3892	1899	1898	1.633	38	0
3893	1794	1658	1.637	36	0
3894	1793	1794	1.633	36	0
3895	1900	1710	1.954	22	0
3896	1901	1900	1.954	22	0
3897	1902	1901	1.954	22	0
3898	1903	1902	1.954	22	0
3899	1904	1903	1.954	22	0
3900	1905	1904	1.954	22	0
3901	1906	1711	1.974	22	0
3902	1907	1906	1.973	22	0
3903	1908	1907	1.973	22	0
3904	1909	1908	1.973	22	0
3905	1910	1909	1.973	22	0
3906	1911	1910	1.973	22	0
3907	1914	1913	1.971	22	0
3909	1916	5466	2.017	16	0
3913	1791	5480	2.017	33	0
3914	1917	1649	2.371	33	0
3915	1918	1917	2.141	33	0
3916	1919	1951	1.814	22	0
3917	1920	1919	1.814	22	0
3918	1921	1709	1.928	22	0
3919	1922	1921	1.958	22	0
3920	1923	1922	1.908	22	0
3922	1927	1725	1.467	16	0
3923	1928	1956	1.973	22	0
3924	1929	1928	1.973	22	0
3925	1930	1734	1.393	22	0
3926	1931	1930	2.013	22	0
3927	1932	1931	1.954	22	0
3928	1933	1733	0.423	22	0
3929	1934	1933	1.865	22	0
3930	1935	1934	1.760	22	0
3931	1936	1935	1.856	22	0
3932	1937	1936	1.875	22	0
3933	1938	1937	1.875	22	0
3934	1939	1724	1.978	22	0
3935	1940	1939	1.983	22	0
3936	1941	1940	1.983	22	0
3937	1847	1814	2.450	12	0
3938	1846	1815	2.450	12	0
3939	1845	1816	2.450	12	0
3940	1844	1817	2.450	12	0
3941	1843	1818	2.450	12	0
3942	1852	1819	2.450	12	0
3943	1851	1820	2.450	12	0
3944	1850	1821	2.450	12	0
3945	1849	1822	2.450	12	0
3946	1848	1823	2.450	12	0
3947	1857	1824	2.450	12	0
3948	1856	1825	2.450	12	0
3949	1855	1826	2.450	12	0

Beams Cont...

Beam	Node A	Node B	Length (m)	Property	β (degrees)
3950	1854	1827	2.450	12	0
3951	1853	1828	2.450	12	0
3952	1862	1829	2.450	12	0
3953	1861	1830	2.450	12	0
3954	1860	1831	2.450	12	0
3955	1859	1832	2.450	12	0
3956	1858	1833	2.450	12	0
3957	1905	1879	1.250	12	0
3958	1904	1878	1.250	12	0
3959	1903	1877	1.251	12	0
3960	1902	1876	1.250	12	0
3961	1901	1875	1.250	12	0
3962	1900	1874	1.251	12	0
3963	1911	1885	1.250	12	0
3964	1909	1883	1.250	12	0
3965	1908	1882	1.250	12	0
3966	1907	1881	1.250	12	0
3967	1906	1880	1.250	12	0
3968	1910	1884	1.250	12	0
3969	1914	1891	1.251	12	0
3970	1913	1890	1.250	12	0
3971	1912	1889	1.251	12	0
3977	1658	1790	6.123	30	0
3978	1793	1917	2.589	30	0
3979	6214	1789	2.913	30	0
3980	1794	1918	1.261	12	0
3981	1920	1803	3.084	30	0
3982	1919	1804	3.115	30	0
3983	1922	1873	1.844	12	0
3984	1921	1872	1.546	12	0
3985	1923	1642	2.117	12	0
3987	1791	6253	4.114	30	0
3988	5480	5534	1.800	16	0
3989	1942	1943	1.983	22	0
3990	1943	1944	1.983	22	0
3991	1944	1945	1.983	22	0
3992	1945	1946	1.983	22	0
3993	1946	1947	1.983	22	0
3994	1947	1707	1.981	22	0
3995	1948	1949	1.879	22	0
3996	1949	1950	1.879	22	0
3997	1950	1706	1.875	22	0
3998	1951	1952	1.814	22	0
3999	1952	1727	2.208	22	0
4003	1735	1964	4.425	26	0
4004	1734	1962	4.358	26	0
4005	1956	1957	1.973	22	0
4006	1957	1958	1.973	22	0
4007	1958	1959	1.973	22	0
4008	1959	1735	0.583	22	0
4009	1960	1961	1.633	22	0
4010	1961	1708	1.629	22	0
4011	1960	1898	3.044	30	0
4012	1961	1899	3.049	12	0

Beams Cont...

Beam	Node A	Node B	Length (m)	Property	β (degrees)
4013	1962	1963	1.646	26	0
4014	1931	1962	2.770	30	0
4015	1932	1753	4.319	30	0
4016	1963	1753	0.789	26	0
4017	1963	1969	1.706	30	0
4018	1964	1767	0.784	26	0
4019	1730	1965	1.950	30	0
4020	1965	1966	1.950	30	0
4021	1966	1967	1.950	30	0
4022	1967	1968	1.950	30	0
4023	1968	1964	1.723	30	0
4024	1965	1763	0.750	12	0
4025	1966	1764	0.750	12	0
4026	1967	1765	0.750	12	0
4027	1968	1766	0.750	12	0
4028	1969	1970	1.950	30	0
4029	1970	1971	1.950	30	0
4030	1971	1972	1.950	30	0
4031	1972	1728	1.950	30	0
4032	1969	1754	0.750	12	0
4033	1970	1755	0.750	12	0
4034	1971	1756	0.750	12	0
4035	1972	1757	0.750	12	0
4036	1973	5499	2.017	22	0
4038	1973	1916	1.248	12	0
4039	5499	5466	1.244	16	0
4042	1976	1977	1.955	36	0
4043	1977	1793	1.956	36	0
4044	1978	1979	1.955	38	0
4045	1978	1977	6.165	30	0
4046	1979	1715	0.784	38	0
4047	1979	1976	6.189	12	0
4048	1980	1981	1.973	16	0
4049	1981	1720	1.973	16	0
4050	1982	1723	1.723	33	0
4051	1980	1982	6.131	30	0
4052	1981	1723	6.148	12	0
4053	1983	1984	1.955	22	0
4054	1984	1960	1.926	22	0
4055	1983	1979	3.032	12	0
4056	1984	1978	3.038	30	0
4057	1985	1986	2.007	22	0
4058	1986	1719	2.388	22	0
4059	1985	1980	1.242	12	0
4060	1986	1981	1.239	12	0
4062	1982	6262	3.132	30	0
4068	1977	1649	4.014	30	0
4069	1990	1649	2.449	16	0
4070	1976	1990	2.670	30	0
4072	1990	6205	6.550	30	0
4073	1992	1993	1.950	30	0
4074	1993	1994	1.950	30	0
4075	1994	1995	1.950	30	0
4076	1995	1996	1.950	30	0

Beams Cont...

Beam	Node A	Node B	Length (m)	Property	β (degrees)
4077	1996	1729	1.950	30	0
4078	1992	1748	0.750	12	0
4079	1993	1749	0.750	12	0
4080	1994	1750	0.750	12	0
4081	1995	1751	0.750	12	0
4082	1996	1752	0.750	12	0
4083	1739	1997	4.163	30	0
4084	1740	1998	4.157	30	0
4085	1741	1999	4.151	30	0
4086	2000	1731	1.660	22	0
4087	1644	2000	2.322	12	0
4088	1926	1925	1.976	22	0
4089	1925	1924	1.939	22	0
4090	1924	1997	2.013	22	0
4091	1997	1998	1.976	22	0
4092	1998	1999	1.976	22	0
4093	1999	1726	1.976	22	0
4094	1913	1912	1.971	22	0
4095	1912	1953	1.971	22	0
4096	1953	1954	1.971	22	0
4097	1954	1955	1.971	22	0
4098	1955	1712	1.973	22	0
4099	2002	1927	0.882	16	0
4100	2031	2212	1.950	16	0
4101	2032	2217	1.950	16	0
4102	2033	2222	1.950	16	0
4103	2034	2227	1.950	16	0
4104	2014	2155	2.168	33	0
4105	2016	2118	1.950	33	0
4106	2017	2113	1.950	33	0
4107	2018	2123	1.950	33	0
4108	2019	2128	1.950	33	0
4110	2014	2015	3.670	33	0
4111	2016	2054	1.600	33	0
4112	2017	2055	1.600	16	0
4113	2018	2056	1.600	16	0
4114	2019	2057	1.600	16	0
4115	2020	2058	1.600	33	0
4116	2040	2042	1.950	33	0
4117	2003	6225	2.053	63	0
4118	2036	2043	1.950	16	0
4119	2006	2005	5.803	16	0
4120	2037	2044	1.950	16	0
4121	2038	2045	1.950	16	0
4122	2039	2046	1.950	16	0
4123	2023	2003	1.796	63	0
4124	2024	2004	1.796	16	0
4125	2025	2008	1.796	16	0
4126	2026	2009	1.796	16	0
4127	2041	2047	1.950	33	0
4128	2027	2010	1.796	62	0
4129	2024	2160	1.876	33	0
4130	2028	2367	1.839	16	0
4131	2005	2164	1.888	33	0

Beams Cont...

Beam	Node A	Node B	Length (m)	Property	β (degrees)
4132	2007	2174	2.400	16	0
4133	2040	2233	1.982	16	0
4134	2036	2236	1.879	16	0
4135	2006	2168	1.815	16	0
4136	2007	2238	1.799	16	0
4137	2037	2244	1.976	16	0
4138	2028	2101	1.967	33	0
4139	2025	2107	1.973	33	0
4140	2038	2250	1.974	16	0
4141	2026	2150	1.975	37	0
4142	2012	2152	0.690	37	0
4143	2009	2096	2.854	33	0
4144	2013	2027	1.958	37	0
4145	2012	2011	2.250	44	0
4148	2011	2163	2.490	44	0
4149	2023	2133	2.036	37	0
4150	2029	2135	2.060	37	0
4151	2134	2137	1.987	37	0
4153	2039	2256	1.972	16	0
4154	2035	6247	2.064	16	0
4155	6222	6224	2.167	16	0
4157	2042	2048	2.500	33	0
4158	2043	2049	2.500	16	0
4159	2044	2050	2.500	16	0
4160	2045	2051	2.500	16	0
4161	2046	2052	2.500	16	0
4162	2047	2053	2.500	33	0
4163	2048	2023	1.650	33	0
4164	2049	2024	1.650	16	0
4165	2050	2028	1.650	16	0
4166	2051	2025	1.650	16	0
4167	2052	2026	1.650	16	0
4168	2053	2027	1.650	33	0
4169	2054	2059	3.400	33	0
4170	2055	2060	3.400	16	0
4171	2056	2061	3.400	16	0
4172	2057	2062	3.400	16	0
4173	2058	2063	3.400	33	0
4174	2059	2031	1.750	33	0
4175	2060	2032	1.750	16	0
4176	2061	2033	1.750	16	0
4177	2062	2034	1.750	16	0
4178	2063	2035	1.750	33	0
4179	2078	2080	3.071	22	0
4180	2078	2348	0.204	22	0
4181	2073	2307	1.984	22	0
4182	2072	2313	1.881	22	0
4183	2073	2040	3.054	33	0
4184	2072	2036	3.054	16	0
4185	2071	2006	3.054	16	0
4186	2080	2081	6.322	22	0
4187	2040	2264	1.633	38	0
4188	2081	2083	1.269	22	0
4189	2083	2355	2.598	33	0

Beams Cont...

Beam	Node A	Node B	Length (m)	Property	β (degrees)
4192	2083	6221	7.052	22	0
4193	2015	6222	2.880	33	0
4194	2031	2064	2.450	33	0
4195	2032	2065	2.450	16	0
4196	2033	2066	2.450	16	0
4197	2034	2067	2.450	16	0
4198	2035	2068	2.450	33	0
4199	2022	2070	3.000	62	0
4200	2079	2069	1.610	22	0
4201	2069	2177	2.167	22	0
4202	2064	2179	1.950	22	0
4203	2065	2184	1.950	22	0
4204	2066	2189	1.950	22	0
4205	2067	2194	1.950	22	0
4206	2068	2199	2.060	22	0
4207	2081	2341	1.955	36	0
4208	2074	2270	1.984	22	0
4209	2075	2276	1.972	22	0
4210	2076	2279	1.970	22	0
4211	2077	2041	1.250	33	0
4212	2076	2039	1.250	16	0
4213	2075	2038	1.250	16	0
4214	2074	2037	1.250	16	0
4215	2084	2085	1.330	22	0
4216	2085	2088	6.544	22	0
4217	2041	2281	1.684	16	0
4219	2022	6251	1.906	16	0
4220	6246	2070	4.207	22	0
4222	2077	2338	1.682	22	0
4223	2088	6238	3.142	22	0
4224	2027	2156	1.682	33	0
4225	2023	2283	2.031	33	0
4226	2071	2285	1.818	22	0
4227	2092	2288	2.456	22	0
4228	2090	2291	1.942	22	0
4229	2093	2017	0.750	16	0
4230	2094	2018	0.750	16	0
4231	2095	2019	0.750	16	0
4232	2093	2357	1.950	30	0
4233	2094	2207	1.950	30	0
4234	2004	2089	2.352	16	0
4235	2008	2091	2.349	16	0
4237	2091	2294	1.972	22	0
4238	2097	2016	3.280	63	0
4239	2097	2297	1.800	22	0
4240	2101	2102	1.967	33	0
4241	2089	2303	1.881	22	0
4242	2098	2090	0.314	22	0
4243	2099	2306	0.590	22	0
4244	2100	2365	1.389	22	0
4245	2102	2103	1.967	33	0
4246	2103	2104	1.967	33	0
4247	2104	2105	1.967	33	0
4248	2105	2106	1.967	33	0

Beams Cont...

Beam	Node A	Node B	Length (m)	Property	β (degrees)
4249	2106	2025	1.967	33	0
4250	2107	2108	1.973	33	0
4251	2108	2109	1.973	33	0
4252	2109	2110	1.973	33	0
4253	2110	2111	1.973	33	0
4254	2111	2112	1.973	33	0
4255	2112	2026	1.973	33	0
4256	2113	2114	1.950	33	0
4257	2114	2115	1.950	33	0
4258	2115	2116	1.950	33	0
4259	2116	2117	1.950	33	0
4260	2117	2018	1.950	33	0
4261	2118	2119	1.950	33	0
4262	2119	2120	1.950	33	0
4263	2120	2121	1.950	33	0
4264	2121	2122	1.950	33	0
4265	2122	2017	1.950	33	0
4266	2123	2124	1.950	33	0
4267	2124	2125	1.950	33	0
4268	2125	2126	1.950	33	0
4269	2126	2127	1.950	33	0
4270	2127	2019	1.950	33	0
4271	2128	2129	1.950	33	0
4272	2129	2130	1.950	33	0
4273	2130	2131	1.950	33	0
4274	2131	2132	1.950	33	0
4275	2132	2020	1.950	33	0
4276	2133	2029	1.907	37	0
4278	2135	5728	0.730	37	0
4279	2136	2024	1.993	37	0
4280	2137	2136	1.993	37	0
4291	2148	2012	1.284	37	0
4292	2149	5376	0.900	37	0
4293	2150	2149	1.975	37	0
4294	2151	2013	2.037	37	0
4295	2152	2151	1.971	37	0
4296	2096	2020	3.763	33	0
4297	2154	2016	2.168	33	0
4298	2155	2154	2.168	33	0
4299	2160	2161	1.876	33	0
4300	2161	2162	1.876	33	0
4301	2162	2005	1.876	33	0
4302	2163	2020	3.842	44	0
4303	2164	2165	1.888	33	0
4304	2165	2166	1.888	33	0
4305	2166	2167	1.888	33	0
4306	2167	2028	0.521	33	0
4307	2168	2169	1.815	16	0
4308	2169	2170	1.815	16	0
4309	2170	2171	1.815	16	0
4310	2171	2007	1.942	16	0
4311	2173	2028	2.646	16	0
4312	2174	2173	2.646	16	0
4313	2244	2101	6.100	12	0

Beams Cont...

Beam	Node A	Node B	Length (m)	Property	β (degrees)
4314	2243	2102	6.100	12	0
4315	2242	2103	6.100	12	0
4316	2241	2104	6.100	12	0
4317	2240	2105	6.100	12	0
4318	2239	2106	6.100	12	0
4319	2250	2107	6.100	12	0
4320	2249	2108	6.100	12	0
4321	2248	2109	6.100	12	0
4322	2247	2110	6.100	12	0
4323	2246	2111	6.100	12	0
4324	2245	2112	6.100	12	0
4325	2118	2212	6.750	12	0
4326	2119	2211	6.750	12	0
4327	2120	2210	6.750	12	0
4328	2121	2209	6.750	12	0
4329	2122	2208	6.750	12	0
4330	2113	2217	6.750	12	0
4331	2114	2216	6.750	12	0
4332	2115	2215	6.750	12	0
4333	2116	2214	6.750	12	0
4334	2117	2213	6.750	12	0
4335	2123	2222	6.750	12	0
4336	2124	2221	6.750	12	0
4337	2125	2220	6.750	12	0
4338	2126	2219	6.750	12	0
4339	2127	2218	6.750	12	0
4340	2128	2227	6.750	12	0
4341	2129	2226	6.750	12	0
4342	2130	2225	6.750	12	0
4343	2131	2224	6.750	12	0
4344	2132	2223	6.750	12	0
4345	2233	2133	5.629	12	0
4346	2232	2029	5.629	12	0
4347	2231	2135	5.619	12	0
4348	2230	2134	5.610	12	0
4349	2229	2137	5.730	16	0
4350	2228	2136	5.915	12	0
4351	2133	2297	4.610	30	0
4355	2137	2305	4.516	16	0
4356	2136	2304	4.332	30	0
4357	2307	2233	3.054	12	0
4358	2308	2232	3.054	12	0
4359	2309	2231	3.054	12	0
4360	2310	2230	3.054	12	0
4361	2311	2229	3.054	16	0
4362	2312	2228	3.054	12	0
4363	2108	2293	4.137	30	0
4364	2109	2321	4.133	30	0
4365	2110	2322	4.129	30	0
4366	2111	2323	4.126	30	0
4367	2112	2324	4.122	30	0
4368	2101	2291	4.182	30	0
4369	2102	2290	4.176	30	0
4370	2103	2289	4.170	30	0

Beams Cont...

Beam	Node A	Node B	Length (m)	Property	β (degrees)
4371	2107	2294	4.141	30	0
4372	2256	2150	5.977	12	0
4373	2255	2149	5.854	12	0
4374	2254	2148	5.732	12	0
4375	2253	2152	5.652	12	0
4376	2252	2151	5.651	12	0
4377	2251	2013	5.651	12	0
4378	2318	2253	1.250	12	0
4379	2319	2252	1.250	12	0
4380	2320	2251	1.250	12	0
4391	2013	6239	5.431	30	0
4392	2151	6240	5.975	30	0
4393	2152	5722	2.231	30	0
4394	2148	2163	4.285	30	0
4395	2149	2020	7.425	30	0
4396	2150	2096	4.252	30	0
4397	2154	6223	6.683	12	0
4398	2281	2156	6.100	12	0
4399	5467	5508	1.950	16	0
4400	2263	2158	6.110	30	0
4401	2264	2159	6.105	12	0
4402	2313	2236	3.054	12	0
4403	2314	2235	3.054	12	0
4404	2315	2234	3.054	30	0
4405	2236	2160	6.026	12	0
4406	2235	2161	5.951	12	0
4407	2234	2162	5.877	12	0
4408	2163	6241	2.708	30	0
4409	2160	2303	4.159	30	0
4410	2161	2302	4.170	30	0
4412	2005	2300	4.191	16	0
4413	2168	2164	6.231	30	0
4414	2169	2165	6.660	30	0
4415	2170	2166	7.089	12	0
4416	2171	2167	7.517	12	0
4417	2316	2170	3.145	12	0
4418	2317	2171	3.175	12	0
4419	2164	2299	3.671	30	0
4420	2165	2298	3.150	30	0
4421	2166	2292	2.105	30	0
4422	2162	2301	4.180	30	0
4423	2237	2173	4.004	12	0
4424	2238	2174	1.904	12	0
4425	2155	6224	6.617	30	0
4426	2177	2178	2.167	22	0
4427	2178	2064	2.167	22	0
4428	2179	2180	1.950	22	0
4429	2180	2181	1.950	22	0
4430	2181	2182	1.950	22	0
4431	2182	2183	1.950	22	0
4432	2183	2065	1.950	22	0
4433	2184	2185	1.950	22	0
4434	2185	2186	1.950	22	0
4435	2186	2187	1.950	22	0

Beams Cont...

Beam	Node A	Node B	Length (m)	Property	β (degrees)
4436	2187	2188	1.950	22	0
4437	2188	2066	1.950	22	0
4438	2189	2190	1.950	22	0
4439	2190	2191	1.950	22	0
4440	2191	2192	1.950	22	0
4441	2192	2193	1.950	22	0
4442	2193	2067	1.950	22	0
4443	2194	2195	1.950	22	0
4444	2195	2196	1.950	22	0
4445	2196	2197	1.950	22	0
4446	2197	2198	1.950	22	0
4447	2198	2068	1.950	22	0
4448	2199	2200	2.060	22	0
4449	2200	2201	2.060	22	0
4450	2201	2202	2.060	22	0
4451	2202	2070	2.060	22	0
4452	2203	2095	1.950	30	0
4453	2204	2203	1.950	30	0
4454	2205	2204	1.950	30	0
4455	2206	2205	1.950	30	0
4456	2207	2206	1.950	30	0
4457	2207	2123	0.750	12	0
4458	2206	2124	0.750	12	0
4459	2205	2125	0.750	12	0
4460	2204	2126	0.750	12	0
4461	2203	2127	0.750	12	0
4462	2208	2032	1.950	16	0
4463	2209	2208	1.950	16	0
4464	2210	2209	1.950	16	0
4465	2211	2210	1.950	16	0
4466	2212	2211	1.950	16	0
4467	2213	2033	1.950	16	0
4468	2214	2213	1.950	16	0
4469	2215	2214	1.950	16	0
4470	2216	2215	1.950	16	0
4471	2217	2216	1.950	16	0
4472	2218	2034	1.950	16	0
4473	2219	2218	1.950	16	0
4474	2220	2219	1.950	16	0
4475	2221	2220	1.950	16	0
4476	2222	2221	1.950	16	0
4477	2223	2035	1.950	16	0
4478	2224	2223	1.950	16	0
4479	2225	2224	1.950	16	0
4480	2226	2225	1.950	16	0
4481	2227	2226	1.950	16	0
4482	2228	2036	1.983	16	0
4483	2229	2228	1.983	16	0
4484	2230	2229	1.983	16	0
4485	2231	2230	1.983	16	0
4486	2232	2231	1.983	16	0
4487	2233	2232	1.983	16	0
4488	2234	2006	1.879	16	0
4489	2235	2234	1.879	16	0

Beams Cont...

Beam	Node A	Node B	Length (m)	Property	β (degrees)
4490	2236	2235	1.879	16	0
4491	2237	2037	1.963	16	0
4492	2238	2237	1.984	16	0
4493	2239	2038	1.955	16	0
4494	2240	2239	1.955	16	0
4495	2241	2240	1.955	16	0
4496	2242	2241	1.955	16	0
4497	2243	2242	1.955	16	0
4498	2244	2243	1.955	16	0
4499	2245	2039	1.972	16	0
4500	2246	2245	1.973	16	0
4501	2247	2246	1.973	16	0
4502	2248	2247	1.973	16	0
4503	2249	2248	1.973	16	0
4504	2250	2249	1.973	16	0
4505	2251	2041	1.972	16	0
4506	2252	2251	1.971	16	0
4507	2253	2252	1.971	16	0
4508	2254	2253	1.971	16	0
4509	2255	2254	1.971	16	0
4510	2256	2255	1.971	16	0
4511	6250	2022	2.052	16	0
4512	6249	6250	2.069	16	0
4513	6248	6249	2.067	16	0
4514	6247	6248	2.066	16	0
4515	6223	2031	2.167	16	0
4516	6224	6223	2.167	16	0
4517	2263	2343	1.935	38	0
4518	2264	2263	1.633	38	0
4519	2159	2023	1.637	36	0
4520	2158	2159	1.633	36	0
4521	2265	2075	1.954	22	0
4522	2266	2265	1.954	22	0
4523	2267	2266	1.954	22	0
4524	2268	2267	1.954	22	0
4525	2269	2268	1.954	22	0
4526	2270	2269	1.954	22	0
4527	2271	2076	1.974	22	0
4528	2272	2271	1.973	22	0
4529	2273	2272	1.973	22	0
4530	2274	2273	1.973	22	0
4531	2275	2274	1.973	22	0
4532	2276	2275	1.973	22	0
4533	2279	2278	1.971	22	0
4535	2281	5467	2.017	16	0
4539	2156	5481	2.017	33	0
4540	2282	2014	2.371	33	0
4541	2283	2282	2.141	33	0
4542	2284	2316	1.814	22	0
4543	2285	2284	1.814	22	0
4544	2286	2074	1.928	22	0
4545	2287	2286	1.958	22	0
4546	2288	2287	1.908	22	0
4548	2292	2090	1.467	16	0

Beams Cont...

Beam	Node A	Node B	Length (m)	Property	β (degrees)
4549	2293	2321	1.973	22	0
4550	2294	2293	1.973	22	0
4551	2295	2099	1.393	22	0
4552	2296	2295	2.013	22	0
4553	2297	2296	1.954	22	0
4554	2298	2098	0.423	22	0
4555	2299	2298	1.865	22	0
4556	2300	2299	1.760	22	0
4557	2301	2300	1.856	22	0
4558	2302	2301	1.875	22	0
4559	2303	2302	1.875	22	0
4560	2304	2089	1.978	22	0
4561	2305	2304	1.983	22	0
4562	2306	2305	1.983	22	0
4563	2212	2179	2.450	12	0
4564	2211	2180	2.450	12	0
4565	2210	2181	2.450	12	0
4566	2209	2182	2.450	12	0
4567	2208	2183	2.450	12	0
4568	2217	2184	2.450	12	0
4569	2216	2185	2.450	12	0
4570	2215	2186	2.450	12	0
4571	2214	2187	2.450	12	0
4572	2213	2188	2.450	12	0
4573	2222	2189	2.450	12	0
4574	2221	2190	2.450	12	0
4575	2220	2191	2.450	12	0
4576	2219	2192	2.450	12	0
4577	2218	2193	2.450	12	0
4578	2227	2194	2.450	12	0
4579	2226	2195	2.450	12	0
4580	2225	2196	2.450	12	0
4581	2224	2197	2.450	12	0
4582	2223	2198	2.450	12	0
4583	2270	2244	1.250	12	0
4584	2269	2243	1.250	12	0
4585	2268	2242	1.251	12	0
4586	2267	2241	1.250	12	0
4587	2266	2240	1.250	12	0
4588	2265	2239	1.251	12	0
4589	2276	2250	1.250	12	0
4590	2274	2248	1.250	12	0
4591	2273	2247	1.250	12	0
4592	2272	2246	1.250	12	0
4593	2271	2245	1.250	12	0
4594	2275	2249	1.250	12	0
4595	2279	2256	1.251	12	0
4596	2278	2255	1.250	12	0
4597	2277	2254	1.251	12	0
4598	6247	2199	2.560	12	0
4599	6248	2200	2.670	30	0
4600	6249	2201	2.780	30	0
4601	6250	2202	2.891	30	0
4603	2023	2155	6.123	30	0

Beams Cont...

Beam	Node A	Node B	Length (m)	Property	β (degrees)
4604	2158	2282	2.589	30	0
4605	6225	2154	2.913	30	0
4606	2159	2283	1.261	12	0
4607	2285	2168	3.084	30	0
4608	2284	2169	3.115	30	0
4609	2287	2238	1.844	12	0
4610	2286	2237	1.546	12	0
4611	2288	2007	2.117	12	0
4613	2156	6242	3.995	30	0
4615	2307	2308	1.983	22	0
4616	2308	2309	1.983	22	0
4617	2309	2310	1.983	22	0
4618	2310	2311	1.983	22	0
4619	2311	2312	1.983	22	0
4620	2312	2072	1.981	22	0
4621	2313	2314	1.879	22	0
4622	2314	2315	1.879	22	0
4623	2315	2071	1.875	22	0
4624	2316	2317	1.814	22	0
4625	2317	2092	2.208	22	0
4629	2100	2329	4.425	26	0
4630	2099	2327	4.358	26	0
4631	2321	2322	1.973	22	0
4632	2322	2323	1.973	22	0
4633	2323	2324	1.973	22	0
4634	2324	2100	0.583	22	0
4635	2325	2326	1.633	22	0
4636	2326	2073	1.629	22	0
4637	2325	2263	3.044	30	0
4638	2326	2264	3.049	12	0
4639	2327	2328	1.646	26	0
4640	2296	2327	2.770	30	0
4641	2297	2118	4.319	30	0
4642	2328	2118	0.789	26	0
4643	2328	2334	1.706	30	0
4644	2329	2132	0.784	26	0
4645	2095	2330	1.950	30	0
4646	2330	2331	1.950	30	0
4647	2331	2332	1.950	30	0
4648	2332	2333	1.950	30	0
4649	2333	2329	1.723	30	0
4650	2330	2128	0.750	12	0
4651	2331	2129	0.750	12	0
4652	2332	2130	0.750	12	0
4653	2333	2131	0.750	12	0
4654	2334	2335	1.950	30	0
4655	2335	2336	1.950	30	0
4656	2336	2337	1.950	30	0
4657	2337	2093	1.950	30	0
4658	2334	2119	0.750	12	0
4659	2335	2120	0.750	12	0
4660	2336	2121	0.750	12	0
4661	2337	2122	0.750	12	0
4662	2338	5507	2.017	22	0

Beams Cont...

Beam	Node A	Node B	Length (m)	Property	β (degrees)
4664	2338	2281	1.248	12	0
4665	5507	5467	1.244	16	0
4666	6251	6246	0.875	16	0
4668	2341	2342	1.955	36	0
4669	2342	2158	1.956	36	0
4670	2343	2344	1.955	38	0
4671	2343	2342	6.165	30	0
4672	2344	2080	0.784	38	0
4673	2344	2341	6.189	12	0
4674	2345	2346	1.973	16	0
4675	2346	2085	1.973	16	0
4676	2347	2088	1.723	33	0
4677	2345	2347	6.131	30	0
4678	2346	2088	6.148	12	0
4679	2348	2349	1.955	22	0
4680	2349	2325	1.926	22	0
4681	2348	2344	3.032	12	0
4682	2349	2343	3.038	30	0
4683	2350	2351	2.007	22	0
4684	2351	2084	2.388	22	0
4685	2350	2345	1.242	12	0
4686	2351	2346	1.239	12	0
4688	2347	6243	3.075	30	0
4692	6238	6246	4.371	22	0
4694	2342	2014	4.014	30	0
4695	2355	2014	2.449	33	0
4696	2341	2355	2.670	30	0
4697	6221	6222	2.435	16	0
4698	2355	6221	6.550	30	0
4699	2357	2358	1.950	30	0
4700	2358	2359	1.950	30	0
4701	2359	2360	1.950	30	0
4702	2360	2361	1.950	30	0
4703	2361	2094	1.950	30	0
4704	2357	2113	0.750	12	0
4705	2358	2114	0.750	12	0
4706	2359	2115	0.750	12	0
4707	2360	2116	0.750	12	0
4708	2361	2117	0.750	12	0
4709	2104	2362	4.163	30	0
4710	2105	2363	4.157	30	0
4711	2106	2364	4.151	30	0
4712	2365	2096	1.660	22	0
4713	2009	2365	2.322	30	0
4714	2291	2290	1.976	22	0
4715	2290	2289	1.939	22	0
4716	2289	2362	2.013	22	0
4717	2362	2363	1.976	22	0
4718	2363	2364	1.976	22	0
4719	2364	2091	1.976	22	0
4720	2278	2277	1.971	22	0
4721	2277	2318	1.971	22	0
4722	2318	2319	1.971	22	0
4723	2319	2320	1.971	22	0

Beams Cont...

Beam	Node A	Node B	Length (m)	Property	β (degrees)
4724	2320	2077	1.973	22	0
4725	2367	2292	0.882	16	0
5354	6253	6261	2.086	16	0
5356	6262	6252	0.718	16	0
5364	2376	1836	2.499	30	0
5365	1670	2377	2.060	16	0
5366	2377	1834	2.440	12	0
5367	2378	1835	2.430	12	0
5368	2378	2376	1.436	16	0
5369	2377	2378	2.060	16	0
5384	271	2022	8.400	56	0
5387	259	1650	4.200	14	0
5388	1650	2015	4.200	14	0
5389	258	1649	4.200	56	0
5390	1649	2014	4.200	56	0
5391	246	1642	4.200	14	0
5392	1642	2007	4.200	14	0
5393	244	1640	4.200	14	0
5394	1640	2005	4.200	14	0
5395	245	1641	4.200	14	0
5396	1641	2006	4.200	14	0
5472	2423	2604	1.950	16	0
5473	2424	2609	1.950	16	0
5474	2425	2614	1.950	16	0
5475	2426	2619	1.950	16	0
5477	2408	2510	1.950	33	0
5478	2409	2505	1.950	33	0
5479	2410	2515	1.950	33	0
5480	2411	2520	1.950	33	0
5483	2408	2446	1.600	33	0
5484	2409	2447	1.600	16	0
5485	2410	2448	1.600	16	0
5486	2411	2449	1.600	16	0
5487	2412	2450	1.600	33	0
5488	2432	2434	1.950	33	0
5489	2395	2489	2.350	53	0
5490	2428	2435	1.950	16	0
5492	2429	2436	1.950	16	0
5493	2430	2437	1.950	16	0
5494	2431	2438	1.950	16	0
5495	2415	2395	1.796	53	0
5496	2416	2396	1.796	16	0
5497	2417	2400	1.796	16	0
5498	2418	2401	1.796	16	0
5499	2433	2439	1.950	33	0
5500	2419	2402	1.796	60	0
5501	2416	2552	1.876	33	0
5502	2420	2759	1.839	16	0
5505	2432	2625	1.982	16	0
5506	2428	2628	1.879	16	0
5509	2429	2636	1.976	16	0
5510	2420	2493	1.967	33	0
5511	2417	2499	1.973	33	0
5512	2430	2642	1.974	16	0

Beams Cont...

Beam	Node A	Node B	Length (m)	Property	β (degrees)
5513	2418	2542	1.975	37	0
5514	2404	2544	0.690	37	0
5515	2401	2488	2.854	33	0
5516	2405	2419	1.958	37	0
5517	2404	2403	2.250	44	0
5520	2403	2555	2.490	44	0
5521	2415	2525	2.036	37	0
5522	2421	2527	2.060	37	0
5523	2526	2529	1.987	37	0
5525	2431	2648	1.972	16	0
5526	2427	6167	2.064	16	0
5529	2434	2440	2.500	33	0
5530	2435	2441	2.500	16	0
5531	2436	2442	2.500	16	0
5532	2437	2443	2.500	16	0
5533	2438	2444	2.500	16	0
5534	2439	2445	2.500	33	0
5535	2440	2415	1.650	33	0
5536	2441	2416	1.650	16	0
5537	2442	2420	1.650	16	0
5538	2443	2417	1.650	16	0
5539	2444	2418	1.650	16	0
5540	2445	2419	1.650	33	0
5541	2446	2451	3.400	33	0
5542	2447	2452	3.400	16	0
5543	2448	2453	3.400	16	0
5544	2449	2454	3.400	16	0
5545	2450	2455	3.400	33	0
5546	2451	2423	1.750	33	0
5547	2452	2424	1.750	16	0
5548	2453	2425	1.750	16	0
5549	2454	2426	1.750	16	0
5550	2455	2427	1.750	33	0
5551	2470	2472	3.071	22	0
5552	2470	2740	0.204	22	0
5553	2465	2699	1.984	22	0
5554	2464	2705	1.881	22	0
5555	2465	2432	3.054	33	0
5556	2464	2428	3.054	16	0
5558	2472	2473	6.322	22	0
5559	2432	2656	1.633	38	0
5560	2473	2475	1.269	22	0
5566	2423	2456	2.450	33	0
5567	2424	2457	2.450	16	0
5568	2425	2458	2.450	16	0
5569	2426	2459	2.450	16	0
5570	2427	2460	2.450	33	0
5571	2414	2462	3.000	60	0
5574	2456	2571	1.950	22	0
5575	2457	2576	1.950	22	0
5576	2458	2581	1.950	22	0
5577	2459	2586	1.950	22	0
5578	2460	2591	2.060	22	0
5579	2473	2733	1.955	36	0

Beams Cont...

Beam	Node A	Node B	Length (m)	Property	β (degrees)
5580	2466	2662	1.984	22	0
5581	2467	2668	1.972	22	0
5582	2468	2671	1.970	22	0
5583	2469	2433	1.250	33	0
5584	2468	2431	1.250	16	0
5585	2467	2430	1.250	16	0
5586	2466	2429	1.250	16	0
5587	2476	2477	1.330	22	0
5588	2477	2480	6.544	22	0
5589	2433	2673	1.684	16	0
5592	6166	2462	4.207	22	0
5594	2469	2730	1.682	22	0
5595	2480	6159	3.142	22	0
5596	2419	2548	1.682	33	0
5600	2482	2683	1.942	22	0
5601	2485	2409	0.750	33	0
5602	2486	2410	0.750	33	0
5603	2487	2411	0.750	33	0
5604	2485	2749	1.950	30	0
5605	2486	2599	1.950	30	0
5606	2396	2481	2.352	16	0
5607	2400	2483	2.349	16	0
5609	2483	2686	1.972	22	0
5610	2489	2408	3.280	53	0
5611	2489	2689	1.800	22	0
5612	2493	2494	1.967	33	0
5613	2481	2695	1.881	22	0
5615	2491	2698	0.590	22	0
5616	2492	2757	1.389	22	0
5617	2494	2495	1.967	33	0
5618	2495	2496	1.967	33	0
5619	2496	2497	1.967	33	0
5620	2497	2498	1.967	33	0
5621	2498	2417	1.967	33	0
5622	2499	2500	1.973	33	0
5623	2500	2501	1.973	33	0
5624	2501	2502	1.973	33	0
5625	2502	2503	1.973	33	0
5626	2503	2504	1.973	33	0
5627	2504	2418	1.973	33	0
5628	2505	2506	1.950	33	0
5629	2506	2507	1.950	33	0
5630	2507	2508	1.950	33	0
5631	2508	2509	1.950	33	0
5632	2509	2410	1.950	33	0
5633	2510	2511	1.950	33	0
5634	2511	2512	1.950	33	0
5635	2512	2513	1.950	33	0
5636	2513	2514	1.950	33	0
5637	2514	2409	1.950	33	0
5638	2515	2516	1.950	33	0
5639	2516	2517	1.950	33	0
5640	2517	2518	1.950	33	0
5641	2518	2519	1.950	33	0

Beams Cont...

Beam	Node A	Node B	Length (m)	Property	β (degrees)
5642	2519	2411	1.950	33	0
5643	2520	2521	1.950	33	0
5644	2521	2522	1.950	33	0
5645	2522	2523	1.950	33	0
5646	2523	2524	1.950	33	0
5647	2524	2412	1.950	33	0
5648	2525	2421	1.907	37	0
5650	2527	5729	0.730	37	0
5651	2528	2416	1.993	37	0
5652	2529	2528	1.993	37	0
5663	2540	2404	1.284	37	0
5664	2541	5377	0.900	37	0
5665	2542	2541	1.975	37	0
5666	2543	2405	2.037	37	0
5667	2544	2543	1.971	37	0
5668	2488	2412	3.763	33	0
5671	2552	2553	1.876	33	0
5672	2553	2554	1.876	33	0
5673	2554	2397	1.876	33	0
5674	2555	2412	3.842	44	0
5685	2636	2493	6.100	30	0
5686	2635	2494	6.100	30	0
5687	2634	2495	6.100	30	0
5688	2633	2496	6.100	30	0
5689	2632	2497	6.100	30	0
5690	2631	2498	6.100	30	0
5691	2642	2499	6.100	30	0
5692	2641	2500	6.100	30	0
5693	2640	2501	6.100	30	0
5694	2639	2502	6.100	30	0
5695	2638	2503	6.100	16	0
5696	2637	2504	6.100	30	0
5697	2510	2604	6.750	12	0
5698	2511	2603	6.750	12	0
5699	2512	2602	6.750	12	0
5700	2513	2601	6.750	12	0
5701	2514	2600	6.750	12	0
5702	2505	2609	6.750	12	0
5703	2506	2608	6.750	12	0
5704	2507	2607	6.750	12	0
5705	2508	2606	6.750	12	0
5706	2509	2605	6.750	12	0
5707	2515	2614	6.750	12	0
5708	2516	2613	6.750	12	0
5709	2517	2612	6.750	12	0
5710	2518	2611	6.750	12	0
5711	2519	2610	6.750	12	0
5712	2520	2619	6.750	12	0
5713	2521	2618	6.750	12	0
5714	2522	2617	6.750	12	0
5715	2523	2616	6.750	12	0
5716	2524	2615	6.750	12	0
5717	2625	2525	5.629	12	0
5718	2624	2421	5.629	12	0

Beams Cont...

Beam	Node A	Node B	Length (m)	Property	β (degrees)
5719	2623	2527	5.619	12	0
5720	2622	2526	5.610	12	0
5721	2621	2529	5.730	12	0
5722	2620	2528	5.915	12	0
5723	2525	2689	4.610	30	0
5727	2529	2697	4.516	30	0
5728	2528	2696	4.332	30	0
5729	2699	2625	3.054	12	0
5730	2700	2624	3.054	12	0
5731	2701	2623	3.054	12	0
5732	2702	2622	3.054	12	0
5733	2703	2621	3.054	12	0
5734	2704	2620	3.054	12	0
5735	2500	2685	4.137	30	0
5736	2501	2713	4.133	30	0
5737	2502	2714	4.129	30	0
5738	2503	2715	4.126	16	0
5739	2504	2716	4.122	30	0
5740	2493	2683	4.182	30	0
5741	2494	2682	4.176	30	0
5742	2495	2681	4.170	30	0
5743	2499	2686	4.141	30	0
5744	2648	2542	5.977	12	0
5745	2647	2541	5.854	12	0
5746	2646	2540	5.732	12	0
5747	2645	2544	5.652	12	0
5748	2644	2543	5.651	12	0
5749	2643	2405	5.651	12	0
5750	2710	2645	1.250	12	0
5751	2711	2644	1.250	12	0
5752	2712	2643	1.250	12	0
5753	2542	2488	4.252	30	0
5763	2405	6155	5.431	30	0
5764	2543	6156	5.975	30	0
5765	2533	6157	4.271	30	0
5766	2540	2555	4.285	30	0
5767	2541	2412	7.425	30	0
5769	2801	2790	6.750	30	0
5770	2673	2548	6.100	12	0
5771	5468	5509	1.950	16	0
5772	2655	2550	6.110	30	0
5773	2656	2551	6.105	12	0
5774	2705	2628	3.054	12	0
5777	2628	2552	6.026	12	0
5778	2627	2553	5.951	12	0
5780	2555	5660	2.821	30	0
5781	2552	2695	4.159	30	0
5782	2553	2694	4.170	30	0
5784	2397	2692	4.191	30	0
5794	2554	2693	4.180	30	0
5799	2570	2456	2.167	22	0
5800	2571	2572	1.950	22	0
5801	2572	2573	1.950	22	0
5802	2573	2574	1.950	22	0

Beams Cont...

Beam	Node A	Node B	Length (m)	Property	β (degrees)
5803	2574	2575	1.950	22	0
5804	2575	2457	1.950	22	0
5805	2576	2577	1.950	22	0
5806	2577	2578	1.950	22	0
5807	2578	2579	1.950	22	0
5808	2579	2580	1.950	22	0
5809	2580	2458	1.950	22	0
5810	2581	2582	1.950	22	0
5811	2582	2583	1.950	22	0
5812	2583	2584	1.950	22	0
5813	2584	2585	1.950	22	0
5814	2585	2459	1.950	22	0
5815	2586	2587	1.950	22	0
5816	2587	2588	1.950	22	0
5817	2588	2589	1.950	22	0
5818	2589	2590	1.950	22	0
5819	2590	2460	1.950	22	0
5820	2591	2592	2.060	22	0
5821	2592	2593	2.060	22	0
5822	2593	2594	2.060	22	0
5823	2594	2462	2.060	22	0
5824	2595	2487	1.950	30	0
5825	2596	2595	1.950	30	0
5826	2597	2596	1.950	30	0
5827	2598	2597	1.950	30	0
5828	2599	2598	1.950	30	0
5829	2599	2515	0.750	12	0
5830	2598	2516	0.750	12	0
5831	2597	2517	0.750	12	0
5832	2596	2518	0.750	12	0
5833	2595	2519	0.750	12	0
5834	2600	2424	1.950	16	0
5835	2601	2600	1.950	16	0
5836	2602	2601	1.950	16	0
5837	2603	2602	1.950	16	0
5838	2604	2603	1.950	16	0
5839	2605	2425	1.950	16	0
5840	2606	2605	1.950	16	0
5841	2607	2606	1.950	16	0
5842	2608	2607	1.950	16	0
5843	2609	2608	1.950	16	0
5844	2610	2426	1.950	16	0
5845	2611	2610	1.950	16	0
5846	2612	2611	1.950	16	0
5847	2613	2612	1.950	16	0
5848	2614	2613	1.950	16	0
5849	2615	2427	1.950	16	0
5850	2616	2615	1.950	16	0
5851	2617	2616	1.950	16	0
5852	2618	2617	1.950	16	0
5853	2619	2618	1.950	16	0
5854	2620	2428	1.983	16	0
5855	2621	2620	1.983	16	0
5856	2622	2621	1.983	16	0

Beams Cont...

Beam	Node A	Node B	Length (m)	Property	β (degrees)
5857	2623	2622	1.983	16	0
5858	2624	2623	1.983	16	0
5859	2625	2624	1.983	16	0
5861	2627	2774	1.126	16	0
5862	2628	2627	1.879	16	0
5865	2631	2430	1.955	16	0
5866	2632	2631	1.955	16	0
5867	2633	2632	1.955	16	0
5868	2634	2633	1.955	16	0
5869	2635	2634	1.955	16	0
5870	2636	2635	1.955	16	0
5871	2637	2431	1.972	16	0
5872	2638	2637	1.973	16	0
5873	2639	2638	1.973	16	0
5874	2640	2639	1.973	16	0
5875	2641	2640	1.973	16	0
5876	2642	2641	1.973	16	0
5877	2643	2433	1.972	16	0
5878	2644	2643	1.971	16	0
5879	2645	2644	1.971	16	0
5880	2646	2645	1.971	16	0
5881	2647	2646	1.971	16	0
5882	2648	2647	1.971	16	0
5883	6170	2414	2.052	16	0
5884	6169	6170	2.069	16	0
5885	6168	6169	2.067	16	0
5886	6167	6168	2.066	16	0
5889	2655	2735	1.935	38	0
5890	2656	2655	1.633	38	0
5891	2551	2415	1.637	36	0
5892	2550	2551	1.633	36	0
5893	2657	2467	1.954	22	0
5894	2658	2657	1.954	22	0
5895	2659	2658	1.954	22	0
5896	2660	2659	1.954	22	0
5897	2661	2660	1.954	22	0
5898	2662	2661	1.954	22	0
5899	2663	2468	1.974	22	0
5900	2664	2663	1.973	22	0
5901	2665	2664	1.973	22	0
5902	2666	2665	1.973	22	0
5903	2667	2666	1.973	22	0
5904	2668	2667	1.973	22	0
5905	2671	2670	1.971	22	0
5907	2673	5468	2.017	16	0
5911	2548	5482	2.017	33	0
5920	2759	2482	2.349	16	0
5921	2685	2713	1.973	22	0
5922	2686	2685	1.973	22	0
5923	2687	2491	1.393	22	0
5924	2688	2687	2.013	22	0
5925	2689	2688	1.954	22	0
5929	2693	2692	1.856	22	0
5930	2694	2693	1.875	22	0

Beams Cont...

Beam	Node A	Node B	Length (m)	Property	β (degrees)
5931	2695	2694	1.875	22	0
5932	2696	2481	1.978	22	0
5933	2697	2696	1.983	22	0
5934	2698	2697	1.983	22	0
5935	2604	2571	2.450	30	0
5936	2603	2572	2.450	30	0
5937	2602	2573	2.450	30	0
5938	2601	2574	2.450	30	0
5939	2600	2575	2.450	30	0
5940	2609	2576	2.450	30	0
5941	2608	2577	2.450	30	0
5942	2607	2578	2.450	30	0
5943	2606	2579	2.450	30	0
5944	2605	2580	2.450	30	0
5945	2614	2581	2.450	30	0
5946	2613	2582	2.450	30	0
5947	2612	2583	2.450	30	0
5948	2611	2584	2.450	30	0
5949	2610	2585	2.450	30	0
5950	2619	2586	2.450	30	0
5951	2618	2587	2.450	30	0
5952	2617	2588	2.450	30	0
5953	2616	2589	2.450	30	0
5954	2615	2590	2.450	30	0
5955	2662	2636	1.250	12	0
5956	2661	2635	1.250	12	0
5957	2660	2634	1.251	12	0
5958	2659	2633	1.250	12	0
5959	2658	2632	1.250	12	0
5960	2657	2631	1.251	12	0
5961	2668	2642	1.250	12	0
5962	2666	2640	1.250	12	0
5963	2665	2639	1.250	16	0
5964	2664	2638	1.250	16	0
5965	2663	2637	1.250	12	0
5966	2667	2641	1.250	12	0
5967	2671	2648	1.251	12	0
5968	2670	2647	1.250	12	0
5969	2669	2646	1.251	12	0
5970	6167	2591	2.560	30	0
5971	6168	2592	2.670	30	0
5972	6169	2593	2.780	30	0
5973	6170	2594	2.891	30	0
5976	2550	2800	5.018	30	0
5978	2551	2801	6.216	30	0
5985	2548	6163	4.114	30	0
5986	5482	5540	1.800	16	0
5987	2699	2700	1.983	22	0
5988	2700	2701	1.983	22	0
5989	2701	2702	1.983	22	0
5990	2702	2703	1.983	22	0
5991	2703	2704	1.983	22	0
5992	2704	2464	1.981	22	0
6001	2492	2721	4.425	26	0

Beams Cont...

Beam	Node A	Node B	Length (m)	Property	β (degrees)
6002	2491	2719	4.358	26	0
6003	2713	2714	1.973	22	0
6004	2714	2715	1.973	22	0
6005	2715	2716	1.973	22	0
6006	2716	2492	0.583	22	0
6007	2717	2718	1.633	22	0
6008	2718	2465	1.629	22	0
6009	2717	2655	3.044	30	0
6010	2718	2656	3.049	12	0
6011	2719	2720	1.646	26	0
6012	2688	2719	2.770	30	0
6013	2689	2510	4.319	30	0
6014	2720	2510	0.789	26	0
6015	2720	2726	1.706	30	0
6016	2721	2524	0.784	26	0
6017	2487	2722	1.950	30	0
6018	2722	2723	1.950	30	0
6019	2723	2724	1.950	30	0
6020	2724	2725	1.950	30	0
6021	2725	2721	1.723	30	0
6022	2722	2520	0.750	12	0
6023	2723	2521	0.750	12	0
6024	2724	2522	0.750	12	0
6025	2725	2523	0.750	12	0
6026	2726	2727	1.950	30	0
6027	2727	2728	1.950	30	0
6028	2728	2729	1.950	30	0
6029	2729	2485	1.950	30	0
6030	2726	2511	0.750	12	0
6031	2727	2512	0.750	12	0
6032	2728	2513	0.750	12	0
6033	2729	2514	0.750	12	0
6034	2730	5501	2.017	22	0
6036	2730	2673	1.248	12	0
6037	5501	5468	1.244	16	0
6040	2733	2734	1.955	36	0
6041	2734	2550	1.956	36	0
6042	2735	2736	1.955	38	0
6043	2735	2734	6.165	30	0
6044	2736	2472	0.785	38	0
6045	2736	2733	6.189	12	0
6046	2737	2738	1.973	16	0
6047	2738	2477	1.973	16	0
6048	2739	2480	1.723	33	0
6049	2737	2739	6.131	30	0
6050	2738	2480	6.148	12	0
6051	2740	2741	1.955	22	0
6052	2741	2717	1.926	22	0
6053	2740	2736	3.032	12	0
6054	2741	2735	3.038	30	0
6055	2742	2743	2.007	22	0
6056	2743	2476	2.388	22	0
6057	2742	2737	1.242	12	0
6058	2743	2738	1.239	12	0

Beams Cont...

Beam	Node A	Node B	Length (m)	Property	β (degrees)
6060	2739	6161	3.075	30	0
6064	6159	6166	4.371	22	0
6071	2749	2750	1.950	30	0
6072	2750	2751	1.950	30	0
6073	2751	2752	1.950	30	0
6074	2752	2753	1.950	30	0
6075	2753	2486	1.950	30	0
6076	2749	2505	0.750	12	0
6077	2750	2506	0.750	12	0
6078	2751	2507	0.750	12	0
6079	2752	2508	0.750	12	0
6080	2753	2509	0.750	12	0
6081	2496	2754	4.163	30	0
6082	2497	2755	4.157	30	0
6083	2498	2756	4.151	30	0
6084	2757	2488	1.660	22	0
6085	2401	2757	2.322	30	0
6086	2683	2682	1.976	22	0
6087	2682	2681	1.939	22	0
6088	2681	2754	2.013	22	0
6089	2754	2755	1.976	22	0
6090	2755	2756	1.976	22	0
6091	2756	2483	1.976	22	0
6092	2670	2669	1.971	22	0
6093	2669	2710	1.971	22	0
6094	2710	2711	1.971	22	0
6095	2711	2712	1.971	22	0
6096	2712	2469	1.973	22	0
6102	2005	2397	4.200	14	0
6453	2769	2776	1.322	22	0
6455	2769	2783	2.271	22	0
6456	2705	2770	0.993	22	0
6457	2770	2775	1.628	22	0
6459	2397	2771	1.257	33	0
6460	2772	2397	1.911	12	0
6461	2773	2554	4.764	12	0
6462	2772	2771	2.286	22	0
6463	2773	2772	3.412	22	0
6465	2774	2773	1.367	22	0
6466	2775	2627	1.667	12	0
6467	2775	2774	2.047	22	0
6468	2771	2692	4.383	22	0
6469	2776	2781	4.094	22	0
6470	2777	2782	1.401	22	0
6471	2776	2778	1.843	16	0
6472	2777	2780	0.628	33	0
6473	2778	2779	1.843	16	0
6474	2779	2429	1.843	16	0
6475	2780	2420	1.798	33	0
6476	2779	2780	6.100	30	0
6477	2781	2777	2.729	22	0
6478	2778	2781	3.660	30	0
6479	2782	2482	3.436	22	0
6480	2780	2782	1.252	30	0

Beams Cont...

Beam	Node A	Node B	Length (m)	Property	β (degrees)
6481	2783	2784	1.841	22	0
6482	2784	2466	1.842	22	0
6483	2783	2778	1.250	12	0
6484	2784	2779	1.250	12	0
6508	2786	2798	1.423	16	0
6509	2733	2797	1.629	46	0
6510	2787	2795	2.264	22	0
6511	2786	2787	2.544	22	0
6513	2788	2786	3.765	22	0
6514	2797	2788	6.614	46	0
6515	2475	2797	2.686	30	0
6516	2790	2570	2.433	30	0
6517	2798	2795	2.418	30	0
6518	2790	2423	2.167	16	0
6522	2798	2790	1.967	16	0
6524	2795	2570	1.967	22	0
6526	2788	2798	3.471	30	0
6532	2801	2408	2.213	33	0
6533	2800	5664	1.700	33	0
6555	2829	2992	1.950	16	0
6556	2830	2997	1.950	16	0
6557	2831	3002	1.950	16	0
6558	2832	3007	1.950	16	0
6559	2814	2911	1.950	16	0
6560	2815	2906	1.950	16	0
6561	2816	2916	1.950	16	0
6562	2817	2921	1.950	16	0
6564	2814	2852	1.600	33	0
6565	2815	2853	1.600	16	0
6566	2816	2854	1.600	16	0
6567	2817	2855	1.600	16	0
6568	2818	2856	1.600	33	0
6569	2838	2840	1.950	33	0
6570	2805	2890	2.350	53	0
6571	2834	2841	1.950	16	0
6572	2835	2842	1.950	16	0
6573	2836	2843	1.950	16	0
6574	2837	2844	1.950	16	0
6575	2821	2805	1.796	53	0
6576	2822	2806	1.796	16	0
6577	2823	2808	1.796	16	0
6578	2824	2809	1.796	16	0
6579	2839	2845	1.950	16	0
6580	2825	2810	1.796	16	0
6581	2822	2951	1.876	33	0
6582	2826	3126	1.839	16	0
6583	2838	3013	1.982	16	0
6584	2834	3015	1.879	16	0
6585	2835	3021	1.976	16	0
6586	2826	2894	1.967	33	0
6587	2823	2900	1.973	33	0
6588	2836	3027	1.974	16	0
6589	2824	2943	1.975	66	0
6590	2812	2945	0.690	66	0

Beams Cont...

Beam	Node A	Node B	Length (m)	Property	β (degrees)
6591	2809	2889	2.854	33	0
6592	2813	2825	1.958	66	0
6593	2812	2811	2.250	44	0
6597	2821	2926	2.036	37	0
6598	2827	2928	2.060	37	0
6599	2927	2930	1.987	37	0
6600	2810	3192	3.050	16	0
6601	2837	3033	1.972	16	0
6604	2840	2846	2.500	33	0
6605	2841	2847	2.500	16	0
6606	2842	2848	2.500	16	0
6607	2843	2849	2.500	16	0
6608	2844	2850	2.500	16	0
6609	2845	2851	2.500	16	0
6610	2846	2821	1.650	33	0
6611	2847	2822	1.650	16	0
6612	2848	2826	1.650	16	0
6613	2849	2823	1.650	16	0
6614	2850	2824	1.650	16	0
6615	2851	2825	1.650	16	0
6616	2852	2857	3.400	33	0
6617	2853	2858	3.400	16	0
6618	2854	2859	3.400	16	0
6619	2855	2860	3.400	16	0
6620	2856	2861	3.400	33	0
6621	2857	2829	1.750	33	0
6622	2858	2830	1.750	16	0
6623	2859	2831	1.750	16	0
6624	2860	2832	1.750	16	0
6625	2861	2833	1.750	33	0
6626	2874	2875	3.071	22	0
6627	2874	3109	0.204	22	0
6628	2869	3072	1.984	22	0
6629	2868	3078	1.881	22	0
6630	2869	2838	3.054	33	0
6631	2868	2834	3.054	16	0
6632	2875	2876	6.322	22	0
6633	2838	3039	1.633	38	0
6634	2876	2877	1.269	22	0
6635	2829	2862	2.450	33	0
6636	2830	2863	2.450	16	0
6637	2831	2864	2.450	16	0
6638	2832	2865	2.450	16	0
6639	2833	2866	2.450	33	0
6641	2862	2959	1.950	22	0
6642	2863	2964	1.950	22	0
6643	2864	2969	1.950	22	0
6644	2865	2974	1.950	22	0
6645	2866	2979	2.060	22	0
6646	2876	3102	1.955	36	0
6647	2870	3045	1.984	22	0
6648	2871	3051	1.972	22	0
6649	2872	3054	1.970	22	0
6650	2873	2839	1.250	16	0

Beams Cont...

Beam	Node A	Node B	Length (m)	Property	β (degrees)
6651	2872	2837	1.250	16	0
6652	2871	2836	1.250	16	0
6653	2870	2835	1.250	16	0
6654	2878	2879	1.330	22	0
6655	2879	2882	6.544	22	0
6656	2839	3056	1.684	16	0
6661	2873	3099	1.682	22	0
6662	2882	3187	4.947	22	0
6663	2825	2947	1.682	33	0
6664	2884	3059	1.942	22	0
6665	2886	2815	0.750	16	0
6666	2887	2816	0.750	16	0
6667	2888	2817	0.750	16	0
6668	2886	3116	1.950	30	0
6669	2887	6234	0.924	30	0
6670	2806	2883	2.352	16	0
6671	2808	2885	2.349	16	0
6673	2885	3061	1.972	22	0
6674	2890	2814	3.280	53	0
6675	2890	3064	1.800	22	0
6676	2894	2895	1.967	33	0
6677	2883	3068	1.881	22	0
6678	2891	2884	0.314	22	0
6679	2892	3071	0.590	22	0
6680	2893	3124	1.389	22	0
6681	2895	2896	1.967	33	0
6682	2896	2897	1.967	33	0
6683	2897	2898	1.967	33	0
6684	2898	2899	1.967	33	0
6685	2899	2823	1.967	33	0
6686	2900	2901	1.973	33	0
6687	2901	2902	1.973	33	0
6688	2902	2903	1.973	33	0
6689	2903	2904	1.973	33	0
6690	2904	2905	1.973	33	0
6691	2905	2824	1.973	33	0
6692	2906	2907	1.950	16	0
6693	2907	2908	1.950	16	0
6694	2908	2909	1.950	16	0
6695	2909	2910	1.950	16	0
6696	2910	2816	1.950	16	0
6697	2911	2912	1.950	16	0
6698	2912	2913	1.950	16	0
6699	2913	2914	1.950	16	0
6700	2914	2915	1.950	16	0
6701	2915	2815	1.950	16	0
6702	2916	2917	1.950	16	0
6703	2917	2918	1.950	16	0
6704	2918	2919	1.950	16	0
6705	2919	2920	1.950	16	0
6706	2920	2817	1.950	16	0
6707	2921	2922	1.950	16	0
6708	2922	2923	1.950	16	0
6709	2923	2924	1.950	16	0

Beams Cont...

Beam	Node A	Node B	Length (m)	Property	β (degrees)
6710	2924	2925	1.950	16	0
6711	2925	2818	1.950	16	0
6712	2926	2827	1.907	37	0
6714	2928	5730	0.730	37	0
6715	2929	2822	1.993	37	0
6716	2930	2929	1.993	37	0
6727	2941	2812	1.284	66	0
6728	2942	5378	0.900	66	0
6729	2943	2942	1.975	66	0
6730	2944	2813	2.037	66	0
6731	2945	2944	1.971	66	0
6732	2889	2818	3.763	33	0
6733	2951	2952	1.876	33	0
6734	2952	2953	1.876	33	0
6736	2954	2818	3.842	44	0
6737	3021	2894	6.100	12	0
6738	3020	2895	6.100	12	0
6739	3019	2896	6.100	12	0
6740	3018	2897	6.100	12	0
6741	3017	2898	6.100	12	0
6742	3016	2899	6.100	12	0
6743	3027	2900	6.100	12	0
6744	3026	2901	6.100	12	0
6745	3025	2902	6.100	12	0
6746	3024	2903	6.100	12	0
6747	3023	2904	6.100	12	0
6748	3022	2905	6.100	12	0
6749	2911	2992	6.750	12	0
6750	2912	2991	6.750	12	0
6751	2913	2990	6.750	12	0
6752	2914	2989	6.750	12	0
6753	2915	2988	6.750	12	0
6754	2906	2997	6.750	12	0
6755	2907	2996	6.750	12	0
6756	2908	2995	6.750	12	0
6757	2909	2994	6.750	12	0
6758	2910	2993	6.750	12	0
6759	2916	3002	6.750	12	0
6760	2917	3001	6.750	12	0
6761	2918	3000	6.750	12	0
6762	2919	2999	6.750	12	0
6763	2920	2998	6.750	12	0
6764	2921	3007	6.750	12	0
6765	2922	3006	6.750	12	0
6766	2923	3005	6.750	12	0
6767	2924	3004	6.750	12	0
6768	2925	3003	6.750	12	0
6769	3013	2926	5.629	12	0
6770	3012	2827	5.629	12	0
6771	3011	2928	5.619	12	0
6772	3010	2927	5.610	12	0
6773	3009	2930	5.730	12	0
6774	3008	2929	5.915	12	0
6775	2926	3064	4.610	30	0

Beams Cont...

Beam	Node A	Node B	Length (m)	Property	β (degrees)
6779	2930	3070	4.516	30	0
6780	2929	3069	4.332	30	0
6781	3072	3013	3.054	12	0
6782	3073	3012	3.054	12	0
6783	3074	3011	3.054	12	0
6784	3075	3010	3.054	12	0
6785	3076	3009	3.054	12	0
6786	3077	3008	3.054	12	0
6787	2901	3060	4.137	30	0
6788	2902	3082	4.133	30	0
6789	2903	3083	4.129	30	0
6790	2904	3084	4.126	30	0
6791	2905	3085	4.122	30	0
6792	2894	3059	4.182	30	0
6793	2895	3058	4.176	30	0
6794	2896	3057	4.170	30	0
6795	2900	3061	4.141	30	0
6796	3033	2943	5.977	12	0
6797	3032	2942	5.854	12	0
6798	3031	2941	5.732	12	0
6799	3030	2945	5.652	12	0
6800	3029	2944	5.651	12	0
6801	3028	2813	5.651	12	0
6802	3079	3030	1.250	12	0
6803	3080	3029	1.250	12	0
6804	3081	3028	1.250	12	0
6805	2943	2889	4.252	30	0
6815	2813	5676	3.303	30	0
6816	2944	5678	4.394	30	0
6818	2941	2954	4.285	30	0
6819	2942	2818	7.425	30	0
6821	3160	3154	6.750	12	0
6822	3056	2947	6.100	12	0
6823	5469	5510	1.950	16	0
6824	3038	2949	6.110	30	0
6825	3039	2950	6.105	12	0
6826	3078	3015	3.054	12	0
6827	3015	2951	6.026	12	0
6828	3014	2952	5.951	12	0
6829	2954	5673	2.304	30	0
6830	2951	3068	4.159	30	0
6831	2952	3067	4.170	30	0
6835	2958	2862	2.167	22	0
6836	2959	2960	1.950	22	0
6837	2960	2961	1.950	22	0
6838	2961	2962	1.950	22	0
6839	2962	2963	1.950	22	0
6840	2963	2863	1.950	22	0
6841	2964	2965	1.950	22	0
6842	2965	2966	1.950	22	0
6843	2966	2967	1.950	22	0
6844	2967	2968	1.950	22	0
6845	2968	2864	1.950	22	0
6846	2969	2970	1.950	22	0

Beams Cont...

Beam	Node A	Node B	Length (m)	Property	β (degrees)
6847	2970	2971	1.950	22	0
6848	2971	2972	1.950	22	0
6849	2972	2973	1.950	22	0
6850	2973	2865	1.950	22	0
6851	2974	2975	1.950	22	0
6852	2975	2976	1.950	22	0
6853	2976	2977	1.950	22	0
6854	2977	2978	1.950	22	0
6855	2978	2866	1.950	22	0
6856	2979	2980	2.060	22	0
6860	2983	2888	1.950	30	0
6861	2984	2983	1.950	30	0
6862	2985	2984	1.950	30	0
6864	2987	2986	1.950	30	0
6865	2987	2916	0.750	12	0
6866	2986	2917	0.750	12	0
6867	2985	2918	0.750	12	0
6868	2984	2919	0.750	12	0
6869	2983	2920	0.750	12	0
6870	2988	2830	1.950	16	0
6871	2989	2988	1.950	16	0
6872	2990	2989	1.950	16	0
6873	2991	2990	1.950	16	0
6874	2992	2991	1.950	16	0
6875	2993	2831	1.950	16	0
6876	2994	2993	1.950	16	0
6877	2995	2994	1.950	16	0
6878	2996	2995	1.950	16	0
6879	2997	2996	1.950	16	0
6880	2998	2832	1.950	16	0
6881	2999	2998	1.950	16	0
6882	3000	2999	1.950	16	0
6883	3001	3000	1.950	16	0
6884	3002	3001	1.950	16	0
6885	3003	2833	1.950	16	0
6886	3004	3003	1.950	16	0
6887	3005	3004	1.950	16	0
6888	3006	3005	1.950	16	0
6889	3007	3006	1.950	16	0
6890	3008	2834	1.983	16	0
6891	3009	3008	1.983	16	0
6892	3010	3009	1.983	16	0
6893	3011	3010	1.983	16	0
6894	3012	3011	1.983	16	0
6895	3013	3012	1.983	16	0
6896	3014	3140	1.126	16	0
6897	3015	3014	1.879	16	0
6898	3016	2836	1.955	16	0
6899	3017	3016	1.955	16	0
6900	3018	3017	1.955	16	0
6901	3019	3018	1.955	16	0
6902	3020	3019	1.955	16	0
6903	3021	3020	1.955	16	0
6904	3022	2837	1.972	16	0

Beams Cont...

Beam	Node A	Node B	Length (m)	Property	β (degrees)
6905	3023	3022	1.973	16	0
6906	3024	3023	1.973	16	0
6907	3025	3024	1.973	16	0
6908	3026	3025	1.973	16	0
6909	3027	3026	1.973	16	0
6910	3028	2839	1.972	16	0
6911	3029	3028	1.971	16	0
6912	3030	3029	1.971	16	0
6913	3031	3030	1.971	16	0
6914	3032	3031	1.971	16	0
6915	3033	3032	1.971	16	0
6920	3038	3104	1.935	38	0
6921	3039	3038	1.633	38	0
6922	2950	2821	1.637	36	0
6923	2949	2950	1.633	36	0
6924	3040	2871	1.954	22	0
6925	3041	3040	1.954	22	0
6926	3042	3041	1.954	22	0
6927	3043	3042	1.954	22	0
6928	3044	3043	1.954	22	0
6929	3045	3044	1.954	22	0
6930	3046	2872	1.974	22	0
6931	3047	3046	1.973	22	0
6932	3048	3047	1.973	22	0
6933	3049	3048	1.973	22	0
6934	3050	3049	1.973	22	0
6935	3051	3050	1.973	22	0
6936	3054	3053	1.971	22	0
6938	3056	5469	2.017	16	0
6942	2947	5483	2.017	33	0
6944	3126	3180	0.990	16	0
6945	3060	3082	1.973	22	0
6946	3061	3060	1.973	22	0
6947	3062	2892	1.393	22	0
6948	3063	3062	2.013	22	0
6949	3064	3063	1.954	22	0
6951	3067	5315	1.857	22	0
6952	3068	3067	1.875	22	0
6953	3069	2883	1.978	22	0
6954	3070	3069	1.983	22	0
6955	3071	3070	1.983	22	0
6956	2992	2959	2.450	12	0
6957	2991	2960	2.450	12	0
6958	2990	2961	2.450	12	0
6959	2989	2962	2.450	12	0
6960	2988	2963	2.450	12	0
6961	2997	2964	2.450	12	0
6962	2996	2965	2.450	12	0
6963	2995	2966	2.450	12	0
6964	2994	2967	2.450	12	0
6965	2993	2968	2.450	12	0
6966	3002	2969	2.450	12	0
6967	3001	2970	2.450	12	0
6968	3000	2971	2.450	12	0

Beams Cont...

Beam	Node A	Node B	Length (m)	Property	β (degrees)
6969	2999	2972	2.450	12	0
6970	2998	2973	2.450	12	0
6971	3007	2974	2.450	12	0
6972	3006	2975	2.450	12	0
6973	3005	2976	2.450	12	0
6974	3004	2977	2.450	12	0
6975	3003	2978	2.450	12	0
6976	3045	3021	1.250	12	0
6977	3044	3020	1.250	12	0
6978	3043	3019	1.251	12	0
6979	3042	3018	1.250	12	0
6980	3041	3017	1.250	12	0
6981	3040	3016	1.251	12	0
6982	3051	3027	1.250	12	0
6983	3049	3025	1.250	12	0
6984	3048	3024	1.250	12	0
6985	3047	3023	1.250	12	0
6986	3046	3022	1.250	12	0
6987	3050	3026	1.250	12	0
6988	3054	3033	1.251	12	0
6989	3053	3032	1.250	12	0
6990	3052	3031	1.251	12	0
6995	2949	3159	5.018	30	0
6996	2950	3160	6.216	30	0
6997	2947	3193	4.795	30	0
6999	3072	3073	1.983	22	0
7000	3073	3074	1.983	22	0
7001	3074	3075	1.983	22	0
7002	3075	3076	1.983	22	0
7003	3076	3077	1.983	22	0
7004	3077	2868	1.981	22	0
7008	2893	3090	4.425	26	0
7009	2892	3088	4.358	26	0
7010	3082	3083	1.973	22	0
7011	3083	3084	1.973	22	0
7012	3084	3085	1.973	22	0
7013	3085	2893	0.583	22	0
7014	3086	3087	1.633	22	0
7015	3087	2869	1.629	22	0
7016	3086	3038	3.044	30	0
7017	3087	3039	3.049	12	0
7018	3088	3089	1.646	26	0
7019	3063	3088	2.770	30	0
7020	3064	2911	4.319	30	0
7021	3089	2911	0.789	26	0
7022	3089	3095	1.706	30	0
7023	3090	2925	0.784	26	0
7024	2888	3091	1.950	30	0
7025	3091	3092	1.950	30	0
7026	3092	3093	1.950	30	0
7027	3093	3094	1.950	30	0
7028	3094	3090	1.723	30	0
7029	3091	2921	0.750	12	0
7030	3092	2922	0.750	12	0

Beams Cont...

Beam	Node A	Node B	Length (m)	Property	β (degrees)
7031	3093	2923	0.750	12	0
7032	3094	2924	0.750	12	0
7033	3095	3096	1.950	30	0
7034	3096	3097	1.950	30	0
7035	3097	3098	1.950	30	0
7036	3098	2886	1.950	30	0
7037	3095	2912	0.750	12	0
7038	3096	2913	0.750	12	0
7039	3097	2914	0.750	12	0
7040	3098	2915	0.750	12	0
7041	3099	5502	2.017	22	0
7043	3099	3056	1.248	12	0
7044	5502	5469	1.244	16	0
7047	3102	3103	1.955	36	0
7048	3103	2949	1.956	36	0
7049	3104	3105	1.955	38	0
7050	3104	3103	6.165	30	0
7051	3105	2875	0.785	38	0
7052	3105	3102	6.189	12	0
7053	3106	3107	1.973	16	0
7054	3107	2879	1.973	16	0
7055	3108	2882	1.723	33	0
7056	3106	3108	6.131	30	0
7057	3107	2882	6.148	12	0
7058	3109	3110	1.955	22	0
7059	3110	3086	1.926	22	0
7060	3109	3105	3.032	12	0
7061	3110	3104	3.038	30	0
7062	3111	3112	2.007	22	0
7063	3112	2878	2.388	22	0
7064	3111	3106	1.242	12	0
7065	3112	3107	1.239	12	0
7067	3108	3187	4.653	30	0
7074	3116	3117	1.950	30	0
7075	3117	3118	1.950	30	0
7076	3118	3119	1.950	30	0
7077	3119	3120	1.950	30	0
7078	3120	2887	1.950	30	0
7079	3116	2906	0.750	12	0
7080	3117	2907	0.750	12	0
7081	3118	2908	0.750	12	0
7082	3119	2909	0.750	12	0
7083	3120	2910	0.750	12	0
7084	2897	3121	4.163	30	0
7085	2898	3122	4.157	30	0
7086	2899	3123	4.151	30	0
7087	3124	2889	1.660	22	0
7088	2809	3124	2.322	30	0
7089	3059	3058	1.976	22	0
7090	3058	3057	1.939	23	0
7091	3057	3121	2.013	23	0
7092	3121	3122	1.976	23	0
7093	3122	3123	1.976	23	0
7094	3123	2885	1.976	23	0

Beams Cont...

Beam	Node A	Node B	Length (m)	Property	β (degrees)
7095	3053	3052	1.971	23	0
7096	3052	3079	1.971	23	0
7097	3079	3080	1.971	23	0
7098	3080	3081	1.971	23	0
7099	3081	2873	1.973	23	0
7103	3135	3142	1.322	23	0
7104	3135	3149	2.271	23	0
7105	3078	3136	0.993	23	0
7106	3136	3141	1.628	16	0
7113	3141	3014	1.667	12	0
7114	3141	3140	2.047	16	0
7116	3142	3164	1.917	23	0
7118	3142	3144	1.843	16	0
7121	3145	2835	1.843	16	0
7128	3149	3150	1.841	23	0
7129	3150	2870	1.842	23	0
7130	3149	3144	1.250	12	0
7131	3150	3145	1.250	12	0
7132	3151	3157	1.423	16	0
7133	3102	3156	1.629	46	0
7134	3152	3155	2.264	23	0
7135	3151	3152	2.544	23	0
7137	3153	3151	3.765	23	0
7139	2877	3156	2.686	30	0
7140	3154	2958	2.433	12	0
7141	3157	3155	2.418	13	0
7142	3154	2829	2.167	16	0
7143	3157	3154	1.967	16	0
7144	3155	2958	1.967	23	0
7146	3153	3157	3.471	13	0
7147	3156	3153	6.614	46	0
7149	3160	2814	2.213	16	0
7150	3159	5665	1.700	16	0
7509	3144	3145	1.843	16	0
7510	3164	3144	1.976	26	0
7512	5313	5318	1.788	26	0
7513	3170	3171	1.898	26	0
7514	3171	3172	1.898	26	0
7515	3172	3164	1.898	26	0
7518	3170	6272	3.735	30	0
7519	3171	6273	3.601	30	0
7520	3172	6274	3.467	30	0
7527	3164	6275	3.327	30	0
7528	3144	6276	3.257	13	0
7532	3179	2891	0.487	23	0
7533	5319	3179	3.201	30	0
7534	3180	2884	1.358	16	0
7535	5320	3180	2.205	30	0
7556	2833	3197	2.054	16	0
7563	3185	3184	2.581	23	0
7566	3185	3186	3.132	23	0
7569	3188	3186	4.528	46	0
7570	3188	3192	1.895	23	0
7572	2980	3184	2.330	23	0

Beams Cont...

Beam	Node A	Node B	Length (m)	Property	β (degrees)
7576	3192	3193	1.706	23	0
7577	3193	5542	2.018	23	0
7581	5483	5543	1.800	16	0
7582	5673	3197	6.873	13	0
7584	3196	3185	1.443	16	0
7585	3197	3196	2.053	16	0
7588	3197	2979	2.440	13	0
7590	3196	2980	2.430	13	0
7591	5670	3196	3.935	13	0
7620	3224	3375	1.950	16	0
7621	3225	3380	1.950	16	0
7622	3226	3385	1.950	16	0
7623	3227	3390	1.950	16	0
7624	3211	3303	1.950	16	0
7625	3212	3298	1.950	16	0
7626	3213	3308	1.950	16	0
7627	3214	3313	1.950	16	0
7628	3211	3247	1.600	33	0
7629	3212	3248	1.600	16	0
7630	3213	3249	1.600	16	0
7631	3214	3250	1.600	16	0
7632	3215	3251	1.600	33	0
7633	3233	3235	1.950	33	0
7634	3203	3282	2.350	63	0
7635	3229	3236	1.950	16	0
7636	3230	3237	1.950	19	0
7637	3231	3238	1.950	19	0
7638	3232	3239	1.950	19	0
7639	3216	3203	1.796	63	0
7640	3217	3204	1.796	19	0
7641	3218	3205	1.796	19	0
7642	3219	3206	1.796	19	0
7643	3234	3240	1.950	19	0
7644	3220	3207	1.796	19	0
7645	3217	3339	1.876	33	0
7646	3221	3500	1.839	19	0
7647	3233	3396	1.982	19	0
7648	3229	3398	1.879	19	0
7649	3230	3404	1.976	19	0
7650	3221	3286	1.967	33	0
7651	3218	3292	1.973	33	0
7652	3231	3410	1.974	19	0
7653	3219	3331	1.975	66	0
7654	3209	3333	0.690	66	0
7655	3206	3281	2.854	33	0
7656	3210	3220	1.958	66	0
7657	3209	3208	2.250	44	0
7660	3208	3342	2.490	44	0
7661	3216	3318	2.036	37	0
7662	3222	3320	2.060	37	0
7663	3319	3322	1.987	37	0
7664	3207	3555	3.050	19	0
7665	3232	3416	1.972	19	0
7666	3235	3241	2.500	33	0

Beams Cont...

Beam	Node A	Node B	Length (m)	Property	β (degrees)
7667	3236	3242	2.500	19	0
7668	3237	3243	2.500	19	0
7669	3238	3244	2.500	19	0
7670	3239	3245	2.500	19	0
7671	3240	3246	2.500	19	0
7672	3241	3216	1.650	33	0
7673	3242	3217	1.650	19	0
7674	3243	3221	1.650	19	0
7675	3244	3218	1.650	19	0
7676	3245	3219	1.650	19	0
7677	3246	3220	1.650	19	0
7678	3247	3252	3.400	33	0
7679	3248	3253	3.400	19	0
7680	3249	3254	3.400	19	0
7681	3250	3255	3.400	19	0
7682	3251	3256	3.400	33	0
7683	3252	3224	1.750	33	0
7684	3253	3225	1.750	19	0
7685	3254	3226	1.750	19	0
7686	3255	3227	1.750	19	0
7687	3256	3228	1.750	33	0
7688	3268	3269	3.071	23	0
7689	3268	3486	0.204	23	0
7690	3263	3450	1.984	23	0
7691	3262	3456	1.881	23	0
7692	3263	3233	3.054	33	0
7693	3262	3229	3.054	19	0
7694	3269	3270	6.322	23	0
7695	3233	3418	1.633	38	0
7696	3270	3271	1.269	23	0
7697	3224	3257	2.450	33	0
7698	3225	3258	2.450	19	0
7699	3226	3259	2.450	19	0
7700	3227	3260	2.450	19	0
7701	3228	3261	2.450	33	0
7702	3257	3344	1.950	23	0
7703	3258	3349	1.950	23	0
7704	3259	3354	1.950	23	0
7705	3260	3359	1.950	23	0
7706	3261	3364	2.060	23	0
7707	3270	3479	1.955	36	0
7708	3264	3424	1.984	23	0
7709	3265	3430	1.972	23	0
7710	3266	3433	1.970	23	0
7711	3267	3234	1.250	19	0
7712	3266	3232	1.250	19	0
7713	3265	3231	1.250	19	0
7714	3264	3230	1.250	19	0
7715	3272	3273	1.330	23	0
7716	3273	3274	6.544	23	0
7717	3234	3435	1.684	19	0
7718	3267	3477	1.682	23	0
7719	3274	3550	4.947	23	0
7720	3220	3335	1.682	33	0

Beams Cont...

Beam	Node A	Node B	Length (m)	Property	β (degrees)
7721	3276	3438	1.942	23	0
7722	3278	3212	0.750	19	0
7723	3279	3213	0.750	19	0
7724	3280	3214	0.750	19	0
7725	3278	3490	1.950	30	0
7726	3279	3370	1.950	30	0
7727	3204	3275	2.352	19	0
7728	3205	3277	2.349	19	0
7730	3277	3440	1.972	23	0
7731	3282	3211	3.280	63	0
7732	3282	3443	1.800	23	0
7733	3286	3287	1.967	33	0
7734	3275	3446	1.881	23	0
7735	3283	3276	0.314	23	0
7736	3284	3449	0.590	23	0
7737	3285	3498	1.389	23	0
7738	3287	3288	1.967	33	0
7739	3288	3289	1.967	33	0
7740	3289	3290	1.967	33	0
7741	3290	3291	1.967	33	0
7742	3291	3218	1.967	33	0
7743	3292	3293	1.973	33	0
7744	3293	3294	1.973	33	0
7745	3294	3295	1.973	33	0
7746	3295	3296	1.973	33	0
7747	3296	3297	1.973	33	0
7748	3297	3219	1.973	33	0
7749	3298	3299	1.950	19	0
7750	3299	3300	1.950	19	0
7751	3300	3301	1.950	19	0
7752	3301	3302	1.950	19	0
7753	3302	3213	1.950	19	0
7754	3303	3304	1.950	19	0
7755	3304	3305	1.950	19	0
7756	3305	3306	1.950	19	0
7757	3306	3307	1.950	19	0
7758	3307	3212	1.950	19	0
7759	3308	3309	1.950	19	0
7760	3309	3310	1.950	19	0
7761	3310	3311	1.950	19	0
7762	3311	3312	1.950	19	0
7763	3312	3214	1.950	19	0
7764	3313	3314	1.950	19	0
7765	3314	3315	1.950	19	0
7766	3315	3316	1.950	19	0
7767	3316	3317	1.950	19	0
7768	3317	3215	1.950	19	0
7769	3318	3222	1.907	37	0
7771	3320	5731	0.730	37	0
7772	3321	3217	1.993	37	0
7773	3322	3321	1.993	37	0
7780	3329	3209	1.284	66	0
7781	3330	5379	0.900	66	0
7782	3331	3330	1.975	66	0

Beams Cont...

Beam	Node A	Node B	Length (m)	Property	β (degrees)
7783	3332	3210	2.037	66	0
7784	3333	3332	1.971	66	0
7785	3281	3215	3.763	33	0
7786	3339	3340	1.876	33	0
7787	3340	3573	1.856	33	0
7788	3342	3215	3.842	44	0
7789	3404	3286	6.100	13	0
7790	3403	3287	6.100	13	0
7791	3402	3288	6.100	13	0
7792	3401	3289	6.100	13	0
7793	3400	3290	6.100	13	0
7794	3399	3291	6.100	13	0
7795	3410	3292	6.100	13	0
7796	3409	3293	6.100	13	0
7797	3408	3294	6.100	13	0
7798	3407	3295	6.100	13	0
7799	3406	3296	6.100	13	0
7800	3405	3297	6.100	13	0
7801	3303	3375	6.750	13	0
7802	3304	3374	6.750	13	0
7803	3305	3373	6.750	13	0
7804	3306	3372	6.750	13	0
7805	3307	3371	6.750	13	0
7806	3298	3380	6.750	13	0
7807	3299	3379	6.750	13	0
7808	3300	3378	6.750	13	0
7809	3301	3377	6.750	13	0
7810	3302	3376	6.750	13	0
7811	3308	3385	6.750	13	0
7812	3309	3384	6.750	13	0
7813	3310	3383	6.750	13	0
7814	3311	3382	6.750	13	0
7815	3312	3381	6.750	13	0
7816	3313	3390	6.750	13	0
7817	3314	3389	6.750	13	0
7818	3315	3388	6.750	13	0
7819	3316	3387	6.750	13	0
7820	3317	3386	6.750	13	0
7821	3396	3318	5.629	13	0
7822	3395	3222	5.629	13	0
7823	3394	3320	5.619	13	0
7824	3393	3319	5.610	13	0
7825	3392	3322	5.730	13	0
7826	3391	3321	5.915	19	0
7827	3318	3443	4.610	30	0
7831	3322	3448	4.516	30	0
7832	3321	3447	4.332	19	0
7833	3450	3396	3.054	13	0
7834	3451	3395	3.054	13	0
7835	3452	3394	3.054	13	0
7836	3453	3393	3.054	13	0
7837	3454	3392	3.054	13	0
7838	3455	3391	3.054	19	0
7839	3293	3439	4.137	30	0

Beams Cont...

Beam	Node A	Node B	Length (m)	Property	β (degrees)
7840	3294	3460	4.133	30	0
7841	3295	3461	4.129	30	0
7842	3296	3462	4.126	30	0
7843	3297	3463	4.122	30	0
7844	3286	3438	4.182	30	0
7845	3287	3437	4.176	30	0
7846	3288	3436	4.170	30	0
7847	3292	3440	4.141	30	0
7848	3416	3331	5.977	13	0
7849	3415	3330	5.854	13	0
7850	3414	3329	5.732	13	0
7851	3413	3333	5.652	13	0
7852	3412	3332	5.651	13	0
7853	3411	3210	5.651	13	0
7854	3457	3413	1.250	13	0
7855	3458	3412	1.250	13	0
7856	3459	3411	1.250	13	0
7857	3331	3281	4.252	30	0
7863	3210	5684	3.303	30	0
7864	3332	5686	4.394	30	0
7865	3326	5680	3.225	30	0
7866	3329	3342	4.285	30	0
7867	3330	3215	7.425	30	0
7869	3527	3521	6.750	13	0
7870	3435	3335	6.100	13	0
7871	5470	5511	1.950	19	0
7872	3417	3337	6.110	30	0
7873	3418	3338	6.105	13	0
7874	3456	3398	3.054	13	0
7875	3398	3339	6.026	13	0
7876	3397	3340	5.951	13	0
7877	3342	5681	2.304	30	0
7878	3339	3446	4.159	30	0
7879	3340	3445	4.170	30	0
7880	3343	3257	2.167	23	0
7881	3344	3345	1.950	23	0
7882	3345	3346	1.950	23	0
7883	3346	3347	1.950	23	0
7884	3347	3348	1.950	23	0
7885	3348	3258	1.950	23	0
7886	3349	3350	1.950	23	0
7887	3350	3351	1.950	23	0
7888	3351	3352	1.950	23	0
7889	3352	3353	1.950	23	0
7890	3353	3259	1.950	23	0
7891	3354	3355	1.950	23	0
7892	3355	3356	1.950	23	0
7893	3356	3357	1.950	23	0
7894	3357	3358	1.950	23	0
7895	3358	3260	1.950	23	0
7896	3359	3360	1.950	23	0
7897	3360	3361	1.950	23	0
7898	3361	3362	1.950	23	0
7899	3362	3363	1.950	23	0

Beams Cont...

Beam	Node A	Node B	Length (m)	Property	β (degrees)
7900	3363	3261	1.950	23	0
7901	3364	3365	2.060	23	0
7902	3366	3280	1.950	30	0
7903	3367	3366	1.950	30	0
7904	3368	3367	1.950	30	0
7906	3370	3369	1.950	30	0
7907	3370	3308	0.750	13	0
7908	3369	3309	0.750	13	0
7909	3368	3310	0.750	13	0
7910	3367	3311	0.750	13	0
7911	3366	3312	0.750	13	0
7912	3371	3225	1.950	19	0
7913	3372	3371	1.950	19	0
7914	3373	3372	1.950	19	0
7915	3374	3373	1.950	19	0
7916	3375	3374	1.950	19	0
7917	3376	3226	1.950	19	0
7918	3377	3376	1.950	19	0
7919	3378	3377	1.950	19	0
7920	3379	3378	1.950	19	0
7921	3380	3379	1.950	19	0
7922	3381	3227	1.950	19	0
7923	3382	3381	1.950	19	0
7924	3383	3382	1.950	19	0
7925	3384	3383	1.950	19	0
7926	3385	3384	1.950	19	0
7927	3386	3228	1.950	19	0
7928	3387	3386	1.950	19	0
7929	3388	3387	1.950	19	0
7930	3389	3388	1.950	19	0
7931	3390	3389	1.950	19	0
7932	3391	3229	1.983	19	0
7933	3392	3391	1.983	19	0
7934	3393	3392	1.983	19	0
7935	3394	3393	1.983	19	0
7936	3395	3394	1.983	19	0
7937	3396	3395	1.983	19	0
7938	3397	3511	1.126	19	0
7939	3398	3397	1.879	19	0
7940	3399	3231	1.955	19	0
7941	3400	3399	1.955	19	0
7942	3401	3400	1.955	19	0
7943	3402	3401	1.955	19	0
7944	3403	3402	1.955	19	0
7945	3404	3403	1.955	19	0
7946	3405	3232	1.972	19	0
7947	3406	3405	1.973	19	0
7948	3407	3406	1.973	19	0
7949	3408	3407	1.973	19	0
7950	3409	3408	1.973	19	0
7951	3410	3409	1.973	19	0
7952	3411	3234	1.972	19	0
7953	3412	3411	1.971	19	0
7954	3413	3412	1.971	19	0

Beams Cont...

Beam	Node A	Node B	Length (m)	Property	β (degrees)
7955	3414	3413	1.971	19	0
7956	3415	3414	1.971	19	0
7957	3416	3415	1.971	19	0
7958	3417	3481	1.935	38	0
7959	3418	3417	1.633	38	0
7960	3338	3216	1.637	36	0
7961	3337	3338	1.633	36	0
7962	3419	3265	1.954	23	0
7963	3420	3419	1.954	23	0
7964	3421	3420	1.954	23	0
7965	3422	3421	1.954	23	0
7966	3423	3422	1.954	23	0
7967	3424	3423	1.954	23	0
7968	3425	3266	1.974	23	0
7969	3426	3425	1.973	23	0
7970	3427	3426	1.973	23	0
7971	3428	3427	1.973	23	0
7972	3429	3428	1.973	23	0
7973	3430	3429	1.973	23	0
7974	3433	3432	1.971	23	0
7976	3435	5470	2.017	19	0
7978	3335	5484	2.017	33	0
7981	3439	3460	1.973	23	0
7982	3440	3439	1.973	23	0
7983	3441	3284	1.393	23	0
7984	3442	3441	2.013	23	0
7985	3443	3442	1.954	23	0
7986	3445	3571	1.837	23	0
7987	3446	3445	1.875	23	0
7988	3447	3275	1.978	23	0
7989	3448	3447	1.983	23	0
7990	3449	3448	1.983	23	0
7991	3375	3344	2.450	13	0
7992	3374	3345	2.450	13	0
7993	3373	3346	2.450	13	0
7994	3372	3347	2.450	13	0
7995	3371	3348	2.450	13	0
7996	3380	3349	2.450	13	0
7997	3379	3350	2.450	13	0
7998	3378	3351	2.450	13	0
7999	3377	3352	2.450	13	0
8000	3376	3353	2.450	13	0
8001	3385	3354	2.450	13	0
8002	3384	3355	2.450	13	0
8003	3383	3356	2.450	13	0
8004	3382	3357	2.450	13	0
8005	3381	3358	2.450	13	0
8006	3390	3359	2.450	13	0
8007	3389	3360	2.450	13	0
8008	3388	3361	2.450	13	0
8009	3387	3362	2.450	13	0
8010	3386	3363	2.450	13	0
8011	3424	3404	1.250	13	0
8012	3423	3403	1.250	13	0

Beams Cont...

Beam	Node A	Node B	Length (m)	Property	β (degrees)
8013	3422	3402	1.251	13	0
8014	3421	3401	1.250	13	0
8015	3420	3400	1.250	13	0
8016	3419	3399	1.251	13	0
8017	3430	3410	1.250	13	0
8018	3428	3408	1.250	13	0
8019	3427	3407	1.250	13	0
8020	3426	3406	1.250	13	0
8021	3425	3405	1.250	13	0
8022	3429	3409	1.250	13	0
8023	3433	3416	1.251	13	0
8024	3432	3415	1.250	13	0
8025	3431	3414	1.251	13	0
8026	3337	3526	5.018	30	0
8027	3338	3527	6.216	30	0
8028	3335	3556	4.795	30	0
8029	3450	3451	1.983	23	0
8030	3451	3452	1.983	23	0
8031	3452	3453	1.983	23	0
8032	3453	3454	1.983	23	0
8033	3454	3455	1.983	23	0
8034	3455	3262	1.981	23	0
8038	3285	3468	4.425	26	0
8039	3284	3466	4.358	26	0
8040	3460	3461	1.973	23	0
8041	3461	3462	1.973	23	0
8042	3462	3463	1.973	23	0
8043	3463	3285	0.583	23	0
8044	3464	3465	1.633	23	0
8045	3465	3263	1.629	23	0
8046	3464	3417	3.044	30	0
8047	3465	3418	3.049	13	0
8048	3466	3467	1.646	26	0
8049	3442	3466	2.770	30	0
8050	3443	3303	4.319	30	0
8051	3467	3303	0.789	26	0
8052	3467	3473	1.706	30	0
8053	3468	3317	0.784	26	0
8054	3280	3469	1.950	30	0
8055	3469	3470	1.950	30	0
8056	3470	3471	1.950	30	0
8057	3471	3472	1.950	30	0
8058	3472	3468	1.723	30	0
8059	3469	3313	0.750	13	0
8060	3470	3314	0.750	13	0
8061	3471	3315	0.750	13	0
8062	3472	3316	0.750	13	0
8063	3473	3474	1.950	30	0
8064	3474	3475	1.950	30	0
8065	3475	3476	1.950	30	0
8066	3476	3278	1.950	30	0
8067	3473	3304	0.750	13	0
8068	3474	3305	0.750	13	0
8069	3475	3306	0.750	13	0

Beams Cont...

Beam	Node A	Node B	Length (m)	Property	β (degrees)
8070	3476	3307	0.750	13	0
8071	3477	5503	2.017	23	0
8073	3477	3435	1.248	13	0
8074	5503	5470	1.244	19	0
8075	3479	3480	1.955	36	0
8076	3480	3337	1.956	36	0
8077	3481	3482	1.955	38	0
8078	3481	3480	6.165	30	0
8079	3482	3269	0.785	38	0
8080	3482	3479	6.189	13	0
8081	3483	3484	1.973	19	0
8082	3484	3273	1.973	19	0
8083	3485	3274	1.723	33	0
8084	3483	3485	6.131	30	0
8085	3484	3274	6.148	13	0
8086	3486	3487	1.955	23	0
8087	3487	3464	1.926	23	0
8088	3486	3482	3.032	13	0
8089	3487	3481	3.038	30	0
8090	3488	3489	2.007	23	0
8091	3489	3272	2.388	23	0
8092	3488	3483	1.242	13	0
8093	3489	3484	1.239	13	0
8094	3485	3550	4.653	30	0
8096	3490	3491	1.950	30	0
8097	3491	3492	1.950	30	0
8098	3492	3493	1.950	30	0
8099	3493	3494	1.950	30	0
8100	3494	3279	1.950	30	0
8101	3490	3298	0.750	13	0
8102	3491	3299	0.750	13	0
8103	3492	3300	0.750	13	0
8104	3493	3301	0.750	13	0
8105	3494	3302	0.750	13	0
8106	3289	3495	4.163	30	0
8107	3290	3496	4.157	31	0
8108	3291	3497	4.151	31	0
8109	3498	3281	1.660	23	0
8110	3206	3498	2.322	31	0
8111	3438	3437	1.976	23	0
8112	3437	3436	1.939	23	0
8113	3436	3495	2.013	23	0
8114	3495	3496	1.976	23	0
8115	3496	3497	1.976	23	0
8116	3497	3277	1.976	23	0
8117	3432	3431	1.971	23	0
8118	3431	3457	1.971	23	0
8119	3457	3458	1.971	23	0
8120	3458	3459	1.971	23	0
8121	3459	3267	1.973	23	0
8124	3509	3513	1.322	23	0
8125	3509	3516	2.271	23	0
8126	3456	3563	0.993	23	0
8127	3563	3512	1.628	23	0

Beams Cont...

Beam	Node A	Node B	Length (m)	Property	β (degrees)
8128	3511	3566	1.367	23	0
8129	3512	3397	1.667	13	0
8130	3512	3511	2.047	23	0
8132	3513	3514	1.843	19	0
8133	3515	3230	1.843	19	0
8134	3516	3517	1.841	23	0
8135	3517	3264	1.842	23	0
8136	3516	3514	1.250	13	0
8137	3517	3515	1.250	13	0
8138	3518	3524	1.423	19	0
8139	3479	3523	1.629	46	0
8140	3519	3522	2.264	23	0
8141	3518	3519	2.544	23	0
8143	3520	3518	3.765	23	0
8145	3271	3523	2.686	31	0
8146	3521	3343	2.433	13	0
8147	3524	3522	2.418	13	0
8148	3521	3224	2.167	19	0
8149	3524	3521	1.967	19	0
8150	3522	3343	1.967	23	0
8152	3520	3524	3.471	13	0
8153	3523	3520	6.614	46	0
8155	3527	3211	2.213	19	0
8156	3526	5693	1.700	19	0
8164	3571	3444	1.894	23	0
8167	3514	3515	1.843	19	0
8191	3500	3276	2.349	19	0
8194	3228	3559	2.054	19	0
8195	3548	3547	2.581	23	0
8198	3548	3549	3.132	23	0
8199	3551	3549	4.528	46	0
8200	3551	3555	1.895	23	0
8202	3365	3547	2.330	23	0
8206	3555	3556	1.706	23	0
8207	3556	5545	2.018	23	0
8209	5484	5546	1.800	19	0
8210	5681	3559	6.873	13	0
8212	3558	3548	1.443	19	0
8213	3559	3558	2.053	19	0
8216	3559	3364	2.440	13	0
8218	3558	3365	2.430	13	0
8219	5682	3558	3.935	13	0
8560	3565	3564	2.286	23	0
8561	3566	3565	3.412	23	0
8562	3564	3444	4.383	23	0
8563	3513	3568	4.094	23	0
8564	3567	3569	1.401	23	0
8565	3568	3567	2.729	23	0
8566	3569	3283	3.285	23	0
8567	3515	3570	6.100	13	0
8568	3514	3568	3.660	13	0
8569	3567	3570	0.628	33	0
8570	3570	3569	1.252	13	0
8571	3570	3221	1.798	33	0

Beams Cont...

Beam	Node A	Node B	Length (m)	Property	β (degrees)
8577	3566	3573	4.764	13	0
8584	3565	3572	1.911	13	0
8585	3572	3564	1.263	33	0
8586	3573	3572	1.890	33	0
8587	3573	3571	4.180	31	0
8588	3572	3444	4.191	31	0
8598	3597	3748	1.950	19	0
8599	3598	3753	1.950	19	0
8600	3599	3758	1.950	19	0
8601	3600	3763	1.950	19	0
8602	3584	3676	1.950	19	0
8603	3585	3671	1.950	19	0
8604	3586	3681	1.950	19	0
8605	3587	3686	1.950	19	0
8606	3584	3620	1.600	33	0
8607	3585	3621	1.600	19	0
8608	3586	3622	1.600	19	0
8609	3587	3623	1.600	19	0
8610	3588	3624	1.600	33	0
8611	3606	3608	1.950	33	0
8612	3576	3655	2.350	63	0
8613	3602	3609	1.950	19	0
8614	3603	3610	1.950	19	0
8615	3604	3611	1.950	19	0
8616	3605	3612	1.950	19	0
8617	3589	3576	1.796	63	0
8618	3590	3577	1.796	19	0
8619	3591	3578	1.796	19	0
8620	3592	3579	1.796	19	0
8621	3607	3613	1.950	19	0
8622	3593	3580	1.796	19	0
8623	3590	3712	1.876	33	0
8624	3594	3873	1.839	19	0
8625	3606	3769	1.982	19	0
8626	3602	3771	1.879	19	0
8627	3603	3777	1.976	19	0
8628	3594	3659	1.967	33	0
8629	3591	3665	1.973	33	0
8630	3604	3783	1.974	19	0
8631	3592	3704	1.975	66	0
8632	3582	3706	0.690	66	0
8633	3579	3654	2.854	33	0
8634	3583	3593	1.958	66	0
8635	3582	3581	2.250	44	0
8638	3581	3715	2.490	44	0
8639	3589	3691	2.036	37	0
8640	3595	3693	2.060	37	0
8641	3596	3695	1.331	37	0
8642	3580	3928	3.050	19	0
8643	3605	3789	1.972	19	0
8644	3608	3614	2.500	33	0
8645	3609	3615	2.500	19	0
8646	3610	3616	2.500	19	0
8647	3611	3617	2.500	19	0

Beams Cont...

Beam	Node A	Node B	Length (m)	Property	β (degrees)
8648	3612	3618	2.500	19	0
8649	3613	3619	2.500	19	0
8650	3614	3589	1.650	33	0
8651	3615	3590	1.650	19	0
8652	3616	3594	1.650	19	0
8653	3617	3591	1.650	19	0
8654	3618	3592	1.650	19	0
8655	3619	3593	1.650	19	0
8656	3620	3625	3.400	33	0
8657	3621	3626	3.400	19	0
8658	3622	3627	3.400	19	0
8659	3623	3628	3.400	19	0
8660	3624	3629	3.400	33	0
8661	3625	3597	1.750	33	0
8662	3626	3598	1.750	19	0
8663	3627	3599	1.750	19	0
8664	3628	3600	1.750	19	0
8665	3629	3601	1.750	33	0
8666	3641	3642	3.071	23	0
8667	3641	3859	0.204	23	0
8668	3636	3823	1.984	23	0
8669	3635	3829	1.881	23	0
8670	3636	3606	3.054	33	0
8671	3635	3602	3.054	19	0
8672	3642	3643	6.322	23	0
8673	3606	3791	1.633	38	0
8674	3643	3644	1.269	23	0
8675	3597	3630	2.450	33	0
8676	3598	3631	2.450	19	0
8677	3599	3632	2.450	19	0
8678	3600	3633	2.450	19	0
8679	3601	3634	2.450	33	0
8680	3630	3717	1.950	23	0
8681	3631	3722	1.950	23	0
8682	3632	3727	1.950	23	0
8683	3633	3732	1.950	23	0
8684	3634	3737	2.060	23	0
8685	3643	3852	1.955	36	0
8686	3637	3797	1.984	23	0
8687	3638	3803	1.972	23	0
8688	3639	3806	1.970	23	0
8689	3640	3607	1.250	19	0
8690	3639	3605	1.250	19	0
8691	3638	3604	1.250	19	0
8692	3637	3603	1.250	19	0
8693	3645	3646	1.330	23	0
8694	3646	3647	6.544	23	0
8695	3607	3808	1.684	19	0
8696	3640	3850	1.682	23	0
8697	3647	3923	4.947	23	0
8698	3593	3708	1.682	33	0
8699	3649	3811	1.942	23	0
8700	3651	3585	0.750	19	0
8701	3652	3586	0.750	19	0

Beams Cont...

Beam	Node A	Node B	Length (m)	Property	β (degrees)
8702	3653	3587	0.750	19	0
8703	3651	3863	1.950	31	0
8704	3652	3743	1.950	31	0
8705	3577	3648	2.352	19	0
8706	3578	3650	2.349	19	0
8708	3650	3813	1.972	23	0
8709	3655	3584	3.280	63	0
8710	3655	3816	1.800	23	0
8711	3659	3660	1.967	33	0
8712	3648	3819	1.881	23	0
8713	3656	3649	0.314	23	0
8714	3657	3822	0.590	23	0
8715	3658	3871	1.389	23	0
8716	3660	3661	1.967	33	0
8717	3661	3662	1.967	33	0
8718	3662	3663	1.967	33	0
8719	3663	3664	1.967	33	0
8720	3664	3591	1.967	33	0
8721	3665	3666	1.973	33	0
8722	3666	3667	1.973	33	0
8723	3667	3668	1.973	33	0
8724	3668	3669	1.973	33	0
8725	3669	3670	1.973	33	0
8726	3670	3592	1.973	33	0
8727	3671	3672	1.950	19	0
8728	3672	3673	1.950	19	0
8729	3673	3674	1.950	19	0
8730	3674	3675	1.950	19	0
8731	3675	3586	1.950	19	0
8732	3676	3677	1.950	19	0
8733	3677	3678	1.950	19	0
8734	3678	3679	1.950	19	0
8735	3679	3680	1.950	19	0
8736	3680	3585	1.950	19	0
8737	3681	3682	1.950	19	0
8738	3682	3683	1.950	19	0
8739	3683	3684	1.950	19	0
8740	3684	3685	1.950	19	0
8741	3685	3587	1.950	19	0
8742	3686	3687	1.950	19	0
8743	3687	3688	1.950	19	0
8744	3688	3689	1.950	19	0
8745	3689	3690	1.950	19	0
8746	3690	3588	1.950	19	0
8747	3691	3595	1.907	37	0
8748	3692	3596	0.658	37	0
8749	3693	5732	0.730	37	0
8750	3694	3590	1.993	37	0
8751	3695	3694	1.993	37	0
8758	3702	3582	1.284	66	0
8759	3703	5380	0.900	66	0
8760	3704	3703	1.975	66	0
8761	3705	3583	2.037	66	0
8762	3706	3705	1.971	66	0

Beams Cont...

Beam	Node A	Node B	Length (m)	Property	β (degrees)
8763	3654	3588	3.763	33	0
8764	3712	3713	1.876	33	0
8765	3713	3714	1.876	33	0
8766	3715	3588	3.842	44	0
8767	3777	3659	6.100	13	0
8768	3776	3660	6.100	19	0
8769	3775	3661	6.100	13	0
8770	3774	3662	6.100	13	0
8771	3773	3663	6.100	13	0
8772	3772	3664	6.100	13	0
8773	3783	3665	6.100	13	0
8774	3782	3666	6.100	13	0
8775	3781	3667	6.100	13	0
8776	3780	3668	6.100	13	0
8777	3779	3669	6.100	13	0
8778	3778	3670	6.100	13	0
8779	3676	3748	6.750	13	0
8780	3677	3747	6.750	13	0
8781	3678	3746	6.750	13	0
8782	3679	3745	6.750	13	0
8783	3680	3744	6.750	13	0
8784	3671	3753	6.750	13	0
8785	3672	3752	6.750	13	0
8786	3673	3751	6.750	13	0
8787	3674	3750	6.750	13	0
8788	3675	3749	6.750	13	0
8789	3681	3758	6.750	13	0
8790	3682	3757	6.750	13	0
8791	3683	3756	6.750	13	0
8792	3684	3755	6.750	13	0
8793	3685	3754	6.750	13	0
8794	3686	3763	6.750	13	0
8795	3687	3762	6.750	13	0
8796	3688	3761	6.750	13	0
8797	3689	3760	6.750	13	0
8798	3690	3759	6.750	13	0
8799	3769	3691	5.629	13	0
8800	3768	3595	5.629	13	0
8801	3767	3693	5.619	13	0
8802	3766	3692	5.610	13	0
8803	3765	3695	5.730	13	0
8804	3764	3694	5.915	13	0
8805	3691	3816	4.610	31	0
8809	3695	3821	4.516	31	0
8810	3694	3820	4.332	31	0
8811	3823	3769	3.054	13	0
8812	3824	3768	3.054	13	0
8813	3825	3767	3.054	13	0
8814	3826	3766	3.054	13	0
8815	3827	3765	3.054	13	0
8816	3828	3764	3.054	13	0
8817	3666	3812	4.137	31	0
8818	3667	3833	4.133	31	0
8819	3668	3834	4.129	31	0

Beams Cont...

Beam	Node A	Node B	Length (m)	Property	β (degrees)
8820	3669	3835	4.126	31	0
8821	3670	3836	4.122	31	0
8822	3659	3811	4.182	31	0
8823	3660	3810	4.176	19	0
8824	3661	3809	4.170	31	0
8825	3665	3813	4.141	31	0
8826	3789	3704	5.977	13	0
8827	3788	3703	5.854	13	0
8828	3787	3702	5.732	13	0
8829	3786	3706	5.652	13	0
8830	3785	3705	5.651	13	0
8831	3784	3583	5.651	13	0
8832	3830	3786	1.250	13	0
8833	3831	3785	1.250	13	0
8834	3832	3784	1.250	13	0
8835	3704	3654	4.252	31	0
8841	3583	5697	3.303	31	0
8842	3705	5698	4.394	31	0
8843	3699	5699	3.221	31	0
8844	3702	3715	4.285	31	0
8845	3703	3588	7.425	31	0
8847	3900	3894	6.750	13	0
8848	3808	3708	6.100	13	0
8849	5471	5512	1.950	19	0
8850	3790	3710	6.110	32	0
8851	3791	3711	6.105	13	0
8852	3829	3771	3.054	13	0
8853	3771	3712	6.026	13	0
8854	3770	3713	5.951	13	0
8855	3715	5702	2.304	32	0
8856	3712	3819	4.159	32	0
8857	3713	3818	4.170	32	0
8858	3716	3630	2.167	23	0
8859	3717	3718	1.950	23	0
8860	3718	3719	1.950	23	0
8861	3719	3720	1.950	23	0
8862	3720	3721	1.950	23	0
8863	3721	3631	1.950	23	0
8864	3722	3723	1.950	23	0
8865	3723	3724	1.950	23	0
8866	3724	3725	1.950	23	0
8867	3725	3726	1.950	23	0
8868	3726	3632	1.950	23	0
8869	3727	3728	1.950	23	0
8870	3728	3729	1.950	23	0
8871	3729	3730	1.950	23	0
8872	3730	3731	1.950	23	0
8873	3731	3633	1.950	23	0
8874	3732	3733	1.950	23	0
8875	3733	3734	1.950	23	0
8876	3734	3735	1.950	23	0
8877	3735	3736	1.950	23	0
8878	3736	3634	1.950	23	0
8879	3737	3738	2.060	23	0

Beams Cont...

Beam	Node A	Node B	Length (m)	Property	β (degrees)
8880	3739	3653	1.950	32	0
8881	3740	3739	1.950	32	0
8882	3741	3740	1.950	32	0
8883	3742	3741	1.950	32	0
8884	3743	3742	1.950	32	0
8885	3743	3681	0.750	13	0
8886	3742	3682	0.750	13	0
8887	3741	3683	0.750	13	0
8888	3740	3684	0.750	13	0
8889	3739	3685	0.750	13	0
8890	3744	3598	1.950	19	0
8891	3745	3744	1.950	19	0
8892	3746	3745	1.950	19	0
8893	3747	3746	1.950	19	0
8894	3748	3747	1.950	19	0
8895	3749	3599	1.950	19	0
8896	3750	3749	1.950	19	0
8897	3751	3750	1.950	19	0
8898	3752	3751	1.950	19	0
8899	3753	3752	1.950	19	0
8900	3754	3600	1.950	19	0
8901	3755	3754	1.950	19	0
8902	3756	3755	1.950	19	0
8903	3757	3756	1.950	19	0
8904	3758	3757	1.950	19	0
8905	3759	3601	1.950	19	0
8906	3760	3759	1.950	19	0
8907	3761	3760	1.950	19	0
8908	3762	3761	1.950	19	0
8909	3763	3762	1.950	19	0
8910	3764	3602	1.983	19	0
8911	3765	3764	1.983	19	0
8912	3766	3765	1.983	19	0
8913	3767	3766	1.983	19	0
8914	3768	3767	1.983	19	0
8915	3769	3768	1.983	19	0
8916	3770	3884	1.126	19	0
8917	3771	3770	1.879	19	0
8918	3772	3604	1.955	19	0
8919	3773	3772	1.955	19	0
8920	3774	3773	1.955	19	0
8921	3775	3774	1.955	19	0
8922	3776	3775	1.955	19	0
8923	3777	3776	1.955	19	0
8924	3778	3605	1.972	19	0
8925	3779	3778	1.973	19	0
8926	3780	3779	1.973	19	0
8927	3781	3780	1.973	19	0
8928	3782	3781	1.973	19	0
8929	3783	3782	1.973	19	0
8930	3784	3607	1.972	19	0
8931	3785	3784	1.971	19	0
8932	3786	3785	1.971	19	0
8933	3787	3786	1.971	19	0

Beams Cont...

Beam	Node A	Node B	Length (m)	Property	β (degrees)
8934	3788	3787	1.971	19	0
8935	3789	3788	1.971	19	0
8936	3790	3854	1.935	38	0
8937	3791	3790	1.633	38	0
8938	3711	3589	1.637	36	0
8939	3710	3711	1.633	36	0
8940	3792	3638	1.954	23	0
8941	3793	3792	1.954	23	0
8942	3794	3793	1.954	23	0
8943	3795	3794	1.954	23	0
8944	3796	3795	1.954	23	0
8945	3797	3796	1.954	23	0
8946	3798	3639	1.974	23	0
8947	3799	3798	1.973	23	0
8948	3800	3799	1.973	23	0
8949	3801	3800	1.973	23	0
8950	3802	3801	1.973	23	0
8951	3803	3802	1.973	23	0
8952	3806	3805	1.971	23	0
8954	3808	5471	2.017	19	0
8956	3708	5485	2.017	33	0
8958	3873	3918	0.990	19	0
8959	3812	3833	1.973	23	0
8960	3813	3812	1.973	23	0
8961	3814	3657	1.393	23	0
8962	3815	3814	2.013	23	0
8963	3816	3815	1.954	23	0
8964	3818	5323	1.857	23	0
8965	3819	3818	1.875	23	0
8966	3820	3648	1.978	23	0
8967	3821	3820	1.983	23	0
8968	3822	3821	1.983	23	0
8969	3748	3717	2.450	13	0
8970	3747	3718	2.450	13	0
8971	3746	3719	2.450	13	0
8972	3745	3720	2.450	13	0
8973	3744	3721	2.450	13	0
8974	3753	3722	2.450	13	0
8975	3752	3723	2.450	13	0
8976	3751	3724	2.450	13	0
8977	3750	3725	2.450	13	0
8978	3749	3726	2.450	13	0
8979	3758	3727	2.450	13	0
8980	3757	3728	2.450	13	0
8981	3756	3729	2.450	13	0
8982	3755	3730	2.450	13	0
8983	3754	3731	2.450	13	0
8984	3763	3732	2.450	13	0
8985	3762	3733	2.450	13	0
8986	3761	3734	2.450	13	0
8987	3760	3735	2.450	13	0
8988	3759	3736	2.450	13	0
8989	3797	3777	1.250	13	0
8990	3796	3776	1.250	19	0

Beams Cont...

Beam	Node A	Node B	Length (m)	Property	β (degrees)
8991	3795	3775	1.251	13	0
8992	3794	3774	1.250	13	0
8993	3793	3773	1.250	13	0
8994	3792	3772	1.251	13	0
8995	3803	3783	1.250	13	0
8996	3801	3781	1.250	13	0
8997	3800	3780	1.250	13	0
8998	3799	3779	1.250	13	0
8999	3798	3778	1.250	13	0
9000	3802	3782	1.250	13	0
9001	3806	3789	1.251	13	0
9002	3805	3788	1.250	13	0
9003	3804	3787	1.251	13	0
9004	3710	3899	5.018	32	0
9005	3711	3900	6.216	32	0
9006	3708	3929	4.795	32	0
9007	3823	3824	1.983	23	0
9008	3824	3825	1.983	23	0
9009	3825	3826	1.983	23	0
9010	3826	3827	1.983	23	0
9011	3827	3828	1.983	23	0
9012	3828	3635	1.981	23	0
9016	3658	3841	4.425	26	0
9017	3657	3839	4.358	26	0
9018	3833	3834	1.973	23	0
9019	3834	3835	1.973	23	0
9020	3835	3836	1.973	23	0
9021	3836	3658	0.583	23	0
9022	3837	3838	1.633	23	0
9023	3838	3636	1.629	23	0
9024	3837	3790	3.044	32	0
9025	3838	3791	3.049	13	0
9026	3839	3840	1.646	26	0
9027	3815	3839	2.770	32	0
9028	3816	3676	4.319	32	0
9029	3840	3676	0.789	26	0
9030	3840	3846	1.706	32	0
9031	3841	3690	0.784	26	0
9032	3653	3842	1.950	32	0
9033	3842	3843	1.950	32	0
9034	3843	3844	1.950	32	0
9035	3844	3845	1.950	32	0
9036	3845	3841	1.723	32	0
9037	3842	3686	0.750	13	0
9038	3843	3687	0.750	13	0
9039	3844	3688	0.750	13	0
9040	3845	3689	0.750	13	0
9041	3846	3847	1.950	32	0
9042	3847	3848	1.950	32	0
9043	3848	3849	1.950	32	0
9044	3849	3651	1.950	32	0
9045	3846	3677	0.750	13	0
9046	3847	3678	0.750	13	0
9047	3848	3679	0.750	13	0

Beams Cont...

Beam	Node A	Node B	Length (m)	Property	β (degrees)
9048	3849	3680	0.750	13	0
9049	3850	5504	2.017	23	0
9051	3850	3808	1.248	13	0
9052	5504	5471	1.244	19	0
9053	3852	3853	1.955	36	0
9054	3853	3710	1.956	36	0
9055	3854	3855	1.955	38	0
9056	3854	3853	6.165	32	0
9057	3855	3642	0.785	38	0
9058	3855	3852	6.189	13	0
9059	3856	3857	1.973	19	0
9060	3857	3646	1.973	19	0
9061	3858	3647	1.723	33	0
9062	3856	3858	6.131	32	0
9063	3857	3647	6.148	13	0
9064	3859	3860	1.955	23	0
9065	3860	3837	1.926	23	0
9066	3859	3855	3.032	13	0
9067	3860	3854	3.038	32	0
9068	3861	3862	2.007	23	0
9069	3862	3645	2.388	23	0
9070	3861	3856	1.242	13	0
9071	3862	3857	1.239	13	0
9072	3858	3923	4.653	32	0
9074	3863	3864	1.950	32	0
9075	3864	3865	1.950	32	0
9076	3865	3866	1.950	32	0
9077	3866	3867	1.950	32	0
9078	3867	3652	1.950	32	0
9079	3863	3671	0.750	13	0
9080	3864	3672	0.750	13	0
9081	3865	3673	0.750	13	0
9082	3866	3674	0.750	13	0
9083	3867	3675	0.750	13	0
9084	3662	3868	4.163	32	0
9085	3663	3869	4.157	32	0
9086	3664	3870	4.151	32	0
9087	3871	3654	1.660	23	0
9088	3579	3871	2.322	32	0
9089	3811	3810	1.976	23	0
9090	3810	3809	1.939	23	0
9091	3809	3868	2.013	23	0
9092	3868	3869	1.976	23	0
9093	3869	3870	1.976	23	0
9094	3870	3650	1.976	23	0
9095	3805	3804	1.971	23	0
9096	3804	3830	1.971	23	0
9097	3830	3831	1.971	23	0
9098	3831	3832	1.971	23	0
9099	3832	3640	1.973	23	0
9102	3882	3886	1.322	23	0
9103	3882	3889	2.271	23	0
9104	3829	3883	0.993	23	0
9105	3883	3885	1.628	19	0

Beams Cont...

Beam	Node A	Node B	Length (m)	Property	β (degrees)
9107	3885	3770	1.667	13	0
9108	3885	3884	2.047	19	0
9109	3886	3903	1.917	23	0
9110	3886	3887	1.843	19	0
9111	3888	3603	1.843	19	0
9112	3889	3890	1.841	23	0
9113	3890	3637	1.842	23	0
9114	3889	3887	1.250	13	0
9115	3890	3888	1.250	13	0
9116	3891	3897	1.423	19	0
9117	3852	3896	1.629	46	0
9118	3892	3895	2.264	23	0
9119	3891	3892	2.544	23	0
9121	3893	3891	3.765	23	0
9123	3644	3896	2.686	32	0
9124	3894	3716	2.433	13	0
9125	3897	3895	2.418	13	0
9126	3894	3597	2.167	19	0
9127	3897	3894	1.967	19	0
9128	3895	3716	1.967	23	0
9130	3893	3897	3.471	13	0
9131	3896	3893	6.614	46	0
9133	3900	3584	2.213	19	0
9134	3899	5694	1.700	19	0
9138	3817	5330	1.879	23	0
9142	5323	3817	1.874	23	0
9145	3887	3888	1.843	19	0
9146	3903	3887	1.976	26	0
9147	5324	5329	1.780	26	0
9148	3907	3908	1.898	26	0
9149	3908	3909	1.898	26	0
9150	3909	3910	1.898	26	0
9151	3910	3903	1.898	26	0
9153	3907	6283	3.869	32	0
9154	3908	6284	3.735	32	0
9155	3909	6285	3.601	32	0
9156	3910	6286	3.466	32	0
9162	3903	6287	3.327	32	0
9163	3887	6288	3.257	13	0
9164	5322	3817	4.191	32	0
9166	5325	5330	3.744	32	0
9167	3917	3656	0.487	23	0
9168	5326	3917	3.200	32	0
9169	3918	3649	1.358	19	0
9170	5327	3918	2.205	32	0
9172	3601	3932	2.054	19	0
9173	3921	3920	2.581	23	0
9176	3921	3922	3.132	23	0
9177	3924	3922	4.528	46	0
9178	3924	3928	1.895	23	0
9180	3738	3920	2.330	23	0
9184	3928	3929	1.706	23	0
9185	3929	5548	2.018	23	0
9187	5485	5549	1.800	19	0

Beams Cont...

Beam	Node A	Node B	Length (m)	Property	β (degrees)
9188	5702	3932	6.873	13	0
9190	3931	3921	1.443	19	0
9191	3932	3931	2.053	19	0
9194	3932	3737	2.440	13	0
9196	3931	3738	2.430	13	0
9537	3959	4109	1.950	19	0
9538	3960	4114	1.950	19	0
9539	3961	4119	1.950	19	0
9540	3962	4124	1.950	19	0
9541	3946	4038	1.950	19	0
9542	3947	4033	1.950	19	0
9543	3948	4043	1.950	19	0
9544	3949	4048	1.950	19	0
9545	3946	3982	1.600	33	0
9546	3947	3983	1.600	19	0
9547	3948	6444	1.400	19	0
9548	3949	6445	1.400	19	0
9549	3950	6446	1.400	33	0
9550	3968	3970	1.950	33	0
9551	3938	4017	2.350	63	0
9552	3964	3971	1.950	19	0
9553	3965	3972	1.950	19	0
9554	3966	3973	1.950	19	0
9555	3967	3974	1.950	19	0
9556	3951	3938	1.796	63	0
9557	3952	3939	1.796	19	0
9558	3953	3940	1.796	19	0
9559	3954	3941	1.796	19	0
9560	3969	3975	1.950	19	0
9561	3955	3942	1.796	19	0
9562	3952	4074	1.876	33	0
9563	3956	4234	1.839	19	0
9564	3968	4130	1.982	19	0
9565	3964	4132	1.879	19	0
9566	3965	4138	1.976	19	0
9567	3956	4021	1.967	33	0
9568	3953	4027	1.973	33	0
9569	3966	4144	1.974	19	0
9570	3954	4066	1.975	33	0
9571	3944	4068	0.690	33	0
9572	3941	4016	2.854	33	0
9573	3945	3955	1.958	33	0
9574	3944	3943	2.250	44	0
9577	3943	4076	2.490	44	0
9578	3951	4053	2.036	33	0
9579	3957	4055	2.060	33	0
9580	4054	4057	1.987	33	0
9581	3942	4271	3.050	19	0
9582	3967	4150	1.972	19	0
9583	3970	3976	2.500	33	0
9584	3971	3977	2.500	19	0
9585	3972	3978	2.500	19	0
9586	3973	3979	2.500	19	0
9587	3974	3980	2.500	19	0

Beams Cont...

Beam	Node A	Node B	Length (m)	Property	β (degrees)
9588	3975	3981	2.500	19	0
9589	3976	3951	1.650	33	0
9590	3977	3952	1.650	19	0
9591	3978	3956	1.650	19	0
9592	3979	3953	1.650	19	0
9593	3980	3954	1.650	19	0
9594	3981	3955	1.650	19	0
9595	3982	3987	3.400	33	0
9596	3983	3988	3.400	19	0
9597	3984	3989	3.400	19	0
9598	3985	3990	3.400	19	0
9599	3986	3991	3.400	33	0
9600	3987	3959	1.750	33	0
9601	3988	3960	1.750	19	0
9602	3989	6434	1.070	19	0
9603	3990	6435	1.070	19	0
9604	3991	6436	1.070	33	0
9605	4003	4004	3.071	23	0
9606	4003	4220	0.204	23	0
9607	3998	4184	1.984	23	0
9608	3997	4190	1.881	23	0
9609	3998	3968	3.054	33	0
9610	3997	3964	3.054	19	0
9611	4004	4005	6.322	23	0
9612	3968	4152	1.633	38	0
9613	4005	4006	1.269	23	0
9614	3959	3992	2.450	33	0
9615	3960	3993	2.450	19	0
9616	3961	3994	2.450	19	0
9617	3962	3995	2.450	19	0
9618	3963	3996	2.450	33	0
9619	3992	4078	1.950	23	0
9620	3993	4083	1.950	23	0
9621	3994	4088	1.950	23	0
9622	3995	4093	1.950	23	0
9623	3996	4098	2.060	23	0
9624	4005	4213	1.955	36	0
9625	3999	4158	1.984	23	0
9626	4000	4164	1.972	23	0
9627	4001	4167	1.970	23	0
9628	4002	3969	1.250	19	0
9629	4001	3967	1.250	19	0
9630	4000	3966	1.250	19	0
9631	3999	3965	1.250	19	0
9632	4007	4008	1.330	23	0
9633	4008	4009	6.544	23	0
9634	3969	4169	1.684	19	0
9635	4002	4211	1.682	23	0
9636	4009	4266	4.947	23	0
9637	3955	4070	1.682	33	0
9638	4011	4172	1.942	67	0
9639	4013	3947	0.750	19	0
9640	4014	3948	0.750	19	0
9641	4015	3949	0.750	19	0

Beams Cont...

Beam	Node A	Node B	Length (m)	Property	β (degrees)
9642	4013	5876	0.236	67	0
9643	4014	5861	0.601	67	0
9644	3939	4010	2.352	19	0
9645	3940	4012	2.349	19	0
9647	4012	4174	1.972	67	0
9648	4017	3946	3.280	63	0
9649	4017	4177	1.800	67	0
9650	4021	4022	1.967	33	0
9651	4010	4180	1.881	67	0
9652	4018	4011	0.314	67	0
9653	4019	4183	0.590	67	0
9654	4020	4232	1.389	67	0
9655	4022	4023	1.967	33	0
9656	4023	4024	1.967	33	0
9657	4024	4025	1.967	33	0
9658	4025	4026	1.967	33	0
9659	4026	3953	1.967	33	0
9660	4027	4028	1.973	33	0
9661	4028	4029	1.973	33	0
9662	4029	4030	1.973	33	0
9663	4030	4031	1.973	33	0
9664	4031	4032	1.973	33	0
9665	4032	3954	1.973	33	0
9666	4033	4034	1.950	19	0
9667	4034	4035	1.950	19	0
9668	4035	4036	1.950	19	0
9669	4036	4037	1.950	19	0
9670	4037	3948	1.950	19	0
9671	4038	4039	1.950	19	0
9672	4039	4040	1.950	19	0
9673	4040	4041	1.950	19	0
9674	4041	4042	1.950	19	0
9675	4042	3947	1.950	19	0
9676	4043	4044	1.950	19	0
9677	4044	4045	1.950	19	0
9678	4045	4046	1.950	19	0
9679	4046	4047	1.950	19	0
9680	4047	3949	1.950	19	0
9681	4048	4049	1.950	19	0
9682	4049	4050	1.950	19	0
9683	4050	4051	1.950	19	0
9684	4051	4052	1.950	19	0
9685	4052	3950	1.950	19	0
9686	4053	3957	1.907	33	0
9688	4055	5733	0.730	33	0
9689	4056	3952	1.993	33	0
9690	4057	4056	1.993	33	0
9697	4064	3944	1.284	33	0
9698	4065	5381	0.900	33	0
9699	4066	4065	1.975	33	0
9700	4067	3945	2.037	33	0
9701	4068	4067	1.971	33	0
9702	4016	3950	3.763	33	0
9703	4074	4075	1.876	33	0

Beams Cont...

Beam	Node A	Node B	Length (m)	Property	β (degrees)
9704	4075	4289	1.856	33	0
9705	4076	5715	1.226	44	0
9706	4138	4021	6.100	13	0
9707	4137	4022	6.100	13	0
9708	4136	4023	6.100	13	0
9709	4135	4024	6.100	13	0
9710	4134	4025	6.100	13	0
9711	4133	4026	6.100	13	0
9712	4144	4027	6.100	13	0
9713	4143	4028	6.100	13	0
9714	4142	4029	6.100	13	0
9715	4141	4030	6.100	13	0
9716	4140	4031	6.100	13	0
9717	4139	4032	6.100	13	0
9718	4038	4109	6.750	13	0
9719	4039	4108	6.750	13	0
9720	4040	4107	6.750	13	0
9721	4041	4106	6.750	13	0
9722	4042	4105	6.750	13	0
9723	4033	4114	6.750	13	0
9724	4034	4113	6.750	13	0
9725	4035	4112	6.750	13	0
9726	4036	4111	6.750	13	0
9727	4037	4110	6.750	13	0
9728	4043	4119	6.750	13	0
9729	4044	4118	6.750	13	0
9730	4045	6448	1.408	44	0
9731	4046	4116	6.750	13	0
9732	4047	4115	6.750	13	0
9733	4048	4124	6.750	13	0
9734	4049	4123	6.750	13	0
9735	4050	6447	1.408	44	0
9736	4051	4121	6.750	13	0
9737	4052	4120	6.750	13	0
9738	4130	4053	5.629	13	0
9739	4129	3957	5.629	13	0
9740	4128	4055	5.619	13	0
9741	4127	4054	5.610	13	0
9742	4126	4057	5.730	13	0
9743	4125	4056	5.915	13	0
9744	4053	4177	4.610	32	0
9748	4057	4182	4.516	32	0
9749	4056	4181	4.332	32	0
9750	4184	4130	3.054	13	0
9751	4185	4129	3.054	13	0
9752	4186	4128	3.054	13	0
9753	4187	4127	3.054	13	0
9754	4188	4126	3.054	13	0
9755	4189	4125	3.054	13	0
9756	4028	4173	4.137	32	0
9757	4029	4194	4.133	32	0
9758	4030	4195	4.129	32	0
9759	4031	4196	4.126	32	0
9760	4032	4197	4.122	32	0

Beams Cont...

Beam	Node A	Node B	Length (m)	Property	β (degrees)
9761	4021	4172	4.182	32	0
9762	4022	4171	4.176	32	0
9763	4023	4170	4.170	32	0
9764	4027	4174	4.141	32	0
9765	4150	4066	5.977	13	0
9766	4149	4065	5.854	13	0
9767	4148	4064	5.732	13	0
9768	4147	4068	5.652	13	0
9769	4146	4067	5.651	13	0
9770	4145	3945	5.651	13	0
9771	4191	4147	1.250	13	0
9772	4192	4146	1.250	13	0
9773	4193	4145	1.250	13	0
9774	4066	4016	4.252	32	0
9780	3945	4267	5.353	32	0
9781	4067	5711	5.415	32	0
9782	4061	5707	3.225	32	0
9783	4064	4076	4.285	32	0
9784	4065	5716	4.889	32	0
9786	4260	4254	6.750	13	0
9787	4169	4070	6.100	13	0
9788	5472	5513	1.950	19	0
9789	4151	4072	6.110	32	0
9790	4152	4073	6.105	13	0
9791	4190	4132	3.054	13	0
9792	4132	4074	6.026	13	0
9793	4131	4075	5.951	13	0
9795	4074	4180	4.159	32	0
9796	4075	4179	4.170	32	0
9797	4077	3992	2.167	23	0
9798	4078	4079	1.950	23	0
9799	4079	4080	1.950	23	0
9800	4080	4081	1.950	23	0
9801	4081	4082	1.950	23	0
9802	4082	3993	1.950	23	0
9803	4083	4084	1.950	23	0
9804	4084	4085	1.950	23	0
9805	4085	4086	1.950	23	0
9806	4086	4087	1.950	23	0
9807	4087	3994	1.950	23	0
9808	4088	4089	1.950	23	0
9809	4089	4090	1.950	23	0
9810	4090	4091	1.950	23	0
9811	4091	4092	1.950	23	0
9812	4092	3995	1.950	23	0
9813	4093	4094	1.950	23	0
9814	4094	4095	1.950	23	0
9815	4095	4096	1.950	23	0
9816	4096	4097	1.950	23	0
9817	4097	3996	1.950	23	0
9818	4098	4099	2.060	23	0
9819	4100	4015	1.950	67	0
9820	4101	5856	0.880	67	0
9821	4102	5858	0.142	67	0

Beams Cont...

Beam	Node A	Node B	Length (m)	Property	β (degrees)
9822	4103	4102	1.950	67	0
9823	4104	5859	1.355	67	0
9824	4104	4043	0.750	13	0
9825	4103	4044	0.750	13	0
9826	4102	4045	0.750	13	0
9827	4101	4046	0.750	13	0
9828	4100	4047	0.750	13	0
9829	4105	3960	1.950	19	0
9830	4106	4105	1.950	19	0
9831	4107	4106	1.950	19	0
9832	4108	4107	1.950	19	0
9833	4109	4108	1.950	19	0
9834	4110	3961	1.950	19	0
9835	4111	4110	1.950	19	0
9836	4112	4111	1.950	19	0
9837	4113	4112	1.950	19	0
9838	4114	4113	1.950	19	0
9839	4115	3962	1.950	19	0
9840	4116	4115	1.950	19	0
9841	4117	4116	1.950	19	0
9842	4118	4117	1.950	19	0
9843	4119	4118	1.950	19	0
9844	4120	3963	1.950	19	0
9845	4121	4120	1.950	19	0
9846	4122	4121	1.950	19	0
9847	4123	4122	1.950	19	0
9848	4124	4123	1.950	19	0
9849	4125	3964	1.983	19	0
9850	4126	4125	1.983	19	0
9851	4127	4126	1.983	19	0
9852	4128	4127	1.983	19	0
9853	4129	4128	1.983	19	0
9854	4130	4129	1.983	19	0
9855	4131	4244	1.126	19	0
9856	4132	4131	1.879	19	0
9857	4133	3966	1.955	19	0
9858	4134	4133	1.955	19	0
9859	4135	4134	1.955	19	0
9860	4136	4135	1.955	19	0
9861	4137	4136	1.955	19	0
9862	4138	4137	1.955	19	0
9863	4139	3967	1.972	19	0
9864	4140	4139	1.973	19	0
9865	4141	4140	1.973	19	0
9866	4142	4141	1.973	19	0
9867	4143	4142	1.973	19	0
9868	4144	4143	1.973	19	0
9869	4145	3969	1.972	19	0
9870	4146	4145	1.971	19	0
9871	4147	4146	1.971	19	0
9872	4148	4147	1.971	19	0
9873	4149	4148	1.971	19	0
9874	4150	4149	1.971	19	0
9875	4151	4215	1.935	38	0

Beams Cont...

Beam	Node A	Node B	Length (m)	Property	β (degrees)
9876	4152	4151	1.633	38	0
9877	4073	3951	1.637	36	0
9878	4072	4073	1.633	36	0
9879	4153	4000	1.954	23	0
9880	4154	4153	1.954	23	0
9881	4155	4154	1.954	23	0
9882	4156	4155	1.954	23	0
9883	4157	4156	1.954	23	0
9884	4158	4157	1.954	23	0
9885	4159	4001	1.974	23	0
9886	4160	4159	1.973	23	0
9887	4161	4160	1.973	23	0
9888	4162	4161	1.973	23	0
9889	4163	4162	1.973	23	0
9890	4164	4163	1.973	23	0
9891	4167	4166	1.971	23	0
9893	4169	5472	2.017	19	0
9895	4070	5486	2.017	33	0
9897	4173	4194	1.973	67	0
9898	4174	4173	1.973	67	0
9899	4175	4019	1.393	67	0
9900	4176	4175	2.013	67	0
9901	4177	4176	1.954	67	0
9902	4179	4287	1.837	67	0
9903	4180	5875	0.937	67	0
9904	4181	5873	0.989	67	0
9905	4182	4181	1.983	67	0
9906	4183	5871	0.992	67	0
9907	4109	4078	2.450	13	0
9908	4108	4079	2.450	13	0
9909	4107	4080	2.450	13	0
9910	4106	4081	2.450	13	0
9911	4105	4082	2.450	13	0
9912	4114	4083	2.450	13	0
9913	4113	4084	2.450	13	0
9914	4112	4085	2.450	13	0
9915	4111	4086	2.450	13	0
9916	4110	4087	2.450	13	0
9917	4119	4088	2.450	13	0
9918	4118	4089	2.450	13	0
9919	4117	4090	2.450	13	0
9920	4116	4091	2.450	13	0
9921	4115	4092	2.450	13	0
9922	4124	4093	2.450	13	0
9923	4123	4094	2.450	13	0
9924	4122	4095	2.450	13	0
9925	4121	4096	2.450	13	0
9926	4120	4097	2.450	13	0
9927	4158	4138	1.250	13	0
9928	4157	4137	1.250	13	0
9929	4156	4136	1.251	13	0
9930	4155	4135	1.250	13	0
9931	4154	4134	1.250	13	0
9932	4153	4133	1.251	13	0

Beams Cont...

Beam	Node A	Node B	Length (m)	Property	β (degrees)
9933	4164	4144	1.250	13	0
9934	4162	4142	1.250	13	0
9935	4161	4141	1.250	13	0
9936	4160	4140	1.250	13	0
9937	4159	4139	1.250	13	0
9938	4163	4143	1.250	13	0
9939	4167	4150	1.251	13	0
9940	4166	4149	1.250	13	0
9941	4165	4148	1.251	13	0
9942	4072	4297	4.126	32	0
9944	4070	4272	4.795	32	0
9945	4184	4185	1.983	23	0
9946	4185	4186	1.983	23	0
9947	4186	4187	1.983	23	0
9948	4187	4188	1.983	23	0
9949	4188	4189	1.983	23	0
9950	4189	3997	1.981	23	0
9954	4020	4202	4.425	23	0
9955	4019	4200	4.358	23	0
9956	4194	5853	1.381	67	0
9957	4195	4196	1.973	67	0
9958	4196	4197	1.973	67	0
9959	4197	4020	0.583	67	0
9960	4198	4199	1.633	23	0
9961	4199	3998	1.629	23	0
9962	4198	4151	3.044	32	0
9963	4199	4152	3.049	13	0
9964	4200	4201	1.646	23	0
9965	4176	4200	2.770	32	0
9966	4177	4038	4.319	32	0
9967	4201	4038	0.789	23	0
9968	4201	4207	1.706	67	0
9969	4202	4052	0.784	23	0
9970	4015	5855	0.557	67	0
9971	4203	5854	1.648	67	0
9972	4204	4205	1.950	67	0
9974	4206	4202	1.723	67	0
9975	4203	4048	0.750	13	0
9976	4204	4049	0.750	13	0
9977	4205	4050	0.750	13	0
9978	4206	4051	0.750	13	0
9980	4208	4209	1.950	67	0
9983	4207	4039	0.750	13	0
9984	4208	4040	0.750	13	0
9985	4209	4041	0.750	13	0
9986	4210	4042	0.750	13	0
9987	4211	5505	2.017	23	0
9989	4211	4169	1.248	13	0
9990	5505	5472	1.244	19	0
9991	4213	4214	1.955	36	0
9992	4214	4072	1.956	36	0
9993	4215	4216	1.955	38	0
9994	4215	4214	6.165	32	0
9995	4216	4004	0.785	38	0

Beams Cont...

Beam	Node A	Node B	Length (m)	Property	β (degrees)
9996	4216	4213	6.189	13	0
9997	4217	4218	1.973	19	0
9998	4218	4008	1.973	19	0
9999	4219	4009	1.723	33	0
10000	4217	4219	6.131	32	0
10001	4218	4009	6.148	13	0
10002	4220	4221	1.955	23	0
10003	4221	4198	1.926	23	0
10004	4220	4216	3.032	13	0
10005	4221	4215	3.038	32	0
10006	4222	4223	2.007	23	0
10007	4223	4007	2.388	23	0
10008	4222	4217	1.242	13	0
10009	4223	4218	1.239	13	0
10010	4219	4266	4.653	32	0
10012	4224	5870	1.423	67	0
10013	4225	4226	1.950	67	0
10014	4226	5863	1.735	67	0
10015	4227	5862	1.831	67	0
10016	4228	4014	1.950	67	0
10017	4224	4033	0.750	13	0
10018	4225	4034	0.750	13	0
10019	4226	4035	0.750	13	0
10020	4227	4036	0.750	13	0
10021	4228	4037	0.750	13	0
10022	4024	4229	4.163	32	0
10023	4025	4230	4.157	32	0
10024	4026	4231	4.151	32	0
10025	4232	4016	1.660	67	0
10026	3941	4232	2.322	32	0
10027	4172	4171	1.976	67	0
10028	4171	5860	0.969	67	0
10029	4170	4229	2.013	67	0
10030	4229	4230	1.976	67	0
10031	4230	5857	0.988	67	0
10032	4231	4012	1.976	67	0
10033	4166	4165	1.971	23	0
10034	4165	4191	1.971	23	0
10035	4191	4192	1.971	23	0
10036	4192	4193	1.971	23	0
10037	4193	4002	1.973	23	0
10040	4243	4246	1.322	23	0
10041	4243	4249	2.271	23	0
10042	4190	4279	0.993	23	0
10043	4279	4245	1.628	23	0
10044	4244	4282	1.367	23	0
10045	4245	4131	1.667	13	0
10046	4245	4244	2.047	23	0
10047	4246	4247	1.843	19	0
10048	4248	3965	1.843	19	0
10049	4249	4250	1.841	23	0
10050	4250	3999	1.842	23	0
10051	4249	4247	1.250	13	0
10052	4250	4248	1.250	13	0

Beams Cont...

Beam	Node A	Node B	Length (m)	Property	β (degrees)
10053	4251	4257	1.423	19	0
10054	4213	4256	1.629	26	0
10055	4252	4255	2.264	23	0
10056	4251	4252	2.544	23	0
10058	4253	4251	3.765	23	0
10059	4256	4294	2.604	26	0
10060	4006	4256	2.686	23	0
10061	4254	4077	2.433	13	0
10062	4257	4255	2.418	13	0
10063	4254	3959	2.167	19	0
10064	4257	4254	1.967	19	0
10065	4255	4077	1.967	23	0
10067	4253	4257	3.471	13	0
10070	4260	3946	2.213	19	0
10075	4287	5869	0.947	67	0
10076	4247	4248	1.843	19	0
10077	4234	4011	2.349	19	0
10078	3963	4275	2.054	19	0
10079	4264	4263	2.581	23	0
10082	4264	5709	4.199	23	0
10084	4267	4271	1.895	23	0
10086	4099	4263	2.330	23	0
10090	4271	4272	1.706	23	0
10091	4272	5551	2.018	23	0
10093	5486	5552	1.800	19	0
10094	5714	4275	6.750	13	0
10096	4274	4264	1.443	19	0
10097	4275	4274	2.053	19	0
10100	4275	4098	2.440	13	0
10102	4274	4099	2.430	13	0
10103	5709	4274	3.935	13	0
10107	4281	4280	2.286	23	0
10108	4282	4281	3.412	23	0
10109	4280	4178	4.383	23	0
10110	4246	4284	4.094	23	0
10111	4283	4285	1.401	23	0
10112	4284	4283	2.729	23	0
10113	4285	4018	3.285	23	0
10114	4248	4286	6.100	13	0
10115	4247	4284	3.660	13	0
10116	4283	4286	0.628	33	0
10117	4286	4285	1.252	13	0
10118	4286	3956	1.798	33	0
10119	4282	4289	4.764	13	0
10120	4281	4288	1.911	13	0
10121	4288	4280	1.263	33	0
10122	4289	4288	1.890	33	0
10123	4289	4287	4.180	32	0
10124	4288	4178	4.191	32	0
10463	4293	4260	0.506	19	0
10464	4253	4293	3.557	23	0
10466	4294	4296	0.706	23	0
10467	4295	4017	1.824	23	0
10468	4073	4295	4.132	32	0

Beams Cont...

Beam	Node A	Node B	Length (m)	Property	β (degrees)
10469	4296	4297	1.967	23	0
10470	4214	4296	4.070	32	0
10472	4297	4295	1.634	23	0
10475	4017	4293	2.711	23	0
10493	4329	4331	1.950	19	0
10494	4299	4378	2.350	19	0
10495	4325	4332	1.950	19	0
10496	4326	4333	1.950	19	0
10497	4327	4334	1.950	19	0
10498	4328	4335	1.950	19	0
10499	4312	4299	1.796	19	0
10500	4313	4300	1.796	19	0
10501	4314	4301	1.796	19	0
10502	4315	4302	1.796	19	0
10503	4330	4336	1.950	19	0
10504	4316	4303	1.796	19	0
10505	4313	4435	1.876	19	0
10506	4317	4596	1.839	19	0
10507	4329	4492	1.982	19	0
10508	4325	4494	1.879	19	0
10509	4326	4500	1.976	19	0
10510	4317	4382	1.967	33	0
10511	4314	4388	1.973	33	0
10512	4327	4506	1.974	19	0
10513	4315	4427	1.975	51	0
10514	4305	4429	0.690	51	0
10516	4306	4316	1.958	51	0
10521	4312	4414	2.036	33	0
10522	4318	4416	2.060	33	0
10523	4415	4418	1.987	33	0
10524	4303	4659	2.307	19	0
10525	4328	4512	1.972	19	0
10526	4331	4337	2.500	19	0
10527	4332	4338	2.500	19	0
10528	4333	4339	2.500	19	0
10529	4334	4340	2.500	19	0
10530	4335	4341	2.500	19	0
10531	4336	4342	2.500	19	0
10532	4337	4312	1.650	19	0
10533	4338	4313	1.650	19	0
10534	4339	4317	1.650	19	0
10535	4340	4314	1.650	19	0
10536	4341	4315	1.650	19	0
10537	4342	4316	1.650	19	0
10548	4364	4365	3.071	23	0
10549	4364	4582	0.204	23	0
10550	4359	4546	1.984	23	0
10551	4358	4552	1.881	23	0
10552	4359	4329	3.054	19	0
10553	4358	4325	3.054	19	0
10554	4365	4366	6.322	23	0
10555	4329	4514	1.633	38	0
10556	4366	4367	1.269	23	0
10567	4366	4575	1.955	36	0

Beams Cont...

Beam	Node A	Node B	Length (m)	Property	β (degrees)
10568	4360	4520	1.984	23	0
10569	4361	4526	1.972	23	0
10570	4362	4529	1.970	23	0
10571	4363	4330	1.250	19	0
10572	4362	4328	1.250	19	0
10573	4361	4327	1.250	19	0
10574	4360	4326	1.250	19	0
10575	4368	4369	1.330	23	0
10576	4369	4370	6.544	23	0
10577	4330	4531	1.684	19	0
10578	4363	4573	1.682	23	0
10579	4370	4661	4.344	23	0
10580	4316	4431	1.682	33	0
10581	4372	4534	1.942	23	0
10587	4300	4371	2.352	19	0
10588	4301	4373	2.349	19	0
10590	4373	4536	1.972	23	0
10592	4378	4539	1.800	23	0
10593	4382	4383	1.967	33	0
10594	4371	4542	1.881	23	0
10595	4379	4372	0.314	23	0
10597	4559	4594	1.973	23	0
10598	4383	4384	1.967	33	0
10599	4384	4385	1.967	33	0
10600	4385	4386	1.967	33	0
10601	4386	4387	1.967	33	0
10602	4387	4314	1.967	33	0
10603	4388	4389	1.973	33	0
10604	4389	4390	1.973	33	0
10605	4390	4391	1.973	33	0
10606	4391	4392	1.973	33	0
10607	4392	4393	1.973	33	0
10608	4393	4315	1.973	33	0
10629	4414	4318	1.907	33	0
10631	4416	5734	0.730	33	0
10632	4417	4313	1.993	33	0
10633	4418	4417	1.993	33	0
10640	4425	4305	1.284	51	0
10641	4426	5382	0.900	51	0
10642	4427	4426	1.975	51	0
10643	4428	4306	2.037	51	0
10644	4429	4428	1.971	51	0
10646	4435	4436	1.876	35	0
10647	4436	4437	1.876	35	0
10649	4500	4382	6.100	13	0
10650	4499	4383	6.100	13	0
10651	4498	4384	6.100	13	0
10652	4497	4385	6.100	13	0
10653	4496	4386	6.100	13	0
10654	4495	4387	6.100	13	0
10655	4506	4388	6.100	13	0
10656	4505	4389	6.100	13	0
10657	4504	4390	6.100	13	0
10658	4503	4391	6.100	19	0

Beams Cont...

Beam	Node A	Node B	Length (m)	Property	β (degrees)
10659	4502	4392	6.100	13	0
10660	4501	4393	6.100	13	0
10681	4492	4414	5.629	13	0
10682	4491	4318	5.629	13	0
10683	4490	4416	5.619	13	0
10684	4489	4415	5.610	13	0
10685	4488	4418	5.730	19	0
10686	4487	4417	5.915	13	0
10687	4414	4539	4.610	32	0
10688	4318	4538	4.613	32	0
10689	4416	4537	4.624	32	0
10690	4415	4545	4.634	32	0
10691	4418	4544	4.516	19	0
10692	4417	4543	4.332	32	0
10693	4546	4492	3.054	13	0
10694	4547	4491	3.054	13	0
10695	4548	4490	3.054	13	0
10696	4549	4489	3.054	13	0
10697	4550	4488	3.054	19	0
10698	4551	4487	3.054	13	0
10699	4389	4535	4.137	32	0
10700	4390	4556	4.133	32	0
10701	4391	4557	4.129	19	0
10702	4392	4558	4.126	32	0
10703	4393	4559	4.122	32	0
10704	4382	4534	4.182	32	0
10705	4383	4533	4.176	32	0
10706	4384	4532	4.170	32	0
10707	4388	4536	4.141	32	0
10708	4512	4427	5.977	13	0
10709	4511	4426	5.854	13	0
10710	4510	4425	5.732	13	0
10711	4509	4429	5.652	13	0
10712	4508	4428	5.651	13	0
10713	4507	4306	5.651	13	0
10714	4553	4509	1.250	13	0
10715	4554	4508	1.250	13	0
10716	4555	4507	1.250	13	0
10717	4427	4666	4.241	32	0
10718	4426	4665	4.363	32	0
10719	4425	4667	4.486	32	0
10721	4428	4663	4.567	32	0
10722	4306	4662	4.568	32	0
10725	4429	4664	4.566	13	0
10730	4531	4431	6.100	13	0
10731	5473	5514	1.950	19	0
10732	4513	4433	6.110	32	0
10733	4514	4434	6.105	13	0
10734	4552	4494	3.054	13	0
10735	4494	4435	6.026	13	0
10736	4493	4436	5.951	13	0
10738	4435	4542	4.159	32	0
10739	4436	4541	4.170	32	0
10792	4487	4325	1.983	19	0

Beams Cont...

Beam	Node A	Node B	Length (m)	Property	β (degrees)
10793	4488	4487	1.983	19	0
10794	4489	4488	1.983	19	0
10795	4490	4489	1.983	19	0
10796	4491	4490	1.983	19	0
10797	4492	4491	1.983	19	0
10798	4493	4607	1.126	19	0
10799	4494	4493	1.879	19	0
10800	4495	4327	1.955	19	0
10801	4496	4495	1.955	19	0
10802	4497	4496	1.955	19	0
10803	4498	4497	1.955	19	0
10804	4499	4498	1.955	19	0
10805	4500	4499	1.955	19	0
10806	4501	4328	1.972	19	0
10807	4502	4501	1.973	19	0
10808	4503	4502	1.973	19	0
10809	4504	4503	1.973	19	0
10810	4505	4504	1.973	19	0
10811	4506	4505	1.973	19	0
10812	4507	4330	1.972	19	0
10813	4508	4507	1.971	19	0
10814	4509	4508	1.971	19	0
10815	4510	4509	1.971	19	0
10816	4511	4510	1.971	19	0
10817	4512	4511	1.971	19	0
10818	4513	4577	1.935	38	0
10819	4514	4513	1.633	38	0
10820	4434	4312	1.637	36	0
10821	4433	4434	1.633	36	0
10822	4515	4361	1.954	23	0
10823	4516	4515	1.954	23	0
10824	4517	4516	1.954	23	0
10825	4518	4517	1.954	23	0
10826	4519	4518	1.954	23	0
10827	4520	4519	1.954	23	0
10828	4521	4362	1.974	23	0
10829	4522	4521	1.973	23	0
10830	4523	4522	1.973	23	0
10831	4524	4523	1.973	23	0
10832	4525	4524	1.973	23	0
10833	4526	4525	1.973	23	0
10834	4529	4528	1.971	23	0
10836	4531	5473	2.017	19	0
10838	4431	5487	2.017	35	0
10840	4596	4641	0.990	19	0
10841	4535	4556	1.973	23	0
10842	4536	4535	1.973	23	0
10843	4537	4545	1.983	23	0
10844	4538	4537	2.013	23	0
10845	4539	4538	1.954	23	0
10847	4542	4541	1.875	23	0
10848	4543	4371	1.978	23	0
10849	4544	4543	1.983	23	0
10850	4545	4544	1.983	23	0

Beams Cont...

Beam	Node A	Node B	Length (m)	Property	β (degrees)
10871	4520	4500	1.250	13	0
10872	4519	4499	1.250	13	0
10873	4518	4498	1.251	13	0
10874	4517	4497	1.250	13	0
10875	4516	4496	1.250	13	0
10876	4515	4495	1.251	13	0
10877	4526	4506	1.250	13	0
10878	4524	4504	1.250	13	0
10879	4523	4503	1.250	19	0
10880	4522	4502	1.250	13	0
10881	4521	4501	1.250	13	0
10882	4525	4505	1.250	13	0
10883	4529	4512	1.251	13	0
10884	4528	4511	1.250	13	0
10885	4527	4510	1.251	13	0
10886	4433	4672	4.126	32	0
10887	4434	4673	4.135	32	0
10888	4431	4668	4.118	32	0
10889	4546	4547	1.983	23	0
10890	4547	4548	1.983	23	0
10891	4548	4549	1.983	23	0
10892	4549	4550	1.983	23	0
10893	4550	4551	1.983	23	0
10894	4551	4358	1.981	23	0
10900	4556	4557	1.973	23	0
10901	4557	4558	1.973	23	0
10902	4558	4559	1.973	23	0
10904	4560	4561	1.633	23	0
10905	4561	4359	1.629	23	0
10906	4560	4513	3.044	32	0
10907	4561	4514	3.049	13	0
10931	4573	5506	2.017	23	0
10933	4573	4531	1.248	13	0
10934	5506	5473	1.244	19	0
10935	4575	4576	1.955	36	0
10936	4576	4433	1.956	36	0
10937	4577	4578	1.955	38	0
10938	4577	4576	6.165	32	0
10939	4578	4365	0.785	38	0
10940	4578	4575	6.189	13	0
10941	4579	4580	1.973	19	0
10942	4580	4369	1.973	19	0
10943	4581	4370	1.723	35	0
10944	4579	4581	6.131	32	0
10945	4580	4370	6.148	13	0
10946	4582	4583	1.955	23	0
10947	4583	4560	1.926	23	0
10948	4582	4578	3.032	13	0
10949	4583	4577	3.038	32	0
10950	4584	4585	2.007	23	0
10951	4585	4368	2.388	23	0
10952	4584	4579	1.242	13	0
10953	4585	4580	1.239	13	0
10954	4581	4669	4.087	32	0

Beams Cont...

Beam	Node A	Node B	Length (m)	Property	β (degrees)
10955	4576	4660	4.014	32	0
10966	4385	4591	4.163	32	0
10967	4386	4592	4.157	32	0
10968	4387	4593	4.151	32	0
10969	4594	4666	1.971	23	0
10970	4302	4594	2.322	19	0
10971	4534	4533	1.976	23	0
10972	4533	4532	1.939	23	0
10973	4532	4591	2.013	23	0
10974	4591	4592	1.976	23	0
10975	4592	4593	1.976	23	0
10976	4593	4373	1.976	23	0
10977	4528	4527	1.971	23	0
10978	4527	4553	1.971	23	0
10979	4553	4554	1.971	23	0
10980	4554	4555	1.971	23	0
10981	4555	4363	1.973	23	0
10984	4605	4609	1.322	23	0
10985	4605	4612	2.271	23	0
10986	4552	4606	0.993	23	0
10987	4606	4608	1.628	19	0
10989	4608	4493	1.667	13	0
10990	4608	4607	2.047	19	0
10991	4609	4626	1.917	23	0
10992	4609	4610	1.843	19	0
10993	4611	4326	1.843	19	0
10994	4612	4613	1.841	24	0
10995	4613	4360	1.842	24	0
10996	4612	4610	1.250	13	0
10997	4613	4611	1.250	13	0
10999	4575	4619	1.629	26	0
11004	4619	4671	2.604	26	0
11005	4367	4619	2.686	24	0
11020	4540	5336	1.879	25	0
11022	4437	5331	1.870	35	0
11024	4541	5338	1.766	25	0
11027	4610	4611	1.843	19	0
11028	4626	4610	1.976	19	0
11029	5337	5339	1.780	19	0
11030	4630	4631	1.898	19	0
11031	4631	4632	1.898	19	0
11032	4632	4633	1.898	19	0
11033	4633	4626	1.898	19	0
11035	4630	6315	3.869	32	0
11036	4631	6316	3.735	32	0
11037	4632	6312	3.601	32	0
11038	4633	6313	3.466	32	0
11044	4626	6314	3.327	32	0
11045	4610	6317	3.257	32	0
11046	5331	4540	4.191	32	0
11048	5332	5336	3.744	32	0
11049	4640	4379	0.487	25	0
11050	5333	4640	3.200	32	0
11051	4641	4372	1.358	19	0

Beams Cont...

Beam	Node A	Node B	Length (m)	Property	β (degrees)
11052	5334	4641	2.205	32	0
11069	5487	5555	1.800	19	0
11405	4669	4661	0.210	25	0
11407	4668	5554	2.017	25	0
11408	4662	4668	3.612	25	0
11409	4663	4662	2.042	25	0
11410	4664	4663	1.975	25	0
11411	4667	4664	1.974	25	0
11412	4665	4667	1.973	25	0
11413	4666	4665	1.931	25	0
11415	4671	4675	0.706	25	0
11418	4673	4378	1.677	25	0
11419	4672	4673	1.781	25	0
11420	4660	4672	1.860	25	0
11436	4675	4660	0.123	25	0
11437	4696	4698	1.950	19	0
11438	4676	4726	2.350	19	0
11439	4692	4699	1.950	19	0
11440	4693	4700	1.950	19	0
11441	4694	4701	1.950	19	0
11442	4695	4702	1.950	19	0
11443	4684	4676	1.796	19	0
11444	4685	4677	1.796	19	0
11445	4686	4678	1.796	19	0
11446	4687	4679	1.796	19	0
11447	4697	4703	1.950	19	0
11448	4688	4680	1.796	19	0
11449	4685	4760	1.876	35	0
11450	4689	4856	1.839	19	0
11451	4696	4768	1.982	19	0
11452	4692	4770	1.879	19	0
11453	4693	4776	1.976	19	0
11454	4689	4728	1.967	35	0
11455	4686	4734	1.973	35	0
11456	4694	4782	1.974	19	0
11457	4687	4753	1.975	35	0
11458	4682	4755	0.690	35	0
11459	4683	4688	1.958	35	0
11463	4684	4740	2.036	35	0
11464	4690	4742	2.060	35	0
11465	4741	4744	1.987	35	0
11466	4680	4892	2.307	19	0
11467	4695	4788	1.972	19	0
11468	4698	4704	2.500	19	0
11469	4699	4705	2.500	19	0
11470	4700	4706	2.500	19	0
11471	4701	4707	2.500	19	0
11472	4702	4708	2.500	19	0
11473	4703	4709	2.500	19	0
11474	4704	4684	1.650	19	0
11475	4705	4685	1.650	19	0
11476	4706	4689	1.650	19	0
11477	4707	4686	1.650	19	0
11478	4708	4687	1.650	19	0

Beams Cont...

Beam	Node A	Node B	Length (m)	Property	β (degrees)
11479	4709	4688	1.650	19	0
11480	4716	4717	3.071	25	0
11481	4716	4847	0.204	25	0
11482	4711	4822	1.984	25	0
11483	4710	4828	1.881	25	0
11484	4711	4696	3.054	19	0
11485	4710	4692	3.054	19	0
11486	4717	4718	6.322	25	0
11487	4696	4790	1.633	38	0
11488	4718	4719	1.269	25	0
11489	4718	4840	1.955	36	0
11490	4712	4796	1.984	25	0
11491	4713	4802	1.972	25	0
11492	4714	4805	1.970	25	0
11493	4715	4697	1.250	19	0
11494	4714	4695	1.250	19	0
11495	4713	4694	1.250	19	0
11496	4712	4693	1.250	19	0
11497	4720	4721	1.330	25	0
11498	4721	4722	6.544	25	0
11499	4697	4807	1.684	19	0
11500	4715	4838	1.682	25	0
11501	4722	4894	4.344	25	0
11502	4688	4756	1.682	35	0
11503	4724	4810	1.942	25	0
11504	4677	4723	2.352	19	0
11505	4678	4725	2.349	19	0
11506	4725	4812	1.972	25	0
11507	4726	4815	1.800	25	0
11508	4728	4729	1.967	35	0
11509	4723	4818	1.881	25	0
11510	4727	4724	0.314	25	0
11511	4835	4854	1.973	25	0
11512	4729	4730	1.967	35	0
11513	4730	4731	1.967	35	0
11514	4731	4732	1.967	35	0
11515	4732	4733	1.967	35	0
11516	4733	4686	1.967	35	0
11517	4734	4735	1.973	35	0
11518	4735	4736	1.973	35	0
11519	4736	4737	1.973	35	0
11520	4737	4738	1.973	35	0
11521	4738	4739	1.973	35	0
11522	4739	4687	1.973	35	0
11523	4740	4690	1.907	35	0
11525	4742	5735	0.730	35	0
11526	4743	4685	1.993	35	0
11527	4744	4743	1.993	35	0
11534	4751	4682	1.284	35	0
11535	4752	5383	0.900	35	0
11536	4753	4752	1.975	35	0
11537	4754	4683	2.037	35	0
11538	4755	4754	1.971	35	0
11539	4760	4761	1.876	35	0

Beams Cont...

Beam	Node A	Node B	Length (m)	Property	β (degrees)
11540	4761	4917	1.856	35	0
11541	4776	4728	6.100	13	0
11542	4775	4729	6.100	13	0
11543	4774	4730	6.100	13	0
11544	4773	4731	6.100	13	0
11545	4772	4732	6.100	13	0
11546	4771	4733	6.100	13	0
11547	4782	4734	6.100	13	0
11548	4781	4735	6.100	13	0
11549	4780	4736	6.100	13	0
11550	4779	4737	6.100	13	0
11551	4778	4738	6.100	13	0
11552	4777	4739	6.100	13	0
11553	4768	4740	5.629	13	0
11554	4767	4690	5.629	13	0
11555	4766	4742	5.619	13	0
11556	4765	4741	5.610	13	0
11557	4764	4744	5.730	13	0
11558	4763	4743	5.915	13	0
11559	4740	4815	4.610	32	0
11560	4690	4814	4.613	32	0
11561	4742	4813	4.624	32	0
11562	4741	4821	4.634	32	0
11563	4744	4820	4.516	32	0
11564	4743	4819	4.332	32	0
11565	4822	4768	3.054	13	0
11566	4823	4767	3.054	13	0
11567	4824	4766	3.054	13	0
11568	4825	4765	3.054	13	0
11569	4826	4764	3.054	13	0
11570	4827	4763	3.054	13	0
11571	4735	4811	4.137	32	0
11572	4736	4832	4.133	32	0
11573	4737	4833	4.129	32	0
11574	4738	4834	4.126	32	0
11575	4739	4835	4.122	32	0
11576	4728	4810	4.182	32	0
11577	4729	4809	4.176	32	0
11578	4730	4808	4.170	32	0
11579	4734	4812	4.141	32	0
11580	4788	4753	5.977	13	0
11581	4787	4752	5.854	13	0
11582	4786	4751	5.732	13	0
11583	4785	4755	5.652	13	0
11584	4784	4754	5.651	13	0
11585	4783	4683	5.651	13	0
11586	4829	4785	1.250	13	0
11587	4830	4784	1.250	13	0
11588	4831	4783	1.250	13	0
11589	4753	4899	4.241	32	0
11590	4752	4898	4.363	32	0
11591	4751	4900	4.486	32	0
11592	4755	4897	4.566	13	0
11593	4754	4896	4.567	32	0

Beams Cont...

Beam	Node A	Node B	Length (m)	Property	β (degrees)
11594	4683	4895	4.568	32	0
11601	4807	4756	6.100	13	0
11602	5474	5516	1.950	19	0
11603	4789	4758	6.110	32	0
11604	4790	4759	6.105	13	0
11605	4828	4770	3.054	13	0
11606	4770	4760	6.026	13	0
11607	4769	4761	5.951	13	0
11608	4760	4818	4.159	32	0
11609	4761	4817	4.170	32	0
11610	4763	4692	1.983	19	0
11611	4764	4763	1.983	19	0
11612	4765	4764	1.983	19	0
11613	4766	4765	1.983	19	0
11614	4767	4766	1.983	19	0
11615	4768	4767	1.983	19	0
11616	4769	4867	1.126	19	0
11617	4770	4769	1.879	19	0
11618	4771	4694	1.955	19	0
11619	4772	4771	1.955	19	0
11620	4773	4772	1.955	19	0
11621	4774	4773	1.955	19	0
11622	4775	4774	1.955	19	0
11623	4776	4775	1.955	19	0
11624	4777	4695	1.972	19	0
11625	4778	4777	1.973	19	0
11626	4779	4778	1.973	19	0
11627	4780	4779	1.973	19	0
11628	4781	4780	1.973	19	0
11629	4782	4781	1.973	19	0
11630	4783	4697	1.972	19	0
11631	4784	4783	1.971	19	0
11632	4785	4784	1.971	19	0
11633	4786	4785	1.971	19	0
11634	4787	4786	1.971	19	0
11635	4788	4787	1.971	19	0
11636	4789	4842	1.935	38	0
11637	4790	4789	1.633	38	0
11638	4759	4684	1.637	36	0
11639	4758	4759	1.633	36	0
11640	4791	4713	1.954	25	0
11641	4792	4791	1.954	25	0
11642	4793	4792	1.954	25	0
11643	4794	4793	1.954	25	0
11644	4795	4794	1.954	25	0
11645	4796	4795	1.954	25	0
11646	4797	4714	1.974	25	0
11647	4798	4797	1.973	25	0
11648	4799	4798	1.973	25	0
11649	4800	4799	1.973	25	0
11650	4801	4800	1.973	25	0
11651	4802	4801	1.973	25	0
11652	4805	4804	1.971	25	0
11654	4807	5474	2.017	19	0

Beams Cont...

Beam	Node A	Node B	Length (m)	Property	β (degrees)
11656	4756	5488	2.017	35	0
11659	4811	4832	1.973	25	0
11660	4812	4811	1.973	25	0
11661	4813	4821	1.983	25	0
11662	4814	4813	2.013	25	0
11663	4815	4814	1.954	25	0
11664	4817	4915	1.837	25	0
11665	4818	4817	1.875	25	0
11666	4819	4723	1.978	25	0
11667	4820	4819	1.983	25	0
11668	4821	4820	1.983	25	0
11669	4796	4776	1.250	13	0
11670	4795	4775	1.250	13	0
11671	4794	4774	1.251	13	0
11672	4793	4773	1.250	13	0
11673	4792	4772	1.250	13	0
11674	4791	4771	1.251	13	0
11675	4802	4782	1.250	13	0
11676	4800	4780	1.250	13	0
11677	4799	4779	1.250	13	0
11678	4798	4778	1.250	13	0
11679	4797	4777	1.250	13	0
11680	4801	4781	1.250	13	0
11681	4805	4788	1.251	13	0
11682	4804	4787	1.250	13	0
11683	4803	4786	1.251	13	0
11684	4758	4905	4.126	32	0
11685	4759	4906	4.135	32	0
11686	4756	4901	4.118	32	0
11687	4822	4823	1.983	25	0
11688	4823	4824	1.983	25	0
11689	4824	4825	1.983	25	0
11690	4825	4826	1.983	25	0
11691	4826	4827	1.983	25	0
11692	4827	4710	1.981	25	0
11696	4832	4833	1.973	25	0
11697	4833	4834	1.973	25	0
11698	4834	4835	1.973	25	0
11699	4836	4837	1.633	25	0
11700	4837	4711	1.629	25	0
11701	4836	4789	3.044	32	0
11702	4837	4790	3.049	13	0
11703	4838	5515	2.017	25	0
11705	4838	4807	1.248	13	0
11706	5515	5474	1.244	19	0
11707	4840	4841	1.955	36	0
11708	4841	4758	1.956	36	0
11709	4842	4843	1.955	38	0
11710	4842	4841	6.165	32	0
11711	4843	4717	0.785	38	0
11712	4843	4840	6.189	13	0
11713	4844	4845	1.973	19	0
11714	4845	4721	1.973	19	0
11715	4846	4722	1.723	35	0

Beams Cont...

Beam	Node A	Node B	Length (m)	Property	β (degrees)
11716	4844	4846	6.131	32	0
11717	4845	4722	6.148	13	0
11718	4847	4848	1.955	25	0
11719	4848	4836	1.926	25	0
11720	4847	4843	3.032	13	0
11721	4848	4842	3.038	32	0
11722	4849	4850	2.007	25	0
11723	4850	4720	2.388	25	0
11724	4849	4844	1.242	13	0
11725	4850	4845	1.239	13	0
11726	4846	4902	4.087	32	0
11727	4841	4893	4.014	32	0
11728	4731	4851	4.163	32	0
11729	4732	4852	4.157	32	0
11730	4733	4853	4.151	32	0
11731	4854	4899	1.971	25	0
11732	4679	4854	2.322	19	0
11733	4810	4809	1.976	25	0
11734	4809	4808	1.939	25	0
11735	4808	4851	2.013	25	0
11736	4851	4852	1.976	25	0
11737	4852	4853	1.976	25	0
11738	4853	4725	1.976	25	0
11739	4804	4803	1.971	25	0
11740	4803	4829	1.971	25	0
11741	4829	4830	1.971	25	0
11742	4830	4831	1.971	25	0
11743	4831	4715	1.973	25	0
11745	4865	4869	1.322	25	0
11746	4865	4872	2.271	25	0
11747	4828	4866	0.993	25	0
11748	4866	4868	1.628	25	0
11749	4867	4910	1.367	25	0
11750	4868	4769	1.667	13	0
11751	4868	4867	2.047	25	0
11752	4869	4912	4.094	25	0
11753	4869	4870	1.843	19	0
11754	4871	4693	1.843	19	0
11755	4872	4873	1.841	25	0
11756	4873	4712	1.842	25	0
11757	4872	4870	1.250	13	0
11758	4873	4871	1.250	13	0
11759	4840	4874	1.629	26	0
11760	4874	4904	2.604	26	0
11761	4719	4874	2.686	25	0
11766	4915	4816	1.894	25	0
11769	4870	4871	1.843	19	0
11793	4856	4724	2.349	19	0
11796	5488	5558	1.800	19	0
11797	4902	4894	0.210	25	0
11799	4901	5557	2.017	25	0
11800	4895	4901	3.612	25	0
11801	4896	4895	2.042	25	0
11802	4897	4896	1.975	25	0

Beams Cont...

Beam	Node A	Node B	Length (m)	Property	β (degrees)
11803	4900	4897	1.974	25	0
11804	4898	4900	1.973	25	0
11805	4899	4898	1.931	25	0
11806	4904	4918	0.706	25	0
11807	4906	4726	1.677	25	0
11808	4905	4906	1.781	25	0
11809	4893	4905	1.860	25	0
12017	4909	4908	2.286	25	0
12018	4910	4909	3.412	25	0
12019	4908	4816	4.383	25	0
12021	4911	4913	1.401	25	0
12022	4912	4911	2.729	25	0
12023	4913	4727	3.285	25	0
12024	4870	4912	3.660	13	0
12025	4871	4914	6.100	13	0
12026	4911	4914	0.628	35	0
12027	4914	4913	1.252	32	0
12028	4914	4689	1.798	35	0
12030	4910	4917	4.764	13	0
12031	4909	4916	1.911	13	0
12032	4916	4908	1.263	35	0
12033	4917	4916	1.890	35	0
12034	4917	4915	4.180	32	0
12035	4916	4816	4.191	32	0
12052	4918	4893	0.123	25	0
12056	4936	4943	1.950	19	0
12057	4937	4944	1.950	19	0
12058	4938	4945	1.950	19	0
12061	4929	4921	1.796	21	0
12062	4930	4922	1.796	21	0
12063	4940	4946	1.950	21	0
12064	4931	4923	1.796	21	0
12066	4932	5098	1.839	21	0
12069	4936	5018	1.976	21	0
12070	4932	4971	1.967	35	0
12071	4929	4977	1.973	35	0
12072	4937	5024	1.974	21	0
12073	4930	4996	1.975	35	0
12074	4925	4998	0.690	35	0
12075	4926	4931	1.958	35	0
12082	4923	5117	2.307	21	0
12083	4938	5030	1.972	21	0
12086	4943	4949	2.500	21	0
12087	4944	4950	2.500	21	0
12088	4945	4951	2.500	21	0
12089	4946	4952	2.500	21	0
12092	4949	4932	1.650	21	0
12093	4950	4929	1.650	21	0
12094	4951	4930	1.650	21	0
12095	4952	4931	1.650	21	0
12106	4955	5038	1.984	25	0
12107	4956	5044	1.972	25	0
12108	4957	5047	1.970	25	0
12109	4958	4940	1.250	21	0

Beams Cont...

Beam	Node A	Node B	Length (m)	Property	β (degrees)
12110	4957	4938	1.250	21	0
12111	4956	4937	1.250	21	0
12112	4955	4936	1.250	21	0
12113	4963	4964	1.330	25	0
12114	4964	4965	6.544	25	0
12115	4940	5049	1.684	21	0
12116	4958	5080	1.682	25	0
12117	4965	5119	4.344	25	0
12118	4931	4999	1.682	35	0
12119	4967	5052	1.942	25	0
12121	4921	4968	2.349	21	0
12122	4968	5054	1.972	25	0
12124	4971	4972	1.967	35	0
12126	4970	4967	0.314	25	0
12127	5077	5096	1.973	25	0
12128	4972	4973	1.967	35	0
12129	4973	4974	1.967	35	0
12130	4974	4975	1.967	35	0
12131	4975	4976	1.967	35	0
12132	4976	4929	1.967	35	0
12133	4977	4978	1.973	35	0
12134	4978	4979	1.973	35	0
12135	4979	4980	1.973	35	0
12136	4980	4981	1.973	35	0
12137	4981	4982	1.973	35	0
12138	4982	4930	1.973	35	0
12150	4994	4925	1.284	35	0
12151	4995	5384	0.900	35	0
12152	4996	4995	1.975	35	0
12153	4997	4926	2.037	35	0
12154	4998	4997	1.971	35	0
12157	5018	4971	6.100	13	0
12158	5017	4972	6.100	21	0
12159	5016	4973	6.100	13	0
12160	5015	4974	6.100	13	0
12161	5014	4975	6.100	13	0
12162	5013	4976	6.100	13	0
12163	5024	4977	6.100	13	0
12164	5023	4978	6.100	13	0
12165	5022	4979	6.100	13	0
12166	5021	4980	6.100	13	0
12167	5020	4981	6.100	13	0
12168	5019	4982	6.100	13	0
12187	4978	5053	4.137	32	0
12188	4979	5074	4.133	32	0
12189	4980	5075	4.129	32	0
12190	4981	5076	4.126	32	0
12191	4982	5077	4.122	32	0
12192	4971	5052	4.182	32	0
12193	4972	5051	4.176	21	0
12194	4973	5050	4.170	32	0
12195	4977	5054	4.141	32	0
12196	5030	4996	5.977	13	0
12197	5029	4995	5.854	13	0

Beams Cont...

Beam	Node A	Node B	Length (m)	Property	β (degrees)
12198	5028	4994	5.732	13	0
12199	5027	4998	5.652	13	0
12200	5026	4997	5.651	13	0
12201	5025	4926	5.651	13	0
12202	5071	5027	1.250	13	0
12203	5072	5026	1.250	13	0
12204	5073	5025	1.250	13	0
12208	4998	5122	4.566	32	0
12211	4926	5120	4.568	32	0
12212	4997	5121	4.567	32	0
12214	4994	5125	4.486	32	0
12215	4995	5123	4.363	32	0
12216	4996	5124	4.241	32	0
12217	5049	4999	6.100	13	0
12218	5475	5518	1.950	21	0
12234	5013	4937	1.955	21	0
12235	5014	5013	1.955	21	0
12236	5015	5014	1.955	21	0
12237	5016	5015	1.955	21	0
12238	5017	5016	1.955	21	0
12239	5018	5017	1.955	21	0
12240	5019	4938	1.972	21	0
12241	5020	5019	1.973	21	0
12242	5021	5020	1.973	21	0
12243	5022	5021	1.973	21	0
12244	5023	5022	1.973	21	0
12245	5024	5023	1.973	21	0
12246	5025	4940	1.972	21	0
12247	5026	5025	1.971	21	0
12248	5027	5026	1.971	21	0
12249	5028	5027	1.971	21	0
12250	5029	5028	1.971	21	0
12251	5030	5029	1.971	21	0
12256	5033	4956	1.954	25	0
12257	5034	5033	1.954	25	0
12258	5035	5034	1.954	25	0
12259	5036	5035	1.954	25	0
12260	5037	5036	1.954	25	0
12261	5038	5037	1.954	25	0
12262	5039	4957	1.974	25	0
12263	5040	5039	1.973	25	0
12264	5041	5040	1.973	25	0
12265	5042	5041	1.973	25	0
12266	5043	5042	1.973	25	0
12267	5044	5043	1.973	25	0
12268	5047	5046	1.971	25	0
12270	5049	5475	2.017	21	0
12272	4999	5489	2.017	35	0
12274	5053	5074	1.973	25	0
12275	5054	5053	1.973	25	0
12284	5038	5018	1.250	13	0
12285	5037	5017	1.250	21	0
12286	5036	5016	1.251	13	0
12287	5035	5015	1.250	13	0

Beams Cont...

Beam	Node A	Node B	Length (m)	Property	β (degrees)
12288	5034	5014	1.250	13	0
12289	5033	5013	1.251	13	0
12290	5044	5024	1.250	13	0
12291	5042	5022	1.250	13	0
12292	5041	5021	1.250	13	0
12293	5040	5020	1.250	13	0
12294	5039	5019	1.250	13	0
12295	5043	5023	1.250	13	0
12296	5047	5030	1.251	13	0
12297	5046	5029	1.250	13	0
12298	5045	5028	1.251	13	0
12301	4999	5126	4.118	32	0
12311	5074	5075	1.973	25	0
12312	5075	5076	1.973	25	0
12313	5076	5077	1.973	25	0
12318	5080	5517	2.017	25	0
12320	5080	5049	1.248	13	0
12321	5517	5475	1.244	21	0
12328	5086	5087	1.973	21	0
12329	5087	4964	1.973	21	0
12330	5088	4965	1.723	35	0
12331	5086	5088	6.131	32	0
12332	5087	4965	6.148	13	0
12337	5091	5092	2.007	25	0
12338	5092	4963	2.388	25	0
12339	5091	5086	1.242	13	0
12340	5092	5087	1.239	13	0
12341	5088	5127	4.087	32	0
12343	4974	5093	4.163	32	0
12344	4975	5094	4.157	32	0
12345	4976	5095	4.151	32	0
12346	5096	5124	1.971	25	0
12347	4922	5096	2.322	21	0
12348	5052	5051	1.976	25	0
12349	5051	5050	1.939	25	0
12350	5050	5093	2.013	25	0
12351	5093	5094	1.976	25	0
12352	5094	5095	1.976	25	0
12353	5095	4968	1.976	25	0
12354	5046	5045	1.971	25	0
12355	5045	5071	1.971	25	0
12356	5071	5072	1.971	25	0
12357	5072	5073	1.971	25	0
12358	5073	4958	1.973	25	0
12360	5107	5111	1.322	25	0
12361	5107	5114	2.271	25	0
12367	5111	5137	4.094	25	0
12368	5111	5112	1.843	21	0
12369	5113	4936	1.843	21	0
12370	5114	5115	1.841	25	0
12371	5115	4955	1.842	25	0
12372	5114	5112	1.250	13	0
12373	5115	5113	1.250	13	0
12378	5112	5113	1.843	21	0

Beams Cont...

Beam	Node A	Node B	Length (m)	Property	β (degrees)
12379	5098	4967	2.349	21	0
12380	5489	5561	1.800	21	0
12381	5127	5119	0.210	25	0
12383	5126	5560	2.017	25	0
12384	5120	5126	3.612	25	0
12385	5121	5120	2.042	25	0
12386	5122	5121	1.975	25	0
12387	5125	5122	1.974	25	0
12388	5123	5125	1.973	25	0
12389	5124	5123	1.931	25	0
12398	5136	5138	1.401	25	0
12399	5137	5136	2.729	25	0
12400	5138	4970	3.285	25	0
12401	5112	5137	3.660	13	0
12402	5113	5139	6.100	13	0
12403	5136	5139	0.628	35	0
12404	5139	5138	1.252	32	0
12405	5139	4932	1.798	35	0
12674	1170	246	3.209	51	0
12675	1727	1642	3.209	21	0
12676	2092	2007	3.209	21	0
12677	5150	5154	1.981	21	0
12678	5151	5155	1.981	21	0
12679	5152	5156	1.981	21	0
12680	5146	5140	1.796	21	0
12681	5147	5141	1.796	21	0
12682	5153	5157	1.981	21	0
12683	5148	5142	1.796	21	0
12684	5149	5255	1.839	21	0
12685	5150	5202	1.976	21	0
12686	5149	5172	1.967	21	0
12687	5146	5178	1.973	21	0
12688	5151	5208	1.974	21	0
12689	5147	5192	1.975	21	0
12690	5144	5194	0.690	21	0
12691	5145	5148	1.958	21	0
12695	5142	5270	2.307	21	0
12696	5152	5214	1.972	21	0
12697	5154	5158	2.554	21	0
12698	5155	5159	2.554	21	0
12699	5156	5160	2.554	21	0
12700	5157	5161	2.553	21	0
12701	5158	5149	1.677	21	0
12702	5159	5146	1.677	21	0
12703	5160	5147	1.677	21	0
12704	5161	5148	1.677	21	0
12705	5162	5220	1.984	25	0
12706	5163	5226	1.972	25	0
12707	5164	5229	1.970	25	0
12708	5165	5153	1.291	21	0
12709	5164	5152	1.291	21	0
12710	5163	5151	1.291	21	0
12711	5162	5150	1.291	21	0
12712	5166	5167	1.368	25	0

Beams Cont...

Beam	Node A	Node B	Length (m)	Property	β (degrees)
12713	5167	5168	6.647	25	0
12714	5153	5231	1.684	21	0
12715	5165	5244	1.682	25	0
12716	5168	5271	4.344	25	0
12717	5148	5195	1.682	21	0
12718	5169	5234	1.942	25	0
12719	5140	5170	2.349	21	0
12720	5170	5236	1.972	25	0
12721	5172	5173	1.967	21	0
12722	5171	5169	0.314	25	0
12723	5243	5254	1.973	25	0
12724	5173	5174	1.967	21	0
12725	5174	5175	1.967	21	0
12726	5175	5176	1.967	21	0
12727	5176	5177	1.967	21	0
12728	5177	5146	1.967	21	0
12729	5178	5179	1.973	21	0
12730	5179	5180	1.973	21	0
12731	5180	5181	1.973	21	0
12732	5181	5182	1.973	21	0
12733	5182	5183	1.973	21	0
12734	5183	5147	1.973	21	0
12741	5190	5144	1.284	21	0
12742	5191	5385	0.900	21	0
12743	5192	5191	1.975	21	0
12744	5193	5145	2.037	21	0
12745	5194	5193	1.971	21	0
12746	5202	5172	6.211	32	0
12747	5201	5173	6.211	32	0
12748	5200	5174	6.211	32	0
12749	5199	5175	6.211	32	0
12750	5198	5176	6.211	32	0
12751	5197	5177	6.211	32	0
12752	5208	5178	6.211	32	0
12753	5207	5179	6.211	32	0
12754	5206	5180	6.211	32	0
12755	5205	5181	6.211	32	0
12756	5204	5182	6.211	32	0
12757	5203	5183	6.211	32	0
12758	5179	5235	4.137	32	0
12759	5180	5240	4.133	32	0
12760	5181	5241	4.129	32	0
12761	5182	5242	4.126	32	0
12762	5183	5243	4.122	32	0
12763	5172	5234	4.182	32	0
12764	5173	5233	4.176	32	0
12765	5174	5232	4.170	32	0
12766	5178	5236	4.141	32	0
12767	5214	5192	6.091	32	0
12768	5213	5191	5.970	32	0
12769	5212	5190	5.850	32	0
12770	5211	5194	5.771	32	0
12771	5210	5193	5.771	32	0
12772	5209	5145	5.770	32	0

Beams Cont...

Beam	Node A	Node B	Length (m)	Property	β (degrees)
12773	5237	5211	1.291	32	0
12774	5238	5210	1.291	32	0
12775	5239	5209	1.291	32	0
12779	5194	5274	4.566	32	0
12782	5145	5272	4.568	32	0
12783	5193	5273	4.567	32	0
12785	5190	5277	4.486	32	0
12786	5191	5275	4.363	32	0
12787	5192	5276	4.241	32	0
12788	5231	5195	6.211	32	0
12789	5476	5520	1.981	21	0
12790	5197	5151	1.955	21	0
12791	5198	5197	1.955	21	0
12792	5199	5198	1.955	21	0
12793	5200	5199	1.955	21	0
12794	5201	5200	1.955	21	0
12795	5202	5201	1.955	21	0
12796	5203	5152	1.972	21	0
12797	5204	5203	1.973	21	0
12798	5205	5204	1.973	21	0
12799	5206	5205	1.973	21	0
12800	5207	5206	1.973	21	0
12801	5208	5207	1.973	21	0
12802	5209	5153	1.972	21	0
12803	5210	5209	1.971	21	0
12804	5211	5210	1.971	21	0
12805	5212	5211	1.971	21	0
12806	5213	5212	1.971	21	0
12807	5214	5213	1.971	21	0
12808	5215	5163	1.954	25	0
12809	5216	5215	1.954	25	0
12810	5217	5216	1.954	25	0
12811	5218	5217	1.954	25	0
12812	5219	5218	1.954	25	0
12813	5220	5219	1.954	25	0
12814	5221	5164	1.974	25	0
12815	5222	5221	1.973	25	0
12816	5223	5222	1.973	25	0
12817	5224	5223	1.973	25	0
12818	5225	5224	1.973	25	0
12819	5226	5225	1.973	25	0
12820	5229	5228	1.971	25	0
12822	5231	5476	2.017	21	0
12824	5195	5490	2.017	21	0
12825	5235	5240	1.973	25	0
12826	5236	5235	1.973	25	0
12827	5220	5202	1.291	32	0
12828	5219	5201	1.291	32	0
12829	5218	5200	1.291	32	0
12830	5217	5199	1.291	32	0
12831	5216	5198	1.291	32	0
12832	5215	5197	1.291	32	0
12833	5226	5208	1.291	32	0
12834	5224	5206	1.291	32	0

Beams Cont...

Beam	Node A	Node B	Length (m)	Property	β (degrees)
12835	5223	5205	1.291	32	0
12836	5222	5204	1.291	32	0
12837	5221	5203	1.291	32	0
12838	5225	5207	1.291	32	0
12839	5229	5214	1.291	32	0
12840	5228	5213	1.291	32	0
12841	5227	5212	1.291	32	0
12842	5195	5278	4.118	32	0
12846	5240	5241	1.973	25	0
12847	5241	5242	1.973	25	0
12848	5242	5243	1.973	25	0
12849	5244	5519	2.017	25	0
12851	5244	5231	1.288	32	0
12852	5519	5476	1.285	21	0
12853	5246	5247	1.973	21	0
12854	5247	5167	1.973	21	0
12855	5248	5168	1.723	21	0
12856	5246	5248	6.242	32	0
12857	5247	5168	6.258	32	0
12858	5249	5250	2.007	25	0
12859	5250	5166	2.388	25	0
12860	5249	5246	1.282	32	0
12861	5250	5247	1.280	32	0
12862	5248	5279	4.087	32	0
12863	5175	5251	4.163	32	0
12864	5176	5252	4.157	32	0
12865	5177	5253	4.151	32	0
12866	5254	5276	1.971	25	0
12867	5141	5254	2.322	21	0
12868	5234	5233	1.976	25	0
12869	5233	5232	1.939	25	0
12870	5232	5251	2.013	25	0
12871	5251	5252	1.976	25	0
12872	5252	5253	1.976	25	0
12873	5253	5170	1.976	25	0
12874	5228	5227	1.971	25	0
12875	5227	5237	1.971	25	0
12876	5237	5238	1.971	25	0
12877	5238	5239	1.971	25	0
12878	5239	5165	1.973	25	0
12879	5264	5265	1.360	25	0
12880	5264	5268	2.271	25	0
12881	5265	5282	4.148	25	0
12882	5265	5266	1.843	21	0
12883	5267	5150	1.843	21	0
12884	5268	5269	1.841	25	0
12885	5269	5162	1.842	25	0
12886	5268	5266	1.291	32	0
12887	5269	5267	1.291	32	0
12888	5266	5267	1.843	21	0
12889	5255	5169	2.349	21	0
12890	5490	5564	1.800	21	0
12891	5279	5271	0.210	25	0
12893	5278	5563	2.017	25	0

Beams Cont...

Beam	Node A	Node B	Length (m)	Property	β (degrees)
12894	5272	5278	3.612	25	0
12895	5273	5272	2.042	25	0
12896	5274	5273	1.975	25	0
12897	5277	5274	1.974	25	0
12898	5275	5277	1.973	25	0
12899	5276	5275	1.931	25	0
12901	5281	5283	1.401	25	0
12902	5282	5281	2.775	25	0
12903	5283	5171	3.285	25	0
12904	5266	5282	3.721	32	0
12905	5267	5284	6.211	32	0
12906	5281	5284	0.628	21	0
12907	5284	5283	1.252	32	0
12908	5284	5149	1.798	21	0
13143	2022	2414	4.200	56	0
13144	128	209	4.000	15	0
13145	130	210	4.000	15	0
13146	132	211	4.000	15	0
13173	2397	5312	4.200	14	0
13174	5312	3572	4.200	14	0
13175	3572	5322	4.200	14	0
13176	5322	4288	4.200	14	0
13177	4288	5331	4.200	14	0
13178	5331	4916	4.200	14	0
13179	3140	5313	2.108	21	0
13180	2953	5312	1.876	35	0
13181	5312	5321	1.942	35	0
13183	5313	5312	4.354	21	0
13184	5314	3179	1.673	25	0
13185	5312	5314	4.596	21	0
13186	5315	5316	1.876	25	0
13187	2953	5315	4.180	32	0
13188	5316	5314	1.887	25	0
13189	5312	5316	4.191	21	0
13190	5313	2953	3.982	13	0
13191	5317	3170	1.453	26	0
13192	5314	5321	3.656	32	0
13193	5318	5317	1.843	26	0
13194	5318	5312	3.980	21	0
13197	5320	3173	1.936	35	0
13198	5319	5320	1.933	35	0
13199	5321	5319	1.654	35	0
13200	5321	6277	0.679	32	0
13202	3173	2826	0.608	35	0
13220	3884	5324	2.107	21	0
13221	3714	5322	1.870	35	0
13222	5322	5325	1.661	35	0
13224	3714	5323	4.180	32	0
13226	5324	5322	4.352	21	0
13227	5324	3714	3.982	13	0
13232	5328	3594	0.617	35	0
13233	5327	5328	1.926	35	0
13234	5326	5327	1.933	35	0
13235	5325	5326	1.941	35	0

Beams Cont...

Beam	Node A	Node B	Length (m)	Property	β (degrees)
13236	5329	3907	1.407	26	0
13237	5329	5322	3.980	32	0
13253	5330	3917	1.683	25	0
13254	5322	5330	4.595	21	0
13255	5331	5332	1.661	35	0
13260	5335	4317	0.617	35	0
13261	5334	5335	1.926	35	0
13262	5333	5334	1.933	35	0
13263	5332	5333	1.941	35	0
13264	4607	5337	2.107	21	0
13265	5336	4640	1.683	25	0
13266	5331	5336	4.595	21	0
13268	5337	5331	4.352	21	0
13269	5337	4437	3.982	13	0
13270	5338	4540	1.964	25	0
13271	4437	5338	4.181	32	0
13275	5339	4630	1.407	21	0
13276	5339	5331	3.980	32	0
13345	5367	5582	2.500	11	0
13346	5368	5583	2.500	28	0
13347	5369	5584	2.500	62	0
13348	5370	5585	2.500	60	0
13376	5372	599	1.075	39	0
13377	5373	987	1.075	50	0
13378	5374	1273	1.075	27	0
13379	5375	1783	1.075	37	0
13380	5376	2148	1.075	37	0
13381	5377	2540	1.075	37	0
13382	5378	2941	1.075	66	0
13383	5379	3329	1.075	66	0
13384	5380	3702	1.075	66	0
13385	5381	4064	1.075	35	0
13386	5382	4425	1.075	51	0
13387	5383	4751	1.075	35	0
13388	5384	4994	1.075	35	0
13389	5385	5190	1.075	21	0
13447	93	6090	4.000	56	0
13454	158	5419	2.721	50	0
13455	5419	1110	2.500	11	0
13456	174	6111	2.178	50	0
13458	5419	6114	1.561	50	0
13459	6111	1107	3.496	40	0
13460	6112	1106	3.115	40	0
13461	6110	1105	2.738	40	0
13462	6109	1104	2.366	40	0
13463	6109	5419	1.802	50	0
13464	6110	6109	2.149	50	0
13465	6112	6110	2.159	50	0
13466	6111	6129	1.278	50	0
13470	6115	6382	4.032	40	0
13472	6114	6115	2.086	50	0
13493	2020	6241	2.178	35	0
13494	2010	5369	2.721	62	0
13495	6241	6247	6.245	13	0

Beams Cont...

Beam	Node A	Node B	Length (m)	Property	β (degrees)
13496	6245	6248	5.742	32	0
13497	6240	6249	5.243	32	0
13498	6239	6250	4.746	32	0
13499	6239	5369	1.802	35	0
13500	6240	6239	2.149	35	0
13501	6245	6240	2.159	35	0
13502	6241	6245	2.176	35	0
13504	5369	6242	2.235	35	0
13505	6242	6251	3.806	32	0
13508	6242	6244	1.412	35	0
13526	90	6094	2.181	39	0
13527	74	5367	2.721	11	0
13529	5367	6103	1.728	39	0
13530	6094	6097	4.245	40	0
13531	6095	6098	3.792	40	0
13532	6093	6099	3.343	40	0
13533	6092	6100	2.894	40	0
13535	6092	5367	1.802	39	0
13536	6093	6092	2.149	39	0
13537	6095	6093	2.159	39	0
13538	6094	6096	1.276	39	0
13559	268	6145	2.178	27	0
13560	252	5368	2.721	51	0
13562	5368	6147	2.235	27	0
13563	6145	6176	6.245	13	0
13564	6144	6177	5.743	13	0
13565	6143	6178	5.243	13	0
13566	6142	6179	4.746	13	0
13567	6147	6183	3.771	13	0
13569	6142	5368	1.802	27	0
13570	6143	6142	2.149	27	0
13571	6144	6143	2.162	27	0
13572	6145	6144	2.173	27	0
13594	1655	6260	2.178	21	0
13595	1645	5417	2.721	62	0
13596	6260	2377	6.365	13	0
13598	6258	6255	3.510	32	0
13599	6258	6257	2.058	21	0
13600	6259	6258	1.804	21	0
13601	6260	6259	2.173	21	0
13619	5417	6253	1.561	21	0
13625	2412	5660	2.155	35	0
13626	2402	5370	2.721	60	0
13628	5370	6163	1.561	35	0
13629	5660	6167	6.141	32	0
13630	6157	6168	5.743	32	0
13631	6156	6169	5.243	32	0
13632	6155	6170	4.746	32	0
13633	6165	6171	3.738	32	0
13635	6155	5370	1.802	35	0
13636	6156	6155	2.149	35	0
13637	6157	6156	2.162	35	0
13638	5660	6157	2.202	35	0
13640	6163	6165	0.839	35	0

Beams Cont...

Beam	Node A	Node B	Length (m)	Property	β (degrees)
13661	5463	6337	1.721	52	0
13662	5464	6116	1.957	29	0
13663	5465	1563	1.640	48	0
13664	5466	1980	1.640	21	0
13665	5467	2345	1.640	21	0
13666	5468	2737	1.640	21	0
13667	5469	3106	1.640	21	0
13668	5470	3483	1.640	21	0
13669	5471	3856	1.640	21	0
13670	5472	4217	1.640	21	0
13671	5473	4579	1.640	21	0
13672	5474	4844	1.640	21	0
13673	5475	5086	1.640	21	0
13674	5476	5246	1.640	21	0
13675	5477	6336	1.647	39	0
13676	5478	6117	2.013	50	0
13677	5479	1565	1.607	38	0
13678	5480	1982	1.607	35	0
13679	5481	2347	1.607	35	0
13680	5482	2739	1.607	35	0
13681	5483	3108	1.607	35	0
13682	5484	3485	1.607	35	0
13683	5485	3858	1.607	35	0
13684	5486	4219	1.607	35	0
13685	5487	4581	1.607	35	0
13686	5488	4846	1.607	35	0
13687	5489	5088	1.607	35	0
13688	5490	5248	1.607	21	0
13704	5494	5522	2.500	11	0
13706	5496	5528	2.500	11	0
13707	5497	1568	1.645	25	0
13708	5498	5529	2.500	51	0
13709	5499	1985	1.645	25	0
13710	5500	5532	2.500	21	0
13711	5501	2742	1.645	25	0
13712	5502	3111	1.645	25	0
13713	5503	3488	1.645	25	0
13714	5504	3861	1.645	25	0
13715	5505	4222	1.645	25	0
13716	5506	4584	1.645	25	0
13717	5507	2350	1.645	25	0
13718	5508	5535	2.500	21	0
13719	5509	5538	2.500	21	0
13720	5510	5541	2.500	21	0
13721	5511	5544	2.500	21	0
13722	5512	5547	2.500	21	0
13723	5513	5550	2.500	21	0
13724	5514	5553	2.500	21	0
13725	5515	4849	1.645	25	0
13726	5516	5556	2.500	21	0
13727	5517	5091	1.645	25	0
13728	5518	5559	2.500	21	0
13729	5519	5249	1.645	25	0
13730	5520	5562	2.553	21	0

Beams Cont...

Beam	Node A	Node B	Length (m)	Property	β (degrees)
13731	5522	5477	1.650	11	0
13737	5524	6102	1.782	11	0
13745	5527	6115	1.782	11	0
13750	5528	5478	1.650	11	0
13757	5529	5479	1.655	51	0
13758	5531	6149	1.777	51	0
13771	5532	5480	1.655	21	0
13772	6261	6262	1.644	21	0
13773	5534	6261	1.777	21	0
13784	5535	5481	1.655	21	0
13786	5481	5537	1.800	21	0
13787	5537	6244	1.777	21	0
13800	5538	5482	1.655	21	0
13801	5540	6162	1.777	21	0
13814	5541	5483	1.655	21	0
13815	5542	3187	1.623	25	0
13816	5543	5542	2.928	21	0
13827	5544	5484	1.655	21	0
13828	5545	3550	1.623	25	0
13829	5546	5545	2.928	21	0
13840	5547	5485	1.655	21	0
13841	5548	3923	1.623	25	0
13842	5549	5548	2.928	21	0
13853	5550	5486	1.655	21	0
13854	5551	4266	1.623	24	0
13855	5552	5551	2.928	21	0
13866	5553	5487	1.655	21	0
13867	5554	4669	1.621	25	0
13868	5555	5554	2.313	21	0
13879	5556	5488	1.655	21	0
13880	5557	4902	1.621	25	0
13881	5558	5557	2.313	21	0
13892	5559	5489	1.655	21	0
13893	5560	5127	1.621	25	0
13894	5561	5560	2.313	21	0
13905	5562	5490	1.682	21	0
13906	5563	5279	1.621	25	0
13907	5564	5563	2.313	21	0
13986	6103	6343	2.709	40	0
14025	3215	5681	2.040	21	0
14027	3588	5702	2.040	21	0
14041	5582	93	1.800	11	0
14042	5583	271	1.800	28	0
14043	5584	2022	1.800	62	0
14044	5585	2414	1.800	60	0
14068	622	6103	4.074	40	0
14102	133	548	7.543	40	0
14103	536	550	7.183	40	0
14105	537	549	7.363	40	0
14108	600	90	7.425	40	0
14110	79	6092	5.431	40	0
14111	603	6093	5.975	40	0
14113	599	6094	6.991	40	0
14126	212	943	7.543	40	0

Beams Cont...

Beam	Node A	Node B	Length (m)	Property	β (degrees)
14127	933	944	7.363	40	0
14128	932	945	7.183	40	0
14149	295	1511	4.613	13	0
14150	1227	1510	4.624	13	0
14151	1226	1521	4.635	13	0
14188	6257	5417	2.251	21	0
14213	6257	6264	3.218	32	0
14215	1664	1931	4.613	32	0
14216	1770	1930	4.624	32	0
14217	1769	1941	4.635	32	0
14236	2029	2296	4.613	32	0
14237	2135	2295	4.624	32	0
14238	2134	2306	4.634	32	0
14258	2421	2688	4.613	31	0
14259	2527	2687	4.624	31	0
14260	2526	2698	4.634	31	0
14289	5664	2801	0.506	35	0
14290	5664	6189	1.450	25	0
14296	5665	3160	0.506	21	0
14297	5665	6228	1.450	25	0
14303	2827	3063	4.613	32	0
14304	2928	3062	4.624	32	0
14305	2927	3071	4.634	32	0
14316	2818	5673	2.040	21	0
14318	3186	5670	1.067	25	0
14319	5671	5678	2.273	21	0
14320	5671	5677	1.986	25	0
14321	5672	5671	1.546	21	0
14322	5672	5675	1.878	25	0
14323	5673	5672	0.937	21	0
14327	5675	6231	0.659	25	0
14328	5671	5675	2.055	32	0
14329	5676	3188	2.051	32	0
14331	5678	5677	1.021	13	0
14332	5676	2810	2.221	21	0
14333	5678	5676	2.295	21	0
14334	5677	3188	2.068	25	0
14355	5679	5680	1.546	21	0
14356	5679	5683	1.878	25	0
14358	3551	5685	2.068	25	0
14359	5681	5679	0.937	21	0
14362	5682	3549	1.067	25	0
14363	5683	6271	0.659	25	0
14364	5684	3551	2.051	32	0
14366	5686	5685	1.021	32	0
14367	5684	3207	2.221	21	0
14368	5686	5684	2.295	21	0
14369	5685	5680	1.986	25	0
14392	3222	3442	4.613	32	0
14393	3320	3441	4.624	32	0
14394	3319	3449	4.634	32	0
14406	3595	3815	4.613	32	0
14407	3693	3814	4.624	32	0
14408	3692	3822	4.634	32	0

Beams Cont...

Beam	Node A	Node B	Length (m)	Property	β (degrees)
14411	5693	3527	0.506	21	0
14412	5693	6268	1.450	25	0
14416	5694	3900	0.506	21	0
14417	5694	6279	1.450	25	0
14418	5695	5699	1.555	21	0
14419	5695	5700	1.878	25	0
14420	5696	3931	3.935	13	0
14421	5696	3922	1.067	25	0
14422	5697	3924	2.051	32	0
14423	5698	5701	1.019	32	0
14425	5697	3580	2.221	21	0
14426	5698	5697	2.295	21	0
14427	5699	5698	2.264	21	0
14428	5700	6282	0.659	25	0
14429	5699	5700	2.060	32	0
14431	5699	5701	1.978	25	0
14433	5701	3924	2.068	25	0
14434	5702	5695	0.937	21	0
14475	3957	4176	4.613	32	0
14476	4055	4175	4.624	32	0
14477	4054	4183	4.634	32	0
14486	5713	5709	3.003	25	0
14488	5707	5711	1.986	24	0
14496	5711	4267	2.068	24	0
14497	5712	5713	1.151	25	0
14498	5712	5707	2.043	24	0
14500	3950	5714	2.036	21	0
14501	5714	5713	1.002	21	0
14503	4016	5716	2.294	24	0
14504	5715	3950	2.615	44	0
14505	5715	5712	0.570	24	0
14506	5716	3950	2.536	13	0
14507	5716	5715	1.374	24	0
14534	5717	547	7.731	40	0
14537	604	6095	6.519	40	0
14550	991	6112	6.519	40	0
14560	1277	1260	2.250	13	0
14561	1787	1776	2.250	32	0
14566	5722	6245	4.288	32	0
14576	2544	2533	2.250	32	0
14585	2945	5851	2.258	32	0
14591	5724	536	1.253	39	0
14592	5725	932	1.253	50	0
14593	5726	1226	1.253	27	0
14594	5727	1769	1.253	37	0
14595	5728	2134	1.254	37	0
14596	5729	2526	1.254	37	0
14597	5730	2927	1.254	37	0
14598	5731	3319	1.254	37	0
14599	5732	3692	1.254	37	0
14600	5733	4054	1.254	35	0
14601	5734	4415	1.254	35	0
14602	5735	4741	1.254	35	0
14803	2954	2811	2.490	44	0

Beams Cont...

Beam	Node A	Node B	Length (m)	Property	β (degrees)
14812	5851	5671	3.217	32	0
14818	3706	3699	2.250	32	0
14824	3333	3326	2.250	32	0
14825	4068	4061	2.250	32	0
14830	4205	4206	1.950	67	0
14831	4196	4205	5.314	41	0
14832	5853	4195	0.592	67	0
14833	5854	4204	0.302	67	0
14834	5853	5854	6.395	41	0
14835	5855	4203	1.393	67	0
14836	4173	5855	7.810	41	0
14837	5856	4100	1.070	67	0
14838	4012	5856	9.474	41	0
14839	5857	4231	0.988	67	0
14840	5858	4101	1.808	67	0
14841	5857	5858	10.724	41	0
14842	5859	4103	0.595	67	0
14843	4229	5859	11.974	41	0
14844	5860	4170	0.969	67	0
14845	5861	4104	1.349	67	0
14846	5860	5861	13.232	41	0
14847	5862	4228	0.119	67	0
14848	4172	5862	14.475	41	0
14849	5863	4227	0.215	67	0
14850	4018	5863	15.426	41	0
14851	4207	5872	1.484	67	0
14853	4209	5874	0.926	67	0
14856	4210	4013	1.950	67	0
14860	5869	4178	0.947	67	0
14861	5870	4225	0.527	67	0
14862	5869	5870	12.740	41	0
14863	5871	4182	0.992	67	0
14864	5872	4208	0.466	67	0
14865	5871	5872	6.561	41	0
14866	5873	4010	0.989	67	0
14867	5874	4210	1.024	67	0
14868	5873	5874	8.692	41	0
14869	5875	4179	0.937	67	0
14870	5876	4224	1.714	67	0
14871	5875	5876	10.739	41	0
14891	5892	439	8.079	40	0
14892	5893	440	7.934	40	0
14893	5879	441	7.808	40	0
14894	5880	443	7.500	40	0
14895	5881	442	7.645	40	0
14897	5882	464	7.227	40	0
14898	5883	465	7.093	40	0
14899	5884	466	6.958	40	0
14900	5885	467	6.824	40	0
14901	5886	468	6.689	40	0
14908	5892	5878	1.477	64	0
14910	5893	5879	1.749	64	0
14911	71	5904	1.973	39	0
14918	5903	5909	1.167	39	0

Beams Cont...

Beam	Node A	Node B	Length (m)	Property	β (degrees)
14919	5902	5908	0.987	39	0
14920	5901	5907	0.807	39	0
14921	5900	5906	0.628	39	0
14922	5899	5905	0.448	39	0
14924	5905	5900	1.525	39	0
14925	5905	5915	3.897	40	0
14926	5906	5901	1.345	39	0
14927	5906	5914	3.006	40	0
14928	5907	5902	1.165	39	0
14929	5907	5913	2.115	40	0
14930	5908	5903	0.986	39	0
14931	5908	5912	1.224	40	0
14932	5909	73	0.806	39	0
14933	5909	5911	0.333	40	0
14934	5904	5899	1.973	39	0
14935	5904	5916	4.907	40	0
14936	5911	73	0.730	64	0
14937	5912	5911	1.950	64	0
14938	5913	5912	1.950	64	0
14939	5914	5913	1.950	64	0
14940	5915	5914	1.950	64	0
14941	5916	5915	1.950	64	0
14942	5915	469	6.596	40	0
14943	5914	470	6.575	40	0
14944	5913	471	6.554	40	0
14945	5912	472	6.533	40	0
14946	5911	473	6.512	40	0
14947	5916	88	6.617	40	0
14948	6096	6095	0.898	39	0
14949	77	6096	4.495	29	0
14962	5918	5882	1.205	64	0
14964	5919	5883	1.028	64	0
14966	5920	5884	0.854	64	0
14967	5921	5885	0.683	64	0
14968	71	132	5.803	11	0
14969	71	5886	5.666	40	0
14970	5923	5877	1.192	64	0
14971	5923	84	8.224	40	0
14972	5924	5918	0.749	64	0
14973	5924	86	7.362	40	0
15004	102	81	1.150	42	0
15007	101	80	1.150	39	0
15014	121	60	1.796	11	0
15016	60	82	5.630	11	0
15039	113	61	1.451	11	0
15041	694	695	2.500	11	0
15072	138	101	2.032	52	0
15095	6337	6328	1.572	52	0
15100	6103	6102	1.918	39	0
15127	5989	259	5.800	14	0
15129	6005	853	8.079	40	0
15130	6006	854	7.934	40	0
15131	5992	855	7.808	40	0
15132	5993	857	7.500	43	0

Beams Cont...

Beam	Node A	Node B	Length (m)	Property	β (degrees)
15133	5994	856	7.645	40	0
15139	5995	878	7.227	43	0
15140	5996	879	7.093	40	0
15141	5997	880	6.958	40	0
15142	5998	881	6.824	40	0
15143	5999	882	6.689	40	0
15145	6009	883	6.596	40	0
15146	6010	884	6.575	40	0
15147	6011	885	6.554	40	0
15148	6012	886	6.533	40	0
15149	6013	887	6.512	40	0
15150	6005	5991	1.477	61	0
15152	6006	5992	1.749	61	0
15153	6007	5990	1.192	61	0
15154	6007	168	8.224	40	0
15155	6008	6015	0.749	61	0
15156	6008	170	7.362	40	0
15165	6012	6004	0.707	61	0
15167	6013	157	0.730	61	0
15169	6014	172	6.617	40	0
15170	6015	5995	1.205	61	0
15172	6016	5996	1.028	61	0
15173	6017	5997	0.854	61	0
15175	6018	5998	0.683	61	0
15187	6024	6030	6.098	29	0
15188	6030	6383	5.693	29	0
15191	6021	6086	2.396	29	0
15192	6021	6026	0.768	29	0
15193	6026	6025	6.190	29	0
15194	6025	6020	3.670	29	0
15200	6025	6047	2.015	50	0
15201	6026	6053	2.015	50	0
15218	6020	6085	2.015	11	0
15219	6047	6048	2.015	50	0
15220	6048	6049	2.015	50	0
15221	6049	164	2.015	50	0
15223	6047	6085	3.670	40	0
15225	6048	6084	3.670	40	0
15227	6049	6083	3.670	40	0
15228	6053	6054	2.015	50	0
15229	6054	6055	2.015	50	0
15230	6055	6056	2.015	50	0
15231	6056	203	2.117	50	0
15232	6053	6047	6.190	40	0
15233	6054	6048	6.190	40	0
15234	6055	6049	6.190	40	0
15235	6056	164	6.190	29	0
15236	203	146	1.796	50	0
15237	998	203	6.123	40	0
15238	6058	166	3.577	50	0
15239	6058	997	2.913	40	0
15241	6059	1055	1.950	11	0
15243	5989	6062	2.167	11	0
15246	6061	6059	2.167	11	0

Beams Cont...

Beam	Node A	Node B	Length (m)	Property	β (degrees)
15247	6062	6061	2.166	11	0
15248	146	6058	2.053	50	0
15253	6027	137	6.151	29	0
15254	137	138	1.732	29	0
15255	137	6066	1.633	39	0
15256	6064	6065	1.633	29	0
15257	6065	113	1.633	29	0
15258	6066	6067	1.633	39	0
15259	6067	121	1.633	39	0
15260	6064	6066	6.151	40	0
15261	6065	6067	6.151	40	0
15262	6066	613	5.177	40	0
15263	6067	612	6.297	40	0
15264	138	80	2.335	29	0
15294	6083	5989	2.015	11	0
15295	6084	6083	2.015	11	0
15296	6085	6084	2.015	11	0
15297	6086	6122	0.844	29	0
15299	6088	197	0.951	29	0
15300	6086	6053	2.064	40	0
15301	6123	6054	3.404	40	0
15302	6088	6055	4.656	40	0
15303	692	6056	3.490	29	0
15304	1110	6121	1.075	11	0
15305	6090	271	5.800	56	0
15306	6090	6370	2.000	11	0
15309	6102	6342	1.665	39	0
15314	6116	6024	1.957	29	0
15315	6117	6030	2.013	50	0
15317	6116	6117	6.121	40	0
15318	6117	6384	6.650	40	0
15323	6121	6090	0.725	11	0
15324	6114	6121	3.639	40	0
15351	6122	6123	1.633	29	0
15352	6123	6124	1.633	29	0
15353	6124	6088	0.682	29	0
15390	6129	6112	0.898	50	0
15391	161	6129	4.495	29	0
15397	6130	6019	2.595	11	0
15398	6130	6135	1.465	40	0
15399	6131	6132	2.159	40	0
15400	6132	6133	2.159	40	0
15401	6133	6134	2.159	40	0
15402	6134	6004	2.942	40	0
15403	6131	6014	3.954	40	0
15404	6132	6009	3.047	40	0
15405	6133	6010	2.141	40	0
15406	6134	6011	1.235	40	0
15407	6135	6131	0.620	40	0
15408	835	6137	1.200	43	0
15409	6135	6019	2.129	43	0
15418	6136	6004	1.419	40	0
15419	6137	6135	1.347	43	0
15420	6137	6138	1.973	40	0

Beams Cont...

Beam	Node A	Node B	Length (m)	Property	β (degrees)
15421	6138	6139	1.973	40	0
15422	6139	6140	1.973	40	0
15423	6140	6141	1.973	40	0
15424	6141	6136	2.053	40	0
15425	836	6138	1.199	40	0
15426	837	6139	1.199	40	0
15427	838	6140	1.198	40	0
15428	839	6141	1.198	40	0
15440	6149	6148	1.903	27	0
15441	6148	6146	0.419	27	0
15451	6151	1150	2.538	25	0
15452	6152	1137	2.400	28	0
15453	6153	1384	2.433	13	0
15454	6154	1383	2.417	13	0
15475	6165	6162	1.247	35	0
15484	2414	6171	2.366	21	0
15485	6171	6166	0.415	21	0
15486	6162	6161	1.903	35	0
15487	6161	6159	0.419	35	0
15505	6147	6149	1.412	27	0
15506	6183	6175	0.421	28	0
15513	291	1506	4.606	47	0
15515	6186	1183	1.297	27	0
15517	1413	1412	1.950	32	0
15518	6189	2788	2.107	25	0
15519	2734	6191	1.897	32	0
15520	6190	2800	0.501	35	0
15521	6190	6189	2.116	32	0
15522	6191	6190	3.045	32	0
15523	2797	6191	2.080	32	0
15531	2715	6193	2.050	45	0
15532	6218	1413	1.950	32	0
15534	6196	1182	1.073	27	0
15535	1181	1505	4.604	47	0
15537	6185	1197	0.756	47	0
15538	264	1203	1.950	27	0
15539	6218	264	0.750	47	0
15540	1505	1504	1.939	25	0
15541	1505	6219	10.969	47	0
15542	1506	1505	1.976	25	0
15543	1506	6209	11.800	47	0
15549	6200	943	1.067	50	0
15551	6201	944	0.584	50	0
15555	6203	947	1.608	50	0
15557	6204	209	1.104	50	0
15564	6205	1714	2.538	25	0
15565	6205	6206	2.435	21	0
15566	6206	1704	2.400	35	0
15567	6207	1813	2.433	13	0
15568	6208	1812	2.417	13	0
15569	6207	1666	2.167	21	0
15570	6208	6207	2.167	21	0
15571	6206	6208	2.167	21	0
15583	6209	6185	2.675	47	0

Beams Cont...

Beam	Node A	Node B	Length (m)	Property	β (degrees)
15584	6209	6219	1.992	43	0
15586	6211	1413	2.675	13	0
15587	6219	6218	2.675	47	0
15588	6219	6211	2.004	43	0
15593	6213	1175	0.297	51	0
15598	6214	1732	0.297	35	0
15613	6221	2079	2.538	25	0
15614	6222	2069	2.400	35	0
15615	6223	2178	2.433	13	0
15616	6224	2177	2.417	13	0
15627	6225	2097	0.297	63	0
15632	2305	6227	2.050	45	0
15633	6228	3153	2.107	25	0
15634	6229	3159	0.501	21	0
15635	3103	6230	1.897	32	0
15636	6229	6228	2.116	32	0
15637	6230	6229	3.045	32	0
15638	3156	6230	2.080	32	0
15644	6231	5670	0.659	25	0
15645	5677	6231	3.003	32	0
15654	2986	2985	1.950	32	0
15655	2885	6233	2.050	45	0
15656	6234	2987	1.026	32	0
15657	5316	6235	2.050	45	0
15658	5417	5586	2.500	62	0
15659	5586	6266	0.501	25	0
15671	6244	6243	1.903	35	0
15672	6243	6238	0.419	35	0
15676	6252	6256	1.981	25	0
15680	6255	2376	2.527	32	0
15682	6255	6264	1.922	25	0
15683	6256	1705	6.614	25	0
15684	6259	6263	3.582	13	0
15685	6263	2378	2.401	13	0
15686	6263	6255	0.578	25	0
15691	6264	6265	2.638	25	0
15692	6265	5586	0.977	25	0
15693	5417	6265	2.684	32	0
15694	6266	6267	2.224	25	0
15695	6267	6256	1.826	25	0
15696	6253	6266	2.453	32	0
15697	6261	6267	2.047	21	0
15713	6268	3520	2.107	25	0
15714	6269	3526	0.501	21	0
15715	6271	5682	0.659	25	0
15716	3480	6270	1.897	32	0
15717	6269	6268	2.116	32	0
15718	6270	6269	3.045	32	0
15719	5685	6271	3.003	32	0
15720	3523	6270	2.080	32	0
15734	5680	5683	2.055	32	0
15735	5680	5686	2.273	21	0
15736	5312	6277	1.869	21	0
15737	6272	5319	1.256	32	0

Beams Cont...

Beam	Node A	Node B	Length (m)	Property	β (degrees)
15738	6273	5320	1.932	32	0
15739	6274	3173	2.641	32	0
15740	6275	2848	2.057	32	0
15741	6276	2842	0.900	13	0
15742	6277	5317	3.846	32	0
15743	6276	2835	1.729	21	0
15744	6275	6276	2.124	21	0
15745	6274	6275	1.967	21	0
15746	6273	6274	1.867	21	0
15747	6272	6273	1.862	21	0
15748	6277	6272	1.557	21	0
15764	5322	6283	1.576	33	0
15766	6279	3893	2.107	25	0
15768	6282	5696	0.659	25	0
15769	3853	6281	1.897	32	0
15770	6280	6279	2.116	32	0
15771	6281	6280	3.045	32	0
15772	5701	6282	3.005	32	0
15773	3896	6281	2.080	21	0
15774	6280	3899	0.501	21	0
15786	6283	5325	0.580	32	0
15787	6284	5326	1.257	32	0
15788	6285	5327	1.933	32	0
15789	6286	5328	2.607	32	0
15790	6287	3616	2.057	32	0
15791	6288	3610	0.900	13	0
15792	6288	3603	1.729	33	0
15793	6287	6288	2.124	33	0
15794	6286	6287	1.966	33	0
15795	6285	6286	1.867	33	0
15796	6284	6285	1.862	33	0
15797	6283	6284	1.856	33	0
15812	3447	6290	2.050	45	0
15813	3369	3368	1.950	32	0
15814	3277	6292	2.050	45	0
15816	3810	6294	2.050	45	0
15819	4544	6298	2.050	45	0
15822	4557	6302	2.050	45	0
15832	4725	6306	2.050	45	0
15847	5331	6315	1.576	18	0
15848	6312	5334	1.933	32	0
15849	6313	5335	2.607	32	0
15850	6314	4339	2.057	32	0
15851	6313	6314	1.966	18	0
15852	6312	6313	1.867	18	0
15853	6315	5332	0.580	32	0
15854	6316	5333	1.257	32	0
15855	6316	6312	1.862	18	0
15861	6317	4333	0.900	32	0
15873	6314	6317	2.124	18	0
15874	6315	6316	1.856	18	0
15875	6317	4326	1.729	18	0
15876	586	6319	2.060	52	0
15877	6319	6346	1.963	52	0

Beams Cont...

Beam	Node A	Node B	Length (m)	Property	β (degrees)
15878	6331	6319	7.050	11	0
15881	6328	6327	5.407	52	0
15885	6327	6345	5.885	29	0
15888	6328	6329	6.104	29	0
15890	6329	6335	2.714	29	0
15892	6331	6353	1.963	29	0
15893	6333	6320	1.650	29	0
15896	6334	6354	2.272	29	0
15898	6335	6339	4.064	29	0
15899	6336	6329	1.647	39	0
15901	6337	6336	6.124	40	0
15903	6339	6334	1.563	29	0
15904	5582	6343	0.706	40	0
15905	6340	6341	1.567	40	0
15906	6341	6339	1.731	40	0
15907	6102	6340	3.196	11	0
15908	6336	6342	3.158	40	0
15909	6342	6335	1.744	39	0
15910	6342	6341	3.620	40	0
15911	6343	93	1.633	40	0
15912	6343	6340	1.765	40	0
15913	6344	6333	3.523	29	0
15914	6334	6344	5.804	11	0
15915	6345	6494	4.362	29	0
15916	6329	6345	5.573	11	0
15917	6346	6347	1.962	52	0
15918	6347	6348	1.963	52	0
15919	6348	6320	1.963	52	0
15923	6352	6334	0.646	29	0
15924	6353	6352	1.962	29	0
15925	6354	6333	4.517	29	0
15926	6353	6346	7.050	40	0
15927	6352	6347	7.050	40	0
15928	6354	6348	5.197	40	0
15940	6365	6329	4.200	54	25
15941	6366	6334	4.200	54	25
15961	6024	6376	2.393	29	0
15962	6369	6373	5.885	29	0
15963	6370	6378	0.956	40	0
15964	6373	6375	4.362	29	0
15965	6030	6377	2.421	50	0
15966	6090	6382	1.887	11	0
15967	6375	6372	1.416	29	0
15968	6376	6369	2.392	29	0
15969	6377	6373	2.422	50	0
15970	6376	6377	6.069	40	0
15971	6378	6379	2.309	40	0
15972	6379	6380	2.293	40	0
15973	6380	6381	2.684	40	0
15974	6381	6372	2.673	40	0
15975	6377	6385	4.567	40	0
15976	6382	6378	2.206	40	0
15977	6383	6380	2.188	29	0
15978	6384	6379	2.197	40	0

Beams Cont...

Beam	Node A	Node B	Length (m)	Property	β (degrees)
15979	6385	6375	2.460	11	0
15980	6383	6385	2.673	11	0
15981	6384	6383	2.271	11	0
15982	6382	6384	2.287	11	0
15983	6385	6381	2.183	40	0
15997	6327	6369	4.000	55	25
15998	6345	6373	4.000	55	25
16001	6494	6375	4.000	55	25
16007	6389	6335	4.200	54	25
16008	6444	6449	3.600	58	0
16009	6445	6450	3.600	58	0
16010	6446	6451	3.600	58	0
16011	6434	6441	3.600	58	0
16012	6435	6439	3.600	58	0
16013	6436	6440	3.600	58	0
16015	6448	6453	3.600	58	0
16016	6447	6452	3.600	58	0
16017	6438	6442	3.600	58	0
16018	6437	6443	3.600	58	0
16019	6393	6405	1.950	59	0
16020	6399	6407	1.950	59	0
16021	6394	6409	1.950	59	0
16022	6400	6411	1.950	59	0
16023	6390	6413	1.950	59	0
16024	6397	6415	1.950	59	0
16025	6391	6417	1.950	59	0
16026	6398	6419	1.950	59	0
16027	6390	6449	1.400	57	0
16028	6397	6453	1.400	57	0
16029	6391	6450	1.400	57	0
16030	6398	6452	1.400	57	0
16031	6392	6451	1.400	57	0
16032	6392	6401	2.150	59	0
16033	6395	6402	2.150	59	0
16034	6403	6390	2.000	59	0
16035	6404	6393	2.000	59	0
16036	6405	6406	1.950	59	0
16037	6406	6399	1.950	59	0
16038	6407	6408	1.950	59	0
16039	6408	6394	1.950	59	0
16040	6409	6410	1.950	59	0
16041	6410	6400	1.950	59	0
16042	6411	6412	1.950	59	0
16043	6412	6395	1.950	59	0
16044	6413	6414	1.950	59	0
16045	6414	6397	1.950	59	0
16046	6415	6416	1.950	59	0
16047	6416	6391	1.950	59	0
16048	6417	6418	1.950	59	0
16049	6418	6398	1.950	59	0
16050	6419	6420	1.950	59	0
16051	6420	6392	1.950	59	0
16052	6403	6465	1.400	59	0
16053	6401	6464	1.400	59	0

Beams Cont...

Beam	Node A	Node B	Length (m)	Property	β (degrees)
16054	6413	6466	1.400	59	0
16055	6414	6467	1.400	59	0
16056	6415	6468	1.400	59	0
16057	6416	6469	1.400	59	0
16058	6417	6470	1.400	59	0
16059	6418	6471	1.400	59	0
16060	6419	6472	1.400	59	0
16061	6420	6473	1.400	59	0
16076	1729	1842	1.950	30	0
16077	1935	6422	2.050	45	0
16078	6423	961	1.698	11	0
16079	6423	6433	1.202	43	0
16080	960	6428	1.976	39	0
16081	6424	6427	1.281	39	0
16082	6424	6432	2.998	43	0
16083	6425	6017	3.960	40	0
16084	6426	6016	4.740	49	0
16085	6427	6432	2.707	49	0
16088	6430	6018	3.181	40	0
16089	6429	6424	0.619	39	0
16090	6428	6431	0.513	39	0
16091	6430	6019	1.973	39	0
16092	6425	6430	1.977	39	0
16093	6426	6425	1.977	39	0
16094	6427	6426	1.976	39	0
16095	6431	6429	1.540	39	0
16096	6431	6008	6.420	40	0
16097	6432	5995	2.628	43	0
16113	6433	961	0.556	40	0
16114	6433	5993	4.480	43	0
16115	6434	3961	0.680	19	0
16116	6435	3962	0.680	20	0
16117	6436	3963	0.680	34	0
16118	6437	4122	0.696	44	0
16119	6438	4117	0.696	44	0
16120	6439	6394	0.680	57	0
16121	6440	6395	0.680	57	0
16122	6441	6393	0.680	57	0
16123	6442	6399	0.680	57	0
16124	6443	6400	0.680	57	0
16125	6444	3984	0.200	20	0
16126	6445	3985	0.200	20	0
16127	6446	3986	0.200	34	0
16128	6447	6437	4.670	44	0
16129	6448	6438	4.670	44	0
16130	6449	6441	4.670	57	0
16131	6450	6439	4.670	57	0
16132	6451	6440	4.670	57	0
16133	6452	6443	4.670	57	0
16134	6453	6442	4.670	57	0
16135	6454	6402	0.680	59	0
16136	6455	6404	0.680	59	0
16137	6456	6405	0.680	59	0
16138	6457	6406	0.680	59	0

Beams Cont...

Beam	Node A	Node B	Length (m)	Property	β (degrees)
16139	6458	6407	0.680	59	0
16140	6459	6408	0.680	59	0
16141	6460	6409	0.680	59	0
16142	6461	6410	0.680	59	0
16143	6462	6411	0.680	59	0
16144	6463	6412	0.680	59	0
16145	6441	6456	1.950	57	0
16146	6442	6458	1.950	57	0
16147	6439	6460	1.950	57	0
16148	6443	6462	1.950	57	0
16149	6440	6454	2.150	57	0
16150	6455	6441	2.000	57	0
16151	6456	6457	1.950	57	0
16152	6457	6442	1.950	57	0
16153	6458	6459	1.950	57	0
16154	6459	6439	1.950	57	0
16155	6460	6461	1.950	57	0
16156	6461	6443	1.950	57	0
16157	6462	6463	1.950	57	0
16158	6463	6440	1.950	57	0
16159	6464	6454	4.670	59	0
16160	6465	6455	4.670	59	0
16161	6466	6456	4.670	59	0
16162	6467	6457	4.670	59	0
16163	6468	6458	4.670	59	0
16164	6469	6459	4.670	59	0
16165	6470	6460	4.670	59	0
16166	6471	6461	4.670	59	0
16167	6472	6462	4.670	59	0
16168	6473	6463	4.670	59	0
16169	6449	6466	1.950	57	0
16170	6453	6468	1.950	57	0
16171	6450	6470	1.950	57	0
16172	6452	6472	1.950	57	0
16173	6451	6464	2.150	57	0
16174	6465	6449	2.000	57	0
16175	6466	6467	1.950	57	0
16176	6467	6453	1.950	57	0
16177	6468	6469	1.950	57	0
16178	6469	6450	1.950	57	0
16179	6470	6471	1.950	57	0
16180	6471	6452	1.950	57	0
16181	6472	6473	1.950	57	0
16182	6473	6451	1.950	57	0
16183	6320	6525	2.050	52	0
16184	6478	6501	1.800	52	0
16185	6480	6527	1.635	52	0
16186	6474	6488	4.875	52	0
16187	6488	6482	3.525	52	0
16188	6482	6476	6.000	52	0
16189	6327	6510	1.842	52	0
16190	6345	6506	1.946	17	0
16192	6484	6499	1.800	17	0
16193	6494	6344	3.976	29	0

Beams Cont...

Beam	Node A	Node B	Length (m)	Property	β (degrees)
16194	6494	6503	1.862	17	0
16195	6344	6516	1.576	11	0
16196	6490	6500	1.800	11	0
16197	6492	6528	1.635	11	0
16198	6478	6490	4.875	11	0
16199	6480	6492	4.875	11	0
16200	6490	6484	3.525	11	0
16201	6495	6513	1.000	17	0
16202	6492	6495	3.525	11	0
16203	6497	6345	4.200	55	0
16204	6498	6494	4.200	55	0
16205	6496	6344	4.200	54	0
16206	6491	6490	4.200	54	0
16208	6493	6492	4.200	54	0
16219	6499	6514	0.500	17	0
16220	6500	6492	1.800	11	0
16221	6501	6480	1.800	52	0
16222	6501	6500	4.875	40	0
16223	6500	6499	3.525	40	0
16224	6503	6484	1.862	17	0
16225	6506	6507	1.946	17	0
16226	6507	6508	1.945	17	0
16227	6508	6509	1.946	17	0
16228	6509	6482	1.946	17	0
16229	6510	6511	1.842	52	0
16230	6511	6512	1.842	52	0
16231	6512	6476	1.842	52	0
16232	6506	6510	5.784	40	0
16233	6507	6511	5.684	40	0
16234	6508	6512	5.588	40	0
16235	6509	6476	5.493	40	0
16236	6506	6503	3.599	40	0
16237	6507	6484	2.860	40	0
16239	6513	6529	0.635	17	0
16240	6513	6509	0.943	40	0
16241	6514	6495	1.300	17	0
16242	6514	6508	1.901	40	0
16243	6494	6516	3.613	40	0
16244	6515	6517	1.862	52	0
16245	6516	6518	1.862	11	0
16247	6516	6515	4.787	40	0
16248	6517	6478	1.862	52	0
16249	6518	6490	1.862	11	0
16250	6517	6518	4.831	40	0
16251	6518	6503	3.569	40	0
16252	6525	6515	1.576	52	0
16253	6525	6344	4.749	40	0
16293	6527	6474	1.635	52	0
16294	6528	6488	1.635	11	0
16295	6528	6527	4.875	40	0
16296	6529	6482	1.635	17	0
16297	6529	6528	3.525	40	0
16302	4898	6530	2.040	45	0
16303	5051	6531	1.953	45	0

Beams Cont...

Beam	Node A	Node B	Length (m)	Property	β (degrees)
16304	5117	6532	1.953	45	0

Section Properties

Prop	Section	Area (cm^2)	I_{yy} (cm^4)	I_{zz} (cm^4)	J (cm^4)	Material
11	Rect 0.60x0.50	3E+3	625E+3	900E+3	1.24E+6	CONCR49
12	Rect 0.50x0.15	750.000	14.1E+3	156E+3	45.6E+3	CONCR49
13	Rect 0.50x0.15	750.000	14.1E+3	156E+3	45.6E+3	CONCR49
14	Cir 0.90	6.36E+3	3.22E+6	3.22E+6	6.44E+6	CONCR49
15	Cir 0.70	3.85E+3	1.18E+6	1.18E+6	2.36E+6	CONCR49
16	Rect 0.80x0.50	4E+3	833E+3	2.13E+6	2.04E+6	CONCR49
17	Rect 0.80x0.50	4E+3	833E+3	2.13E+6	2.04E+6	CONCR49
18	Rect 0.80x0.50	4E+3	833E+3	2.13E+6	2.04E+6	CONCR49
19	Rect 0.80x0.50	4E+3	833E+3	2.13E+6	2.04E+6	CONCR49
20	Rect 0.80x0.50	4E+3	833E+3	2.13E+6	2.04E+6	CONCR49
21	Rect 0.80x0.50	4E+3	833E+3	2.13E+6	2.04E+6	CONCR49
22	Rect 0.80x0.20	1.6E+3	53.3E+3	853E+3	180E+3	CONCR49
23	Rect 0.80x0.20	1.6E+3	53.3E+3	853E+3	180E+3	CONCR49
24	Rect 0.80x0.20	1.6E+3	53.3E+3	853E+3	180E+3	CONCR49
25	Rect 0.80x0.20	1.6E+3	53.3E+3	853E+3	180E+3	CONCR49
26	Rect 0.80x0.25	2E+3	104E+3	1.07E+6	335E+3	CONCR49
27	Rect 2.20x0.50	11E+3	2.29E+6	44.4E+6	7.85E+6	CONCR49
28	Rect 1.50x0.50	7.5E+3	1.56E+6	14.1E+6	4.94E+6	CONCR49
29	Rect 0.60x0.40	2.4E+3	320E+3	720E+3	751E+3	CONCR49
30	Rect 0.80x0.15	1.2E+3	22.5E+3	640E+3	79.4E+3	CONCR49
31	Rect 0.80x0.15	1.2E+3	22.5E+3	640E+3	79.4E+3	CONCR49
32	Rect 0.80x0.15	1.2E+3	22.5E+3	640E+3	79.4E+3	CONCR49
33	Rect 0.80x0.60	4.8E+3	1.44E+6	2.56E+6	3.11E+6	CONCR49
34	Rect 0.80x0.60	4.8E+3	1.44E+6	2.56E+6	3.11E+6	CONCR49
35	Rect 0.80x0.60	4.8E+3	1.44E+6	2.56E+6	3.11E+6	CONCR49
36	Rect 1.20x0.60	7.2E+3	2.16E+6	8.64E+6	5.93E+6	CONCR49
37	Rect 1.00x0.60	6E+3	1.8E+6	5E+6	4.51E+6	CONCR49
38	Rect 1.20x0.50	6E+3	1.25E+6	7.2E+6	3.69E+6	CONCR49
39	Rect 0.60x0.60	3.6E+3	1.08E+6	1.08E+6	1.82E+6	CONCR49
40	Rect 0.60x0.15	900.000	16.9E+3	270E+3	56.9E+3	CONCR49
41	Rect 0.80x0.30	2.4E+3	180E+3	1.28E+6	550E+3	CONCR49
42	Rect 0.80x0.60	4.8E+3	1.44E+6	2.56E+6	3.11E+6	CONCR49
43	Rect 0.60x0.30	1.8E+3	135E+3	540E+3	371E+3	CONCR49
44	Rect 0.80x0.40	3.2E+3	427E+3	1.71E+6	1.17E+6	CONCR49
45	Rect 0.55x0.50	2.75E+3	573E+3	693E+3	1.05E+6	CONCR49
46	Rect 0.25x0.20	500.000	16.7E+3	26E+3	34.2E+3	CONCR49
47	Rect 1.00x0.25	2.5E+3	130E+3	2.08E+6	439E+3	CONCR49
48	Rect 1.10x0.50	5.5E+3	1.15E+6	5.55E+6	3.28E+6	CONCR49
49	Rect 0.60x0.20	1.2E+3	40E+3	360E+3	126E+3	CONCR49
50	Rect 0.60x0.65	3.9E+3	1.37E+6	1.17E+6	2.12E+6	CONCR49
51	Rect 1.00x0.60	6E+3	1.8E+6	5E+6	4.51E+6	CONCR49
52	Rect 0.60x1.00	6E+3	5E+6	1.8E+6	4.51E+6	CONCR49
53	Rect 0.80x1.00	8E+3	6.67E+6	4.27E+6	8.76E+6	CONCR49
54	Rect 0.30x0.40	1.2E+3	160E+3	90E+3	194E+3	CONCR49
55	Rect 0.40x0.60	2.4E+3	720E+3	320E+3	751E+3	CONCR49
56	Cir 1.10	9.5E+3	7.19E+6	7.19E+6	14.4E+6	CONCR49
57	Rect 0.40x0.40	1.6E+3	213E+3	213E+3	360E+3	CONCR49

Section Properties Cont...

Prop	Section	Area (cm^2)	I_{yy} (cm^4)	I_{zz} (cm^4)	J (cm^4)	Material
58	Cir 0.40	1.26E+3	126E+3	126E+3	251E+3	CONCR49
59	Rect 0.40x0.15	600.000	11.3E+3	80E+3	34.4E+3	CONCR49
60	Rect 1.00x1.00	10E+3	8.33E+6	8.33E+6	14.1E+6	CONCR49
61	Rect 0.70x0.60	4.2E+3	1.26E+6	1.71E+6	2.44E+6	CONCR49
62	Rect 1.00x1.20	12E+3	14.4E+6	10E+6	19.8E+6	CONCR49
63	Rect 0.80x0.80	6.4E+3	3.41E+6	3.41E+6	5.76E+6	CONCR49
64	Rect 0.60x0.80	4.8E+3	2.56E+6	1.44E+6	3.11E+6	CONCR49
65	Rect 0.60x0.65	3.9E+3	1.37E+6	1.17E+6	2.12E+6	CONCR49
66	Rect 1.20x0.60	7.2E+3	2.16E+6	8.64E+6	5.93E+6	CONCR49
67	Rect 0.80x0.30	2.4E+3	180E+3	1.28E+6	550E+3	CONCR49

Plate Thickness

Prop	Node A (cm)	Node B (cm)	Node C (cm)	Node D (cm)	Material
1	60.000	60.000	60.000	60.000	CONCR49
2	10.000	10.000	10.000	10.000	DIAFR
3	10.000	10.000	10.000	10.000	DIAFR
4	10.000	10.000	10.000	10.000	DIAFR
5	10.000	10.000	10.000	10.000	DIAFR
6	10.000	10.000	10.000	10.000	DIAFR
7	10.000	10.000	10.000	10.000	DIAFR
8	30.000	30.000	30.000	30.000	CONCRETE
9	40.000	40.000	40.000	40.000	CONCR49
10	40.000	40.000	40.000	40.000	CONCR0

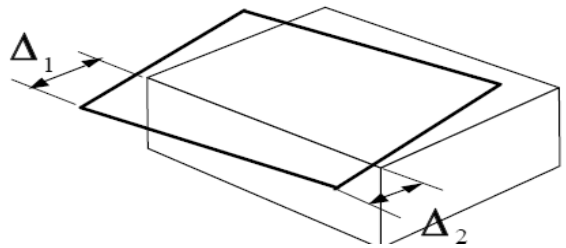
Primary Load Cases

Number	Name	Type
1	DL	Dead
2	LL	Live
3	EQX	Seismic
4	EQZ	Seismic
5	VOL	Dead

CHEQUEO DE IRREGULARIDAD EN PLANTA
TABLA A.3-6 de NSR-10

PROYECTO: **UNAL-SGC**

1. TIPO 1P-IRREGULARIDAD TORSIONAL TIPO 1P

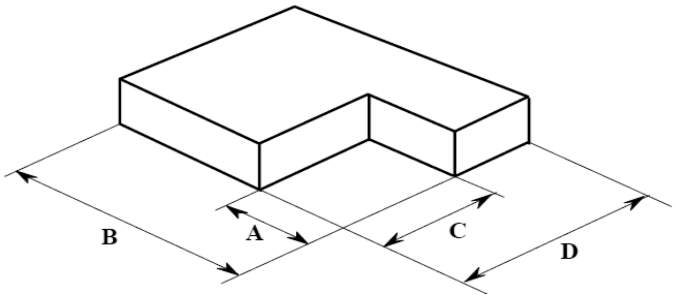


Según análisis de derivas

En X? NO Extrema? NO
En Z? NO Extrema? NO

ϕ_{pX}= 1.00
ϕ_{pZ}= 1.00

2. TIPO 2P-RETROCESOS EN LAS ESQUINAS



A= 19.60 m
B= 75.30 m
C= 9.50 m
D= 26.45 m

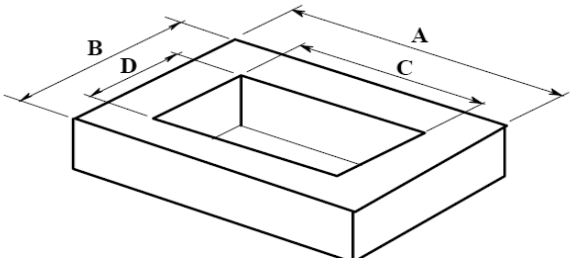
$A > 0.15B$? SI

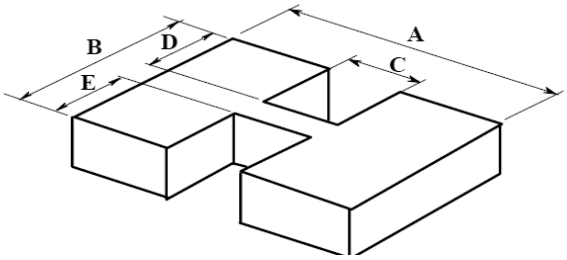
Y

$C > 0.15D$? SI

ϕ_p= 0.9

3. TIPO 3P-IRREGULARIDAD DEL DIAFRAGAMA





A= 83.80 m
B= 38.10 m
C= 44.00 m
D= 15.50 m
E= 0.00 m

$Caso\ 1\ C\ x\ D > 0.5\ A\ x\ B$? NO

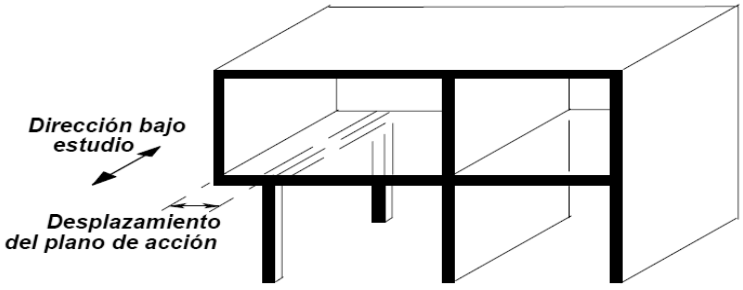
O

Caso 2 (C x D + C x E) $> 0.5\ A\ x\ B$?

Caso **1**

ϕ_p= 1.0

4. TIPO 4P-DESPLAZAMIENTO DE LOS PLANOS DE ACCIÓN

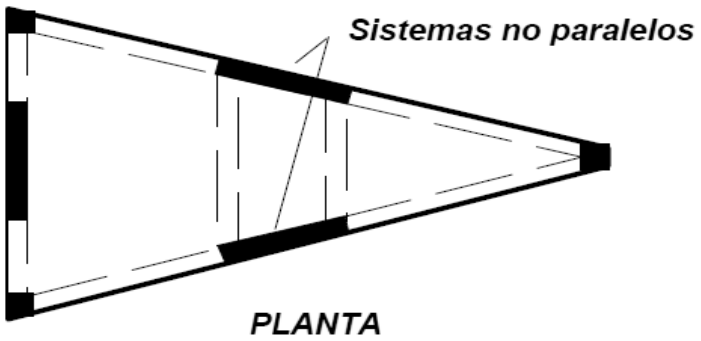


En X? NO
En Z? NO

ϕ_{pX}= 1.00
ϕ_{pZ}= 1.00

CHEQUEO DE IRREGULARIDAD EN PLANTA
TABLA A.3-6 de NSR-10

5. TIPO 5P-SISTEMAS NO PARALELOS



Sistemas no paralelos? SI

ϕ_p= 0.90

FACTOR DE REDUCCIÓN EN PLANTA

ϕ_{pX}= 0.90
ϕ_{pZ}= 0.90

ANÁLISIS AUSENCIA DE REDUNDANCIA

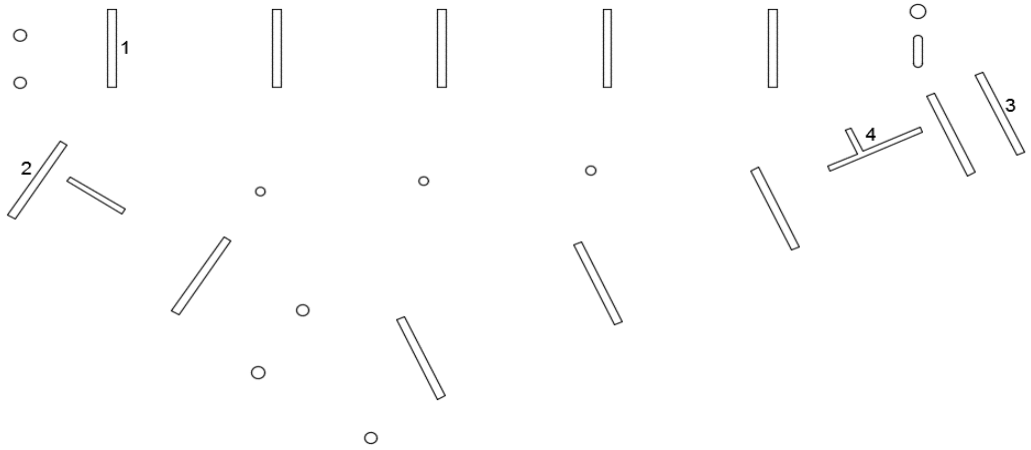
Proyecto: **UNAL-SGC** CALCULÓ: DCC

f'_c = 49 MPa
E_c = 32900 MPa

$$K_{piso} = \frac{1}{\frac{h^3}{3E_C I} + \frac{1.2h}{0.4E_C A_m}}$$

Se compara la rigidez obtenida al eliminar una pantalla o columna con la rigidez total del piso, esta perdida se expresa en porcentaje, si es mayor al 33% se debe considerar el factor de ausencia de redundacia **ϕ_r=0.75**.

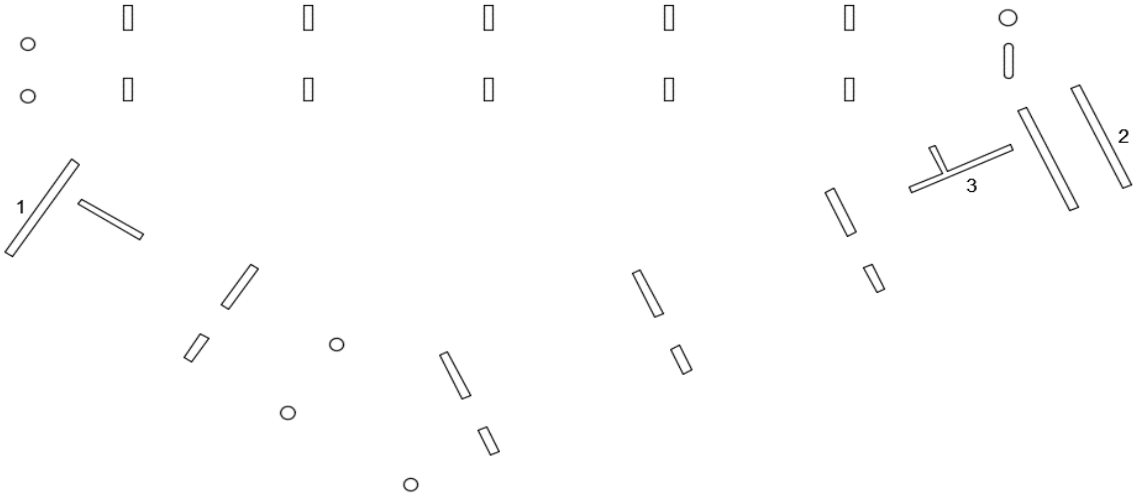
PISO: 1
ALTURA h (m) 4.00



Elemento	A_m (m^2)	$0.4E_cA_m$	I_{totalX} (m^4)	$3E_cI_X$	K_{pisoX}	Perdida K_{pisoX}	I_{totalZ} (m^4)	$3E_cI_Z$	K_{pisoZ}	Perdida K_{pisoZ}
	52.33	6.887E+08	4248.08	4.193E+11	1.404E+08	0%	30680.06	3.028E+12	1.430E+08	0%
1	48.73	6.413E+08	3963.27	3.912E+11	1.307E+08	7%	27394.78	2.704E+12	1.332E+08	7%
2	48.22	6.346E+08	4222.23	4.167E+11	1.296E+08	8%	25406.21	2.508E+12	1.318E+08	8%
3	48.22	6.346E+08	4185.54	4.131E+11	1.295E+08	8%	25682.80	2.535E+12	1.318E+08	8%
4	48.65	6.402E+08	4243.36	4.188E+11	1.307E+08	7%	28324.28	2.796E+12	1.330E+08	7%

PISO: 3 A 9

ALTURA h (m) 4.20



Elemento	A_m (m^2)	$0.4E_cA_m$	I_{totalX} (m^4)	$3E_cI_X$	K_{pisoX}	Perdida K_{pisoX}	I_{totalZ} (m^4)	$3E_cI_Z$	K_{pisoZ}	Perdida K_{pisoZ}
	28.06	3.693E+08	3459.25	3.414E+11	7.567E+07	0%	29474.96	2.909E+12	7.678E+07	0%
1	23.32	3.069E+08	3428.27	3.384E+11	6.305E+07	17%	22480.39	2.219E+12	6.380E+07	17%
2	23.32	3.069E+08	3374.26	3.330E+11	6.304E+07	17%	24026.93	2.371E+12	6.381E+07	17%
3	24.38	3.208E+08	3449.18	3.404E+11	6.588E+07	13%	27395.33	2.704E+12	6.672E+07	13%

CÁLCULO DE FUERZA HORIZONTAL EQUIVALENTE

Proyecto: UNAL-SGC CALCULÓ: DCC

Del análisis se tiene:

S_{aX} = 0.563 S_{aZ} = 0.563

Peso (W)= 25354.15 t

Cortante en la base:

Estático		Dinámico	
V_{sX} (t)	V_{sZ} (t)	Vt_x (t)	Vt_z (t)
14274.39	14274.39	10115.71	9608.79

Regularidad Estructura: I (R=regular; I=Irregular)

Cortante en la base de diseño:	**V_{sX} (t)**	**V_{sZ} (t)**
	12846.95	**12846.95**

Factores de ajuste

F.A.x	F.A.z
1.27	1.34

Fuerza Horizontal Equivalente

Piso	Alt. piso (m)	Área1 (m^2)	CM1 (t/m^2)	Área2 (m^2)	CM2 (t/m^2)	Área3 (m^2)	CM3 (t/m^2)	Ppropio (t)	CV (t/m^2)
Cubierta	4.20	551	0.635	0	0	0	0	510.7	0.5
Piso 12	4.20	342	0.465	148	0.535	0	0	624.7	0.5
Piso 11	4.20	618	0.465	310	0.535	0	0	833.3	0.5
Piso 10	4.20	880	0.465	294	0.535	0	0	1013.5	0.5
Piso 9	4.20	594	0.465	310	0.535	502	0.465	1327.6	0.5
Piso 8	4.20	1185	0.465	390	0.535	0	0	1344.8	0.5
Piso 7	4.20	1191	0.465	361	0.535	0	0	1304.0	0.5
Piso 6	4.20	1186	0.465	398	0.535	0	0	1341.9	0.5
Piso 5	4.20	813	0.465	788	0.535	0	0	1380.2	0.5
Piso 4	4.20	1200	0.465	568	0.535	0	0	1367.9	0.5
Piso 3	4.20	496	0.465	691	0.515	541	0.535	1431.4	0.5
Piso 2	5.80	566	0.691	1131	0.641	0	0	2039.5	0.5
Piso 1	4.00	1353	0.465	477	0.585	0	0	1618.8	0.5
Planta Baja	0.00	2460	0	0	0	0	0	0.0	0.5

Distribución de fuerzas horizontales

T (s) = 1.299 k = 1.4

Piso	hi (m)	wi (t)	wi hi^k	Cvx	Fx (t)	Vx (t)	%Vx (t)
Cubierta	56.00	860.59	719282.19	0.05	701.20	701.20	5.5%
Piso 12	51.80	862.91	667853.89	0.05	651.07	1352.27	10.5%
Piso 11	47.60	1286.52	1073470.49	0.08	1046.49	2398.76	18.7%
Piso 10	43.40	1579.99	1304985.85	0.10	1272.19	3670.95	28.6%
Piso 9	39.20	2003.04	1643052.87	0.12	1601.76	5272.71	41.0%
Piso 8	35.00	2104.48	1572060.75	0.12	1532.55	6805.26	53.0%
Piso 7	30.80	2050.95	1334405.49	0.10	1300.87	8106.13	63.1%
Piso 6	26.60	2106.32	1196232.86	0.09	1166.17	9272.30	72.2%
Piso 5	22.40	2179.78	1056876.77	0.08	1030.31	10302.61	80.2%
Piso 4	18.20	2229.78	886417.27	0.07	864.14	11166.75	86.9%
Piso 3	14.00	2307.29	715271.78	0.05	697.29	11864.04	92.3%
Piso 2	9.80	3155.58	776133.40	0.06	756.63	12620.67	98.2%
Piso 1	4.00	2526.94	232109.49	0.02	226.28	12846.95	100.0%
Planta Baja	0.00	0.00	0.00	0.00	0.00	12846.95	100.0%
		25254.15	***13178153.10***	***1.00***	***12846.95***		

ESPECTRO DE DISEÑO - MICROZONIFICACIÓN SÍSMICA DE BOGOTÁ

Decreto 523 de 2010

Proyecto: **EDIFICIO UNAL-SGC**

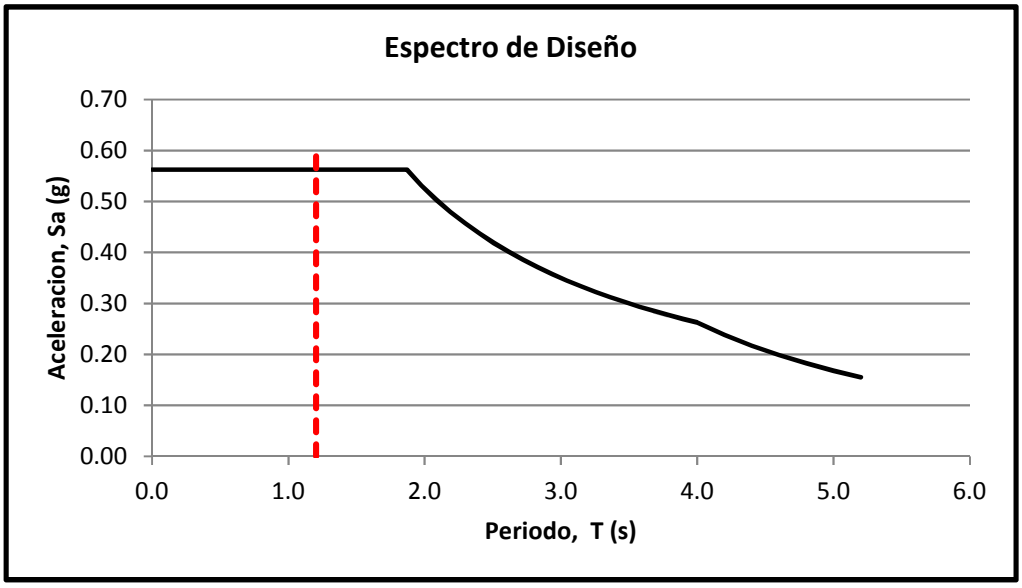
Ciudad: Bogotá CALCULÓ: DCC

Sistema Estructural: COMBINADO EN ALTURA, pórticos y muros en concreto

Zona Microzonificación: LACUSTRE-200

PARÁMETROS SÍSMICOS

A_a =	0.15	**F_a=**	1.20
A_v =	0.20	**F_v=**	3.50
A_0 =	0.18	**Grupo de Uso**	III
T_c (s)=	1.87	**I =**	1.25
T_L (s)=	4.00		



PARÁMETROS DE LA ESTRUCTURA

Sistema estructural: **Sistema a base de muros**

h (m) =	56.00	T_a (s) =	1.003
C_t =	0.049	C_u =	1.2
a =	0.75	C_u*T_a=	1.204 s

PARA ANÁLISIS DINÁMICO

Periodo calculado, T= 1.299 s

Chequeo A.5.4.5 T < C_u*T_a: Usar Cu*Ta

T(s)=	**1.204 s**
S_a =	**0.563**
R_0 =	**5.0**

Node Displacements

Node	L/C	X (mm)	Y (mm)	Z (mm)	Resultant (mm)	rX (rad)	rY (rad)	rZ (rad)
1	6:DERX1	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	7:DERX2	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	8:DERZ1	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	9:DERZ2	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	10:DERX3	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	11:DERX4	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	12:DERZ3	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	13:DERZ4	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2	6:DERX1	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	7:DERX2	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	8:DERZ1	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	9:DERZ2	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	10:DERX3	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	11:DERX4	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	12:DERZ3	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	13:DERZ4	0.000	0.000	0.000	0.000	0.000	0.000	0.000
7	6:DERX1	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	7:DERX2	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	8:DERZ1	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	9:DERZ2	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	10:DERX3	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	11:DERX4	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	12:DERZ3	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	13:DERZ4	0.000	0.000	0.000	0.000	0.000	0.000	0.000
8	6:DERX1	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	7:DERX2	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	8:DERZ1	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	9:DERZ2	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	10:DERX3	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	11:DERX4	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	12:DERZ3	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	13:DERZ4	0.000	0.000	0.000	0.000	0.000	0.000	0.000
23	6:DERX1	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	7:DERX2	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	8:DERZ1	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	9:DERZ2	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	10:DERX3	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	11:DERX4	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	12:DERZ3	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	13:DERZ4	0.000	0.000	0.000	0.000	0.000	0.000	0.000
60	6:DERX1	2.889	-1.096	1.571	3.467	0.000	0.000	0.001
	7:DERX2	-2.683	-4.396	-1.525	5.371	-0.001	-0.000	-0.002
	8:DERZ1	1.216	3.505	2.934	4.730	0.002	0.000	0.000
	9:DERZ2	-1.010	-8.997	-2.887	9.503	-0.002	-0.000	-0.001
	10:DERX3	2.854	-0.079	1.559	3.253	0.000	0.000	0.002
	11:DERX4	-2.719	-3.379	-1.538	4.602	-0.001	-0.000	-0.002
	12:DERZ3	1.181	4.522	2.921	5.511	0.002	0.000	0.001
	13:DERZ4	-1.046	-7.981	-2.900	8.555	-0.002	-0.000	-0.001
61	6:DERX1	3.028	5.775	1.610	6.717	0.001	0.000	-0.000
	7:DERX2	-2.884	-10.587	-1.549	11.082	-0.002	-0.000	-0.000
	8:DERZ1	1.134	1.813	2.667	3.419	-0.000	0.000	-0.000
	9:DERZ2	-0.990	-6.625	-2.606	7.187	-0.001	-0.000	-0.001
	10:DERX3	3.005	6.682	1.595	7.498	0.001	0.000	-0.000
	11:DERX4	-2.907	-9.680	-1.564	10.228	-0.002	-0.000	-0.000

Node Displacements Cont...

Node	L/C	X (mm)	Y (mm)	Z (mm)	Resultant (mm)	rX (rad)	rY (rad)	rZ (rad)
	12:DERZ3	1.111	2.720	2.652	3.958	0.000	0.000	0.000
	13:DERZ4	-1.013	-5.718	-2.621	6.371	-0.001	-0.000	-0.001
66	6:DERX1	2.106	-1.308	1.394	2.844	0.000	0.000	0.001
	7:DERX2	-1.999	-2.274	-1.189	3.253	-0.001	-0.000	-0.001
	8:DERZ1	0.756	-0.953	3.896	4.081	0.001	0.000	0.000
	9:DERZ2	-0.648	-2.629	-3.691	4.577	-0.002	-0.000	-0.000
	10:DERX3	2.091	-0.589	1.343	2.554	0.000	0.000	0.001
	11:DERX4	-2.013	-1.556	-1.240	2.830	-0.001	-0.000	-0.001
	12:DERZ3	0.741	-0.235	3.845	3.922	0.001	0.000	0.000
	13:DERZ4	-0.663	-1.910	-3.742	4.253	-0.002	-0.000	-0.000
67	6:DERX1	1.925	-0.475	1.441	2.451	0.000	0.000	0.000
	7:DERX2	-1.915	-1.270	-1.289	2.635	-0.001	-0.000	-0.001
	8:DERZ1	0.631	-0.064	3.787	3.840	0.001	0.000	0.000
	9:DERZ2	-0.621	-1.681	-3.635	4.053	-0.001	-0.000	-0.000
	10:DERX3	1.929	-0.113	1.400	2.387	0.000	0.000	0.000
	11:DERX4	-1.911	-0.908	-1.329	2.499	-0.001	-0.000	-0.001
	12:DERZ3	0.635	0.298	3.746	3.812	0.001	0.000	0.000
	13:DERZ4	-0.617	-1.319	-3.675	3.953	-0.001	-0.000	-0.000
82	6:DERX1	2.322	-0.474	1.583	2.850	0.001	0.000	0.000
	7:DERX2	-2.162	-2.432	-1.444	3.560	-0.000	-0.000	-0.001
	8:DERZ1	1.163	1.658	3.619	4.147	0.002	0.000	0.000
	9:DERZ2	-1.003	-4.565	-3.480	5.827	-0.002	-0.000	-0.001
	10:DERX3	2.297	0.072	1.551	2.773	0.001	0.000	0.001
	11:DERX4	-2.187	-1.886	-1.475	3.243	-0.001	-0.000	-0.001
	12:DERZ3	1.138	2.204	3.587	4.362	0.002	0.000	0.001
	13:DERZ4	-1.028	-4.018	-3.511	5.434	-0.002	-0.000	-0.001
146	6:DERX1	12.445	-0.407	5.096	13.454	0.001	0.000	0.003
	7:DERX2	-11.998	-6.724	-5.735	14.902	-0.001	-0.000	-0.003
	8:DERZ1	5.023	6.791	13.039	15.536	0.003	0.000	0.002
	9:DERZ2	-4.577	-13.922	-13.678	20.046	-0.003	-0.000	-0.002
	10:DERX3	12.369	0.909	5.198	13.448	0.001	0.000	0.003
	11:DERX4	-12.074	-5.409	-5.633	14.380	-0.001	-0.000	-0.003
	12:DERZ3	4.947	8.106	13.141	16.214	0.003	0.000	0.002
	13:DERZ4	-4.653	-12.606	-13.576	19.102	-0.003	-0.000	-0.002
150	6:DERX1	9.651	-2.367	4.443	10.885	0.001	0.000	0.003
	7:DERX2	-9.522	-4.233	-4.600	11.391	-0.001	-0.000	-0.003
	8:DERZ1	3.349	-1.685	13.456	13.969	0.003	0.000	0.001
	9:DERZ2	-3.221	-4.915	-13.613	14.827	-0.003	-0.000	-0.001
	10:DERX3	9.630	-1.055	4.463	10.666	0.001	0.000	0.003
	11:DERX4	-9.543	-2.920	-4.581	10.981	-0.001	-0.000	-0.003
	12:DERZ3	3.328	-0.372	13.476	13.886	0.003	0.000	0.001
	13:DERZ4	-3.241	-3.603	-13.594	14.432	-0.003	-0.000	-0.001
151	6:DERX1	7.084	-0.796	5.217	8.834	0.001	0.000	0.002
	7:DERX2	-6.949	-2.453	-5.386	9.128	-0.001	-0.000	-0.002
	8:DERZ1	2.497	0.032	11.904	12.163	0.002	0.000	0.001
	9:DERZ2	-2.362	-3.281	-12.073	12.731	-0.003	-0.000	-0.001
	10:DERX3	7.062	-0.122	5.240	8.794	0.001	0.000	0.002
	11:DERX4	-6.972	-1.779	-5.364	8.974	-0.001	-0.000	-0.002
	12:DERZ3	2.474	0.706	11.926	12.201	0.003	0.000	0.001
	13:DERZ4	-2.384	-2.607	-12.050	12.558	-0.003	-0.000	-0.001
166	6:DERX1	13.102	-0.249	5.250	14.117	0.001	0.000	0.003
	7:DERX2	-12.635	-3.498	-5.577	14.247	-0.001	-0.000	-0.004
	8:DERZ1	6.053	3.908	14.485	16.178	0.003	0.000	0.001
	9:DERZ2	-5.586	-7.655	-14.812	17.584	-0.003	-0.000	-0.002

Node Displacements Cont...

Node	L/C	X (mm)	Y (mm)	Z (mm)	Resultant (mm)	rX (rad)	rY (rad)	rZ (rad)
	10:DERX3	13.017	0.460	5.295	14.060	0.001	0.000	0.003
	11:DERX4	-12.720	-2.790	-5.533	14.149	-0.001	-0.000	-0.004
	12:DERZ3	5.968	4.616	14.529	16.371	0.003	0.000	0.001
	13:DERZ4	-5.671	-6.947	-14.767	17.277	-0.003	-0.000	-0.002
227	6:DERX1	9.967	9.615	6.694	15.382	0.002	0.001	0.001
	7:DERX2	-9.549	-16.097	-6.955	19.966	-0.003	-0.001	-0.001
	8:DERZ1	4.422	4.895	10.315	12.244	0.001	0.001	0.001
	9:DERZ2	-4.004	-11.377	-10.576	16.041	-0.002	-0.001	-0.002
	10:DERX3	9.899	10.844	6.726	16.150	0.002	0.001	0.001
	11:DERX4	-9.617	-14.867	-6.923	19.012	-0.003	-0.001	-0.001
	12:DERZ3	4.354	6.124	10.347	12.787	0.001	0.001	0.001
	13:DERZ4	-4.072	-10.147	-10.544	15.190	-0.002	-0.001	-0.001
240	6:DERX1	35.469	0.155	12.668	37.663	0.001	0.000	0.004
	7:DERX2	-35.593	-9.257	-13.952	39.334	-0.001	-0.000	-0.004
	8:DERZ1	13.551	10.920	38.355	42.119	0.004	0.000	0.002
	9:DERZ2	-13.675	-20.022	-39.639	46.466	-0.004	-0.000	-0.002
	10:DERX3	35.527	1.829	12.854	37.825	0.001	0.000	0.004
	11:DERX4	-35.534	-7.582	-13.766	38.854	-0.001	-0.000	-0.004
	12:DERZ3	13.609	12.594	38.541	42.770	0.004	0.000	0.002
	13:DERZ4	-13.616	-18.347	-39.453	45.591	-0.004	-0.000	-0.002
244	6:DERX1	31.911	-3.668	11.360	34.071	0.001	0.000	0.000
	7:DERX2	-32.531	-6.744	-11.594	35.187	-0.001	-0.000	-0.001
	8:DERZ1	10.918	-2.486	37.035	38.690	0.002	0.000	0.001
	9:DERZ2	-11.538	-7.926	-37.268	39.810	-0.002	-0.000	-0.001
	10:DERX3	32.049	-1.637	11.370	34.046	0.001	0.000	0.000
	11:DERX4	-32.392	-4.712	-11.584	34.723	-0.001	-0.000	-0.000
	12:DERZ3	11.056	-0.455	37.045	38.662	0.002	0.000	0.001
	13:DERZ4	-11.400	-5.895	-37.258	39.406	-0.002	-0.000	-0.001
245	6:DERX1	31.366	-1.005	11.550	33.440	0.000	0.000	0.002
	7:DERX2	-32.134	-4.189	-11.833	34.499	-0.001	-0.000	-0.002
	8:DERZ1	10.534	0.460	37.253	38.717	0.002	0.000	0.001
	9:DERZ2	-11.302	-5.654	-37.537	39.607	-0.002	-0.000	-0.001
	10:DERX3	31.525	0.064	11.565	33.579	0.000	0.000	0.002
	11:DERX4	-31.975	-3.119	-11.818	34.232	-0.001	-0.000	-0.002
	12:DERZ3	10.693	1.530	37.269	38.802	0.002	0.000	0.001
	13:DERZ4	-11.144	-4.585	-37.521	39.409	-0.002	-0.000	-0.001
322	6:DERX1	33.681	17.451	14.028	40.444	0.002	0.000	0.005
	7:DERX2	-34.017	-27.505	-14.994	46.244	-0.002	-0.000	-0.003
	8:DERZ1	12.088	12.639	38.813	42.571	0.005	0.000	0.002
	9:DERZ2	-12.424	-22.693	-39.779	47.452	-0.005	-0.000	-0.000
	10:DERX3	33.770	19.375	14.149	41.424	0.002	0.000	0.004
	11:DERX4	-33.928	-25.582	-14.873	45.019	-0.002	-0.000	-0.003
	12:DERZ3	12.177	14.562	38.934	43.315	0.005	0.000	0.002
	13:DERZ4	-12.335	-20.769	-39.658	46.436	-0.005	-0.000	-0.001
1638	6:DERX1	55.045	0.208	19.852	58.516	0.001	0.000	0.005
	7:DERX2	-56.044	-10.798	-21.479	60.983	-0.001	-0.000	-0.005
	8:DERZ1	20.500	13.642	62.851	67.503	0.004	0.000	0.003
	9:DERZ2	-21.499	-24.232	-64.478	72.158	-0.004	-0.000	-0.003
	10:DERX3	55.297	2.156	20.074	58.867	0.001	0.000	0.005
	11:DERX4	-55.792	-8.850	-21.258	60.357	-0.001	-0.000	-0.005
	12:DERZ3	20.751	15.590	63.072	68.204	0.004	0.000	0.003
	13:DERZ4	-21.247	-22.284	-64.257	71.253	-0.004	-0.000	-0.003
1640	6:DERX1	51.369	-4.546	17.644	54.505	0.001	0.000	0.004
	7:DERX2	-53.002	-8.520	-18.381	56.742	-0.002	-0.000	-0.004

Node Displacements Cont...

Node	L/C	X (mm)	Y (mm)	Z (mm)	Resultant (mm)	rX (rad)	rY (rad)	rZ (rad)
	8:DERZ1	17.860	-3.800	59.665	62.397	0.005	0.000	0.001
	9:DERZ2	-19.493	-9.267	-60.402	64.142	-0.006	-0.000	-0.001
	10:DERX3	51.720	-2.012	17.732	54.713	0.001	0.000	0.004
	11:DERX4	-52.651	-5.986	-18.292	56.058	-0.002	-0.000	-0.004
	12:DERZ3	18.211	-1.265	59.754	62.480	0.005	0.000	0.001
	13:DERZ4	-19.142	-6.732	-60.313	63.635	-0.005	-0.000	-0.001
1641	6:DERX1	50.610	-1.123	17.848	53.677	0.002	0.000	0.004
	7:DERX2	-52.377	-4.904	-18.682	55.825	-0.002	-0.000	-0.004
	8:DERZ1	17.286	0.604	60.143	62.580	0.005	0.000	0.001
	9:DERZ2	-19.053	-6.631	-60.977	64.227	-0.005	-0.000	-0.001
	10:DERX3	50.978	0.120	17.950	54.046	0.002	0.000	0.004
	11:DERX4	-52.009	-3.661	-18.580	55.349	-0.002	-0.000	-0.004
	12:DERZ3	17.654	1.846	60.245	62.805	0.005	0.000	0.001
	13:DERZ4	-18.685	-5.388	-60.875	63.905	-0.005	-0.000	-0.001
1675	6:DERX1	53.453	19.323	21.031	60.605	0.002	0.000	0.006
	7:DERX2	-54.740	-30.778	-22.482	66.702	-0.002	-0.000	-0.004
	8:DERZ1	19.041	14.720	63.595	67.997	0.006	0.000	0.003
	9:DERZ2	-20.328	-26.176	-65.047	73.003	-0.006	-0.000	-0.000
	10:DERX3	53.749	21.512	21.214	61.659	0.002	0.000	0.006
	11:DERX4	-54.444	-28.589	-22.299	65.412	-0.002	-0.000	-0.004
	12:DERZ3	19.337	16.909	63.778	68.757	0.006	0.000	0.003
	13:DERZ4	-20.032	-23.987	-64.864	71.999	-0.006	-0.000	-0.001
2003	6:DERX1	78.004	-0.017	27.640	82.756	0.001	0.000	0.005
	7:DERX2	-80.094	-11.997	-29.720	86.269	-0.001	-0.001	-0.005
	8:DERZ1	28.864	15.522	91.702	97.382	0.005	0.000	0.003
	9:DERZ2	-30.954	-27.536	-93.782	102.525	-0.005	-0.001	-0.003
	10:DERX3	78.486	2.196	27.918	83.333	0.001	0.000	0.005
	11:DERX4	-79.611	-9.783	-29.441	85.443	-0.001	-0.000	-0.005
	12:DERZ3	29.346	17.736	91.980	98.164	0.005	0.000	0.003
	13:DERZ4	-30.471	-25.323	-93.504	101.551	-0.005	-0.001	-0.003
2005	6:DERX1	74.424	-5.359	25.207	78.759	0.001	0.000	0.003
	7:DERX2	-77.200	-10.062	-26.538	82.252	-0.002	-0.000	-0.003
	8:DERZ1	26.104	-5.157	87.368	91.330	0.005	0.000	0.001
	9:DERZ2	-28.881	-10.264	-88.700	93.846	-0.006	-0.000	-0.001
	10:DERX3	75.002	-2.387	25.389	79.219	0.002	0.000	0.003
	11:DERX4	-76.621	-7.090	-26.356	81.337	-0.002	-0.000	-0.003
	12:DERZ3	26.683	-2.185	87.551	91.553	0.005	0.000	0.001
	13:DERZ4	-28.302	-7.292	-88.517	93.217	-0.006	-0.000	-0.001
2006	6:DERX1	73.129	-1.190	25.440	77.437	0.001	0.000	0.003
	7:DERX2	-76.113	-5.240	-26.888	80.893	-0.001	-0.000	-0.003
	8:DERZ1	25.082	0.678	87.761	91.277	0.003	0.000	0.001
	9:DERZ2	-28.066	-7.108	-89.209	93.789	-0.004	-0.000	-0.001
	10:DERX3	73.735	0.137	25.636	78.065	0.001	0.000	0.003
	11:DERX4	-75.507	-3.913	-26.692	80.181	-0.001	-0.000	-0.003
	12:DERZ3	25.688	2.005	87.956	91.653	0.003	0.000	0.001
	13:DERZ4	-27.459	-5.781	-89.013	93.331	-0.004	-0.000	-0.001
2040	6:DERX1	76.143	20.807	28.746	84.005	0.002	0.000	0.007
	7:DERX2	-78.589	-33.632	-30.759	90.849	-0.002	-0.000	-0.004
	8:DERZ1	27.084	16.457	92.630	97.901	0.007	0.000	0.003
	9:DERZ2	-29.530	-29.283	-94.643	103.377	-0.007	-0.000	-0.001
	10:DERX3	76.683	23.235	29.006	85.214	0.002	0.000	0.006
	11:DERX4	-78.049	-31.203	-30.499	89.417	-0.002	-0.000	-0.005
	12:DERZ3	27.624	18.886	92.890	98.733	0.007	0.000	0.003
	13:DERZ4	-28.990	-26.854	-94.383	102.321	-0.007	-0.000	-0.001

Node Displacements Cont...

Node	L/C	X (mm)	Y (mm)	Z (mm)	Resultant (mm)	rX (rad)	rY (rad)	rZ (rad)
2395	6:DERX1	102.231	-0.397	35.926	108.360	0.001	0.001	0.006
	7:DERX2	-105.748	-12.933	-38.678	113.340	-0.002	-0.001	-0.005
	8:DERZ1	37.936	16.789	123.866	130.628	0.006	0.001	0.004
	9:DERZ2	-41.454	-30.120	-126.617	136.593	-0.006	-0.001	-0.003
	10:DERX3	102.999	2.060	36.300	109.228	0.001	0.001	0.005
	11:DERX4	-104.980	-10.476	-38.303	112.240	-0.001	-0.001	-0.005
	12:DERZ3	38.704	19.246	124.240	131.545	0.006	0.001	0.004
	13:DERZ4	-40.685	-27.663	-126.243	135.491	-0.006	-0.001	-0.003
2397	6:DERX1	98.865	-6.114	33.868	104.684	0.002	0.001	0.006
	7:DERX2	-103.221	-11.448	-35.468	109.744	-0.003	-0.001	-0.006
	8:DERZ1	34.571	-6.617	118.771	123.877	0.008	0.001	0.002
	9:DERZ2	-38.928	-10.945	-120.370	126.981	-0.008	-0.001	-0.002
	10:DERX3	99.757	-2.751	34.064	105.449	0.002	0.001	0.006
	11:DERX4	-102.329	-8.085	-35.271	108.539	-0.003	-0.001	-0.006
	12:DERZ3	35.464	-3.254	118.967	124.183	0.008	0.001	0.002
	13:DERZ4	-38.036	-7.582	-120.174	126.277	-0.008	-0.001	-0.002
2432	6:DERX1	100.403	21.635	36.982	109.163	0.002	0.001	0.007
	7:DERX2	-104.334	-35.737	-39.786	117.241	-0.003	-0.001	-0.004
	8:DERZ1	35.980	17.489	125.236	131.470	0.007	0.001	0.003
	9:DERZ2	-39.911	-31.591	-128.039	137.786	-0.008	-0.001	-0.001
	10:DERX3	101.232	24.303	37.355	110.607	0.002	0.001	0.007
	11:DERX4	-103.505	-33.069	-39.413	115.586	-0.003	-0.001	-0.005
	12:DERZ3	36.809	20.157	125.608	132.433	0.007	0.001	0.003
	13:DERZ4	-39.082	-28.923	-127.667	136.612	-0.008	-0.001	-0.001
2805	6:DERX1	127.071	-0.781	44.533	134.650	0.001	0.001	0.006
	7:DERX2	-132.272	-13.649	-48.091	141.404	-0.002	-0.001	-0.005
	8:DERZ1	47.370	17.390	157.852	165.721	0.006	0.001	0.004
	9:DERZ2	-52.572	-31.820	-161.410	172.712	-0.006	-0.001	-0.003
	10:DERX3	128.176	1.881	45.028	135.868	0.001	0.001	0.006
	11:DERX4	-131.167	-10.987	-47.596	139.967	-0.002	-0.001	-0.005
	12:DERZ3	48.475	20.052	158.347	166.810	0.006	0.001	0.004
	13:DERZ4	-51.467	-29.158	-160.915	171.442	-0.006	-0.001	-0.003
2838	6:DERX1	125.133	21.966	45.570	134.972	0.002	0.001	0.007
	7:DERX2	-130.826	-37.252	-49.278	144.677	-0.003	-0.001	-0.004
	8:DERZ1	44.966	17.827	159.453	166.628	0.007	0.001	0.003
	9:DERZ2	-50.659	-33.113	-163.161	174.024	-0.008	-0.001	-0.001
	10:DERX3	126.311	24.861	46.078	136.732	0.002	0.001	0.007
	11:DERX4	-129.649	-34.358	-48.769	142.716	-0.003	-0.001	-0.005
	12:DERZ3	46.143	20.721	159.962	167.769	0.008	0.001	0.003
	13:DERZ4	-49.481	-30.218	-162.653	172.677	-0.008	-0.001	-0.001
3203	6:DERX1	151.855	-1.117	53.358	160.960	0.001	0.001	0.006
	7:DERX2	-158.912	-14.205	-57.770	169.682	-0.002	-0.001	-0.005
	8:DERZ1	56.774	17.596	192.520	201.486	0.006	0.001	0.004
	9:DERZ2	-63.832	-32.918	-196.931	209.619	-0.006	-0.001	-0.003
	10:DERX3	153.334	1.714	53.981	162.568	0.001	0.001	0.006
	11:DERX4	-157.432	-11.374	-57.147	167.869	-0.002	-0.001	-0.005
	12:DERZ3	58.254	20.427	193.142	202.768	0.006	0.001	0.004
	13:DERZ4	-62.352	-30.087	-196.308	208.159	-0.006	-0.001	-0.003
3233	6:DERX1	149.695	21.951	54.384	160.774	0.002	0.001	0.007
	7:DERX2	-157.375	-38.303	-59.053	172.398	-0.003	-0.001	-0.004
	8:DERZ1	53.672	17.701	194.182	202.239	0.008	0.001	0.003
	9:DERZ2	-61.351	-34.052	-198.851	210.868	-0.008	-0.001	-0.001
	10:DERX3	151.264	25.056	55.035	162.903	0.002	0.001	0.007
	11:DERX4	-155.806	-35.199	-58.402	170.074	-0.003	-0.001	-0.005

Node Displacements Cont...

Node	L/C	X (mm)	Y (mm)	Z (mm)	Resultant (mm)	rX (rad)	rY (rad)	rZ (rad)
	12:DERZ3	55.241	20.805	194.833	203.579	0.008	0.001	0.003
	13:DERZ4	-59.782	-30.948	-198.200	209.320	-0.008	-0.001	-0.001
3572	6:DERX1	147.984	-7.450	52.348	157.146	0.002	0.001	0.006
	7:DERX2	-156.357	-13.525	-54.863	166.254	-0.003	-0.001	-0.006
	8:DERZ1	51.012	-8.769	187.271	194.292	0.008	0.001	0.002
	9:DERZ2	-59.386	-12.206	-189.787	199.235	-0.008	-0.001	-0.002
	10:DERX3	149.647	-3.450	52.706	158.694	0.002	0.001	0.006
	11:DERX4	-154.695	-9.526	-54.505	164.292	-0.003	-0.001	-0.006
	12:DERZ3	52.675	-4.769	187.629	194.941	0.008	0.001	0.002
	13:DERZ4	-57.723	-8.207	-189.429	198.198	-0.008	-0.001	-0.002
3576	6:DERX1	176.097	-1.463	62.317	186.804	0.001	0.001	0.006
	7:DERX2	-185.307	-14.552	-67.620	197.795	-0.002	-0.001	-0.005
	8:DERZ1	65.880	17.350	227.176	237.171	0.006	0.001	0.004
	9:DERZ2	-75.090	-33.365	-232.478	246.572	-0.006	-0.001	-0.003
	10:DERX3	178.009	1.500	63.070	188.857	0.001	0.001	0.005
	11:DERX4	-183.396	-11.589	-66.866	195.549	-0.002	-0.001	-0.005
	12:DERZ3	67.791	20.313	227.929	238.663	0.006	0.001	0.004
	13:DERZ4	-73.179	-30.402	-231.725	244.900	-0.006	-0.001	-0.003
3606	6:DERX1	173.642	21.763	63.364	186.119	0.002	0.001	0.007
	7:DERX2	-183.591	-39.055	-69.023	199.988	-0.003	-0.001	-0.004
	8:DERZ1	62.051	17.346	228.890	237.786	0.008	0.001	0.003
	9:DERZ2	-72.000	-34.638	-234.549	247.785	-0.008	-0.001	-0.001
	10:DERX3	175.656	25.060	64.158	188.678	0.002	0.001	0.007
	11:DERX4	-181.576	-35.759	-68.229	197.241	-0.003	-0.001	-0.005
	12:DERZ3	64.066	20.643	229.684	239.344	0.008	0.001	0.003
	13:DERZ4	-69.986	-31.341	-233.755	246.012	-0.008	-0.001	-0.001
3938	6:DERX1	199.408	-1.642	71.250	211.761	0.001	0.001	0.006
	7:DERX2	-211.135	-14.964	-77.489	225.403	-0.002	-0.001	-0.005
	8:DERZ1	74.531	17.201	261.243	272.211	0.006	0.001	0.004
	9:DERZ2	-86.259	-33.807	-267.483	283.073	-0.007	-0.001	-0.003
	10:DERX3	201.838	1.437	72.143	214.348	0.001	0.001	0.005
	11:DERX4	-208.705	-11.884	-76.596	222.634	-0.002	-0.001	-0.005
	12:DERZ3	76.961	20.281	262.137	273.952	0.006	0.001	0.004
	13:DERZ4	-83.828	-30.727	-266.589	281.143	-0.006	-0.001	-0.003
3968	6:DERX1	197.235	21.672	72.426	211.227	0.002	0.001	0.007
	7:DERX2	-209.753	-39.769	-79.058	227.657	-0.003	-0.001	-0.004
	8:DERZ1	70.189	17.120	263.413	273.141	0.007	0.001	0.004
	9:DERZ2	-82.706	-35.217	-270.045	284.614	-0.008	-0.001	-0.000
	10:DERX3	199.768	25.152	73.360	214.293	0.002	0.001	0.007
	11:DERX4	-207.220	-36.288	-78.124	224.411	-0.003	-0.001	-0.005
	12:DERZ3	72.722	20.601	264.347	274.940	0.008	0.001	0.003
	13:DERZ4	-80.173	-31.737	-269.111	282.587	-0.008	-0.001	-0.001
4288	6:DERX1	194.874	-8.274	70.706	207.470	0.002	0.001	0.006
	7:DERX2	-208.250	-14.870	-74.569	221.698	-0.003	-0.001	-0.006
	8:DERZ1	65.901	-10.090	256.214	264.746	0.008	0.001	0.002
	9:DERZ2	-79.277	-13.053	-260.078	272.205	-0.008	-0.001	-0.002
	10:DERX3	197.534	-3.845	71.259	210.029	0.002	0.001	0.006
	11:DERX4	-205.590	-10.441	-74.016	218.757	-0.003	-0.001	-0.006
	12:DERZ3	68.561	-5.661	256.767	265.824	0.008	0.001	0.002
	13:DERZ4	-76.617	-8.624	-259.525	270.735	-0.008	-0.001	-0.002
4299	6:DERX1	222.947	-1.436	80.586	237.069	0.002	0.001	0.006
	7:DERX2	-237.879	-15.642	-87.946	254.098	-0.003	-0.001	-0.006
	8:DERZ1	82.992	17.900	295.815	307.757	0.008	0.001	0.002
	9:DERZ2	-97.924	-34.978	-303.175	320.511	-0.008	-0.001	-0.002

Node Displacements Cont...

Node	L/C	X (mm)	Y (mm)	Z (mm)	Resultant (mm)	rX (rad)	rY (rad)	rZ (rad)
	10:DERX3	226.043	1.738	81.651	240.344	0.002	0.001	0.006
	11:DERX4	-234.784	-12.467	-86.881	250.654	-0.003	-0.001	-0.006
	12:DERZ3	86.088	21.074	296.880	309.827	0.008	0.001	0.002
	13:DERZ4	-94.829	-31.803	-302.110	318.236	-0.008	-0.001	-0.002
4329	6:DERX1	220.024	21.702	82.022	235.816	0.002	0.001	0.007
	7:DERX2	-235.444	-40.301	-89.702	255.156	-0.003	-0.001	-0.004
	8:DERZ1	77.765	17.128	297.992	308.448	0.007	0.001	0.003
	9:DERZ2	-93.186	-35.726	-305.673	321.552	-0.008	-0.001	-0.000
	10:DERX3	223.159	25.293	83.113	239.473	0.002	0.001	0.006
	11:DERX4	-232.309	-36.710	-88.611	251.330	-0.003	-0.001	-0.005
	12:DERZ3	80.901	20.719	299.084	310.524	0.008	0.001	0.003
	13:DERZ4	-90.050	-32.135	-304.582	319.236	-0.008	-0.001	-0.001
4676	6:DERX1	245.110	-1.571	89.951	261.099	0.002	0.002	0.006
	7:DERX2	-263.531	-15.848	-98.739	281.867	-0.003	-0.002	-0.005
	8:DERZ1	90.000	17.752	329.181	341.724	0.007	0.002	0.003
	9:DERZ2	-108.421	-35.171	-337.969	356.672	-0.009	-0.002	-0.002
	10:DERX3	248.942	1.679	91.254	265.145	0.002	0.002	0.006
	11:DERX4	-259.700	-12.598	-97.436	277.662	-0.003	-0.002	-0.006
	12:DERZ3	93.832	21.002	330.484	344.187	0.008	0.002	0.002
	13:DERZ4	-104.590	-31.921	-336.666	353.980	-0.009	-0.002	-0.002
4696	6:DERX1	240.806	21.470	91.701	258.569	0.002	0.002	0.008
	7:DERX2	-260.407	-40.712	-100.948	282.241	-0.003	-0.001	-0.002
	8:DERZ1	83.111	16.877	331.098	341.787	0.007	0.002	0.004
	9:DERZ2	-102.712	-36.118	-340.345	357.336	-0.008	-0.001	0.001
	10:DERX3	244.826	25.216	93.057	263.126	0.002	0.002	0.007
	11:DERX4	-256.387	-36.966	-99.592	277.524	-0.003	-0.002	-0.004
	12:DERZ3	87.131	20.623	332.454	344.300	0.007	0.002	0.003
	13:DERZ4	-98.692	-32.372	-338.989	354.545	-0.008	-0.002	-0.000
4916	6:DERX1	236.980	-8.580	88.688	253.177	0.003	0.001	0.005
	7:DERX2	-257.124	-15.415	-94.334	274.316	-0.003	-0.002	-0.004
	8:DERZ1	77.070	-10.583	323.116	332.349	0.006	0.001	0.002
	9:DERZ2	-97.215	-13.412	-328.761	343.095	-0.007	-0.002	-0.001
	10:DERX3	241.055	-3.968	89.494	257.162	0.003	0.002	0.005
	11:DERX4	-253.049	-10.802	-93.528	269.996	-0.003	-0.002	-0.004
	12:DERZ3	81.146	-5.970	323.921	333.983	0.006	0.001	0.001
	13:DERZ4	-93.139	-8.800	-327.956	341.039	-0.007	-0.002	-0.001
5312	6:DERX1	123.501	-6.947	43.197	131.022	0.002	0.001	0.002
	7:DERX2	-129.889	-12.568	-45.056	138.055	-0.002	-0.001	-0.003
	8:DERZ1	42.995	-7.819	152.781	158.908	0.008	0.001	0.001
	9:DERZ2	-49.383	-11.696	-154.640	162.754	-0.008	-0.001	-0.002
	10:DERX3	124.785	-3.223	43.435	132.168	0.002	0.001	0.003
	11:DERX4	-128.605	-8.844	-44.819	136.477	-0.002	-0.001	-0.003
	12:DERZ3	44.279	-4.095	153.018	159.349	0.008	0.001	0.001
	13:DERZ4	-48.099	-7.972	-154.402	161.917	-0.008	-0.001	-0.002
5322	6:DERX1	171.531	-8.025	61.593	182.431	0.003	0.001	0.003
	7:DERX2	-182.376	-14.236	-64.648	194.018	-0.002	-0.001	-0.002
	8:DERZ1	58.710	-9.513	222.008	229.836	0.008	0.001	0.002
	9:DERZ2	-69.554	-12.748	-225.062	235.910	-0.007	-0.001	-0.002
	10:DERX3	173.688	-3.778	62.018	184.467	0.003	0.001	0.003
	11:DERX4	-180.219	-9.989	-64.222	191.581	-0.002	-0.001	-0.002
	12:DERZ3	60.867	-5.266	222.433	230.670	0.008	0.001	0.002
	13:DERZ4	-67.398	-8.501	-224.637	234.684	-0.008	-0.001	-0.002
5331	6:DERX1	217.346	-8.609	79.335	231.533	0.003	0.001	0.002
	7:DERX2	-233.484	-15.198	-84.464	248.757	-0.002	-0.002	-0.002

Node Displacements Cont...

Node	L/C	X (mm)	Y (mm)	Z (mm)	Resultant (mm)	rX (rad)	rY (rad)	rZ (rad)
	8:DERZ1	73.365	-10.434	292.304	301.551	0.008	0.001	0.002
	9:DERZ2	-89.503	-13.372	-297.433	310.896	-0.008	-0.001	-0.002
	10:DERX3	220.585	-4.040	80.090	234.709	0.003	0.001	0.002
	11:DERX4	-230.246	-10.629	-83.709	245.221	-0.002	-0.002	-0.002
	12:DERZ3	76.603	-5.866	293.059	302.962	0.008	0.001	0.002
	13:DERZ4	-86.264	-8.803	-296.678	309.091	-0.008	-0.001	-0.002

VERIFICACIÓN DE DERIVAS MÁXIMAS

PROYECTO: **EDIFICIO UNAL-SGC** CALCULÓ: DCC

DERX1 *DERZ1*

Piso	Nudo	Dx (mm)	Deriva X	Deriva X %	Dz (mm)	Deriva Z	Deriva Z %
NE+46.55m	4676	261.099			341.724		
NE+42.35m	4299	237.069	24.030	0.57%	307.757	33.967	0.81%
NE+38.15m	3938	211.761	25.308	0.60%	272.211	35.546	0.85%
NE+33.95m	3576	186.804	24.957	0.59%	237.171	35.040	0.83%
NE+29.75m	3203	160.960	25.844	0.62%	201.486	35.685	0.85%
NE+25.55m	2805	134.650	26.310	0.63%	165.721	35.765	0.85%
NE+21.35m	2395	108.360	26.290	0.63%	130.628	35.093	0.84%
NE+17.15m	2003	82.756	25.604	0.61%	97.382	33.246	0.79%
NE+12.95m	1638	58.516	24.240	0.58%	67.503	29.879	0.71%
NE+8.75m	240	37.663	20.853	0.50%	42.119	25.384	0.60%
NE+2.95m	146	13.454	24.209	0.42%	15.536	26.583	0.46%
NE-1.05m	60	3.467	9.987	0.25%	4.73	10.806	0.27%
NE-5.25m	1	0.000	3.467	0.08%	0	4.730	0.11%

DERX2 *DERZ2*

Piso	Nudo	Dx (mm)	Deriva X	Deriva X %	Dz (mm)	Deriva Z	Deriva Z %
NE+46.55m	4696	282.241			357.336		
NE+42.35m	4329	255.156	27.085	0.64%	321.552	35.784	0.85%
NE+38.15m	3968	227.657	27.499	0.65%	284.614	36.938	0.88%
NE+33.95m	3606	199.988	27.669	0.66%	247.785	36.829	0.88%
NE+29.75m	3233	172.398	27.590	0.66%	210.868	36.917	0.88%
NE+25.55m	2838	144.677	27.721	0.66%	174.024	36.844	0.88%
NE+21.35m	2432	117.241	27.436	0.65%	137.786	36.238	0.86%
NE+17.15m	2040	90.849	26.392	0.63%	103.377	34.409	0.82%
NE+12.95m	1675	66.702	24.147	0.57%	73.003	30.374	0.72%
NE+8.75m	322	46.244	20.458	0.49%	47.452	25.551	0.61%
NE+2.95m	227	19.966	26.278	0.45%	16.041	31.411	0.54%
NE-1.05m	61	11.082	8.884	0.22%	7.187	8.854	0.22%
NE-5.25m	2	0.000	11.082	0.26%	0	7.187	0.17%

DERX3 *DERZ3*

Piso	Nudo	Dx (mm)	Deriva X	Deriva X %	Dz (mm)	Deriva Z	Deriva Z %
NE+46.55m	4916	257.162			333.983		
NE+42.35m	5331	234.709	22.453	0.53%	302.962	31.021	0.74%
NE+38.15m	4288	210.029	24.680	0.59%	265.824	37.138	0.88%
NE+33.95m	5322	184.467	25.562	0.61%	230.67	35.154	0.84%
NE+29.75m	3572	158.694	25.773	0.61%	194.941	35.729	0.85%
NE+25.55m	5312	132.168	26.526	0.63%	159.349	35.592	0.85%
NE+21.35m	2397	105.449	26.719	0.64%	124.183	35.166	0.84%
NE+17.15m	2005	79.219	26.230	0.62%	91.553	32.630	0.78%
NE+12.95m	1640	54.713	24.506	0.58%	62.48	29.073	0.69%
NE+8.75m	244	34.046	20.667	0.49%	38.662	23.818	0.57%
NE+2.95m	150	10.666	23.380	0.40%	13.886	24.776	0.43%
NE-1.05m	66	2.554	8.112	0.20%	3.922	9.964	0.25%
NE-5.25m	7	0.000	2.554	0.06%	0	3.922	0.09%

DERX4 *DERZ4*

Piso	Nudo	Dx (mm)	Deriva X	Deriva X %	Dz (mm)	Deriva Z	Deriva Z %
NE+17.15m	2006	80.181			93.331		
NE+12.95m	1641	55.349	24.832	0.59%	63.905	29.426	0.70%
NE+8.75m	245	34.232	21.117	0.50%	39.409	24.496	0.58%
NE+2.95m	151	8.974	25.258	0.44%	12.558	26.851	0.46%
NE-1.05m	67	2.499	6.475	0.16%	3.953	8.605	0.22%
NE-5.25m	8	0.000	2.499	0.06%	0	3.953	0.09%

DERX1 *DERZ1*

Piso	Nudo	Dx (mm)	Deriva X	Deriva X %	Dz (mm)	Deriva Z	Deriva Z %
NE+38.15m	3946	212.299			270.272		
NE+33.95m	3584	188.701	23.598	0.56%	236.485	33.787	0.80%
NE+29.75m	3211	162.682	26.019	0.62%	200.465	36.020	0.86%
NE+25.55m	2814	136.134	26.548	0.63%	164.451	36.014	0.86%
NE+21.35m	2408	109.714	26.420	0.63%	129.307	35.144	0.84%
NE+17.15m	2016	83.967	25.747	0.61%	96.058	33.249	0.79%
NE+12.95m	1651	58.996	24.971	0.59%	65.4	30.658	0.73%
NE+8.75m	260	38.764	20.232	0.48%	40.384	25.016	0.60%
NE+2.95m	166	14.117	24.647	0.42%	16.178	24.206	0.42%
NE-1.05m	82	2.850	11.267	0.28%	4.147	12.031	0.30%
NE-5.25m	23	0.000	2.850	0.07%	0	4.147	0.10%

DERX2 *DERZ2*

Piso	Nudo	Dx (mm)	Deriva X	Deriva X %	Dz (mm)	Deriva Z	Deriva Z %
NE+38.15m	3959	225.982			282.848		
NE+33.95m	3597	201.255	24.727	0.59%	248.192	34.656	0.83%
NE+29.75m	3224	172.953	28.302	0.67%	211.183	37.009	0.88%
NE+25.55m	2829	144.437	28.516	0.68%	174.169	37.014	0.88%
NE+21.35m	2423	116.155	28.282	0.67%	138.278	35.891	0.85%
NE+17.15m	2031	89.119	27.036	0.64%	104.553	33.725	0.80%
NE+12.95m	1666	62.950	26.169	0.62%	74.138	30.415	0.72%
NE+8.75m	300	42.528	20.422	0.49%	49.64	24.498	0.58%
NE+2.95m	222	16.309	26.219	0.45%	23.842	25.798	0.44%
NE-1.05m	141	5.276	11.033	0.28%	10.409	13.433	0.34%
NE-5.25m	24	0.000	5.276	0.13%	0	10.409	0.25%

DERX3 *DERZ3*

Piso	Nudo	Dx (mm)	Deriva X	Deriva X %	Dz (mm)	Deriva Z	Deriva Z %
NE+38.15m	3950	218.509			260.639		
NE+33.95m	3588	193.475	25.034	0.60%	225.26	35.379	0.84%
NE+29.75m	3215	166.313	27.162	0.65%	188.576	36.684	0.87%
NE+25.55m	2818	138.724	27.589	0.66%	153.198	35.378	0.84%
NE+21.35m	2412	111.283	27.441	0.65%	119.989	33.209	0.79%
NE+17.15m	2020	85.351	25.932	0.62%	90.095	29.894	0.71%
NE+12.95m	1655	59.660	25.691	0.61%	62.78	27.315	0.65%
NE+8.75m	268	39.163	20.497	0.49%	40.193	22.587	0.54%
NE+2.95m	174	15.151	24.012	0.41%	17.376	22.817	0.39%
NE-1.05m	90	3.147	12.004	0.30%	5.524	11.852	0.30%
NE-5.25m	31	0.000	3.147	0.07%	0	5.524	0.13%

DERX4 *DERZ4*

Piso	Nudo	Dx (mm)	Deriva X	Deriva X %	Dz (mm)	Deriva Z	Deriva Z %
NE+38.15m	3963	225.647			264.91		
NE+33.95m	3601	200.663	24.984	0.59%	229.769	35.141	0.84%
NE+29.75m	3228	172.380	28.283	0.67%	193.113	36.656	0.87%
NE+25.55m	2833	143.485	28.895	0.69%	157.568	35.545	0.85%
NE+21.35m	2427	114.873	28.612	0.68%	124.43	33.138	0.79%
NE+17.15m	2035	88.301	26.572	0.63%	94.951	29.479	0.70%
NE+12.95m	1670	61.750	26.551	0.63%	68.432	26.519	0.63%
NE+8.75m	304	41.478	20.272	0.48%	46.753	21.679	0.52%
NE+2.95m	226	16.863	24.615	0.42%	22.854	23.899	0.41%
NE-1.05m	145	4.569	12.294	0.31%	10.006	12.848	0.32%
NE-5.25m	32	0.000	4.569	0.11%	0	10.006	0.24%

DERX1 *DERZ1*

Piso	Nudo	Dx (mm)	Deriva X	Deriva X %	Dz (mm)	Deriva Z	Deriva Z %
NE+54.95m	5255	299.303			419.369		
NE+50.75m	5098	277.931	21.372	0.51%	380.348	39.021	0.93%
NE+46.55m	4856	254.558	23.373	0.56%	340.944	39.404	0.94%
NE+42.35m	4596	231.360	23.198	0.55%	301.858	39.086	0.93%
NE+38.15m	4234	206.841	24.519	0.58%	264.266	37.592	0.90%
NE+33.95m	3873	182.046	24.795	0.59%	228.113	36.153	0.86%
NE+29.75m	3500	156.449	25.597	0.61%	192.455	35.658	0.85%
NE+25.55m	3126	130.686	25.763	0.61%	157.343	35.112	0.84%
NE+21.35m	2759	104.562	26.124	0.62%	123.106	34.237	0.82%
NE+17.15m	2367	78.507	26.055	0.62%	91.061	32.045	0.76%
NE+12.95m	2002	54.024	24.483	0.58%	62.486	28.575	0.68%
NE+8.75m	1637	34.029	19.995	0.48%	39.108	23.378	0.56%
NE+2.95m	153	10.335	23.694	0.41%	15.646	23.462	0.40%
NE-1.05m	69	2.455	7.880	0.20%	5.115	10.531	0.26%
NE-5.25m	10	0.000	2.455	0.06%	0	5.115	0.12%

DERX2 *DERZ2*

Piso	Nudo	Dx (mm)	Deriva X	Deriva X %	Dz (mm)	Deriva Z	Deriva Z %
NE+56.12m	5150	325.416			441.472		
NE+50.75m	4936	299.679	25.737	0.46%	392.077	49.395	0.88%
NE+46.55m	4693	273.731	25.948	0.62%	351.48	40.597	0.97%
NE+42.35m	4326	246.974	26.757	0.64%	311.126	40.354	0.96%
NE+38.15m	3965	220.241	26.733	0.64%	272.273	38.853	0.93%
NE+33.95m	3603	192.804	27.437	0.65%	234.993	37.280	0.89%
NE+29.75m	3230	165.102	27.702	0.66%	198.615	36.378	0.87%
NE+25.55m	2835	137.348	27.754	0.66%	163.136	35.479	0.84%
NE+21.35m	2429	109.376	27.972	0.67%	128.965	34.171	0.81%
NE+17.15m	2037	81.952	27.424	0.65%	97.05	31.915	0.76%
NE+12.95m	1672	56.818	25.134	0.60%	68.634	28.416	0.68%
NE+8.75m	319	36.011	20.807	0.50%	45.884	22.750	0.54%
NE+2.95m	230	10.544	25.467	0.44%	20.718	25.166	0.43%
NE-1.05m	70	5.633	4.911	0.12%	10.359	10.359	0.26%
NE-5.25m	11	0.000	5.633	0.13%	0	10.359	0.25%

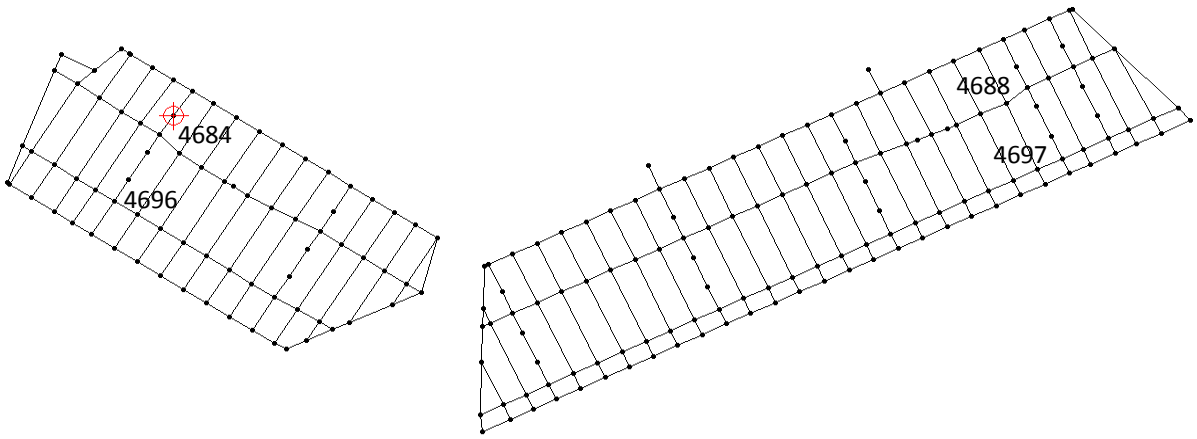
DERX3 *DERZ3*

Piso	Nudo	Dx (mm)	Deriva X	Deriva X %	Dz (mm)	Deriva Z	Deriva Z %
NE+54.95m	5142	326.588			423.148		
NE+50.75m	4923	301.870	24.718	0.59%	382.468	40.680	0.97%
NE+46.55m	4680	276.224	25.646	0.61%	341.725	40.743	0.97%
NE+42.35m	4303	249.861	26.363	0.63%	301.11	40.615	0.97%
NE+38.15m	3942	222.732	27.129	0.65%	261.072	40.038	0.95%
NE+33.95m	3580	195.407	27.325	0.65%	222.414	38.658	0.92%
NE+29.75m	3207	167.692	27.715	0.66%	185.157	37.257	0.89%
NE+25.55m	2810	139.818	27.874	0.66%	149.755	35.402	0.84%
NE+21.35m	2402	112.040	27.778	0.66%	116.45	33.305	0.79%
NE+17.15m	2010	86.029	26.011	0.62%	89.371	27.079	0.64%
NE+12.95m	1645	61.119	24.910	0.59%	64.204	25.167	0.60%
NE+8.75m	252	39.845	21.274	0.51%	42.353	21.851	0.52%
NE+2.95m	158	15.684	24.161	0.42%	17.899	24.454	0.42%
NE-1.05m	74	4.895	10.789	0.27%	6.323	11.576	0.29%
NE-5.25m	15	0.000	4.895	0.12%	0	6.323	0.15%

DERX4 *DERZ4*

Piso	Nudo	Dx (mm)	Deriva X	Deriva X %	Dz (mm)	Deriva Z	Deriva Z %
NE+56.12m	5153	339.171			432.761		
NE+50.75m	4940	309.731	29.440	0.52%	381.483	51.278	0.91%
NE+46.55m	4697	283.398	26.333	0.63%	341.057	40.426	0.96%
NE+42.35m	4330	256.086	27.312	0.65%	300.813	40.244	0.96%
NE+38.15m	3969	228.030	28.056	0.67%	261.186	39.627	0.94%
NE+33.95m	3607	199.857	28.173	0.67%	222.844	38.342	0.91%
NE+29.75m	3234	171.556	28.301	0.67%	186.105	36.739	0.87%
NE+25.55m	2839	143.216	28.340	0.67%	151.49	34.615	0.82%
NE+21.35m	2433	115.344	27.872	0.66%	120.138	31.352	0.75%
NE+17.15m	2041	88.790	26.554	0.63%	93.118	27.020	0.64%
NE+12.95m	1676	64.174	24.616	0.59%	69.42	23.698	0.56%
NE+8.75m	323	43.641	20.533	0.49%	48.963	20.457	0.49%
NE+2.95m	233	18.269	25.372	0.44%	22.025	26.938	0.46%
NE-1.05m	76	10.400	7.869	0.20%	10.712	11.313	0.28%
NE-5.25m	17	0.000	10.400	0.25%	0	10.712	0.26%

Verificación Irregularidad 1P (Piso 10):

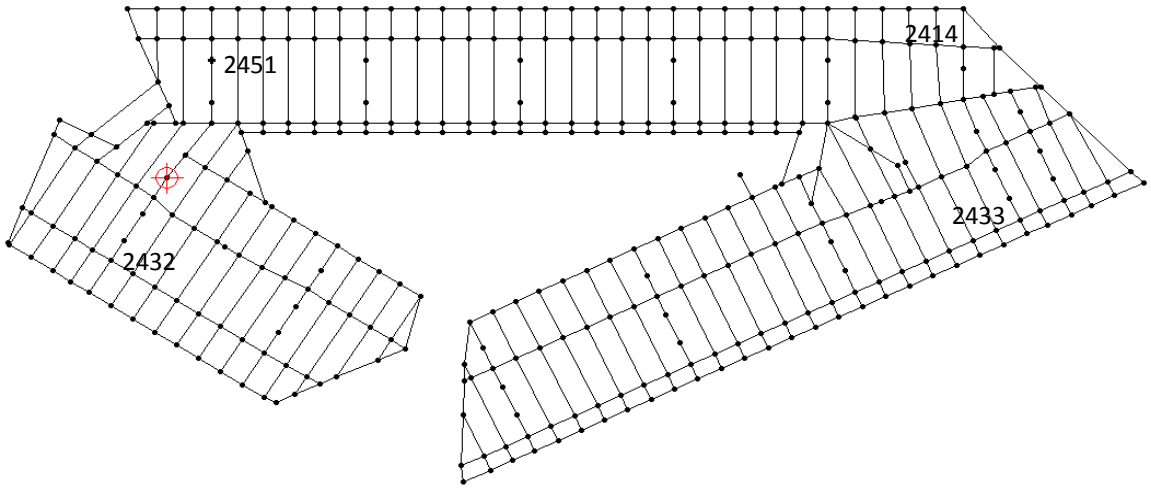


NUDO	Caso :	DERX1		NUDO	Caso :	DERX3	
4697	D_1 (mm)=	274.33		4688	D_1 (mm)=	275.85	
4684	D_2 (mm)=	260.40		4684	D_2 (mm)=	264.44	
	D_{LIM} (mm)=	320.84	**OK**		D_{LIM} (mm)=	324.17	**OK**
	Factor=	1.03			Factor=	1.02	

NUDO	Caso :	DERZ1		NUDO	Caso :	DERZ3	
4696	D_1 (mm)=	341.79		4696	D_1 (mm)=	344.30	
4688	D_2 (mm)=	340.36		4697	D_2 (mm)=	341.23	
	D_{LIM} (mm)=	409.29	**OK**		D_{LIM} (mm)=	411.32	**OK**
	Factor=	1.002			Factor=	1.00	

Ax = 0.697
Factor: 1.035

Verificación Irregularidad 1P (Piso 5):

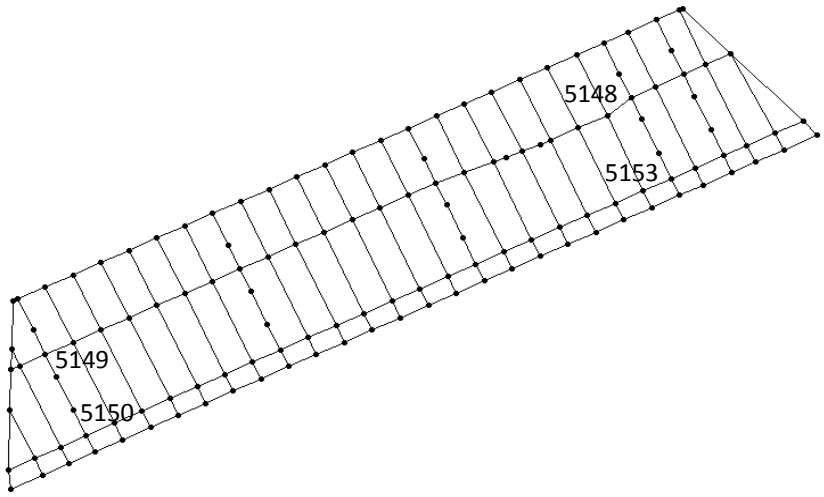


NUDO	Caso :	DERX2		NUDO	Caso :	DERX4	
2432	D_1 (mm)=	117.24		2433	D_1 (mm)=	115.34	
2414	D_2 (mm)=	114.93		2414	D_2 (mm)=	114.42	
	D_{LIM} (mm)=	139.30	**OK**		D_{LIM} (mm)=	137.86	**OK**
	Factor=	1.010			Factor=	1.004	

NUDO	Caso :	DERZ2		NUDO	Caso :	DERZ4	
2451	D_1 (mm)=	135.00		2432	D_1 (mm)=	136.61	
2433	D_2 (mm)=	120.42		2451	D_2 (mm)=	134.18	
	D_{LIM} (mm)=	153.25	**OK**		D_{LIM} (mm)=	162.47	**OK**
	Factor=	1.06			Factor=	1.01	

Ax = 0.776
Factor: 1.039

Verificación Irregularidad 1P (Cubierta):



NUDO	Caso :	DERX1		NUDO	Caso :	DERX3	
5148	D_1 (mm)=	323.48		5153	D_1 (mm)=	331.00	
5149	D_2 (mm)=	298.51		5150	D_2 (mm)=	304.31	
	D_{LIM} (mm)=	373.20	**OK**		D_{LIM} (mm)=	381.18	**OK**
	Factor=	1.04			Factor=	1.04	

NUDO	Caso :	DERZ1		NUDO	Caso :	DERZ3	
5148	D_1 (mm)=	421.75		5153	D_1 (mm)=	432.92	
5149	D_2 (mm)=	418.45		5150	D_2 (mm)=	429.24	
	D_{LIM} (mm)=	504.12	**OK**		D_{LIM} (mm)=	517.30	**OK**
	Factor=	1.00			Factor=	1.00	

Ax = 0.700
Factor: 1.035

ESPECTRO PARA UMBRAL DE DAÑO - MICROZONIFICACIÓN SÍSMICA DE BOGOTÁ

Decreto 523 de 2010

Proyecto: **EDIFICIO UNAL-SGC**

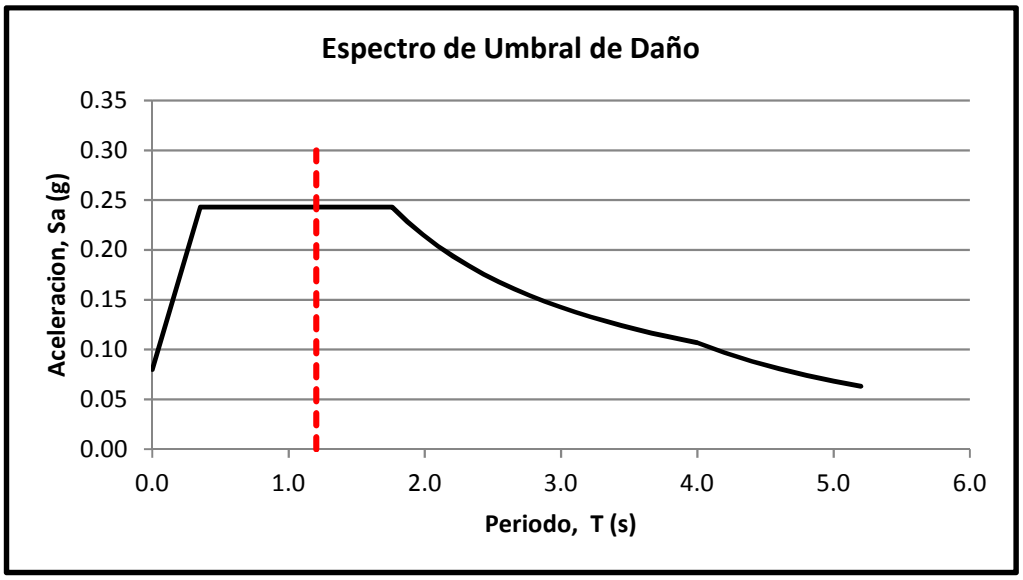
Ciudad: Bogotá CALCULÓ: DCC

Sistema Estructural: COMBINADO, pórticos y muros en concreto

Zona Microzonificación: LACUSTRE-200

PARÁMETROS SÍSMICOS

A_d =	0.06	**F_a=**	1.35
A_v =	0.20	**F_v=**	4.75
A_{0d} =	0.08		
T_{0d} (s)=	0.352	**T_{Ld} (s)=**	4
T_{cd} (s)=	1.76		



PARÁMETROS DE LA ESTRUCTURA

Sistema estructural: **Sistema a base de muros**

h (m) =	56.00	T_a (s) =	1.003
C_t =	0.049	Cu =	1.2
a =	0.75	C_u*T_a=	1.204 s

PARA ANÁLISIS DINÁMICO

Periodo calculado, T= 1.299 s

Chequeo A.5.4.5 T < Cu*Ta : Usar Cu*Ta

T (s)=	**1.204**
Sa =	**0.243**

Node Displacements

Node	L/C	X (mm)	Y (mm)	Z (mm)	Resultant (mm)	rX (rad)	rY (rad)	rZ (rad)
1	6:DERX1	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	7:DERX2	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	8:DERZ1	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	9:DERZ2	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	10:DERX3	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	11:DERX4	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	12:DERZ3	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	13:DERZ4	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2	6:DERX1	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	7:DERX2	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	8:DERZ1	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	9:DERZ2	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	10:DERX3	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	11:DERX4	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	12:DERZ3	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	13:DERZ4	0.000	0.000	0.000	0.000	0.000	0.000	0.000
7	6:DERX1	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	7:DERX2	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	8:DERZ1	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	9:DERZ2	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	10:DERX3	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	11:DERX4	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	12:DERZ3	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	13:DERZ4	0.000	0.000	0.000	0.000	0.000	0.000	0.000
8	6:DERX1	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	7:DERX2	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	8:DERZ1	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	9:DERZ2	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	10:DERX3	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	11:DERX4	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	12:DERZ3	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	13:DERZ4	0.000	0.000	0.000	0.000	0.000	0.000	0.000
23	6:DERX1	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	7:DERX2	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	8:DERZ1	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	9:DERZ2	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	10:DERX3	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	11:DERX4	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	12:DERZ3	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	13:DERZ4	0.000	0.000	0.000	0.000	0.000	0.000	0.000
60	6:DERX1	1.566	-1.731	0.777	2.460	0.000	0.000	0.001
	7:DERX2	-1.359	-3.297	-0.684	3.631	-0.001	-0.000	-0.001
	8:DERZ1	0.567	0.319	1.436	1.577	0.001	0.000	0.000
	9:DERZ2	-0.360	-5.346	-1.343	5.524	-0.001	-0.000	-0.000
	10:DERX3	1.532	-0.801	0.756	1.887	0.000	0.000	0.001
	11:DERX4	-1.394	-2.368	-0.705	2.836	-0.000	-0.000	-0.001
	12:DERZ3	0.533	1.248	1.415	1.961	0.001	0.000	0.000
	13:DERZ4	-0.394	-4.417	-1.364	4.640	-0.001	-0.000	-0.000
61	6:DERX1	1.583	1.341	0.849	2.241	0.000	0.000	-0.000
	7:DERX2	-1.444	-5.938	-0.747	6.157	-0.001	-0.000	-0.000
	8:DERZ1	0.465	-0.457	1.301	1.455	-0.000	0.000	-0.000
	9:DERZ2	-0.326	-4.141	-1.200	4.323	-0.001	-0.000	-0.000
	10:DERX3	1.561	2.206	0.826	2.826	0.000	0.000	-0.000
	11:DERX4	-1.466	-5.073	-0.770	5.336	-0.001	-0.000	-0.000

Node Displacements Cont...

Node	L/C	X (mm)	Y (mm)	Z (mm)	Resultant (mm)	rX (rad)	rY (rad)	rZ (rad)
	12:DERZ3	0.444	0.409	1.278	1.413	-0.000	0.000	-0.000
	13:DERZ4	-0.348	-3.275	-1.222	3.513	-0.001	-0.000	-0.000
66	6:DERX1	1.094	-1.453	0.657	1.934	0.000	0.000	0.000
	7:DERX2	-0.993	-1.956	-0.385	2.227	-0.000	-0.000	-0.001
	8:DERZ1	0.304	-1.393	2.039	2.488	0.001	0.000	-0.000
	9:DERZ2	-0.202	-2.016	-1.766	2.687	-0.001	-0.000	-0.000
	10:DERX3	1.082	-0.760	0.594	1.449	0.000	0.000	0.000
	11:DERX4	-1.006	-1.262	-0.447	1.675	-0.000	-0.000	-0.001
	12:DERZ3	0.291	-0.700	1.976	2.116	0.001	0.000	0.000
	13:DERZ4	-0.215	-1.322	-1.829	2.267	-0.001	-0.000	-0.000
67	6:DERX1	0.963	-0.691	0.686	1.369	0.000	0.000	0.000
	7:DERX2	-0.955	-0.996	-0.466	1.457	-0.000	-0.000	-0.000
	8:DERZ1	0.232	-0.439	1.947	2.010	0.000	0.000	0.000
	9:DERZ2	-0.224	-1.248	-1.728	2.143	-0.001	-0.000	-0.000
	10:DERX3	0.968	-0.335	0.633	1.204	0.000	0.000	0.000
	11:DERX4	-0.951	-0.641	-0.518	1.258	-0.000	-0.000	-0.000
	12:DERZ3	0.236	-0.084	1.895	1.911	0.001	0.000	0.000
	13:DERZ4	-0.219	-0.893	-1.780	2.003	-0.001	-0.000	-0.000
82	6:DERX1	1.189	-0.832	0.737	1.627	0.000	0.000	-0.000
	7:DERX2	-1.012	-2.031	-0.523	2.329	-0.000	-0.000	-0.001
	8:DERZ1	0.560	0.122	1.804	1.893	0.001	0.000	-0.000
	9:DERZ2	-0.384	-2.985	-1.590	3.404	-0.001	-0.000	-0.001
	10:DERX3	1.161	-0.292	0.692	1.383	0.000	0.000	0.000
	11:DERX4	-1.040	-1.491	-0.568	1.904	-0.000	-0.000	-0.001
	12:DERZ3	0.533	0.662	1.759	1.954	0.001	0.000	0.000
	13:DERZ4	-0.411	-2.445	-1.635	2.970	-0.001	-0.000	-0.001
146	6:DERX1	6.357	-1.736	2.284	6.975	0.000	0.000	0.001
	7:DERX2	-5.861	-4.697	-2.576	7.940	-0.000	-0.000	-0.001
	8:DERZ1	2.117	1.498	6.181	6.703	0.001	0.000	0.001
	9:DERZ2	-1.620	-7.932	-6.473	10.365	-0.001	-0.000	-0.001
	10:DERX3	6.274	-0.552	2.323	6.713	0.000	0.000	0.001
	11:DERX4	-5.944	-3.512	-2.537	7.355	-0.000	-0.000	-0.001
	12:DERZ3	2.034	2.683	6.220	7.072	0.001	0.000	0.001
	13:DERZ4	-1.704	-6.747	-6.434	9.477	-0.001	-0.000	-0.001
150	6:DERX1	4.687	-2.643	1.907	5.709	0.000	0.000	0.001
	7:DERX2	-4.519	-3.615	-1.755	6.047	-0.001	-0.000	-0.001
	8:DERZ1	1.151	-2.532	6.768	7.317	0.001	0.000	0.000
	9:DERZ2	-0.983	-3.726	-6.616	7.656	-0.002	-0.000	-0.000
	10:DERX3	4.659	-1.381	1.872	5.208	0.000	0.000	0.001
	11:DERX4	-4.547	-2.352	-1.790	5.423	-0.000	-0.000	-0.001
	12:DERZ3	1.123	-1.270	6.733	6.943	0.001	0.000	0.000
	13:DERZ4	-1.011	-2.464	-6.651	7.164	-0.002	-0.000	-0.000
151	6:DERX1	3.411	-1.244	2.373	4.338	0.000	0.000	0.001
	7:DERX2	-3.294	-1.890	-2.273	4.426	-0.000	-0.000	-0.001
	8:DERZ1	1.004	-0.738	5.963	6.092	0.001	0.000	0.000
	9:DERZ2	-0.887	-2.397	-5.863	6.395	-0.001	-0.000	-0.000
	10:DERX3	3.392	-0.585	2.348	4.166	0.000	0.000	0.001
	11:DERX4	-3.313	-1.230	-2.298	4.215	-0.000	-0.000	-0.001
	12:DERZ3	0.985	-0.078	5.938	6.020	0.001	0.000	0.000
	13:DERZ4	-0.906	-1.737	-5.888	6.205	-0.001	-0.000	-0.000
166	6:DERX1	6.987	-0.997	2.184	7.388	0.000	0.000	0.002
	7:DERX2	-6.351	-2.763	-2.091	7.235	-0.000	-0.000	-0.002
	8:DERZ1	2.805	0.963	6.996	7.599	0.001	0.000	0.000
	9:DERZ2	-2.169	-4.724	-6.903	8.641	-0.001	-0.000	-0.001

Node Displacements Cont...

Node	L/C	X (mm)	Y (mm)	Z (mm)	Resultant (mm)	rX (rad)	rY (rad)	rZ (rad)
	10:DERX3	6.874	-0.284	2.152	7.209	0.000	0.000	0.002
	11:DERX4	-6.465	-2.050	-2.123	7.107	-0.000	-0.000	-0.002
	12:DERZ3	2.692	1.676	6.964	7.652	0.001	0.000	0.001
	13:DERZ4	-2.283	-4.010	-6.935	8.330	-0.001	-0.000	-0.001
227	6:DERX1	4.944	2.491	3.273	6.432	0.000	0.000	0.000
	7:DERX2	-4.619	-8.791	-3.314	10.469	-0.002	-0.000	-0.001
	8:DERZ1	1.846	0.532	4.888	5.252	-0.000	0.000	0.000
	9:DERZ2	-1.521	-6.832	-4.929	8.561	-0.001	-0.000	-0.001
	10:DERX3	4.895	3.684	3.266	6.942	0.001	0.000	0.000
	11:DERX4	-4.669	-7.598	-3.322	9.516	-0.001	-0.000	-0.001
	12:DERZ3	1.797	1.725	4.880	5.479	0.000	0.000	0.000
	13:DERZ4	-1.571	-5.639	-4.937	7.658	-0.001	-0.000	-0.001
240	6:DERX1	16.812	-2.101	5.675	17.868	0.001	0.000	0.001
	7:DERX2	-16.746	-5.936	-5.826	18.697	-0.000	-0.000	-0.001
	8:DERZ1	4.906	2.981	18.268	19.149	0.002	0.000	0.001
	9:DERZ2	-4.839	-11.018	-18.419	22.001	-0.002	-0.000	-0.001
	10:DERX3	16.836	-0.625	5.653	17.771	0.000	0.000	0.001
	11:DERX4	-16.722	-4.460	-5.848	18.268	-0.000	-0.000	-0.001
	12:DERZ3	4.929	4.457	18.246	19.419	0.002	0.000	0.001
	13:DERZ4	-4.816	-9.543	-18.441	21.315	-0.002	-0.000	-0.001
244	6:DERX1	14.206	-4.107	4.720	15.523	0.000	0.000	-0.000
	7:DERX2	-14.476	-5.716	-4.100	16.094	-0.001	-0.000	-0.000
	8:DERZ1	3.271	-3.914	18.428	19.121	0.001	0.000	0.000
	9:DERZ2	-3.541	-5.909	-17.809	19.095	-0.001	-0.000	-0.001
	10:DERX3	14.277	-2.162	4.577	15.148	0.000	0.000	-0.000
	11:DERX4	-14.405	-3.772	-4.243	15.483	-0.001	-0.000	-0.000
	12:DERZ3	3.342	-1.969	18.286	18.693	0.001	0.000	0.000
	13:DERZ4	-3.470	-3.965	-17.952	18.709	-0.001	-0.000	-0.001
245	6:DERX1	13.863	-1.867	4.923	14.829	0.000	0.000	0.001
	7:DERX2	-14.240	-3.130	-4.325	15.208	-0.000	-0.000	-0.001
	8:DERZ1	3.185	-0.969	18.394	18.693	0.001	0.000	0.000
	9:DERZ2	-3.562	-4.029	-17.796	18.591	-0.001	-0.000	-0.000
	10:DERX3	13.946	-0.821	4.780	14.765	0.000	0.000	0.001
	11:DERX4	-14.157	-2.084	-4.468	14.991	-0.000	-0.000	-0.001
	12:DERZ3	3.267	0.078	18.251	18.541	0.001	0.000	0.000
	13:DERZ4	-3.479	-2.983	-17.939	18.515	-0.001	-0.000	-0.000
322	6:DERX1	14.928	4.463	6.661	16.945	0.001	0.000	0.002
	7:DERX2	-15.366	-14.405	-6.668	22.093	-0.001	-0.000	-0.001
	8:DERZ1	3.680	3.159	18.346	18.976	0.002	0.000	0.001
	9:DERZ2	-4.119	-13.101	-18.353	22.922	-0.002	-0.000	0.000
	10:DERX3	15.038	6.359	6.607	17.613	0.001	0.000	0.002
	11:DERX4	-15.257	-12.509	-6.722	20.843	-0.001	-0.000	-0.001
	12:DERZ3	3.790	5.055	18.292	19.352	0.002	0.000	0.001
	13:DERZ4	-4.009	-11.205	-18.407	21.919	-0.002	-0.000	-0.000
1638	6:DERX1	23.317	-2.619	9.397	25.276	0.001	0.000	0.002
	7:DERX2	-23.892	-6.667	-8.805	26.321	-0.000	-0.000	-0.001
	8:DERZ1	6.482	3.847	30.024	30.956	0.002	0.000	0.001
	9:DERZ2	-7.057	-13.133	-29.432	32.992	-0.002	-0.000	-0.001
	10:DERX3	23.481	-0.914	9.205	25.237	0.001	0.000	0.002
	11:DERX4	-23.729	-4.962	-8.996	25.857	-0.000	-0.000	-0.001
	12:DERZ3	6.645	5.552	29.832	31.064	0.002	0.000	0.001
	13:DERZ4	-6.893	-11.429	-29.623	32.491	-0.002	-0.000	-0.001
1640	6:DERX1	21.587	-5.044	7.401	23.371	0.000	0.000	0.001
	7:DERX2	-22.216	-7.218	-6.712	24.304	-0.001	-0.000	-0.002

Node Displacements Cont...

Node	L/C	X (mm)	Y (mm)	Z (mm)	Resultant (mm)	rX (rad)	rY (rad)	rZ (rad)
	8:DERZ1	5.126	-5.225	29.499	30.393	0.002	0.000	0.000
	9:DERZ2	-5.755	-7.038	-28.810	30.210	-0.003	-0.000	-0.000
	10:DERX3	21.741	-2.627	7.229	23.062	0.000	0.000	0.001
	11:DERX4	-22.061	-4.801	-6.884	23.604	-0.001	-0.000	-0.002
	12:DERZ3	5.281	-2.808	29.326	29.930	0.002	0.000	0.000
	13:DERZ4	-5.601	-4.620	-28.982	29.877	-0.003	-0.000	-0.000
1641	6:DERX1	21.152	-2.141	7.740	22.626	0.001	0.000	0.002
	7:DERX2	-21.705	-3.646	-7.012	23.100	-0.001	-0.000	-0.002
	8:DERZ1	5.129	-1.083	29.533	29.994	0.003	0.000	0.000
	9:DERZ2	-5.682	-4.704	-28.805	29.734	-0.002	-0.000	-0.000
	10:DERX3	21.283	-0.926	7.555	22.603	0.001	0.000	0.002
	11:DERX4	-21.575	-2.431	-7.198	22.874	-0.001	-0.000	-0.002
	12:DERZ3	5.259	0.132	29.347	29.815	0.003	0.000	0.000
	13:DERZ4	-5.551	-3.489	-28.990	29.722	-0.002	-0.000	-0.000
1675	6:DERX1	22.448	4.548	10.224	25.082	0.001	0.000	0.003
	7:DERX2	-23.054	-15.894	-9.321	29.512	-0.001	-0.000	-0.001
	8:DERZ1	5.602	3.726	30.331	31.069	0.003	0.000	0.001
	9:DERZ2	-6.209	-15.073	-29.428	33.642	-0.003	-0.000	0.000
	10:DERX3	22.605	6.709	9.967	25.600	0.001	0.000	0.002
	11:DERX4	-22.896	-13.732	-9.578	28.364	-0.001	-0.000	-0.001
	12:DERZ3	5.760	5.888	30.075	31.182	0.003	0.000	0.001
	13:DERZ4	-6.051	-12.911	-29.685	32.932	-0.003	-0.000	-0.000
2003	6:DERX1	30.838	-3.168	13.126	33.665	0.001	0.000	0.002
	7:DERX2	-32.113	-7.410	-11.844	35.021	-0.000	-0.000	-0.002
	8:DERZ1	8.446	4.291	43.690	44.706	0.002	0.000	0.001
	9:DERZ2	-9.721	-14.869	-42.409	45.979	-0.002	-0.000	-0.001
	10:DERX3	31.151	-1.223	12.776	33.692	0.000	0.000	0.002
	11:DERX4	-31.800	-5.464	-12.194	34.493	-0.000	-0.000	-0.002
	12:DERZ3	8.759	6.237	43.341	44.655	0.002	0.000	0.001
	13:DERZ4	-9.408	-12.924	-42.758	45.649	-0.002	-0.000	-0.001
2005	6:DERX1	30.322	-5.869	10.594	32.651	0.001	0.000	0.001
	7:DERX2	-31.330	-8.552	-9.813	33.927	-0.001	-0.000	-0.002
	8:DERZ1	7.263	-6.489	43.035	44.124	0.002	0.000	0.000
	9:DERZ2	-8.271	-7.932	-42.255	43.781	-0.003	-0.000	-0.000
	10:DERX3	30.554	-3.043	10.388	32.415	0.001	0.000	0.001
	11:DERX4	-31.098	-5.725	-10.019	33.170	-0.001	-0.000	-0.001
	12:DERZ3	7.495	-3.662	42.830	43.635	0.003	0.000	0.000
	13:DERZ4	-8.039	-5.106	-42.460	43.515	-0.003	-0.000	-0.000
2006	6:DERX1	29.613	-2.281	11.077	31.699	0.000	0.000	0.001
	7:DERX2	-30.505	-3.893	-10.198	32.399	-0.001	-0.000	-0.001
	8:DERZ1	7.191	-1.139	42.941	43.553	0.002	0.000	0.000
	9:DERZ2	-8.083	-5.035	-42.063	43.127	-0.002	-0.000	-0.000
	10:DERX3	29.809	-0.984	10.842	31.735	0.000	0.000	0.001
	11:DERX4	-30.309	-2.596	-10.433	32.160	-0.001	-0.000	-0.001
	12:DERZ3	7.387	0.158	42.706	43.341	0.002	0.000	0.000
	13:DERZ4	-7.887	-3.738	-42.297	43.188	-0.002	-0.000	-0.000
2040	6:DERX1	30.930	4.710	13.666	34.141	0.001	0.000	0.003
	7:DERX2	-32.132	-17.325	-12.060	38.445	-0.001	-0.000	-0.001
	8:DERZ1	7.612	4.162	44.017	44.863	0.003	0.000	0.001
	9:DERZ2	-8.814	-16.777	-42.410	46.452	-0.003	-0.000	0.000
	10:DERX3	31.215	7.098	13.246	34.644	0.001	0.000	0.003
	11:DERX4	-31.847	-14.938	-12.479	37.324	-0.001	-0.000	-0.002
	12:DERZ3	7.897	6.549	43.597	44.788	0.003	0.000	0.001
	13:DERZ4	-8.529	-14.389	-42.830	45.981	-0.003	-0.000	-0.000

Node Displacements Cont...

Node	L/C	X (mm)	Y (mm)	Z (mm)	Resultant (mm)	rX (rad)	rY (rad)	rZ (rad)
2395	6:DERX1	40.929	-3.770	16.317	44.223	0.000	0.000	0.002
	7:DERX2	-43.060	-8.036	-14.486	46.136	-0.001	-0.000	-0.002
	8:DERZ1	11.138	4.266	58.663	59.863	0.002	0.000	0.001
	9:DERZ2	-13.268	-16.072	-56.832	60.533	-0.003	-0.000	-0.001
	10:DERX3	41.424	-1.597	15.839	44.377	0.000	0.000	0.002
	11:DERX4	-42.565	-5.864	-14.965	45.498	-0.001	-0.000	-0.002
	12:DERZ3	11.632	6.439	58.185	59.684	0.002	0.000	0.001
	13:DERZ4	-12.773	-13.900	-57.310	60.339	-0.003	-0.000	-0.001
2397	6:DERX1	40.595	-6.609	14.389	43.574	0.001	0.000	0.003
	7:DERX2	-42.409	-9.776	-13.103	45.451	-0.001	-0.000	-0.002
	8:DERZ1	9.400	-7.727	58.345	59.601	0.004	0.000	0.001
	9:DERZ2	-11.213	-8.659	-57.060	58.792	-0.004	-0.000	-0.000
	10:DERX3	40.993	-3.417	14.054	43.469	0.001	0.000	0.003
	11:DERX4	-42.011	-6.584	-13.438	44.597	-0.001	-0.000	-0.002
	12:DERZ3	9.797	-4.534	58.011	59.007	0.004	0.000	0.001
	13:DERZ4	-10.816	-5.466	-57.395	58.660	-0.004	-0.000	-0.000
2432	6:DERX1	40.895	4.775	16.832	44.480	0.001	0.000	0.003
	7:DERX2	-42.900	-18.528	-14.691	48.985	-0.001	-0.000	-0.002
	8:DERZ1	9.922	4.296	58.933	59.917	0.003	0.000	0.001
	9:DERZ2	-11.928	-18.048	-56.793	60.773	-0.003	-0.000	0.000
	10:DERX3	41.345	7.376	16.282	45.044	0.001	0.000	0.003
	11:DERX4	-42.449	-15.927	-15.240	47.832	-0.001	-0.000	-0.002
	12:DERZ3	10.373	6.897	58.384	59.698	0.003	0.000	0.001
	13:DERZ4	-11.477	-15.447	-57.342	60.485	-0.003	-0.000	-0.000
2805	6:DERX1	51.408	-4.276	19.306	55.080	0.000	0.000	0.002
	7:DERX2	-54.837	-8.545	-17.207	58.105	-0.001	-0.000	-0.002
	8:DERZ1	13.707	4.087	74.015	75.384	0.002	0.001	0.001
	9:DERZ2	-17.136	-16.908	-71.916	75.838	-0.003	-0.001	-0.001
	10:DERX3	52.172	-1.915	18.751	55.472	0.000	0.000	0.002
	11:DERX4	-54.073	-6.183	-17.762	57.251	-0.001	-0.000	-0.002
	12:DERZ3	14.470	6.449	73.460	75.149	0.002	0.001	0.001
	13:DERZ4	-16.372	-14.547	-72.471	75.708	-0.003	-0.001	-0.001
2838	6:DERX1	51.081	4.623	19.942	55.030	0.001	0.000	0.003
	7:DERX2	-54.342	-19.396	-17.562	60.313	-0.001	-0.000	-0.002
	8:DERZ1	12.015	4.186	74.214	75.297	0.003	0.001	0.001
	9:DERZ2	-15.276	-18.960	-71.834	75.848	-0.003	-0.001	0.000
	10:DERX3	51.787	7.419	19.316	55.767	0.001	0.000	0.003
	11:DERX4	-53.637	-16.600	-18.187	59.019	-0.001	-0.000	-0.002
	12:DERZ3	12.720	6.982	73.589	75.006	0.003	0.001	0.001
	13:DERZ4	-14.570	-16.164	-72.460	75.657	-0.003	-0.001	-0.000
3203	6:DERX1	61.682	-4.653	22.339	65.768	0.000	0.000	0.002
	7:DERX2	-66.494	-8.963	-20.004	70.014	-0.001	-0.000	-0.002
	8:DERZ1	16.098	3.890	89.488	91.008	0.003	0.001	0.001
	9:DERZ2	-20.910	-17.505	-87.153	91.320	-0.003	-0.001	-0.001
	10:DERX3	62.733	-2.143	21.711	66.418	0.000	0.000	0.002
	11:DERX4	-65.444	-6.453	-20.632	68.922	-0.001	-0.000	-0.002
	12:DERZ3	17.149	6.400	88.860	90.726	0.003	0.001	0.001
	13:DERZ4	-19.859	-14.995	-87.781	91.241	-0.003	-0.001	-0.001
3233	6:DERX1	61.227	4.307	23.068	65.569	0.001	0.000	0.003
	7:DERX2	-65.847	-19.977	-20.465	71.789	-0.001	-0.000	-0.002
	8:DERZ1	13.883	3.938	89.570	90.725	0.003	0.001	0.001
	9:DERZ2	-18.503	-19.608	-86.967	91.050	-0.003	-0.001	0.000
	10:DERX3	62.207	7.279	22.366	66.505	0.001	0.000	0.003
	11:DERX4	-64.867	-17.005	-21.167	70.320	-0.001	-0.000	-0.002

Node Displacements Cont...

Node	L/C	X (mm)	Y (mm)	Z (mm)	Resultant (mm)	rX (rad)	rY (rad)	rZ (rad)
	12:DERZ3	14.863	6.910	88.868	90.367	0.003	0.001	0.001
	13:DERZ4	-17.523	-16.636	-87.669	90.938	-0.003	-0.001	-0.000
3572	6:DERX1	60.834	-7.785	20.113	64.544	0.001	0.000	0.003
	7:DERX2	-65.263	-11.705	-18.155	68.744	-0.001	-0.000	-0.002
	8:DERZ1	12.595	-9.333	90.886	92.228	0.003	0.001	0.001
	9:DERZ2	-17.023	-10.156	-88.928	91.110	-0.004	-0.001	-0.000
	10:DERX3	61.741	-4.002	19.654	64.917	0.001	0.000	0.003
	11:DERX4	-64.356	-7.922	-18.614	67.461	-0.001	-0.000	-0.002
	12:DERZ3	13.501	-5.551	90.427	91.597	0.003	0.001	0.001
	13:DERZ4	-16.117	-6.374	-89.387	91.052	-0.004	-0.001	-0.000
3576	6:DERX1	71.607	-4.983	25.441	76.155	0.000	0.000	0.002
	7:DERX2	-77.937	-9.228	-22.871	81.746	-0.001	-0.000	-0.002
	8:DERZ1	18.233	3.442	104.776	106.407	0.003	0.001	0.001
	9:DERZ2	-24.563	-17.653	-102.207	106.589	-0.003	-0.001	-0.001
	10:DERX3	72.973	-2.362	24.736	77.088	0.000	0.000	0.002
	11:DERX4	-76.571	-6.607	-23.576	80.390	-0.001	-0.000	-0.002
	12:DERZ3	19.599	6.063	104.071	106.074	0.003	0.001	0.001
	13:DERZ4	-23.197	-15.032	-102.912	106.559	-0.003	-0.001	-0.001
3606	6:DERX1	70.952	3.931	26.283	75.766	0.001	0.000	0.003
	7:DERX2	-77.098	-20.358	-23.472	83.123	-0.001	-0.000	-0.002
	8:DERZ1	15.596	3.649	104.850	106.066	0.003	0.001	0.001
	9:DERZ2	-21.742	-20.075	-102.039	106.243	-0.003	-0.001	0.000
	10:DERX3	72.242	7.056	25.505	76.937	0.001	0.000	0.003
	11:DERX4	-75.808	-17.233	-24.250	81.437	-0.001	-0.000	-0.002
	12:DERZ3	16.886	6.774	104.072	105.650	0.003	0.001	0.001
	13:DERZ4	-20.452	-16.951	-102.817	106.193	-0.003	-0.001	-0.000
3938	6:DERX1	80.997	-5.284	28.558	86.047	0.000	0.000	0.002
	7:DERX2	-89.054	-9.585	-25.753	93.198	-0.001	-0.000	-0.002
	8:DERZ1	19.965	3.251	119.501	121.201	0.003	0.001	0.000
	9:DERZ2	-28.022	-18.119	-116.697	121.374	-0.003	-0.001	-0.000
	10:DERX3	82.716	-2.537	27.767	87.289	0.000	0.000	0.002
	11:DERX4	-87.336	-6.839	-26.544	91.536	-0.001	-0.000	-0.002
	12:DERZ3	21.683	5.997	118.711	120.824	0.003	0.001	0.000
	13:DERZ4	-26.303	-15.373	-117.488	121.374	-0.003	-0.001	-0.000
3968	6:DERX1	79.979	3.557	29.701	85.390	0.001	0.000	0.003
	7:DERX2	-87.757	-20.605	-26.627	93.994	-0.001	-0.000	-0.001
	8:DERZ1	16.981	3.458	119.865	121.111	0.003	0.001	0.001
	9:DERZ2	-24.759	-20.506	-116.791	121.134	-0.003	-0.001	0.000
	10:DERX3	81.599	6.823	28.828	86.810	0.001	0.000	0.002
	11:DERX4	-86.137	-17.340	-27.501	92.068	-0.001	-0.000	-0.002
	12:DERZ3	18.601	6.724	118.991	120.624	0.003	0.001	0.001
	13:DERZ4	-23.139	-17.240	-117.664	121.151	-0.003	-0.001	-0.000
4288	6:DERX1	78.988	-8.380	24.542	83.136	0.001	0.000	0.003
	7:DERX2	-86.658	-13.026	-22.382	90.444	-0.001	-0.000	-0.002
	8:DERZ1	15.380	-9.980	121.707	123.081	0.003	0.001	0.001
	9:DERZ2	-23.050	-11.427	-119.548	122.285	-0.003	-0.001	-0.000
	10:DERX3	80.545	-4.210	23.992	84.147	0.001	0.000	0.002
	11:DERX4	-85.101	-8.856	-22.933	88.580	-0.001	-0.000	-0.002
	12:DERZ3	16.937	-5.809	121.157	122.473	0.003	0.001	0.001
	13:DERZ4	-21.493	-7.256	-120.098	122.222	-0.003	-0.001	-0.000
4299	6:DERX1	88.684	-5.370	32.470	94.594	0.000	0.000	0.002
	7:DERX2	-98.016	-9.602	-28.988	102.662	-0.001	-0.000	-0.002
	8:DERZ1	20.042	2.905	133.179	134.710	0.003	0.001	0.000
	9:DERZ2	-29.373	-17.877	-129.697	134.177	-0.003	-0.001	-0.000

Node Displacements Cont...

Node	L/C	X (mm)	Y (mm)	Z (mm)	Resultant (mm)	rX (rad)	rY (rad)	rZ (rad)
	10:DERX3	90.667	-2.607	31.493	96.016	0.001	0.000	0.002
	11:DERX4	-96.033	-6.839	-29.966	100.831	-0.001	-0.000	-0.002
	12:DERZ3	22.025	5.668	132.201	134.143	0.003	0.001	0.000
	13:DERZ4	-27.390	-15.115	-130.674	134.367	-0.003	-0.001	-0.000
4329	6:DERX1	87.828	3.275	33.612	94.097	0.001	0.000	0.003
	7:DERX2	-96.959	-20.738	-29.994	103.590	-0.001	-0.000	-0.001
	8:DERZ1	17.476	3.325	134.312	135.485	0.003	0.001	0.001
	9:DERZ2	-26.607	-20.788	-130.694	134.985	-0.003	-0.001	-0.000
	10:DERX3	89.728	6.632	32.580	95.690	0.001	0.000	0.002
	11:DERX4	-95.060	-17.380	-31.027	101.494	-0.001	-0.000	-0.002
	12:DERZ3	19.376	6.682	133.280	134.846	0.003	0.001	0.001
	13:DERZ4	-24.707	-17.431	-131.727	135.153	-0.003	-0.001	-0.000
4676	6:DERX1	95.907	-5.575	36.329	102.708	0.000	0.000	0.001
	7:DERX2	-106.457	-9.674	-32.227	111.648	-0.001	-0.000	-0.002
	8:DERZ1	20.088	2.598	146.274	147.669	0.002	0.001	0.000
	9:DERZ2	-30.639	-17.847	-142.171	146.526	-0.003	-0.001	-0.000
	10:DERX3	98.143	-2.757	35.170	104.291	0.000	0.000	0.002
	11:DERX4	-104.221	-6.856	-33.386	109.652	-0.001	-0.000	-0.002
	12:DERZ3	22.324	5.416	145.114	146.921	0.003	0.001	0.000
	13:DERZ4	-28.403	-15.029	-143.330	146.888	-0.003	-0.001	-0.000
4696	6:DERX1	95.222	2.979	37.578	102.412	0.001	0.000	0.003
	7:DERX2	-106.097	-20.981	-33.302	113.162	-0.001	-0.000	-0.001
	8:DERZ1	17.462	3.053	148.290	149.346	0.003	0.001	0.002
	9:DERZ2	-28.336	-21.055	-144.014	148.278	-0.003	-0.001	0.000
	10:DERX3	97.483	6.465	36.350	104.241	0.001	0.000	0.002
	11:DERX4	-103.836	-17.495	-34.529	110.816	-0.001	-0.000	-0.001
	12:DERZ3	19.723	6.539	147.063	148.524	0.003	0.001	0.001
	13:DERZ4	-26.075	-17.570	-145.242	148.606	-0.003	-0.001	-0.000
4916	6:DERX1	94.398	-8.621	33.398	100.503	0.002	0.000	0.002
	7:DERX2	-105.413	-13.570	-27.897	109.883	-0.002	-0.000	-0.002
	8:DERZ1	17.258	-10.230	140.085	141.514	0.001	0.001	0.001
	9:DERZ2	-28.273	-11.961	-134.584	138.041	-0.001	-0.001	-0.000
	10:DERX3	96.648	-4.279	32.080	101.923	0.002	0.000	0.002
	11:DERX4	-103.163	-9.228	-29.216	107.617	-0.002	-0.000	-0.002
	12:DERZ3	19.508	-5.889	138.767	140.255	0.001	0.001	0.001
	13:DERZ4	-26.023	-7.619	-135.903	138.581	-0.001	-0.001	-0.000
5312	6:DERX1	50.607	-7.341	17.229	53.961	0.001	0.000	0.001
	7:DERX2	-53.794	-10.836	-15.465	57.012	-0.001	-0.000	-0.001
	8:DERZ1	11.135	-8.734	74.730	76.058	0.004	0.001	0.001
	9:DERZ2	-14.322	-9.444	-72.966	74.956	-0.003	-0.001	-0.001
	10:DERX3	51.273	-3.812	16.804	54.091	0.001	0.000	0.001
	11:DERX4	-53.128	-7.307	-15.890	55.932	-0.001	-0.000	-0.001
	12:DERZ3	11.801	-5.205	74.305	75.416	0.004	0.001	0.001
	13:DERZ4	-13.656	-5.915	-73.391	74.884	-0.003	-0.001	-0.001
5322	6:DERX1	70.415	-8.217	22.930	74.509	0.001	0.000	0.001
	7:DERX2	-76.436	-12.424	-20.589	80.130	-0.000	-0.000	-0.001
	8:DERZ1	14.029	-9.778	106.519	107.883	0.004	0.001	0.001
	9:DERZ2	-20.051	-10.863	-104.178	106.645	-0.003	-0.001	-0.001
	10:DERX3	71.644	-4.209	22.364	75.172	0.001	0.000	0.001
	11:DERX4	-75.207	-8.416	-21.155	78.577	-0.000	-0.000	-0.001
	12:DERZ3	15.259	-5.770	105.953	107.201	0.004	0.001	0.001
	13:DERZ4	-18.821	-6.855	-104.744	106.642	-0.003	-0.001	-0.001
5331	6:DERX1	86.429	-8.608	27.506	91.108	0.002	0.001	0.001
	7:DERX2	-95.448	-13.419	-24.286	99.399	-0.001	-0.001	-0.001

Node Displacements Cont...

Node	L/C	X (mm)	Y (mm)	Z (mm)	Resultant (mm)	rX (rad)	rY (rad)	rZ (rad)
	8:DERZ1	16.767	-10.207	132.054	133.505	0.002	0.001	0.000
	9:DERZ2	-25.786	-11.820	-128.834	131.919	-0.001	-0.001	-0.000
	10:DERX3	88.265	-4.305	26.705	92.317	0.002	0.001	0.001
	11:DERX4	-93.613	-9.116	-25.087	97.344	-0.001	-0.001	-0.001
	12:DERZ3	18.602	-5.904	131.253	132.696	0.002	0.001	0.000
	13:DERZ4	-23.950	-7.517	-129.634	132.043	-0.001	-0.001	-0.000

VERIFICACIÓN DE DERIVAS UMBRAL DE DAÑO

PROYECTO: **EDIFICIO UNAL-SGC** CALCULÓ: DCC

DERX1 *DERZ1*

Piso	Nudo	Dx (mm)	Deriva X	Deriva X %	Dz (mm)	Deriva Z	Deriva Z %
NE+46.55m	4676	102.708			147.669		
NE+42.35m	4299	94.594	8.114	0.19%	134.71	12.959	0.31%
NE+38.15m	3938	86.047	8.547	0.20%	121.201	13.509	0.32%
NE+33.95m	3576	76.155	9.892	0.24%	106.407	14.794	0.35%
NE+29.75m	3203	65.768	10.387	0.25%	91.008	15.399	0.37%
NE+25.55m	2805	55.080	10.688	0.25%	75.384	15.624	0.37%
NE+21.35m	2395	44.223	10.857	0.26%	59.863	15.521	0.37%
NE+17.15m	2003	33.665	10.558	0.25%	44.706	15.157	0.36%
NE+12.95m	1638	25.276	8.389	0.20%	30.956	13.750	0.33%
NE+8.75m	240	17.868	7.408	0.18%	19.149	11.807	0.28%
NE+2.95m	146	6.975	10.893	0.19%	6.703	12.446	0.21%
NE-1.05m	60	2.460	4.515	0.11%	1.577	5.126	0.13%
NE-5.25m	1	0.000	2.460	0.06%	0	1.577	0.04%

DERX2 *DERZ2*

Piso	Nudo	Dx (mm)	Deriva X	Deriva X %	Dz (mm)	Deriva Z	Deriva Z %
NE+46.55m	4696	113.162			148.278		
NE+42.35m	4329	103.590	9.572	0.23%	134.985	13.293	0.32%
NE+38.15m	3968	93.994	9.596	0.23%	121.134	13.851	0.33%
NE+33.95m	3606	83.123	10.871	0.26%	106.243	14.891	0.35%
NE+29.75m	3233	71.789	11.334	0.27%	91.05	15.193	0.36%
NE+25.55m	2838	60.313	11.476	0.27%	75.848	15.202	0.36%
NE+21.35m	2432	48.985	11.328	0.27%	60.773	15.075	0.36%
NE+17.15m	2040	38.445	10.540	0.25%	46.452	14.321	0.34%
NE+12.95m	1675	29.512	8.933	0.21%	33.642	12.810	0.31%
NE+8.75m	322	22.093	7.419	0.18%	22.922	10.720	0.26%
NE+2.95m	227	10.469	11.624	0.20%	8.561	14.361	0.25%
NE-1.05m	61	6.157	4.312	0.11%	4.323	4.238	0.11%
NE-5.25m	2	0.000	6.157	0.15%	0	4.323	0.10%

DERX3 *DERZ3*

Piso	Nudo	Dx (mm)	Deriva X	Deriva X %	Dz (mm)	Deriva Z	Deriva Z %
NE+46.55m	4916	101.923			140.255		
NE+42.35m	5331	92.317	9.606	0.23%	132.696	7.559	0.18%
NE+38.15m	4288	84.147	8.170	0.19%	122.473	10.223	0.24%
NE+33.95m	5322	75.172	8.975	0.21%	107.201	15.272	0.36%
NE+29.75m	3572	64.917	10.255	0.24%	91.597	15.604	0.37%
NE+25.55m	5312	54.091	10.826	0.26%	75.416	16.181	0.39%
NE+21.35m	2397	43.469	10.622	0.25%	59.007	16.409	0.39%
NE+17.15m	2005	32.415	11.054	0.26%	43.635	15.372	0.37%
NE+12.95m	1640	23.062	9.353	0.22%	29.93	13.705	0.33%
NE+8.75m	244	15.148	7.914	0.19%	18.693	11.237	0.27%
NE+2.95m	150	5.208	9.940	0.17%	6.943	11.750	0.20%
NE-1.05m	66	1.449	3.759	0.09%	2.116	4.827	0.12%
NE-5.25m	7	0.000	1.449	0.03%	0	2.116	0.05%

DERX4 *DERZ4*

Piso	Nudo	Dx (mm)	Deriva X	Deriva X %	Dz (mm)	Deriva Z	Deriva Z %
NE+17.15m	2006	32.160			43.188		
NE+12.95m	1641	22.874	9.286	0.22%	29.722	13.466	0.32%
NE+8.75m	245	14.991	7.883	0.19%	18.515	11.207	0.27%
NE+2.95m	151	4.215	10.776	0.19%	6.205	12.310	0.21%
NE-1.05m	67	1.258	2.957	0.07%	2.003	4.202	0.11%
NE-5.25m	8	0.000	1.258	0.03%	0	2.003	0.05%

DERX1 *DERZ1*

Piso	Nudo	Dx (mm)	Deriva X	Deriva X %	Dz (mm)	Deriva Z	Deriva Z %
NE+38.15m	3946	86.492			121.738		
NE+33.95m	3584	76.842	9.650	0.23%	107.288	14.450	0.34%
NE+29.75m	3211	66.366	10.476	0.25%	91.59	15.698	0.37%
NE+25.55m	2814	55.591	10.775	0.26%	75.716	15.874	0.38%
NE+21.35m	2408	44.075	11.516	0.27%	59.885	15.831	0.38%
NE+17.15m	2016	32.303	11.772	0.28%	44.46	15.425	0.37%
NE+12.95m	1651	25.623	6.680	0.16%	30.525	13.935	0.33%
NE+8.75m	260	20.266	5.357	0.13%	19.137	11.388	0.27%
NE+2.95m	166	7.388	12.878	0.22%	7.599	11.538	0.20%
NE-1.05m	82	1.627	5.761	0.14%	1.893	5.706	0.14%
NE-5.25m	23	0.000	1.627	0.04%	0	1.893	0.05%

DERX2 *DERZ2*

Piso	Nudo	Dx (mm)	Deriva X	Deriva X %	Dz (mm)	Deriva Z	Deriva Z %
NE+38.15m	3959	93.577			123.785		
NE+33.95m	3597	83.157	10.420	0.25%	109.244	14.541	0.35%
NE+29.75m	3224	71.374	11.783	0.28%	93.574	15.670	0.37%
NE+25.55m	2829	59.401	11.973	0.29%	77.686	15.888	0.38%
NE+21.35m	2423	46.069	13.332	0.32%	61.973	15.713	0.37%
NE+17.15m	2031	33.806	12.263	0.29%	47.151	14.822	0.35%
NE+12.95m	1666	27.530	6.276	0.15%	34.313	12.838	0.31%
NE+8.75m	300	22.140	5.390	0.13%	23.764	10.549	0.25%
NE+2.95m	222	8.226	13.914	0.24%	11.721	12.043	0.21%
NE-1.05m	141	2.641	5.585	0.14%	5.495	6.226	0.16%
NE-5.25m	24	0.000	2.641	0.06%	0	5.495	0.13%

DERX1 *DERZ1*

Piso	Nudo	Dx (mm)	Deriva X	Deriva X %	Dz (mm)	Deriva Z	Deriva Z %
NE+54.95m	5255	112.569			177.653		
NE+50.75m	5098	103.634	8.935	0.21%	162.942	14.711	0.35%
NE+46.55m	4856	94.088	9.546	0.23%	148.433	14.509	0.35%
NE+42.35m	4596	89.455	4.633	0.11%	135.602	12.831	0.31%
NE+38.15m	4234	84.727	4.728	0.11%	123.096	12.506	0.30%
NE+33.95m	3873	74.159	10.568	0.25%	108.012	15.084	0.36%
NE+29.75m	3500	63.382	10.777	0.26%	92.043	15.969	0.38%
NE+25.55m	3126	53.131	10.251	0.24%	75.767	16.276	0.39%
NE+21.35m	2759	42.238	10.893	0.26%	59.414	16.353	0.39%
NE+17.15m	2367	31.913	10.325	0.25%	43.907	15.507	0.37%
NE+12.95m	2002	22.797	9.116	0.22%	29.999	13.908	0.33%
NE+8.75m	1637	15.363	7.434	0.18%	18.692	11.307	0.27%
NE+2.95m	153	5.332	10.031	0.17%	7.295	11.397	0.20%
NE-1.05m	69	2.263	3.069	0.08%	2.207	5.088	0.13%
NE-5.25m	10	0.000	2.263	0.05%	0	2.207	0.05%

DERX2 *DERZ2*

Piso	Nudo	Dx (mm)	Deriva X	Deriva X %	Dz (mm)	Deriva Z	Deriva Z %
NE+56.12m	5150	128.407			185.099		
NE+50.75m	4936	116.751	11.656	0.21%	166.799	18.300	0.33%
NE+46.55m	4693	105.313	11.438	0.27%	151.909	14.890	0.35%
NE+42.35m	4326	96.742	8.571	0.20%	138.179	13.730	0.33%
NE+38.15m	3965	90.212	6.530	0.16%	124.849	13.330	0.32%
NE+33.95m	3603	79.267	10.945	0.26%	109.965	14.884	0.35%
NE+29.75m	3230	67.140	12.127	0.29%	94.207	15.758	0.38%
NE+25.55m	2835	55.666	11.474	0.27%	78.292	15.915	0.38%
NE+21.35m	2429	43.833	11.833	0.28%	62.617	15.675	0.37%
NE+17.15m	2037	32.795	11.038	0.26%	47.766	14.851	0.35%
NE+12.95m	1672	23.782	9.013	0.21%	34.202	13.564	0.32%
NE+8.75m	319	16.407	7.375	0.18%	23.479	10.723	0.26%
NE+2.95m	230	5.863	10.544	0.18%	11.528	11.951	0.21%
NE-1.05m	70	3.828	2.035	0.05%	6.609	4.919	0.12%
NE-5.25m	11	0.000	3.828	0.09%	0	6.609	0.16%

Beam End Forces Envelope

Sign convention is as the action of the joint on the beam.

Beam	Node	Envelope	Fx	Fy	Fz	Mx	My	Mz
			(Mton)	(Mton)	(Mton)	(MTon-m)	(MTon-m)	(MTon-m)
7	7	+ve	1.06E+3	0.000	0.000	0.771	33.842	7.527
			20:COM7	-	-	16:COM3	20:COM7	24:COM1
			0.000	-6.163	-12.610	-0.579	-14.375	-16.073
			-	18:COM5	22:COM9	26:COM1	30:COM1	18:COM5
	66	-ve	1.06E+3	0.000	0.000	0.771	0.000	19.124
			20:COM7	-	-	16:COM3	-	16:COM3
			0.000	-6.163	-12.610	-0.579	-27.672	0.000
			-	18:COM5	22:COM9	26:COM1	22:COM9	-
8	8	+ve	590.724	2.751	5.355	0.906	31.657	11.417
			20:COM7	24:COM1	28:COM1	16:COM3	20:COM7	24:COM1
			0.000	-7.655	-11.475	-0.599	-22.113	-17.802
			-	18:COM5	22:COM9	26:COM1	30:COM1	18:COM5
	67	-ve	583.021	2.751	5.355	0.906	1.454	16.135
			20:COM7	24:COM1	28:COM1	16:COM3	28:COM1	20:COM7
			0.000	-7.655	-11.475	-0.599	-17.614	-1.921
			-	18:COM5	22:COM9	26:COM1	22:COM9	30:COM1
9	9	+ve	561.388	5.529	2.833	0.629	35.606	13.757
			20:COM7	16:COM3	28:COM1	24:COM1	20:COM7	16:COM3
			0.000	-5.006	-14.618	-0.674	-18.489	-12.846
			-	26:COM1	22:COM9	18:COM5	30:COM1	26:COM1
	68	-ve	553.684	5.529	2.833	0.629	0.000	8.300
			20:COM7	16:COM3	28:COM1	24:COM1	-	24:COM1
			0.000	-5.006	-14.618	-0.674	-26.429	-9.584
			-	26:COM1	22:COM9	18:COM5	22:COM9	18:COM5
21	21	+ve	622.234	0.000	7.641	5.457	10.820	15.818
			16:COM3	-	28:COM1	28:COM1	16:COM3	24:COM1
			0.000	-10.765	-13.140	-5.534	-2.653	-27.876
			-	22:COM9	22:COM9	22:COM9	26:COM1	18:COM5
	80	-ve	610.726	0.000	7.641	5.457	35.010	48.525
			16:COM3	-	28:COM1	28:COM1	28:COM1	16:COM3
			0.000	-10.765	-13.140	-5.534	-49.940	-6.004
			-	22:COM9	22:COM9	22:COM9	22:COM9	26:COM1
22	22	+ve	544.299	0.215	1.385	2.600	11.660	6.152
			20:COM7	28:COM1	28:COM1	28:COM1	16:COM3	28:COM1
			-45.593	-14.416	-10.809	-2.725	0.000	-23.415
			30:COM1	22:COM9	22:COM9	22:COM9	-	22:COM9
	81	-ve	536.595	0.215	1.385	2.600	8.977	39.916
			20:COM7	28:COM1	28:COM1	28:COM1	28:COM1	20:COM7
			-51.370	-14.416	-10.809	-2.725	-35.555	0.000
			30:COM1	22:COM9	22:COM9	22:COM9	22:COM9	-
34	34	+ve	1.63E+3	9.714	11.049	2.141	64.221	17.659
			20:COM7	16:COM3	28:COM1	24:COM1	20:COM7	24:COM1
			-950.340	-9.601	-16.266	-3.679	-57.778	-22.661
			30:COM1	26:COM1	22:COM9	18:COM5	30:COM1	18:COM5
	93	-ve	1.62E+3	9.714	11.049	2.141	4.383	55.745
			20:COM7	16:COM3	28:COM1	24:COM1	24:COM1	24:COM1
			-958.971	-9.601	-16.266	-3.679	-19.854	-61.223
			30:COM1	26:COM1	22:COM9	18:COM5	18:COM5	18:COM5

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
60	103	+ve	12.394	12.130	0.353	0.000	18.867	7.982
			20:COM7	20:COM7	28:COM15	-	20:COM7	20:COM7
			-11.601	-4.065	-17.148	-22.129	-7.840	-2.377
			30:COM17	30:COM17	22:COM9	34:CVOL3	30:COM17	30:COM17
	94	-ve	12.394	10.141	0.353	0.000	2.453	3.181
			20:COM7	20:COM7	28:COM15	-	28:COM15	28:COM15
			-11.601	-5.557	-17.148	-22.129	-10.739	-4.850
			30:COM17	30:COM17	22:COM9	34:CVOL3	22:COM9	22:COM9
61	94	+ve	22.044	3.477	0.000	0.000	3.546	3.363
			20:COM7	20:COM7	-	-	16:COM3	20:COM7
			-16.565	0.000	-2.761	-11.309	0.000	-2.165
			30:COM17	-	18:COM5	34:CVOL3	-	30:COM17
	606	-ve	22.044	0.127	0.000	0.000	0.000	0.647
			20:COM7	28:COM15	-	-	-	28:COM15
			-16.565	-3.101	-2.761	-11.309	-3.003	-0.110
			30:COM17	22:COM9	18:COM5	34:CVOL3	22:COM9	22:COM9
62	96	+ve	19.263	6.561	1.264	1.099	6.294	7.086
			20:COM7	20:COM7	28:COM15	28:COM15	16:COM3	20:COM7
			-17.523	-3.194	-6.657	-7.194	-0.353	-5.656
			30:COM17	30:COM17	22:COM9	22:COM9	26:COM13	30:COM17
	444	-ve	19.263	3.513	1.264	1.099	3.021	3.069
			20:COM7	28:COM15	28:COM15	28:COM15	28:COM15	20:COM7
			-17.523	-6.049	-6.657	-7.194	-7.596	-2.450
			30:COM17	22:COM9	22:COM9	22:COM9	22:COM9	30:COM17
63	97	+ve	3.996	7.443	1.164	1.445	4.402	8.588
			28:COM15	16:COM3	24:COM11	28:COM15	16:COM3	16:COM3
			-10.074	-3.907	-4.510	-3.765	-2.456	-6.484
			22:COM9	26:COM13	18:COM5	22:COM9	26:COM13	26:COM13
	474	-ve	3.996	4.334	1.164	1.445	0.000	3.748
			28:COM15	24:COM11	24:COM11	28:COM15	-	16:COM3
			-10.074	-6.702	-4.510	-3.765	-4.407	-2.782
			22:COM9	18:COM5	18:COM5	22:COM9	18:COM5	26:COM13
64	98	+ve	0.000	7.652	1.102	1.301	4.170	8.874
			-	16:COM3	24:COM11	28:COM15	16:COM3	16:COM3
			-6.488	-4.673	-4.211	-3.551	-2.015	-7.542
			22:COM9	26:COM13	18:COM5	22:COM9	26:COM13	26:COM13
	449	-ve	0.000	4.717	1.102	1.301	0.202	4.280
			-	24:COM11	24:COM11	28:COM15	24:COM11	16:COM3
			-6.488	-7.641	-4.211	-3.551	-4.111	-3.001
			22:COM9	18:COM5	18:COM5	22:COM9	18:COM5	26:COM13
65	99	+ve	0.000	7.337	0.900	1.359	4.064	8.479
			-	16:COM3	24:COM11	28:COM15	16:COM3	24:COM11
			-4.362	-4.966	-4.228	-3.529	-1.852	-7.984
			35:CVOL4	26:COM13	18:COM5	22:COM9	26:COM13	18:COM5
	454	-ve	0.000	4.575	0.900	1.359	0.066	4.535
			-	24:COM11	24:COM11	28:COM15	24:COM11	16:COM3
			-4.362	-8.107	-4.228	-3.529	-4.344	-2.909
			35:CVOL4	18:COM5	18:COM5	22:COM9	18:COM5	26:COM13

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
66	100	+ve	6.346	6.025	1.351	3.745	2.742	6.849
			24:COM1	16:COM3	24:COM1	20:COM7	16:COM3	16:COM3
			-11.402	-3.387	-2.419	-1.391	-2.741	-6.158
			18:COM5	26:COM1	18:COM5	30:COM1	26:COM1	26:COM1
	583	-ve	6.346	3.022	1.351	3.745	0.071	3.884
			24:COM1	24:COM1	24:COM1	20:COM7	24:COM1	16:COM3
			-11.402	-6.621	-2.419	-1.391	-2.269	-2.203
			18:COM5	18:COM5	18:COM5	30:COM1	18:COM5	26:COM1
68	81	+ve	28.108	27.126	0.167	16.972	1.322	42.745
			20:COM7	20:COM7	28:COM1	34:CVOL	20:COM7	20:COM7
			-20.006	0.000	-1.183	0.000	-0.168	-12.800
			30:COM1	-	22:COM9	-	30:COM1	30:COM1
	5925	-ve	28.108	24.103	0.167	16.972	0.204	0.000
			20:COM7	20:COM7	28:COM1	34:CVOL	28:COM1	-
			-20.006	0.000	-1.183	0.000	-1.268	-25.056
			30:COM1	-	22:COM9	-	22:COM9	22:COM9
69	83	+ve	16.357	65.807	4.095	20.561	9.785	140.336
			20:COM7	35:CVOL	28:COM1	20:COM7	20:COM7	35:CVOL
			-12.311	0.000	-9.098	-2.028	-4.545	0.000
			30:COM1	-	22:COM9	30:COM1	30:COM1	-
	483	-ve	16.357	63.109	4.095	20.561	3.443	23.984
			20:COM7	35:CVOL	28:COM1	20:COM7	28:COM1	16:COM3
			-12.311	0.000	-9.098	-2.028	-7.957	-6.101
			30:COM1	-	22:COM9	30:COM1	22:COM9	26:COM1
70	85	+ve	10.728	67.114	0.971	18.666	5.579	149.949
			20:COM7	35:CVOL	24:COM1	20:COM7	16:COM3	34:CVOL
			0.000	0.000	-5.420	-0.833	-1.398	0.000
			-	-	18:COM5	30:COM1	26:COM1	-
	488	-ve	10.728	64.415	0.971	18.666	0.496	30.645
			20:COM7	35:CVOL	24:COM1	20:COM7	24:COM1	16:COM3
			0.000	0.000	-5.420	-0.833	-4.992	-3.743
			-	-	18:COM5	30:COM1	18:COM5	26:COM1
71	87	+ve	8.481	67.693	0.643	18.478	5.389	151.678
			20:COM7	35:CVOL	24:COM1	20:COM7	16:COM3	34:CVOL
			0.000	0.000	-5.239	-0.513	-0.940	0.000
			-	-	18:COM5	30:COM1	26:COM1	-
	493	-ve	8.481	64.994	0.643	18.478	0.316	31.489
			20:COM7	35:CVOL	24:COM1	20:COM7	24:COM1	16:COM3
			0.000	0.000	-5.239	-0.513	-4.830	-3.822
			-	-	18:COM5	30:COM1	18:COM5	26:COM1
72	89	+ve	14.988	68.594	0.789	18.458	4.703	154.720
			16:COM3	34:CVOL	24:COM1	20:COM7	16:COM3	34:CVOL
			-4.529	0.000	-4.607	-0.829	-1.088	0.000
			26:COM1	-	18:COM5	30:COM1	26:COM1	-
	498	-ve	14.988	65.896	0.789	18.458	0.455	33.091
			16:COM3	34:CVOL	24:COM1	20:COM7	24:COM1	16:COM3
			-4.529	0.000	-4.607	-0.829	-4.285	-3.908
			26:COM1	-	18:COM5	30:COM1	18:COM5	26:COM1

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
73	91	+ve	27.192	55.861	1.357	21.369	4.813	116.356
			16:COM3	35:CVOL4	24:COM11	20:COM7	16:COM3	16:COM3
			-15.653	0.000	-4.338	-1.764	-1.878	0.000
			26:COM13	-	18:COM5	30:COM17	26:COM13	-
	6097	-ve	27.192	53.002	1.357	21.369	1.070	14.778
			16:COM3	35:CVOL4	24:COM11	20:COM7	28:COM15	16:COM3
			-15.653	0.000	-4.338	-1.764	-4.294	-12.471
			26:COM13	-	18:COM5	30:COM17	22:COM9	26:COM13
75	80	+ve	12.031	13.867	0.074	0.000	1.091	22.846
			16:COM3	16:COM3	28:COM15	-	20:COM7	16:COM3
			-3.237	0.000	-0.752	-3.144	-0.329	-2.422
			26:COM13	-	22:COM9	22:COM9	30:COM17	26:COM13
	613	-ve	12.031	11.617	0.074	0.000	0.000	0.000
			16:COM3	16:COM3	28:COM15	-	-	-
			-3.237	0.000	-0.752	-3.144	-0.633	-11.590
			26:COM13	-	22:COM9	22:COM9	18:COM5	18:COM5
76	82	+ve	6.844	33.999	2.800	0.000	2.774	70.928
			20:COM7	34:CVOL3	20:COM7	-	28:COM15	34:CVOL3
			-5.167	0.000	-2.259	-7.393	-3.302	0.000
			30:COM17	-	30:COM17	22:COM9	22:COM9	-
	459	-ve	6.844	31.975	2.800	0.000	2.169	9.940
			20:COM7	34:CVOL3	20:COM7	-	20:COM7	16:COM3
			-5.167	0.000	-2.259	-7.393	-1.642	-1.169
			30:COM17	-	30:COM17	22:COM9	30:COM17	26:COM13
77	84	+ve	6.974	44.732	1.505	0.000	1.553	96.082
			20:COM7	34:CVOL3	28:COM15	-	16:COM3	34:CVOL3
			-4.434	0.000	-1.266	-14.519	-1.804	0.000
			30:COM17	-	22:COM9	22:COM9	26:COM13	-
	439	-ve	6.974	42.708	1.505	0.000	1.206	13.943
			20:COM7	34:CVOL3	28:COM15	-	28:COM15	16:COM3
			-4.434	0.000	-1.266	-14.519	-0.991	0.000
			30:COM17	-	22:COM9	22:COM9	22:COM9	-
78	86	+ve	7.338	40.660	1.245	0.000	1.167	88.026
			16:COM3	34:CVOL3	24:COM11	-	16:COM3	34:CVOL3
			-4.573	0.000	-1.004	-11.556	-1.414	0.000
			26:COM13	-	18:COM5	22:COM9	26:COM13	-
	464	-ve	7.338	38.636	1.245	0.000	1.015	14.072
			16:COM3	34:CVOL3	24:COM11	-	24:COM11	16:COM3
			-4.573	0.000	-1.004	-11.556	-0.792	-0.058
			26:COM13	-	18:COM5	22:COM9	18:COM5	26:COM13
79	88	+ve	12.327	39.072	1.322	0.456	1.036	85.455
			16:COM3	34:CVOL3	24:COM11	28:COM15	24:COM11	34:CVOL3
			-11.477	0.000	-0.947	-11.281	-1.447	0.000
			26:COM13	-	18:COM5	22:COM9	18:COM5	-
	469	-ve	12.327	37.048	1.322	0.456	1.134	15.504
			16:COM3	34:CVOL3	24:COM11	28:COM15	24:COM11	16:COM3
			-11.477	0.000	-0.947	-11.281	-0.813	-0.716
			26:COM13	-	18:COM5	22:COM9	18:COM5	26:COM13

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
82	80	+ve	13.330	6.746	1.028	0.358	1.738	7.564
			28:COM15	20:COM7	20:COM7	28:COM15	28:COM15	28:COM15
			-13.940	-2.504	-0.963	-1.012	-1.870	-7.989
			22:COM9	30:COM17	30:COM17	22:COM9	22:COM9	22:COM9
	81	-ve	13.330	0.157	1.028	0.358	1.902	15.672
			28:COM15	28:COM15	20:COM7	28:COM15	20:COM7	20:COM7
			-13.940	-11.541	-0.963	-1.012	-1.794	-2.992
			22:COM9	22:COM9	30:COM17	22:COM9	30:COM17	30:COM17
83	81	+ve	2.191	16.962	0.006	0.040	0.034	31.803
			20:COM7	35:CVOL4	28:COM15	16:COM3	20:COM7	35:CVOL4
			-1.549	0.000	-0.006	-0.007	-0.035	0.000
			30:COM17	-	22:COM9	26:COM13	30:COM17	-
	94	-ve	2.191	0.000	0.006	0.040	0.035	31.486
			20:COM7	-	28:COM15	16:COM3	20:COM7	34:CVOL3
			-1.549	-16.907	-0.006	-0.007	-0.034	0.000
			30:COM17	34:CVOL3	22:COM9	26:COM13	30:COM17	-
84	82	+ve	85.762	4.708	3.085	5.621	0.613	5.330
			20:COM7	28:COM15	20:COM7	16:COM3	28:COM15	20:COM7
			-45.504	-17.548	-0.625	0.000	-2.328	-6.902
			30:COM17	22:COM9	30:COM17	-	22:COM9	30:COM17
	356	-ve	85.762	2.129	3.085	5.621	2.691	25.705
			20:COM7	28:COM15	20:COM7	16:COM3	16:COM3	20:COM7
			-45.504	-22.266	-0.625	0.000	-0.471	-0.895
			30:COM17	22:COM9	30:COM17	-	26:COM13	30:COM17
85	83	+ve	42.598	21.732	38.434	4.124	1.449	5.442
			28:COM15	28:COM15	16:COM3	16:COM3	24:COM11	28:COM15
			-102.173	-77.110	-9.363	-1.001	-8.632	-20.595
			22:COM9	22:COM9	26:COM13	26:COM13	18:COM5	22:COM9
	141	-ve	42.598	20.989	38.434	4.124	10.593	18.308
			28:COM15	28:COM15	16:COM3	16:COM3	16:COM3	20:COM7
			-102.173	-78.501	-9.363	-1.001	-3.239	-5.239
			22:COM9	22:COM9	26:COM13	26:COM13	26:COM13	30:COM17
86	84	+ve	97.037	0.000	0.000	0.627	0.380	0.864
			20:COM7	-	-	24:COM11	16:COM3	28:COM15
			-42.366	-18.267	-0.600	-0.880	0.000	-10.003
			30:COM17	22:COM9	18:COM5	18:COM5	-	22:COM9
	359	-ve	97.037	0.000	0.000	0.627	0.089	23.014
			20:COM7	-	-	24:COM11	24:COM11	20:COM7
			-42.366	-22.985	-0.600	-0.880	-0.661	0.000
			30:COM17	22:COM9	18:COM5	18:COM5	18:COM5	-
87	85	+ve	23.500	3.808	13.221	1.521	4.634	0.786
			28:COM15	28:COM15	24:COM11	24:COM11	16:COM3	28:COM15
			-77.994	-70.655	-22.583	-2.444	-2.320	-19.015
			22:COM9	22:COM9	18:COM5	18:COM5	26:COM13	22:COM9
	142	-ve	23.500	3.065	13.221	1.521	4.293	16.660
			28:COM15	28:COM15	24:COM11	24:COM11	24:COM11	20:COM7
			-77.994	-72.045	-22.583	-2.444	-6.660	-0.933
			22:COM9	22:COM9	18:COM5	18:COM5	18:COM5	30:COM17

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
88	86	+ve	89.473	0.000	0.371	0.648	0.054	0.000
			20:COM7	-	16:COM3	24:COM1	24:COM1	-
			-40.752	-17.686	0.000	-0.708	-0.365	-9.607
			30:COM1	22:COM9	-	18:COM5	18:COM5	22:COM9
	360	-ve	89.473	0.000	0.371	0.648	0.481	22.468
			20:COM7	-	16:COM3	24:COM1	16:COM3	20:COM7
			-40.752	-22.404	0.000	-0.708	-0.123	0.000
			30:COM1	22:COM9	-	18:COM5	26:COM1	-
89	87	+ve	21.820	0.000	17.079	1.906	3.486	0.000
			28:COM1	-	24:COM1	24:COM1	16:COM3	-
			-77.564	-66.742	-17.973	-2.005	-3.276	-18.052
			22:COM9	22:COM9	18:COM5	18:COM5	26:COM1	22:COM9
	143	-ve	21.820	0.000	17.079	1.906	5.264	15.666
			28:COM1	-	24:COM1	24:COM1	24:COM1	20:COM7
			-77.564	-68.132	-17.973	-2.005	-5.502	0.000
			22:COM9	22:COM9	18:COM5	18:COM5	18:COM5	-
90	88	+ve	103.388	0.000	0.236	0.844	0.167	0.000
			20:COM7	-	16:COM3	16:COM3	28:COM1	-
			-38.638	-21.544	-0.241	-0.731	-0.213	-13.414
			30:COM1	22:COM9	26:COM1	26:COM1	22:COM9	22:COM9
	361	-ve	103.388	0.000	0.236	0.844	0.303	24.845
			20:COM7	-	16:COM3	16:COM3	24:COM1	20:COM7
			-38.638	-26.263	-0.241	-0.731	-0.358	0.000
			30:COM1	22:COM9	26:COM1	26:COM1	18:COM5	-
91	89	+ve	24.347	0.000	17.353	1.947	3.388	0.000
			28:COM1	-	16:COM3	16:COM3	24:COM1	-
			-76.294	-70.170	-17.593	-1.955	-3.324	-19.015
			22:COM9	22:COM9	26:COM1	26:COM1	18:COM5	22:COM9
	144	-ve	24.347	0.000	17.353	1.947	5.353	16.419
			28:COM1	-	16:COM3	16:COM3	16:COM3	20:COM7
			-76.294	-71.561	-17.593	-1.955	-5.410	0.000
			22:COM9	22:COM9	26:COM1	26:COM1	26:COM1	-
92	90	+ve	97.564	0.000	0.214	0.278	0.646	0.000
			20:COM7	-	24:COM1	24:COM1	16:COM3	-
			-38.604	-19.807	-0.412	-2.555	-0.622	-10.938
			30:COM1	22:COM9	18:COM5	18:COM5	26:COM1	18:COM5
	362	-ve	97.564	0.000	0.214	0.278	0.199	26.013
			20:COM7	-	24:COM1	24:COM1	24:COM1	20:COM7
			-38.604	-24.525	-0.412	-2.555	-0.491	0.000
			30:COM1	22:COM9	18:COM5	18:COM5	18:COM5	-
93	91	+ve	42.955	0.082	17.206	1.863	4.379	0.000
			28:COM1	28:COM1	24:COM1	24:COM1	16:COM3	-
			-94.981	-66.528	-21.783	-2.415	-3.298	-18.170
			22:COM9	22:COM9	18:COM5	18:COM5	26:COM1	22:COM9
	145	-ve	42.955	0.000	17.206	1.863	5.306	15.445
			28:COM1	-	24:COM1	24:COM1	24:COM1	20:COM7
			-94.981	-67.918	-21.783	-2.415	-6.513	0.000
			22:COM9	22:COM9	18:COM5	18:COM5	18:COM5	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
95	93	+ve	37.497	21.784	15.328	4.183	20.103	43.011
			20:COM7	20:COM7	24:COM11	24:COM11	16:COM3	20:COM7
			-19.231	0.000	-18.724	-4.811	-16.038	0.000
			30:COM17	-	18:COM5	18:COM5	26:COM13	-
	6331	-ve	37.497	15.739	15.328	4.183	15.397	5.510
			20:COM7	20:COM7	24:COM11	24:COM11	24:COM11	28:COM15
			-19.231	0.000	-18.724	-4.811	-18.294	-9.292
			30:COM17	-	18:COM5	18:COM5	18:COM5	22:COM9
101	101	+ve	20.417	7.983	6.013	3.858	12.077	8.197
			28:COM15	20:COM7	28:COM15	28:COM15	20:COM7	20:COM7
			-28.659	0.000	-6.208	-4.619	-11.739	-0.592
			22:COM9	-	22:COM9	22:COM9	30:COM17	30:COM17
	102	-ve	20.417	0.000	6.013	3.858	10.328	6.270
			28:COM15	-	28:COM15	28:COM15	28:COM15	20:COM7
			-28.659	-6.858	-6.208	-4.619	-10.709	-1.922
			22:COM9	22:COM9	22:COM9	22:COM9	22:COM9	30:COM17
102	102	+ve	3.491	19.158	0.844	3.321	5.139	36.573
			24:COM11	35:CVOL4	28:COM15	20:COM7	20:COM7	35:CVOL4
			-6.820	0.000	-0.921	-0.244	-4.606	0.000
			18:COM5	-	22:COM9	30:COM17	30:COM17	-
	103	-ve	3.491	0.000	0.844	3.321	5.004	36.214
			24:COM11	-	28:COM15	20:COM7	28:COM15	34:CVOL3
			-6.820	-19.090	-0.921	-0.244	-5.344	0.000
			18:COM5	34:CVOL3	22:COM9	30:COM17	22:COM9	-
104	113	+ve	31.566	10.917	1.177	4.262	1.594	11.897
			28:COM15	20:COM7	28:COM15	24:COM11	20:COM7	20:COM7
			-55.668	-6.080	-2.876	-9.233	-0.542	-8.020
			22:COM9	30:COM17	22:COM9	18:COM5	30:COM17	30:COM17
	541	-ve	31.566	9.538	1.177	4.262	2.113	5.172
			28:COM15	20:COM7	28:COM15	24:COM11	24:COM11	28:COM15
			-55.668	-7.114	-2.876	-9.233	-4.448	-8.531
			22:COM9	30:COM17	22:COM9	18:COM5	18:COM5	22:COM9
105	112	+ve	15.748	14.133	0.903	1.862	1.775	16.375
			24:COM11	20:COM7	28:COM15	28:COM15	20:COM7	20:COM7
			-22.677	-10.030	-2.118	-4.188	-0.651	-12.636
			18:COM5	30:COM17	22:COM9	22:COM9	30:COM17	30:COM17
	643	-ve	15.748	12.820	0.903	1.862	1.084	7.341
			24:COM11	20:COM7	28:COM15	28:COM15	28:COM15	28:COM15
			-22.677	-11.015	-2.118	-4.188	-2.265	-9.211
			18:COM5	30:COM17	22:COM9	22:COM9	22:COM9	22:COM9
107	111	+ve	3.899	8.374	0.492	1.256	0.430	9.813
			28:COM15	20:COM7	20:COM7	28:COM15	28:COM15	28:COM15
			-6.516	-7.547	-0.470	-1.593	-0.431	-9.711
			22:COM9	30:COM17	30:COM17	22:COM9	22:COM9	22:COM9
	670	-ve	3.899	7.349	0.492	1.256	0.468	5.162
			28:COM15	28:COM15	20:COM7	28:COM15	20:COM7	16:COM3
			-6.516	-8.733	-0.470	-1.593	-0.428	-4.551
			22:COM9	22:COM9	30:COM17	22:COM9	30:COM17	26:COM13

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
108	120	+ve	7.611	12.524	2.114	2.010	1.964	9.813
			16:COM3	24:COM11	28:COM15	16:COM3	16:COM3	24:COM11
			-4.316	-13.883	-3.489	-1.598	-0.549	-10.803
			26:COM13	18:COM5	22:COM9	26:COM13	26:COM13	18:COM5
	691	-ve	7.611	11.931	2.114	2.010	1.930	6.786
			16:COM3	24:COM11	28:COM15	16:COM3	28:COM15	20:COM7
			-4.316	-14.674	-3.489	-1.598	-2.088	-5.430
			26:COM13	18:COM5	22:COM9	26:COM13	22:COM9	30:COM17
109	104	+ve	9.914	8.712	0.813	2.045	1.552	10.210
			28:COM15	24:COM11	28:COM15	28:COM15	20:COM7	24:COM11
			-14.885	-8.355	-1.730	-4.438	-0.604	-11.236
			22:COM9	18:COM5	22:COM9	22:COM9	30:COM17	18:COM5
	499	-ve	9.914	7.677	0.813	2.045	1.020	6.810
			28:COM15	24:COM11	28:COM15	28:COM15	28:COM15	16:COM3
			-14.885	-9.736	-1.730	-4.438	-1.901	-6.138
			22:COM9	18:COM5	22:COM9	22:COM9	22:COM9	26:COM13
110	105	+ve	9.712	13.255	0.695	1.806	1.755	15.898
			28:COM15	16:COM3	28:COM15	28:COM15	20:COM7	24:COM11
			-18.948	-12.474	-1.938	-4.637	-0.464	-16.206
			22:COM9	26:COM13	22:COM9	22:COM9	30:COM17	18:COM5
	505	-ve	9.712	12.200	0.695	1.806	0.909	9.716
			28:COM15	24:COM11	28:COM15	28:COM15	28:COM15	16:COM3
			-18.948	-13.810	-1.938	-4.637	-2.073	-9.205
			22:COM9	18:COM5	22:COM9	22:COM9	22:COM9	26:COM13
111	106	+ve	4.697	13.065	0.746	2.363	1.854	15.931
			28:COM15	24:COM11	28:COM15	28:COM15	20:COM7	24:COM11
			-8.128	-14.227	-2.001	-4.806	-0.474	-18.402
			22:COM9	18:COM5	22:COM9	22:COM9	30:COM17	18:COM5
	577	-ve	4.697	12.035	0.746	2.363	1.007	11.196
			28:COM15	24:COM11	28:COM15	28:COM15	28:COM15	16:COM3
			-8.128	-15.600	-2.001	-4.806	-2.119	-8.977
			22:COM9	18:COM5	22:COM9	22:COM9	22:COM9	26:COM13
112	107	+ve	92.042	27.228	5.684	20.738	2.460	27.126
			24:COM11	16:COM3	24:COM11	28:COM15	28:COM15	24:COM11
			-93.164	-25.301	-6.361	-29.982	-3.719	-28.745
			18:COM5	26:COM13	18:COM5	22:COM9	22:COM9	18:COM5
	620	-ve	92.042	24.940	5.684	20.738	8.042	16.943
			24:COM11	24:COM11	24:COM11	28:COM15	24:COM11	16:COM3
			-93.164	-28.111	-6.361	-29.982	-10.441	-17.514
			18:COM5	18:COM5	18:COM5	22:COM9	18:COM5	26:COM13
116	61	+ve	30.878	32.466	3.890	1.946	1.304	34.066
			24:COM11	24:COM11	20:COM7	24:COM11	28:COM15	24:COM11
			-55.750	-188.006	-3.393	-3.392	-1.967	-120.491
			18:COM5	18:COM5	30:COM17	18:COM5	22:COM9	18:COM5
	694	-ve	30.878	31.580	3.890	1.946	0.890	17.790
			24:COM11	24:COM11	20:COM7	24:COM11	24:COM11	28:COM15
			-55.750	-189.628	-3.393	-3.392	-1.280	-17.977
			18:COM5	18:COM5	30:COM17	18:COM5	18:COM5	22:COM9

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
118	112	+ve	1.631	68.966	0.740	1.120	1.389	85.750
			28:COM15	20:COM7	28:COM15	28:COM15	20:COM7	20:COM7
			-21.361	-25.608	-0.809	-1.528	-1.214	-36.700
			22:COM9	30:COM17	22:COM9	22:COM9	30:COM17	30:COM17
	65	-ve	1.631	60.263	0.740	1.120	0.984	45.899
			28:COM15	20:COM7	28:COM15	28:COM15	20:COM7	28:COM15
			-21.361	-30.364	-0.809	-1.528	-1.012	-104.951
			22:COM9	30:COM17	22:COM9	22:COM9	30:COM17	22:COM9
119	65	+ve	298.565	10.874	18.688	2.079	5.335	4.227
			20:COM7	28:COM15	20:COM7	20:COM7	28:COM15	28:COM15
			0.000	-106.739	-16.871	-2.010	-5.471	-14.048
			-	22:COM9	30:COM17	30:COM17	22:COM9	22:COM9
	701	-ve	298.565	9.988	18.688	2.079	4.812	45.195
			20:COM7	28:COM15	20:COM7	20:COM7	20:COM7	20:COM7
			0.000	-108.361	-16.871	-2.010	-3.948	-1.607
			-	22:COM9	30:COM17	30:COM17	30:COM17	30:COM17
121	111	+ve	4.445	21.539	0.811	1.928	1.048	26.903
			20:COM7	20:COM7	16:COM3	28:COM15	24:COM11	20:COM7
			-3.255	-6.729	-0.744	-2.371	-1.189	-10.903
			30:COM17	30:COM17	26:COM13	22:COM9	18:COM5	30:COM17
	67	-ve	4.445	12.836	0.811	1.928	1.205	15.977
			20:COM7	20:COM7	16:COM3	28:COM15	16:COM3	28:COM15
			-3.255	-11.486	-0.744	-2.371	-1.148	-23.824
			30:COM17	30:COM17	26:COM13	22:COM9	26:COM13	22:COM9
125	104	+ve	0.000	74.612	1.041	0.754	1.169	94.359
			-	20:COM7	16:COM3	28:COM15	24:COM11	20:COM7
			-19.312	-23.570	-0.721	-1.999	-1.791	-33.145
			22:COM9	30:COM17	26:COM13	22:COM9	18:COM5	30:COM17
	70	-ve	0.000	65.931	1.041	0.754	1.281	43.228
			-	20:COM7	16:COM3	28:COM15	16:COM3	28:COM15
			-19.312	-28.315	-0.721	-1.999	-0.960	-112.515
			22:COM9	30:COM17	26:COM13	22:COM9	26:COM13	22:COM9
126	70	+ve	50.324	4.240	0.203	0.657	0.782	2.800
			20:COM7	20:COM7	24:COM11	16:COM3	16:COM3	20:COM7
			0.000	0.000	-0.240	-0.591	-0.670	-3.254
			-	-	18:COM5	26:COM13	26:COM13	30:COM17
	126	-ve	50.324	0.000	0.203	0.657	0.288	19.944
			20:COM7	-	24:COM11	16:COM3	24:COM11	34:CVOL3
			0.000	-12.367	-0.240	-0.591	-0.352	0.000
			-	34:CVOL3	18:COM5	26:COM13	18:COM5	-
127	105	+ve	0.000	79.385	1.080	1.461	1.790	100.161
			-	20:COM7	16:COM3	28:COM15	24:COM11	20:COM7
			-23.437	-21.191	-1.050	-1.710	-1.804	-31.303
			22:COM9	30:COM17	26:COM13	22:COM9	18:COM5	30:COM17
	72	-ve	0.000	70.703	1.080	1.461	1.377	38.067
			-	20:COM7	16:COM3	28:COM15	16:COM3	28:COM15
			-23.437	-25.936	-1.050	-1.710	-1.302	-120.761
			22:COM9	30:COM17	26:COM13	22:COM9	26:COM13	22:COM9

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
128	72	+ve	383.313	0.000	20.983	2.626	7.042	0.000
			20:COM7	-	24:COM11	16:COM3	16:COM3	-
			0.000	-147.122	-22.857	-1.858	-6.476	-25.756
			-	22:COM9	18:COM5	26:COM13	26:COM13	22:COM9
	397	-ve	383.313	0.000	20.983	2.626	5.068	55.704
			20:COM7	-	24:COM11	16:COM3	24:COM11	20:COM7
			0.000	-148.744	-22.857	-1.858	-5.533	0.000
			-	22:COM9	18:COM5	26:COM13	18:COM5	-
129	106	+ve	1.789	81.265	0.648	2.225	1.576	102.450
			28:COM15	20:COM7	24:COM11	16:COM3	16:COM3	20:COM7
			-20.210	-34.766	-0.953	-1.537	-1.045	-48.472
			22:COM9	30:COM17	18:COM5	26:COM13	26:COM13	30:COM17
	75	-ve	1.789	72.583	0.648	2.225	0.861	60.862
			28:COM15	20:COM7	24:COM11	16:COM3	24:COM11	28:COM15
			-20.210	-39.510	-0.953	-1.537	-1.230	-124.008
			22:COM9	30:COM17	18:COM5	26:COM13	18:COM5	22:COM9
130	75	+ve	442.092	34.031	20.524	1.317	6.519	6.987
			20:COM7	28:COM15	24:COM11	24:COM11	16:COM3	28:COM15
			-53.286	-168.787	-22.069	-4.051	-6.285	-30.039
			30:COM17	22:COM9	18:COM5	18:COM5	26:COM13	22:COM9
	398	-ve	442.092	33.145	20.524	1.317	5.005	63.289
			20:COM7	28:COM15	24:COM11	24:COM11	24:COM11	20:COM7
			-53.286	-170.409	-22.069	-4.051	-5.621	-11.536
			30:COM17	22:COM9	18:COM5	18:COM5	18:COM5	30:COM17
132	122	+ve	37.818	1.638	2.582	0.928	1.910	0.000
			28:COM15	24:COM11	20:COM7	28:COM15	28:COM15	-
			-42.823	-9.170	-2.246	-0.998	-2.279	-8.937
			22:COM9	18:COM5	30:COM17	22:COM9	22:COM9	22:COM9
	64	-ve	37.818	0.000	2.582	0.928	2.360	12.348
			28:COM15	-	20:COM7	28:COM15	20:COM7	16:COM3
			-42.823	-14.467	-2.246	-0.998	-2.125	-0.635
			22:COM9	18:COM5	30:COM17	22:COM9	30:COM17	26:COM13
133	123	+ve	41.354	0.000	1.708	0.000	2.293	0.000
			28:COM15	-	24:COM11	-	16:COM3	-
			-61.712	-18.209	-2.634	-6.069	-1.501	-16.395
			22:COM9	22:COM9	18:COM5	22:COM9	26:COM13	22:COM9
	71	-ve	41.354	0.000	1.708	0.000	1.569	21.070
			28:COM15	-	24:COM11	-	24:COM11	20:COM7
			-61.712	-23.505	-2.634	-6.069	-2.440	0.000
			22:COM9	22:COM9	18:COM5	22:COM9	18:COM5	-
134	124	+ve	27.937	0.000	1.115	6.764	2.495	0.000
			28:COM15	-	28:COM15	35:CVOL4	20:COM7	-
			-49.216	-16.899	-2.650	0.000	-1.060	-14.212
			22:COM9	18:COM5	22:COM9	-	30:COM17	18:COM5
	73	-ve	27.937	0.000	1.115	6.764	1.004	20.905
			28:COM15	-	28:COM15	35:CVOL4	28:COM15	16:COM3
			-49.216	-22.196	-2.650	0.000	-2.324	0.000
			22:COM9	18:COM5	22:COM9	-	22:COM9	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
135	76	+ve	0.000	68.289	1.788	0.813	1.259	51.306
			-	24:COM11	28:COM15	28:COM15	16:COM3	28:COM15
			-14.244	-148.315	-2.353	-1.060	-0.584	-96.407
			18:COM5	18:COM5	22:COM9	22:COM9	26:COM13	22:COM9
	399	-ve	0.000	67.403	1.788	0.813	1.850	19.294
			-	24:COM11	28:COM15	28:COM15	16:COM3	20:COM7
			-14.244	-149.936	-2.353	-1.060	-1.486	-19.691
			18:COM5	18:COM5	22:COM9	22:COM9	26:COM13	30:COM17
136	125	+ve	17.116	7.231	0.553	2.072	1.154	3.403
			24:COM17	28:COM15	24:COM11	16:COM3	16:COM3	28:COM15
			-22.083	-8.750	-0.821	-0.555	-1.055	-6.346
			18:COM5	22:COM9	18:COM5	26:COM13	26:COM13	22:COM9
	74	-ve	17.116	4.336	0.553	2.072	0.445	14.151
			24:COM17	28:COM15	24:COM11	16:COM3	28:COM15	20:COM7
			-22.083	-14.047	-0.821	-0.555	-0.827	-7.008
			18:COM5	22:COM9	18:COM5	26:COM13	22:COM9	30:COM17
140	122	+ve	21.404	33.402	1.431	7.082	0.713	51.971
			20:COM7	34:CVOL3	20:COM7	20:COM7	28:COM15	34:CVOL3
			-17.565	0.000	-0.491	-1.162	-1.761	0.000
			30:COM17	-	30:COM17	30:COM17	22:COM9	-
	637	-ve	21.404	31.455	1.431	7.082	0.963	0.000
			20:COM7	34:CVOL3	20:COM7	20:COM7	20:COM7	-
			-17.565	0.000	-0.491	-1.162	-0.248	-10.305
			30:COM17	-	30:COM17	30:COM17	30:COM17	22:COM9
141	126	+ve	37.570	0.000	2.238	0.469	1.505	0.000
			28:COM15	-	16:COM3	16:COM3	24:COM11	-
			-73.423	-25.391	-1.677	-0.353	-1.965	-22.807
			22:COM9	22:COM9	26:COM13	26:COM13	18:COM5	34:CVOL3
	69	-ve	37.570	0.000	2.238	0.469	2.161	28.871
			28:COM15	-	16:COM3	16:COM3	16:COM3	20:COM7
			-73.423	-29.168	-1.677	-0.353	-1.589	0.000
			22:COM9	34:CVOL3	26:COM13	26:COM13	26:COM13	-
142	66	+ve	11.714	45.772	1.027	11.427	0.412	73.167
			28:COM15	34:CVOL3	20:COM7	20:COM7	28:COM15	34:CVOL3
			-10.275	0.000	-0.478	0.000	-0.911	0.000
			22:COM9	-	30:COM17	-	22:COM9	-
	662	-ve	11.714	43.813	1.027	11.427	1.029	0.000
			28:COM15	34:CVOL3	20:COM7	20:COM7	20:COM7	-
			-10.275	0.000	-0.478	0.000	-0.492	-13.776
			22:COM9	-	30:COM17	-	30:COM17	18:COM5
145	61	+ve	14.565	15.253	2.261	4.096	2.325	22.996
			28:COM15	24:COM11	28:COM15	20:COM7	20:COM7	24:COM17
			-18.634	-24.774	-2.292	-2.560	-2.274	-37.669
			22:COM9	18:COM5	22:COM9	30:COM17	30:COM17	18:COM5
	523	-ve	14.565	13.966	2.261	4.096	2.238	13.170
			28:COM15	24:COM11	28:COM15	20:COM7	28:COM15	16:COM3
			-18.634	-26.489	-2.292	-2.560	-2.248	-5.981
			22:COM9	18:COM5	22:COM9	30:COM17	22:COM9	26:COM13

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
146	65	+ve	21.813	18.610	0.744	13.772	3.576	29.252
			28:COM15	20:COM7	28:COM15	20:COM7	16:COM3	20:COM7
			-22.975	-8.118	-3.304	-2.551	-1.152	-18.762
			22:COM9	30:COM17	22:COM9	30:COM17	26:COM13	30:COM17
	642	-ve	21.813	16.969	0.744	13.772	0.379	0.000
			28:COM15	20:COM7	28:COM15	20:COM7	28:COM15	-
			-22.975	-9.349	-3.304	-2.551	-2.812	-5.141
			22:COM9	30:COM17	22:COM9	30:COM17	22:COM9	34:CVOL3
147	67	+ve	10.706	19.628	0.202	10.026	0.044	34.589
			28:COM15	20:COM7	20:COM7	20:COM7	28:COM15	20:COM7
			-10.151	0.000	-0.078	0.000	-0.169	0.000
			22:COM9	-	30:COM17	-	22:COM9	-
	666	-ve	10.706	18.058	0.202	10.026	0.215	1.371
			28:COM15	20:COM7	20:COM7	20:COM7	20:COM7	24:COM17
			-10.151	0.000	-0.078	0.000	-0.115	-1.353
			22:COM9	-	30:COM17	-	30:COM17	18:COM5
148	68	+ve	2.163	7.602	0.169	4.652	0.179	17.359
			28:COM15	20:COM7	24:COM11	20:COM7	20:COM7	20:COM7
			-7.872	0.000	-0.252	-1.116	-0.045	0.000
			22:COM9	-	18:COM5	30:COM17	30:COM17	-
	688	-ve	2.163	6.061	0.169	4.652	0.332	10.805
			28:COM15	20:COM7	24:COM11	20:COM7	24:COM11	20:COM7
			-7.872	0.000	-0.252	-1.116	-0.346	-7.712
			22:COM9	-	18:COM5	30:COM17	18:COM5	30:COM17
149	70	+ve	21.372	20.828	0.227	20.646	4.521	44.311
			24:COM17	20:COM7	24:COM11	20:COM7	16:COM3	20:COM7
			-24.651	-6.486	-4.161	0.000	-0.527	-9.442
			18:COM5	30:COM17	18:COM5	-	26:COM13	30:COM17
	415	-ve	21.372	19.134	0.227	20.646	0.000	7.475
			24:COM17	20:COM7	24:COM11	20:COM7	-	20:COM7
			-24.651	-7.756	-4.161	0.000	-3.629	0.000
			18:COM5	30:COM17	18:COM5	-	18:COM5	-
150	126	+ve	15.861	53.200	6.475	5.170	2.877	141.469
			24:COM17	34:CVOL3	20:COM7	20:COM7	28:COM15	35:CVOL4
			-21.299	0.000	-2.694	-1.347	-7.090	0.000
			18:COM5	-	30:COM17	30:COM17	22:COM9	-
	409	-ve	15.861	50.988	6.475	5.170	5.657	38.990
			24:COM17	34:CVOL3	20:COM7	20:COM7	20:COM7	35:CVOL4
			-21.299	0.000	-2.694	-1.347	-2.433	0.000
			18:COM5	-	30:COM17	30:COM17	30:COM17	-
152	72	+ve	28.377	25.203	0.440	23.976	4.101	53.311
			16:COM3	20:COM7	24:COM11	20:COM7	16:COM3	20:COM7
			-27.198	-4.519	-3.928	0.000	-0.565	-6.807
			26:COM13	30:COM17	18:COM5	-	26:COM13	30:COM17
	427	-ve	28.377	23.497	0.440	23.976	0.313	6.560
			16:COM3	20:COM7	24:COM11	20:COM7	24:COM11	35:CVOL4
			-27.198	-5.799	-3.928	0.000	-3.659	0.000
			26:COM13	30:COM17	18:COM5	-	18:COM5	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
153	124	+ve	53.356	19.575	5.032	0.785	2.817	28.994
			16:COM3	16:COM3	16:COM3	28:COM1	24:COM1	16:COM3
			-46.337	-3.930	-3.137	-4.813	-4.368	-18.370
			26:COM1	26:COM1	26:COM1	22:COM9	18:COM5	26:COM1
	601	-ve	53.356	17.526	5.032	0.785	5.575	0.000
			16:COM3	16:COM3	16:COM3	28:COM1	16:COM3	-
			-46.337	-5.467	-3.137	-4.813	-3.383	-14.239
			26:COM1	26:COM1	26:COM1	22:COM9	26:COM1	18:COM5
154	78	+ve	18.479	8.603	10.038	1.988	2.385	7.191
			24:COM1	24:COM1	16:COM3	16:COM3	24:COM1	16:COM3
			-20.720	-22.914	-4.638	-1.101	-4.915	-6.365
			18:COM5	18:COM5	26:COM1	26:COM1	18:COM5	26:COM1
	604	-ve	18.479	8.066	10.038	1.988	2.037	10.056
			24:COM1	24:COM1	16:COM3	16:COM3	16:COM3	16:COM3
			-20.720	-23.630	-4.638	-1.101	-0.843	0.000
			18:COM5	18:COM5	26:COM1	26:COM1	26:COM1	-
157	127	+ve	326.867	0.514	2.166	0.090	21.061	4.462
			34:CVOL	24:COM1	28:COM1	16:COM3	20:COM7	24:COM1
			0.000	-3.853	-10.747	-0.071	-8.789	-8.396
			-	18:COM5	22:COM9	26:COM1	30:COM1	18:COM5
	128	-ve	322.206	0.514	2.166	0.090	0.366	10.284
			34:CVOL	24:COM1	28:COM1	16:COM3	28:COM1	20:COM7
			0.000	-3.853	-10.747	-0.071	-24.133	-0.193
			-	18:COM5	22:COM9	26:COM1	22:COM9	30:COM1
158	129	+ve	452.067	0.805	12.106	0.149	7.498	4.538
			34:CVOL	28:COM1	20:COM7	16:COM3	28:COM1	16:COM3
			0.000	-0.136	-0.768	-0.125	-22.284	-3.231
			-	22:COM9	30:COM1	26:COM1	22:COM9	26:COM1
	130	-ve	447.407	0.805	12.106	0.149	28.567	2.865
			34:CVOL	28:COM1	20:COM7	16:COM3	20:COM7	16:COM3
			0.000	-0.136	-0.768	-0.125	0.000	-4.367
			-	22:COM9	30:COM1	26:COM1	-	26:COM1
159	131	+ve	326.504	0.000	7.700	0.082	14.589	3.584
			34:CVOL	-	20:COM7	24:COM1	28:COM1	24:COM1
			0.000	-0.948	-5.773	-0.109	-16.470	-4.640
			-	22:COM9	30:COM1	18:COM5	22:COM9	18:COM5
	132	-ve	321.844	0.000	7.700	0.082	15.891	5.443
			34:CVOL	-	20:COM7	24:COM1	20:COM7	16:COM3
			0.000	-0.948	-5.773	-0.109	-9.678	-2.052
			-	22:COM9	30:COM1	18:COM5	30:COM1	26:COM1
160	64	+ve	22.043	11.720	0.390	0.911	0.685	24.747
			16:COM3	24:COM1	20:COM7	16:COM3	28:COM1	24:COM1
			-11.246	-20.009	-0.310	-0.535	-0.867	-54.405
			26:COM1	18:COM5	30:COM1	26:COM1	22:COM9	18:COM5
	128	-ve	22.043	4.741	0.390	0.911	0.825	59.890
			16:COM3	24:COM1	20:COM7	16:COM3	20:COM7	16:COM3
			-11.246	-32.779	-0.310	-0.535	-0.660	-10.896
			26:COM1	18:COM5	30:COM1	26:COM1	30:COM1	26:COM1

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
161	128	+ve	10.667	6.681	0.061	0.341	0.236	14.900
			16:COM3	20:COM7	16:COM3	20:COM7	24:COM11	28:COM15
			-7.189	-0.918	-0.048	-0.046	-0.287	-11.498
			26:COM13	30:COM17	26:COM13	30:COM17	18:COM5	22:COM9
	84	-ve	10.667	0.600	0.061	0.341	0.221	21.082
			16:COM3	28:COM15	16:COM3	20:COM7	16:COM3	20:COM7
			-7.189	-7.512	-0.048	-0.046	-0.167	-12.870
			26:COM13	22:COM9	26:COM13	30:COM17	26:COM13	30:COM17
162	128	+ve	17.328	72.753	3.921	7.709	2.774	148.364
			16:COM3	34:CVOL3	24:COM11	20:COM7	16:COM3	34:CVOL3
			-12.208	0.000	-4.670	-7.272	-2.349	0.000
			26:COM13	-	18:COM5	30:COM17	26:COM13	-
	5923	-ve	17.328	71.255	3.921	7.709	1.899	70.386
			16:COM3	34:CVOL3	24:COM11	20:COM7	24:COM11	34:CVOL3
			-12.208	0.000	-4.670	-7.272	-2.284	0.000
			26:COM13	-	18:COM5	30:COM17	18:COM5	-
164	69	+ve	11.209	33.131	0.987	0.000	0.580	60.560
			24:COM11	20:COM7	16:COM3	-	24:COM11	20:COM7
			-13.496	0.000	-0.573	-3.469	-0.849	0.000
			18:COM5	-	26:COM13	22:COM9	18:COM5	-
	674	-ve	11.209	31.457	0.987	0.000	1.104	1.047
			24:COM11	20:COM7	16:COM3	-	16:COM3	28:COM15
			-13.496	0.000	-0.573	-3.469	-0.573	-11.709
			18:COM5	-	26:COM13	22:COM9	26:COM13	22:COM9
165	130	+ve	4.705	10.128	0.098	0.348	0.386	30.485
			20:COM7	20:COM7	16:COM3	20:COM7	24:COM11	20:COM7
			0.000	-0.549	-0.096	-0.123	-0.404	-5.594
			-	30:COM17	26:COM13	30:COM17	18:COM5	30:COM17
	86	-ve	4.705	3.607	0.098	0.348	0.338	16.979
			20:COM7	20:COM7	16:COM3	20:COM7	16:COM3	28:COM15
			0.000	-5.439	-0.096	-0.123	-0.336	-21.286
			-	30:COM17	26:COM13	30:COM17	26:COM13	22:COM9
167	132	+ve	8.025	9.586	0.091	0.333	0.328	23.723
			16:COM3	20:COM7	16:COM3	20:COM7	24:COM11	20:COM7
			-1.735	-2.212	-0.090	-0.053	-0.324	-9.800
			26:COM13	30:COM17	26:COM13	30:COM17	18:COM5	30:COM17
	88	-ve	8.025	4.013	0.091	0.333	0.289	19.696
			16:COM3	28:COM15	16:COM3	20:COM7	16:COM3	28:COM15
			-1.735	-6.806	-0.090	-0.053	-0.275	-21.160
			26:COM13	22:COM9	26:COM13	30:COM17	26:COM13	22:COM9
168	132	+ve	13.567	70.652	0.460	5.195	1.103	142.349
			20:COM7	34:CVOL3	28:COM15	28:COM15	20:COM7	34:CVOL3
			-10.557	0.000	-1.545	-18.509	-0.540	0.000
			30:COM17	-	22:COM9	22:COM9	30:COM17	-
	5916	-ve	13.567	69.157	0.460	5.195	0.082	69.303
			20:COM7	34:CVOL3	28:COM15	28:COM15	24:COM11	16:COM3
			-10.557	0.000	-1.545	-18.509	-0.690	0.000
			30:COM17	-	22:COM9	22:COM9	18:COM5	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
169	73	+ve	11.601	17.518	1.264	0.000	2.170	36.352
			16:COM3	20:COM7	16:COM3	-	16:COM3	20:COM7
			-4.022	-3.127	-1.220	-2.901	-2.077	-21.567
			26:COM1	30:COM1	26:COM1	34:CVOL	26:COM1	30:COM1
	605	-ve	11.601	10.350	1.264	0.000	2.245	0.000
			16:COM3	20:COM7	16:COM3	-	16:COM3	-
			-4.022	-7.283	-1.220	-2.901	-2.005	-12.134
			26:COM1	30:COM1	26:COM1	34:CVOL	26:COM1	18:COM5
170	79	+ve	15.460	5.799	2.175	1.574	0.718	5.229
			24:COM1	24:COM1	16:COM3	20:COM7	24:COM1	24:COM1
			-29.986	-6.540	-1.058	-0.467	-1.625	-4.657
			18:COM5	18:COM5	26:COM1	30:COM1	18:COM5	18:COM5
	125	-ve	15.460	4.275	2.175	1.574	2.649	10.481
			24:COM1	24:COM1	16:COM3	20:COM7	16:COM3	16:COM3
			-29.986	-8.572	-1.058	-0.467	-1.370	-4.979
			18:COM5	18:COM5	26:COM1	30:COM1	26:COM1	26:COM1
171	78	+ve	11.564	0.290	0.899	0.461	1.558	0.241
			24:COM1	28:COM1	24:COM1	20:COM7	16:COM3	28:COM1
			-32.352	-5.315	-1.277	-0.075	-1.135	-5.025
			18:COM5	22:COM9	18:COM5	30:COM1	26:COM1	22:COM9
	77	-ve	11.564	0.000	0.899	0.461	0.888	8.694
			24:COM1	-	24:COM1	20:COM7	24:COM1	20:COM7
			-32.352	-6.872	-1.277	-0.075	-1.316	0.000
			18:COM5	22:COM9	18:COM5	30:COM1	18:COM5	-
175	82	+ve	14.569	37.444	4.336	2.646	3.385	88.725
			28:COM1	34:CVOL	28:COM1	24:COM1	28:COM1	34:CVOL
			-15.869	0.000	-4.625	-7.434	-3.570	0.000
			22:COM9	-	22:COM9	18:COM5	22:COM9	-
	547	-ve	14.569	35.834	4.336	2.646	3.368	33.095
			28:COM1	34:CVOL	28:COM1	24:COM1	28:COM1	20:COM7
			-15.869	0.000	-4.625	-7.434	-4.001	0.000
			22:COM9	-	22:COM9	18:COM5	22:COM9	-
178	121	+ve	0.000	9.256	2.290	1.888	2.887	11.195
			-	24:COM1	28:COM1	20:COM7	16:COM3	24:COM1
			-24.145	-15.281	-2.758	-2.586	-2.318	-14.212
			18:COM5	18:COM5	22:COM9	30:COM1	26:COM1	18:COM5
	5717	-ve	0.000	7.671	2.290	1.888	2.466	19.089
			-	24:COM1	28:COM1	20:COM7	28:COM1	16:COM3
			-24.145	-17.395	-2.758	-2.586	-2.850	-6.069
			18:COM5	18:COM5	22:COM9	30:COM1	22:COM9	26:COM1
180	536	+ve	44.536	18.004	0.642	2.538	0.659	10.251
			16:COM3	20:COM7	20:COM7	16:COM3	20:COM7	28:COM1
			-16.047	0.000	-0.590	0.000	-0.585	-13.159
			26:COM1	-	30:COM1	-	30:COM1	22:COM9
	540	-ve	44.536	15.941	0.642	2.538	0.705	0.000
			16:COM3	20:COM7	20:COM7	16:COM3	20:COM7	-
			-16.047	0.000	-0.590	0.000	-0.529	-31.667
			26:COM1	-	30:COM1	-	30:COM1	35:CVOL

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
187	75	+ve	26.034	18.162	0.000	15.316	2.728	31.375
			16:COM3	20:COM7	-	20:COM7	20:COM7	20:COM7
			-23.611	-14.181	-2.764	-5.763	0.000	-27.438
			26:COM1	30:COM1	22:COM9	30:COM1	-	30:COM1
	433	-ve	26.034	16.457	0.000	15.316	0.000	1.789
			16:COM3	20:COM7	-	20:COM7	-	28:COM1
			-23.611	-15.459	-2.764	-5.763	-2.762	-2.760
			26:COM1	30:COM1	22:COM9	30:COM1	22:COM9	22:COM9
188	76	+ve	19.460	26.713	2.941	3.277	1.305	30.627
			24:COM1	20:COM7	16:COM3	20:COM7	24:COM1	24:COM1
			-23.253	-29.573	-1.494	-1.487	-2.602	-34.436
			18:COM5	30:COM1	26:COM1	30:COM1	18:COM5	18:COM5
	618	-ve	19.460	25.451	2.941	3.277	2.366	17.059
			24:COM1	28:COM1	16:COM3	20:COM7	16:COM3	20:COM7
			-23.253	-30.860	-1.494	-1.487	-1.227	-13.908
			18:COM5	22:COM9	26:COM1	30:COM1	26:COM1	30:COM1
189	107	+ve	12.718	195.737	2.689	4.195	3.200	143.941
			28:COM1	20:COM7	24:COM1	16:COM3	16:COM3	20:COM7
			-19.980	-130.671	-4.324	-3.742	-1.924	-94.682
			22:COM9	30:COM1	18:COM5	26:COM1	26:COM1	30:COM1
	76	-ve	12.718	191.475	2.689	4.195	1.977	95.848
			28:COM1	20:COM7	24:COM1	16:COM3	24:COM1	28:COM1
			-19.980	-133.000	-4.324	-3.742	-3.063	-135.850
			22:COM9	30:COM1	18:COM5	26:COM1	18:COM5	22:COM9
191	125	+ve	72.328	21.650	3.770	0.386	1.701	33.699
			16:COM3	16:COM3	16:COM3	24:COM1	24:COM1	16:COM3
			-59.897	-13.164	-2.051	-2.100	-3.133	-33.237
			26:COM1	26:COM1	26:COM1	18:COM5	18:COM5	26:COM1
	622	-ve	72.328	19.904	3.770	0.386	3.224	2.063
			16:COM3	16:COM3	16:COM3	24:COM1	16:COM3	24:COM1
			-59.897	-14.473	-2.051	-2.100	-1.766	-13.305
			26:COM1	26:COM1	26:COM1	18:COM5	26:COM1	18:COM5
193	141	+ve	42.790	18.542	0.138	1.246	0.725	40.265
			20:COM7	35:CVOL4	28:COM1	16:COM3	20:COM7	20:COM7
			-25.716	0.000	-0.161	-0.664	-0.623	-6.238
			30:COM1	-	22:COM9	26:COM1	30:COM1	30:COM1
	96	-ve	42.790	0.000	0.138	1.246	0.764	32.235
			20:COM7	-	28:COM1	16:COM3	28:COM1	20:COM7
			-25.716	-17.549	-0.161	-0.664	-0.893	-0.931
			30:COM1	22:COM9	22:COM9	26:COM1	22:COM9	30:COM1
194	142	+ve	19.880	18.792	0.098	1.083	0.294	38.436
			20:COM7	35:CVOL4	16:COM3	16:COM3	24:COM1	20:COM7
			-3.069	0.000	-0.073	-0.867	-0.412	-3.417
			30:COM1	-	26:COM1	26:COM1	18:COM5	30:COM1
	97	-ve	19.880	0.000	0.098	1.083	0.578	29.699
			20:COM7	-	16:COM3	16:COM3	16:COM3	20:COM7
			-3.069	-17.251	-0.073	-0.867	-0.437	-0.710
			30:COM1	34:CVOL3	26:COM1	26:COM1	26:COM1	30:COM1

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
195	143	+ve	17.568	18.764	0.097	1.036	0.327	38.002
			20:COM7	35:CVOL4	16:COM3	16:COM3	24:COM11	20:COM7
			0.000	0.000	-0.080	-0.971	-0.407	-3.205
			-	-	26:COM13	26:COM13	18:COM5	30:COM17
	98	-ve	17.568	0.000	0.097	1.036	0.566	29.775
			20:COM7	-	16:COM3	16:COM3	16:COM3	20:COM7
			0.000	-17.275	-0.080	-0.971	-0.481	-0.703
			-	34:CVOL3	26:COM13	26:COM13	26:COM13	30:COM17
196	144	+ve	14.469	18.784	0.097	1.025	0.376	38.390
			20:COM7	35:CVOL4	16:COM3	16:COM3	24:COM11	20:COM7
			0.000	0.000	-0.090	-0.978	-0.409	-3.487
			-	-	26:COM13	26:COM13	18:COM5	30:COM17
	99	-ve	14.469	0.000	0.097	1.025	0.568	30.022
			20:COM7	-	16:COM3	16:COM3	16:COM3	20:COM7
			0.000	-17.261	-0.090	-0.978	-0.527	-1.101
			-	34:CVOL3	26:COM13	26:COM13	26:COM13	30:COM17
197	145	+ve	19.140	18.633	0.111	0.901	0.459	40.656
			20:COM7	35:CVOL4	16:COM3	24:COM11	24:COM11	20:COM7
			-4.986	0.000	-0.106	-1.171	-0.476	-6.187
			30:COM17	-	26:COM13	18:COM5	18:COM5	30:COM17
	100	-ve	19.140	0.000	0.111	0.901	0.637	33.003
			20:COM7	-	16:COM3	24:COM11	16:COM3	20:COM7
			-4.986	-17.618	-0.106	-1.171	-0.604	-2.742
			30:COM17	22:COM9	26:COM13	18:COM5	26:COM13	30:COM17
208	352	+ve	14.283	19.860	0.074	0.000	4.220	61.033
			20:COM7	16:COM3	24:COM11	-	16:COM3	16:COM3
			-7.002	0.000	-2.976	-6.811	-1.111	-7.297
			30:COM17	-	18:COM5	34:CVOL3	26:COM13	26:COM13
	1060	-ve	14.283	18.174	0.074	0.000	0.000	24.048
			20:COM7	16:COM3	24:COM11	-	-	16:COM3
			-7.002	0.000	-2.976	-6.811	-2.066	-13.284
			30:COM17	-	18:COM5	34:CVOL3	22:COM9	26:COM13
209	353	+ve	7.944	19.187	0.000	0.000	4.154	59.826
			16:COM3	16:COM3	-	-	16:COM3	16:COM3
			-4.338	0.000	-3.093	-6.327	0.000	-7.885
			26:COM13	-	22:COM9	34:CVOL3	-	26:COM13
	1065	-ve	7.944	17.500	0.000	0.000	0.000	24.420
			16:COM3	16:COM3	-	-	-	16:COM3
			-4.338	0.000	-3.093	-6.327	-3.188	-12.983
			26:COM13	-	22:COM9	34:CVOL3	18:COM5	26:COM13
210	354	+ve	9.123	20.088	0.000	0.000	3.475	60.472
			16:COM3	16:COM3	-	-	16:COM3	16:COM3
			-4.130	0.000	-2.687	-6.705	-0.206	-6.394
			26:COM13	-	22:COM9	34:CVOL3	26:COM13	26:COM13
	1070	-ve	9.123	18.402	0.000	0.000	0.000	23.083
			16:COM3	16:COM3	-	-	-	16:COM3
			-4.130	0.000	-2.687	-6.705	-2.631	-13.861
			26:COM13	-	22:COM9	34:CVOL3	18:COM5	26:COM13

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
213	164	+ve	33.192	30.365	4.205	10.049	5.062	67.492
			16:COM3	16:COM3	24:COM11	28:COM15	16:COM3	16:COM3
			-32.552	-4.868	-5.831	-14.896	-3.465	-30.239
			26:COM13	26:COM13	18:COM5	22:COM9	26:COM13	26:COM13
	998	-ve	33.192	27.928	4.205	10.049	5.657	9.481
			16:COM3	16:COM3	24:COM11	28:COM15	24:COM11	24:COM11
			-32.552	-6.696	-5.831	-14.896	-7.584	-22.875
			26:COM13	26:COM13	18:COM5	22:COM9	18:COM5	18:COM5
214	166	+ve	38.156	41.536	6.438	0.000	7.492	102.729
			16:COM3	34:CVOL3	20:COM7	-	20:COM7	16:COM3
			-26.109	0.000	-5.674	-8.303	-8.146	0.000
			26:COM13	-	30:COM17	22:COM9	30:COM17	-
	873	-ve	38.156	39.344	6.438	0.000	4.469	32.104
			16:COM3	34:CVOL3	20:COM7	-	20:COM7	16:COM3
			-26.109	0.000	-5.674	-8.303	-3.634	-10.113
			26:COM13	-	30:COM17	22:COM9	30:COM17	26:COM13
215	168	+ve	22.982	51.901	2.776	0.172	2.160	122.756
			20:COM7	34:CVOL3	20:COM7	28:COM15	28:COM15	16:COM3
			-10.842	0.000	-1.973	-16.893	-2.933	0.000
			30:COM17	-	30:COM17	22:COM9	22:COM9	-
	853	-ve	22.982	49.709	2.776	0.172	2.481	31.223
			20:COM7	34:CVOL3	20:COM7	28:COM15	20:COM7	16:COM3
			-10.842	0.000	-1.973	-16.893	-1.690	-12.931
			30:COM17	-	30:COM17	22:COM9	30:COM17	26:COM13
216	170	+ve	14.059	57.300	3.725	0.000	2.594	128.152
			16:COM3	34:CVOL3	16:COM3	-	24:COM11	16:COM3
			-1.106	0.000	-2.628	-18.142	-3.885	0.000
			26:COM13	-	26:COM13	22:COM9	18:COM5	-
	878	-ve	14.059	55.108	3.725	0.000	3.380	23.985
			16:COM3	34:CVOL3	16:COM3	-	16:COM3	16:COM3
			-1.106	0.000	-2.628	-18.142	-2.534	-18.171
			26:COM13	-	26:COM13	22:COM9	26:COM13	26:COM13
217	172	+ve	11.359	44.973	3.624	3.901	2.301	114.936
			16:COM3	34:CVOL3	16:COM3	28:COM15	24:COM11	16:COM3
			-0.615	0.000	-2.205	-13.310	-3.791	0.000
			26:COM13	-	26:COM13	22:COM9	18:COM5	-
	883	-ve	11.359	42.781	3.624	3.901	3.280	31.271
			16:COM3	34:CVOL3	16:COM3	28:COM15	16:COM3	16:COM3
			-0.615	0.000	-2.205	-13.310	-2.002	-14.620
			26:COM13	-	26:COM13	22:COM9	26:COM13	26:COM13
220	164	+ve	7.664	24.254	0.225	0.538	0.624	37.189
			16:COM3	20:COM7	28:COM15	24:COM11	20:COM7	20:COM7
			-3.906	-16.445	-0.299	-0.522	-0.453	-34.083
			26:COM13	30:COM17	22:COM9	18:COM5	30:COM17	30:COM17
	5989	-ve	7.664	15.651	0.225	0.538	0.375	38.318
			16:COM3	28:COM15	28:COM15	24:COM11	28:COM15	20:COM7
			-3.906	-24.973	-0.299	-0.522	-0.475	-32.435
			26:COM13	22:COM9	22:COM9	18:COM5	22:COM9	30:COM17

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
222	166	+ve	36.174	35.504	8.077	9.713	7.304	32.247
			20:COM7	20:COM7	24:COM11	16:COM3	16:COM3	20:COM7
			-28.088	-9.376	-9.974	-3.634	-5.816	-9.565
			30:COM17	30:COM17	18:COM5	26:COM13	26:COM13	30:COM17
	346	-ve	36.174	30.274	8.077	9.713	7.108	7.615
			20:COM7	20:COM7	24:COM11	16:COM3	24:COM11	28:COM15
			-28.088	-12.099	-9.974	-3.634	-8.655	-20.376
			30:COM17	30:COM17	18:COM5	26:COM13	18:COM5	22:COM9
224	168	+ve	27.356	10.850	8.156	3.618	5.446	9.129
			20:COM7	34:CVOL3	16:COM3	24:COM11	24:COM11	20:COM7
			-19.930	0.000	-7.584	-4.547	-5.888	0.000
			30:COM17	-	26:COM13	18:COM5	18:COM5	-
	347	-ve	27.356	5.868	8.156	3.618	7.162	0.000
			20:COM7	20:COM7	16:COM3	24:COM11	16:COM3	-
			-19.930	0.000	-7.584	-4.547	-6.688	-4.234
			30:COM17	-	26:COM13	18:COM5	26:COM13	34:CVOL3
226	170	+ve	7.893	16.658	8.046	4.007	5.773	14.239
			28:COM15	34:CVOL3	16:COM3	16:COM3	24:COM11	34:CVOL3
			-34.055	0.000	-7.800	-3.631	-5.985	0.000
			22:COM9	-	26:COM13	26:COM13	18:COM5	-
	348	-ve	7.893	11.253	8.046	4.007	6.888	0.000
			28:COM15	20:COM7	16:COM3	16:COM3	16:COM3	-
			-34.055	0.000	-7.800	-3.631	-6.708	-8.372
			22:COM9	-	26:COM13	26:COM13	26:COM13	22:COM9
228	172	+ve	19.928	6.379	8.604	4.040	6.069	4.095
			20:COM7	34:CVOL3	16:COM3	16:COM3	24:COM11	20:COM7
			-24.097	0.000	-8.076	-4.001	-6.446	0.000
			30:COM17	-	26:COM13	26:COM13	18:COM5	-
	349	-ve	19.928	1.395	8.604	4.040	7.320	0.000
			20:COM7	24:COM11	16:COM3	16:COM3	16:COM3	-
			-24.097	0.000	-8.076	-4.001	-6.853	-2.454
			30:COM17	-	26:COM13	26:COM13	26:COM13	22:COM9
230	174	+ve	20.574	27.645	9.136	3.983	6.163	24.171
			28:COM15	20:COM7	16:COM3	24:COM11	24:COM11	20:COM7
			-28.344	-13.848	-8.104	-5.459	-6.717	-14.326
			22:COM9	30:COM17	26:COM13	18:COM5	18:COM5	30:COM17
	350	-ve	20.574	22.415	9.136	3.983	7.900	10.008
			28:COM15	20:COM7	16:COM3	24:COM11	16:COM3	28:COM15
			-28.344	-16.570	-8.104	-5.459	-6.803	-15.877
			22:COM9	30:COM17	26:COM13	18:COM5	26:COM13	22:COM9
241	197	+ve	27.347	3.845	4.068	10.011	5.297	3.537
			16:COM3	16:COM3	20:COM7	24:COM11	28:COM15	16:COM3
			-4.812	-3.115	-3.909	-20.203	-5.847	-2.806
			26:COM13	26:COM13	30:COM17	18:COM5	22:COM9	26:COM13
	936	-ve	27.347	2.705	4.068	10.011	2.353	4.852
			16:COM3	24:COM11	20:COM7	24:COM11	24:COM11	16:COM3
			-4.812	-4.387	-3.909	-20.203	-2.586	-3.173
			26:COM13	18:COM5	30:COM17	18:COM5	18:COM5	26:COM13

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
242	196	+ve	27.329	8.841	3.122	4.491	2.823	10.452
			24:COM1	20:COM7	20:COM7	28:COM1	28:COM1	20:COM7
			-34.789	-4.646	-2.489	-8.095	-3.674	-6.324
			18:COM5	30:COM1	30:COM1	22:COM9	22:COM9	30:COM1
	1021	-ve	27.329	7.528	3.122	4.491	2.259	3.432
			24:COM1	20:COM7	20:COM7	28:COM1	20:COM7	28:COM1
			-34.789	-5.631	-2.489	-8.095	-1.911	-5.087
			18:COM5	30:COM1	30:COM1	22:COM9	30:COM1	22:COM9
243	195	+ve	52.305	4.511	0.593	1.431	0.523	4.877
			20:COM7	24:COM1	16:COM3	28:COM1	24:COM1	24:COM1
			-48.367	-5.072	-0.555	-1.914	-0.528	-6.620
			30:COM1	18:COM5	26:COM1	22:COM9	18:COM5	18:COM5
	1036	-ve	52.305	3.563	0.593	1.431	0.558	3.828
			20:COM7	24:COM1	16:COM3	28:COM1	16:COM3	16:COM3
			-48.367	-6.335	-0.555	-1.914	-0.493	-2.527
			30:COM1	18:COM5	26:COM1	22:COM9	26:COM1	26:COM1
244	202	+ve	62.435	7.640	7.994	2.498	6.048	6.569
			20:COM7	16:COM3	20:COM7	16:COM3	20:COM7	24:COM1
			-54.260	-7.177	-7.415	-1.015	-6.072	-7.749
			30:COM1	26:COM1	30:COM1	26:COM1	30:COM1	18:COM5
	1050	-ve	62.435	7.015	7.994	2.498	3.140	1.139
			20:COM7	24:COM1	20:COM7	16:COM3	20:COM7	24:COM1
			-54.260	-7.937	-7.415	-1.015	-2.502	-2.056
			30:COM1	18:COM5	30:COM1	26:COM1	30:COM1	18:COM5
245	188	+ve	53.460	4.844	2.385	4.915	1.934	5.248
			28:COM1	28:COM1	16:COM3	28:COM1	24:COM1	28:COM1
			-59.662	-5.103	-1.693	-8.690	-2.927	-6.629
			22:COM9	22:COM9	26:COM1	22:COM9	18:COM5	22:COM9
	913	-ve	53.460	3.809	2.385	4.915	1.860	4.931
			28:COM1	28:COM1	16:COM3	28:COM1	16:COM3	20:COM7
			-59.662	-6.483	-1.693	-8.690	-1.473	-3.387
			22:COM9	22:COM9	26:COM1	22:COM9	26:COM1	30:COM1
246	189	+ve	12.135	6.640	2.199	4.506	1.837	8.021
			28:COM1	24:COM1	16:COM3	28:COM1	24:COM1	24:COM1
			-22.267	-6.247	-1.744	-9.410	-2.681	-8.372
			22:COM9	18:COM5	26:COM1	22:COM9	18:COM5	18:COM5
	919	-ve	12.135	5.615	2.199	4.506	1.666	5.316
			28:COM1	24:COM1	16:COM3	28:COM1	16:COM3	20:COM7
			-22.267	-7.614	-1.744	-9.410	-1.611	-4.082
			22:COM9	18:COM5	26:COM1	22:COM9	26:COM1	30:COM1
247	190	+ve	23.831	9.642	1.805	5.454	1.298	11.545
			28:COM1	28:COM1	16:COM3	28:COM1	24:COM1	28:COM1
			-36.514	-11.852	-1.308	-9.170	-2.009	-15.217
			22:COM9	22:COM9	26:COM1	22:COM9	18:COM5	22:COM9
	969	-ve	23.831	8.612	1.805	5.454	1.579	9.671
			28:COM1	28:COM1	16:COM3	28:COM1	16:COM3	20:COM7
			-36.514	-13.226	-1.308	-9.170	-1.304	-6.571
			22:COM9	22:COM9	26:COM1	22:COM9	26:COM1	30:COM1

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
248	191	+ve	32.217	8.340	2.878	10.193	3.542	7.656
			24:COM1	28:COM1	16:COM3	28:COM1	24:COM1	28:COM1
			-49.233	-12.896	-2.828	-14.400	-3.651	-11.315
			18:COM5	22:COM9	26:COM1	22:COM9	18:COM5	22:COM9
	1004	-ve	32.217	7.467	2.878	10.193	1.379	11.546
			24:COM1	28:COM1	16:COM3	28:COM1	28:COM1	20:COM7
			-49.233	-14.061	-2.828	-14.400	-1.403	-5.817
			18:COM5	22:COM9	26:COM1	22:COM9	22:COM9	30:COM1
252	227	+ve	73.367	97.576	8.348	6.476	3.840	80.339
			24:COM1	24:COM1	16:COM3	20:COM7	16:COM3	24:COM1
			-181.309	-216.861	-5.251	-6.118	-2.893	-176.626
			18:COM5	18:COM5	26:COM1	30:COM1	26:COM1	18:COM5
	692	-ve	73.367	96.365	8.348	6.476	10.211	19.526
			24:COM1	24:COM1	16:COM3	20:COM7	16:COM3	16:COM3
			-181.309	-219.016	-5.251	-6.118	-6.477	-6.942
			18:COM5	18:COM5	26:COM1	30:COM1	26:COM1	26:COM1
255	228	+ve	19.264	19.063	21.519	3.852	13.050	10.018
			24:COM1	20:COM7	28:COM1	28:COM1	20:COM7	20:COM7
			-30.368	0.000	-29.934	-4.576	-9.549	-2.081
			18:COM5	-	22:COM9	22:COM9	30:COM1	30:COM1
	699	-ve	19.264	16.380	21.519	3.852	9.817	0.000
			24:COM1	20:COM7	28:COM1	28:COM1	28:COM1	-
			-30.368	0.000	-29.934	-4.576	-13.888	-6.846
			18:COM5	-	22:COM9	22:COM9	22:COM9	18:COM5
257	151	+ve	14.371	15.981	0.976	0.440	2.803	29.236
			16:COM3	16:COM3	20:COM7	16:COM3	28:COM1	16:COM3
			-12.652	-1.311	-0.959	-0.327	-2.849	-11.324
			26:COM1	26:COM1	30:COM1	26:COM1	22:COM9	26:COM1
	150	-ve	14.371	2.980	0.976	0.440	2.817	25.795
			16:COM3	24:COM1	20:COM7	16:COM3	20:COM7	20:COM7
			-12.652	-14.230	-0.959	-0.327	-2.760	-17.803
			26:COM1	18:COM5	30:COM1	26:COM1	30:COM1	30:COM1
262	231	+ve	32.127	5.812	18.745	3.312	8.176	2.033
			28:COM1	28:COM1	24:COM1	16:COM3	16:COM3	28:COM1
			-32.507	-3.380	-19.258	-3.136	-7.987	-8.179
			22:COM9	22:COM9	18:COM5	26:COM1	26:COM1	22:COM9
	391	-ve	32.127	4.475	18.745	3.312	8.883	0.000
			28:COM1	28:COM1	24:COM1	16:COM3	24:COM1	-
			-32.507	-6.063	-19.258	-3.136	-9.155	-4.302
			22:COM9	22:COM9	18:COM5	26:COM1	18:COM5	22:COM9
264	232	+ve	29.113	8.000	18.279	2.669	6.465	5.181
			28:COM1	20:COM7	16:COM3	24:COM1	24:COM1	28:COM1
			-34.640	-3.470	-14.769	-3.930	-7.967	-8.788
			22:COM9	30:COM1	26:COM1	18:COM5	18:COM5	22:COM9
	392	-ve	29.113	6.497	18.279	2.669	8.484	0.000
			28:COM1	28:COM1	16:COM3	24:COM1	16:COM3	-
			-34.640	-5.987	-14.769	-3.930	-6.828	-5.162
			22:COM9	22:COM9	26:COM1	18:COM5	26:COM1	18:COM5

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
266	204	+ve	4.829	0.000	6.351	5.785	2.679	0.000
			24:COM1	-	20:COM7	20:COM7	28:COM1	-
			-66.845	-7.079	-5.040	-4.872	-3.700	-7.952
			18:COM5	22:COM9	30:COM1	30:COM1	22:COM9	22:COM9
	148	-ve	4.829	0.000	6.351	5.785	7.709	10.235
			24:COM1	-	20:COM7	20:COM7	20:COM7	20:COM7
			-66.845	-12.951	-5.040	-4.872	-6.375	0.000
			18:COM5	22:COM9	30:COM1	30:COM1	30:COM1	-
267	205	+ve	7.115	0.000	8.176	2.917	2.443	0.000
			28:COM1	-	16:COM3	24:COM1	24:COM1	-
			-87.146	-15.402	-3.978	-5.101	-5.791	-14.341
			22:COM9	22:COM9	26:COM1	18:COM5	18:COM5	34:CVOL
	155	-ve	7.115	0.000	8.176	2.917	8.899	19.303
			28:COM1	-	16:COM3	24:COM1	16:COM3	34:CVOL
			-87.146	-22.206	-3.978	-5.101	-4.707	0.000
			22:COM9	34:CVOL	26:COM1	18:COM5	26:COM1	-
268	206	+ve	22.811	5.803	6.667	5.319	9.481	3.382
			24:COM1	28:COM1	24:COM1	16:COM3	16:COM3	28:COM1
			-57.996	-18.846	-13.036	-3.851	-3.680	-15.865
			18:COM5	22:COM9	18:COM5	26:COM1	26:COM1	22:COM9
	157	-ve	22.811	2.747	6.667	5.319	8.353	23.262
			24:COM1	28:COM1	24:COM1	16:COM3	24:COM1	20:COM7
			-57.996	-24.718	-13.036	-3.851	-13.990	-4.300
			18:COM5	22:COM9	18:COM5	26:COM1	18:COM5	30:COM1
269	233	+ve	72.633	117.446	4.545	5.922	1.751	94.558
			28:COM1	28:COM1	16:COM3	16:COM3	28:COM1	28:COM1
			-121.678	-182.568	-3.828	-5.316	-2.348	-147.319
			22:COM9	22:COM9	26:COM1	26:COM1	22:COM9	22:COM9
	393	-ve	72.633	115.934	4.545	5.922	2.061	18.320
			28:COM1	28:COM1	16:COM3	16:COM3	16:COM3	20:COM7
			-121.678	-185.484	-3.828	-5.316	-2.013	-10.479
			22:COM9	22:COM9	26:COM1	26:COM1	26:COM1	30:COM1
270	207	+ve	32.449	40.225	5.507	5.918	1.862	26.759
			28:COM1	20:COM7	16:COM3	16:COM3	24:COM1	20:COM7
			-54.084	-31.742	-5.187	-4.011	-2.727	-23.417
			22:COM9	30:COM1	26:COM1	26:COM1	18:COM5	30:COM1
	158	-ve	32.449	34.630	5.507	5.918	7.294	36.661
			28:COM1	28:COM1	16:COM3	16:COM3	24:COM1	28:COM1
			-54.084	-35.890	-5.187	-4.011	-7.585	-39.805
			22:COM9	22:COM9	26:COM1	26:COM1	18:COM5	22:COM9
271	204	+ve	51.313	40.196	9.200	8.199	11.792	85.741
			16:COM3	16:COM3	20:COM7	16:COM3	28:COM1	16:COM3
			-33.533	0.000	-9.483	-1.542	-11.897	-13.067
			26:COM1	-	30:COM1	26:COM1	22:COM9	26:COM1
	1015	-ve	51.313	38.087	9.200	8.199	5.416	15.937
			16:COM3	16:COM3	20:COM7	16:COM3	28:COM1	28:COM1
			-33.533	0.000	-9.483	-1.542	-6.053	-23.901
			26:COM1	-	30:COM1	26:COM1	22:COM9	22:COM9

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
272	208	+ve	5.621	0.000	6.458	3.920	2.803	0.000
			28:COM15	-	16:COM3	16:COM3	24:COM11	-
			-71.044	-26.646	-5.103	-3.721	-3.696	-26.555
			22:COM9	22:COM9	26:COM13	26:COM13	18:COM5	22:COM9
	153	-ve	5.621	0.000	6.458	3.920	8.186	25.604
			28:COM15	-	16:COM3	16:COM3	16:COM3	20:COM7
			-71.044	-30.075	-5.103	-3.721	-6.586	0.000
			22:COM9	22:COM9	26:COM13	26:COM13	26:COM13	-
273	150	+ve	50.686	47.497	3.489	13.878	4.157	91.500
			20:COM7	34:CVOL3	28:COM15	20:COM7	20:COM7	16:COM3
			-45.593	0.000	-3.891	-1.412	-3.796	0.000
			30:COM17	-	22:COM9	30:COM17	30:COM17	-
	1028	-ve	50.686	45.375	3.489	13.878	2.800	11.630
			20:COM7	34:CVOL3	28:COM15	20:COM7	28:COM15	24:COM11
			-45.593	0.000	-3.891	-1.412	-3.199	-24.916
			30:COM17	-	22:COM9	30:COM17	22:COM9	18:COM5
274	152	+ve	68.502	18.693	1.798	1.304	2.037	35.448
			20:COM7	20:COM7	20:COM7	28:COM15	28:COM15	20:COM7
			-61.398	-0.807	-1.574	-1.912	-2.249	-8.741
			30:COM17	30:COM17	30:COM17	22:COM9	22:COM9	30:COM17
	1049	-ve	68.502	13.570	1.798	1.304	2.070	0.000
			20:COM7	20:COM7	20:COM7	28:COM15	20:COM7	-
			-61.398	-3.569	-1.574	-1.912	-1.747	-6.309
			30:COM17	30:COM17	30:COM17	22:COM9	30:COM17	18:COM5
276	227	+ve	28.200	22.239	12.281	9.114	12.810	36.479
			20:COM7	28:COM15	20:COM7	20:COM7	28:COM15	28:COM15
			-12.792	-40.317	-9.709	-3.246	-14.732	-64.798
			30:COM17	22:COM9	30:COM17	30:COM17	22:COM9	22:COM9
	1078	-ve	28.200	20.952	12.281	9.114	9.634	21.345
			20:COM7	28:COM15	20:COM7	20:COM7	20:COM7	16:COM3
			-12.792	-42.032	-9.709	-3.246	-6.455	-10.837
			30:COM17	22:COM9	30:COM17	30:COM17	30:COM17	26:COM13
277	228	+ve	43.418	29.080	12.941	17.293	11.064	57.116
			16:COM3	20:COM7	20:COM7	20:COM7	28:COM15	20:COM7
			-33.915	-19.436	-10.447	-5.212	-13.598	-46.352
			26:COM13	30:COM17	30:COM17	30:COM17	22:COM9	30:COM17
	1081	-ve	43.418	27.448	12.941	17.293	10.815	8.935
			16:COM3	20:COM7	20:COM7	20:COM7	20:COM7	28:COM15
			-33.915	-20.660	-10.447	-5.212	-8.642	-13.669
			26:COM13	30:COM17	30:COM17	30:COM17	30:COM17	22:COM9
278	151	+ve	46.521	24.843	2.361	14.742	1.828	50.709
			20:COM7	20:COM7	20:COM7	20:COM7	28:COM15	20:COM7
			-45.114	-0.967	-2.079	-3.047	-2.043	-9.367
			30:COM17	30:COM17	30:COM17	30:COM17	22:COM9	30:COM17
	1032	-ve	46.521	23.273	2.361	14.742	2.243	8.288
			20:COM7	20:COM7	20:COM7	20:COM7	20:COM7	16:COM3
			-45.114	-2.145	-2.079	-3.047	-1.947	-7.793
			30:COM17	30:COM17	30:COM17	30:COM17	30:COM17	26:COM13

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
279	152	+ve	66.236	14.789	3.506	9.353	4.108	31.316
			20:COM7	16:COM3	28:COM15	20:COM7	20:COM7	16:COM3
			-59.526	-6.014	-3.667	-3.766	-3.847	-14.088
			30:COM17	26:COM13	22:COM9	30:COM17	30:COM17	26:COM13
	1083	-ve	66.236	13.253	3.506	9.353	2.379	17.241
			20:COM7	16:COM3	28:COM15	20:COM7	28:COM15	20:COM7
			-59.526	-7.166	-3.667	-3.766	-2.405	-13.209
			30:COM17	26:COM13	22:COM9	30:COM17	22:COM9	30:COM17
280	230	+ve	53.430	27.934	11.629	23.253	7.323	59.814
			20:COM7	20:COM7	16:COM3	20:COM7	24:COM11	20:COM7
			-50.171	-16.063	-6.665	-2.697	-12.792	-29.732
			30:COM17	30:COM17	26:COM13	30:COM17	18:COM5	30:COM17
	1089	-ve	53.430	26.237	11.629	23.253	10.036	15.078
			20:COM7	20:COM7	16:COM3	20:COM7	16:COM3	16:COM3
			-50.171	-17.336	-6.665	-2.697	-5.763	-5.378
			30:COM17	30:COM17	26:COM13	30:COM17	26:COM13	26:COM13
281	208	+ve	37.058	56.858	9.428	7.642	10.987	145.728
			20:COM7	34:CVOL3	16:COM3	20:COM7	24:COM11	34:CVOL3
			-21.003	0.000	-8.826	0.000	-11.520	0.000
			30:COM17	-	26:COM13	-	18:COM5	-
	823	-ve	37.058	54.646	9.428	7.642	7.040	44.863
			20:COM7	34:CVOL3	16:COM3	20:COM7	16:COM3	16:COM3
			-21.003	0.000	-8.826	0.000	-6.388	0.000
			30:COM17	-	26:COM13	-	26:COM13	-
282	205	+ve	40.647	42.739	5.999	1.408	7.697	107.773
			20:COM7	34:CVOL3	16:COM3	28:COM15	24:COM11	16:COM3
			-20.554	0.000	-4.764	-9.345	-9.739	0.000
			30:COM17	-	26:COM13	22:COM9	18:COM5	-
	835	-ve	40.647	40.521	5.999	1.408	2.546	33.085
			20:COM7	34:CVOL3	16:COM3	28:COM15	20:COM7	16:COM3
			-20.554	0.000	-4.764	-9.345	-2.153	-10.239
			30:COM17	-	26:COM13	22:COM9	30:COM17	26:COM13
283	231	+ve	24.214	24.941	10.358	22.556	7.463	52.506
			20:COM7	20:COM7	16:COM3	20:COM7	24:COM11	16:COM3
			-21.157	-16.694	-6.634	-2.515	-11.620	-32.278
			30:COM17	30:COM17	26:COM13	30:COM17	18:COM5	26:COM13
	1095	-ve	24.214	23.234	10.358	22.556	8.817	13.489
			20:COM7	20:COM7	16:COM3	20:COM7	16:COM3	16:COM3
			-21.157	-17.974	-6.634	-2.515	-5.625	-6.587
			30:COM17	30:COM17	26:COM13	30:COM17	26:COM13	26:COM13
284	206	+ve	113.479	37.595	8.513	2.617	15.730	79.124
			24:COM17	16:COM3	28:COM15	28:COM15	20:COM7	16:COM3
			-123.663	-20.379	-13.189	-4.011	-9.713	-67.225
			18:COM5	26:COM13	22:COM9	22:COM9	30:COM17	26:COM13
	989	-ve	113.479	35.374	8.513	2.617	7.111	12.952
			24:COM17	16:COM3	28:COM15	28:COM15	28:COM15	24:COM17
			-123.663	-22.044	-13.189	-4.011	-10.328	-31.215
			18:COM5	26:COM13	22:COM9	22:COM9	22:COM9	18:COM5

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
285	162	+ve	0.000	12.262	15.642	2.995	2.980	8.247
			-	16:COM3	16:COM3	16:COM3	24:COM11	16:COM3
			-36.200	-6.487	-6.824	-2.222	-6.965	-4.687
			22:COM9	26:COM13	26:COM13	26:COM13	18:COM5	26:COM13
	991	-ve	0.000	11.486	15.642	2.995	3.838	0.565
			-	16:COM3	16:COM3	16:COM3	16:COM3	28:COM15
			-36.200	-7.068	-6.824	-2.222	-1.742	-0.519
			22:COM9	26:COM13	26:COM13	26:COM13	26:COM13	22:COM9
287	148	+ve	16.374	14.635	0.977	6.048	1.904	35.512
			20:COM7	24:COM11	20:COM7	20:COM7	28:COM15	24:COM11
			-13.857	-24.737	-0.812	-4.992	-2.305	-66.144
			30:COM17	18:COM5	30:COM17	30:COM17	22:COM9	18:COM5
	209	-ve	16.374	7.266	0.977	6.048	1.925	71.638
			20:COM7	24:COM11	20:COM7	20:COM7	20:COM7	16:COM3
			-13.857	-38.892	-0.812	-4.992	-1.614	-11.923
			30:COM17	18:COM5	30:COM17	30:COM17	30:COM17	26:COM13
288	209	+ve	12.457	6.056	0.130	2.674	0.490	12.292
			20:COM7	28:COM15	16:COM3	16:COM3	24:COM11	28:COM15
			-10.260	-2.196	-0.121	-2.184	-0.539	-17.884
			30:COM17	22:COM9	26:COM13	26:COM13	18:COM5	22:COM9
	168	-ve	12.457	0.623	0.130	2.674	0.546	30.981
			20:COM7	28:COM15	16:COM3	16:COM3	16:COM3	20:COM7
			-10.260	-9.439	-0.121	-2.184	-0.522	-15.819
			30:COM17	22:COM9	26:COM13	26:COM13	26:COM13	30:COM17
289	209	+ve	22.324	74.585	2.579	4.784	1.797	150.905
			20:COM7	34:CVOL3	24:COM11	28:COM15	16:COM3	34:CVOL3
			-11.379	0.000	-3.075	-8.354	-1.525	0.000
			30:COM17	-	18:COM5	22:COM9	26:COM13	-
	6007	-ve	22.324	73.273	2.579	4.784	1.285	70.843
			20:COM7	34:CVOL3	24:COM11	28:COM15	24:COM11	34:CVOL3
			-11.379	0.000	-3.075	-8.354	-1.549	0.000
			30:COM17	-	18:COM5	22:COM9	18:COM5	-
290	210	+ve	18.322	107.823	2.302	0.549	1.333	210.482
			20:COM7	34:CVOL3	16:COM3	28:COM15	28:COM15	34:CVOL3
			-3.576	0.000	-1.438	-24.932	-2.027	0.000
			30:COM17	-	26:COM13	22:COM9	22:COM9	-
	6008	-ve	18.322	106.379	2.302	0.549	1.329	82.729
			20:COM7	34:CVOL3	16:COM3	28:COM15	16:COM3	34:CVOL3
			-3.576	0.000	-1.438	-24.932	-0.993	0.000
			30:COM17	-	26:COM13	22:COM9	26:COM13	-
291	153	+ve	31.068	49.857	5.015	0.239	4.150	93.855
			16:COM3	35:CVOL4	16:COM3	24:COM17	24:COM11	20:COM7
			-17.203	0.000	-3.577	-18.660	-5.438	0.000
			26:COM13	-	26:COM13	18:COM5	18:COM5	-
	1040	-ve	31.068	48.183	5.015	0.239	4.322	4.878
			16:COM3	35:CVOL4	16:COM3	24:COM17	16:COM3	24:COM17
			-17.203	0.000	-3.577	-18.660	-2.828	-15.720
			26:COM13	-	26:COM13	18:COM5	26:COM13	18:COM5

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
292	210	+ve	15.805	10.629	0.251	3.562	0.857	30.146
			24:COM1	20:COM7	16:COM3	16:COM3	24:COM1	20:COM7
			-20.077	-1.588	-0.231	-1.526	-0.927	-6.678
			18:COM5	30:COM1	26:COM1	26:COM1	18:COM5	30:COM1
	170	-ve	15.805	4.109	0.251	3.562	0.967	23.731
			24:COM1	20:COM7	16:COM3	16:COM3	16:COM3	28:COM1
			-20.077	-6.478	-0.231	-1.526	-0.886	-25.412
			18:COM5	30:COM1	26:COM1	26:COM1	26:COM1	22:COM9
293	155	+ve	39.105	37.550	1.086	10.804	2.816	60.042
			16:COM3	20:COM7	28:COM1	16:COM3	24:COM1	20:COM7
			-27.962	-4.182	-2.223	-8.578	-2.563	-35.371
			26:COM1	30:COM1	22:COM9	26:COM1	18:COM5	30:COM1
	6130	-ve	39.105	34.608	1.086	10.804	1.627	27.596
			16:COM3	20:COM7	28:COM1	16:COM3	24:COM1	20:COM7
			-27.962	-5.714	-2.223	-8.578	-2.397	-30.943
			26:COM1	30:COM1	22:COM9	26:COM1	18:COM5	30:COM1
294	211	+ve	26.214	10.772	0.310	2.219	0.976	25.970
			16:COM3	20:COM7	16:COM3	24:COM1	24:COM1	20:COM7
			-27.609	-2.996	-0.309	-4.242	-0.973	-8.223
			26:COM1	30:COM1	26:COM1	18:COM5	18:COM5	30:COM1
	172	-ve	26.214	5.170	0.310	2.219	1.113	26.529
			16:COM3	28:COM1	16:COM3	24:COM1	16:COM3	28:COM1
			-27.609	-7.560	-0.309	-4.242	-1.100	-26.870
			26:COM1	22:COM9	26:COM1	18:COM5	26:COM1	22:COM9
295	211	+ve	28.413	64.454	2.835	8.643	1.378	140.634
			16:COM3	34:CVOL3	20:COM7	20:COM7	28:COM1	16:COM3
			-20.961	0.000	-2.388	-6.615	-1.663	0.000
			26:COM1	-	30:COM1	30:COM1	22:COM9	-
	6014	-ve	28.413	63.146	2.835	8.643	1.478	78.307
			16:COM3	34:CVOL3	20:COM7	20:COM7	20:COM7	16:COM3
			-20.961	0.000	-2.388	-6.615	-1.279	0.000
			26:COM1	-	30:COM1	30:COM1	30:COM1	-
296	157	+ve	34.178	21.541	1.551	2.100	4.711	48.859
			20:COM7	20:COM7	24:COM1	24:COM1	16:COM3	20:COM7
			-10.775	-8.665	-2.546	-3.853	-2.761	-38.557
			30:COM1	30:COM1	18:COM5	18:COM5	26:COM1	30:COM1
	992	-ve	34.178	14.308	1.551	2.100	2.499	0.000
			20:COM7	20:COM7	24:COM1	24:COM1	24:COM1	-
			-10.775	-12.564	-2.546	-3.853	-3.920	-12.907
			30:COM1	30:COM1	18:COM5	18:COM5	18:COM5	18:COM5
297	163	+ve	14.287	28.518	9.587	2.039	6.763	26.516
			24:COM1	16:COM3	16:COM3	28:COM1	24:COM1	16:COM3
			-34.889	-23.312	-8.896	-2.532	-7.404	-18.314
			18:COM5	26:COM1	26:COM1	22:COM9	18:COM5	26:COM1
	207	-ve	14.287	26.317	9.587	2.039	11.370	29.687
			24:COM1	16:COM3	16:COM3	28:COM1	16:COM3	16:COM3
			-34.889	-24.963	-8.896	-2.532	-10.657	-27.906
			18:COM5	26:COM1	26:COM1	22:COM9	26:COM1	26:COM1

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
298	162	+ve	13.222	2.997	0.122	0.869	0.494	2.741
			24:COM1	28:COM1	28:COM1	24:COM1	20:COM7	28:COM1
			-32.651	-7.767	-0.373	-1.226	-0.175	-7.281
			18:COM5	22:COM9	22:COM9	18:COM5	30:COM1	22:COM9
	161	-ve	13.222	1.829	0.122	0.869	0.127	11.957
			24:COM1	28:COM1	28:COM1	24:COM1	28:COM1	20:COM7
			-32.651	-9.325	-0.373	-1.226	-0.372	-2.697
			18:COM5	22:COM9	22:COM9	18:COM5	22:COM9	30:COM1
302	166	+ve	65.557	45.615	9.001	7.284	7.369	106.206
			20:COM7	34:CVOL3	20:COM7	24:COM1	28:COM1	20:COM7
			-57.994	0.000	-6.967	-16.449	-8.932	0.000
			30:COM1	-	30:COM1	18:COM5	22:COM9	-
	942	-ve	65.557	43.871	9.001	7.284	5.113	41.525
			20:COM7	34:CVOL3	20:COM7	24:COM1	20:COM7	20:COM7
			-57.994	0.000	-6.967	-16.449	-3.521	0.000
			30:COM1	-	30:COM1	18:COM5	30:COM1	-
303	203	+ve	35.343	8.960	10.003	2.256	17.385	14.870
			24:COM1	24:COM11	28:COM1	20:COM7	20:COM7	16:COM3
			-75.284	-14.336	-12.566	0.000	-13.833	-13.330
			18:COM5	18:COM5	22:COM9	-	30:COM1	26:COM1
	5718	-ve	35.343	7.243	10.003	2.256	6.546	19.834
			24:COM1	24:COM11	28:COM1	20:COM7	28:COM1	16:COM3
			-75.284	-16.626	-12.566	0.000	-8.214	-3.265
			18:COM5	18:COM5	22:COM9	-	22:COM9	26:COM1
304	212	+ve	0.000	8.793	0.321	3.978	1.276	9.622
			-	28:COM1	24:COM11	20:COM7	16:COM3	28:COM1
			-33.309	-10.328	-0.778	-1.295	-0.627	-9.683
			22:COM9	22:COM9	18:COM5	30:COM1	26:COM1	22:COM9
	933	-ve	0.000	7.056	0.321	3.978	0.046	13.982
			-	28:COM1	24:COM11	20:COM7	24:COM11	20:COM7
			-33.309	-12.644	-0.778	-1.295	-0.339	-6.707
			22:COM9	22:COM9	18:COM5	30:COM1	18:COM5	30:COM1
305	932	+ve	74.689	26.093	0.121	1.431	1.029	24.678
			16:COM3	20:COM7	28:COM1	16:COM3	20:COM7	28:COM1
			-58.445	-6.283	-0.983	-0.719	-0.042	-29.416
			26:COM1	30:COM1	22:COM9	26:COM1	30:COM1	22:COM9
	935	-ve	74.689	23.858	0.121	1.431	0.251	0.000
			16:COM3	20:COM7	28:COM1	16:COM3	28:COM1	-
			-58.445	-7.959	-0.983	-0.719	-0.976	-32.757
			26:COM1	30:COM1	22:COM9	26:COM1	22:COM9	35:CVOL4
311	232	+ve	23.759	23.725	10.377	18.271	7.898	40.889
			28:COM1	20:COM7	16:COM3	20:COM7	24:COM11	20:COM7
			-28.287	-23.015	-7.244	-7.914	-11.017	-43.985
			22:COM9	30:COM1	26:COM1	30:COM1	18:COM5	30:COM1
	1101	-ve	23.759	22.020	10.377	18.271	9.439	8.054
			28:COM1	20:COM7	16:COM3	20:COM7	16:COM3	24:COM1
			-28.287	-24.294	-7.244	-7.914	-6.383	-9.609
			22:COM9	30:COM1	26:COM1	30:COM1	26:COM1	18:COM5

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
312	233	+ve	36.467	52.093	16.584	10.428	14.374	65.165
			24:COM1	24:COM1	16:COM3	20:COM7	24:COM1	24:COM1
			-44.587	-62.334	-15.560	-4.469	-15.413	-73.838
			18:COM5	18:COM5	26:COM1	30:COM1	18:COM5	18:COM5
	1103	-ve	36.467	51.001	16.584	10.428	12.512	38.367
			24:COM1	24:COM1	16:COM3	20:COM7	16:COM3	20:COM7
			-44.587	-63.790	-15.560	-4.469	-11.827	-27.652
			18:COM5	18:COM5	26:COM1	30:COM1	26:COM1	30:COM1
315	207	+ve	73.197	42.422	5.523	0.000	6.839	68.917
			16:COM3	16:COM3	24:COM1	-	16:COM3	16:COM3
			-48.451	-33.043	-6.140	-2.686	-5.670	-65.149
			26:COM1	26:COM1	18:COM5	18:COM5	26:COM1	26:COM1
	1006	-ve	73.197	40.531	5.523	0.000	3.684	2.765
			16:COM3	16:COM3	24:COM1	-	16:COM3	24:COM1
			-48.451	-34.461	-6.140	-2.686	-3.554	-11.990
			26:COM1	26:COM1	18:COM5	18:COM5	26:COM1	18:COM5
326	197	+ve	136.271	587.744	30.856	29.085	19.114	202.196
			16:COM3	16:COM3	20:COM7	16:COM3	24:COM1	16:COM3
			-70.407	-275.669	-26.316	-23.271	-23.843	-97.436
			26:COM1	26:COM1	30:COM1	26:COM1	18:COM5	26:COM1
	227	-ve	136.271	585.109	30.856	29.085	13.287	206.832
			16:COM3	16:COM3	20:COM7	16:COM3	28:COM1	24:COM1
			-70.407	-277.150	-26.316	-23.271	-13.019	-443.319
			26:COM1	26:COM1	30:COM1	26:COM1	22:COM9	18:COM5
327	196	+ve	58.276	94.300	4.561	7.882	8.052	89.074
			20:COM7	20:COM7	28:COM1	20:COM7	20:COM7	20:COM7
			-29.018	-44.888	-5.567	-7.421	-6.930	-45.002
			30:COM1	30:COM1	22:COM9	30:COM1	30:COM1	30:COM1
	228	-ve	58.276	86.546	4.561	7.882	4.939	76.795
			20:COM7	20:COM7	28:COM1	20:COM7	28:COM1	28:COM1
			-29.018	-48.753	-5.567	-7.421	-6.434	-146.148
			30:COM1	30:COM1	22:COM9	30:COM1	22:COM9	22:COM9
328	195	+ve	24.471	33.351	5.228	5.545	7.725	38.487
			20:COM7	20:COM7	28:COM1	28:COM1	20:COM7	20:COM7
			-20.655	-14.499	-5.216	-5.525	-7.699	-20.661
			30:COM1	30:COM1	22:COM9	22:COM9	30:COM1	30:COM1
	151	-ve	24.471	24.553	5.228	5.545	7.733	28.603
			20:COM7	20:COM7	28:COM1	28:COM1	20:COM7	28:COM1
			-20.655	-18.884	-5.216	-5.525	-7.668	-46.962
			30:COM1	30:COM1	22:COM9	22:COM9	30:COM1	22:COM9
329	188	+ve	61.526	101.913	4.647	8.471	5.583	98.154
			20:COM7	20:COM7	16:COM3	16:COM3	24:COM1	20:COM7
			-29.910	-46.816	-3.780	-7.841	-6.484	-45.707
			30:COM1	30:COM1	26:COM1	26:COM1	18:COM5	30:COM1
	230	-ve	61.526	94.181	4.647	8.471	5.646	80.730
			20:COM7	20:COM7	16:COM3	16:COM3	20:COM7	28:COM1
			-29.910	-50.670	-3.780	-7.841	-4.299	-156.176
			30:COM1	30:COM1	26:COM1	26:COM1	30:COM1	22:COM9

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
330	189	+ve	45.161	106.411	4.119	8.925	6.362	102.160
			20:COM7	20:COM7	24:COM11	16:COM3	16:COM3	20:COM7
			-7.844	-41.934	-4.228	-8.599	-6.270	-41.244
			30:COM17	30:COM17	18:COM5	26:COM13	26:COM13	30:COM17
	231	-ve	45.161	98.679	4.119	8.925	4.415	72.528
			20:COM7	20:COM7	24:COM11	16:COM3	24:COM11	28:COM15
			-7.844	-45.787	-4.228	-8.599	-4.605	-163.837
			30:COM17	30:COM17	18:COM5	26:COM13	18:COM5	22:COM9
331	190	+ve	49.614	109.640	3.856	8.272	5.590	106.812
			20:COM7	20:COM7	16:COM3	16:COM3	24:COM11	20:COM7
			-21.753	-57.186	-3.528	-8.123	-6.129	-57.761
			30:COM17	30:COM17	26:COM13	26:COM13	18:COM5	30:COM17
	232	-ve	49.614	101.908	3.856	8.272	3.873	95.573
			20:COM7	20:COM7	16:COM3	16:COM3	16:COM3	28:COM15
			-21.753	-61.040	-3.528	-8.123	-3.561	-167.556
			30:COM17	30:COM17	26:COM13	26:COM13	26:COM13	22:COM9
332	191	+ve	80.822	484.962	27.146	17.622	18.774	163.515
			20:COM7	20:COM7	16:COM3	16:COM3	24:COM11	20:COM7
			-55.257	-323.020	-26.272	-17.419	-19.109	-109.335
			30:COM17	30:COM17	26:COM13	26:COM13	18:COM5	30:COM17
	233	-ve	80.822	481.413	27.146	17.622	10.619	245.415
			20:COM7	20:COM7	16:COM3	16:COM3	16:COM3	28:COM15
			-55.257	-324.860	-26.272	-17.419	-9.996	-365.623
			30:COM17	30:COM17	26:COM13	26:COM13	26:COM13	22:COM9
344	300	+ve	73.418	68.267	5.654	0.000	10.419	210.972
			16:COM3	16:COM3	28:COM15	-	16:COM3	16:COM3
			-39.448	0.000	-6.746	-8.640	-6.693	-80.822
			26:COM13	-	22:COM9	22:COM9	26:COM13	26:COM13
	1418	-ve	73.418	64.050	5.654	0.000	5.690	82.073
			16:COM3	16:COM3	28:COM15	-	20:COM7	24:COM17
			-39.448	0.000	-6.746	-8.640	-4.094	-85.155
			26:COM13	-	22:COM9	22:COM9	30:COM17	18:COM5
345	301	+ve	66.958	65.057	6.762	0.000	8.139	193.585
			16:COM3	16:COM3	16:COM3	-	24:COM11	16:COM3
			-27.686	0.000	-5.189	-7.949	-8.414	-38.793
			26:COM13	-	26:COM13	22:COM9	18:COM5	26:COM13
	1423	-ve	66.958	60.841	6.762	0.000	4.780	70.847
			16:COM3	16:COM3	16:COM3	-	16:COM3	16:COM3
			-27.686	0.000	-5.189	-7.949	-1.988	-55.107
			26:COM13	-	26:COM13	22:COM9	26:COM13	26:COM13
346	302	+ve	71.852	65.118	6.142	0.000	7.553	192.998
			16:COM3	16:COM3	16:COM3	-	24:COM11	16:COM3
			-29.511	0.000	-4.771	-8.460	-7.553	-43.166
			26:COM13	-	26:COM13	22:COM9	18:COM5	26:COM13
	1428	-ve	71.852	60.902	6.142	0.000	4.432	70.130
			16:COM3	16:COM3	16:COM3	-	16:COM3	16:COM3
			-29.511	0.000	-4.771	-8.460	-1.758	-58.330
			26:COM13	-	26:COM13	22:COM9	26:COM13	26:COM13

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
347	303	+ve	66.675	67.896	7.785	0.000	8.668	202.094
			16:COM3	16:COM3	16:COM3	-	24:COM11	16:COM3
			-32.363	0.000	-5.508	-8.426	-8.810	-42.960
			26:COM13	-	26:COM13	18:COM5	18:COM5	26:COM13
	1433	-ve	66.675	63.679	7.785	0.000	6.378	73.865
			16:COM3	16:COM3	16:COM3	-	16:COM3	16:COM3
			-32.363	0.000	-5.508	-8.426	-2.082	-60.665
			26:COM13	-	26:COM13	18:COM5	26:COM13	26:COM13
348	258	+ve	214.871	161.375	5.583	6.901	4.684	557.826
			16:COM3	16:COM3	16:COM3	16:COM3	24:COM11	16:COM3
			-69.220	-35.264	-2.113	-2.857	-6.874	-180.556
			26:COM13	26:COM13	26:COM13	26:COM13	18:COM5	26:COM13
	1280	-ve	214.871	154.500	5.583	6.901	5.346	215.727
			16:COM3	16:COM3	16:COM3	16:COM3	20:COM7	16:COM3
			-69.220	-40.420	-2.113	-2.857	-0.013	-98.787
			26:COM13	26:COM13	26:COM13	26:COM13	30:COM17	26:COM13
349	260	+ve	134.576	86.842	18.771	5.012	4.325	202.487
			20:COM7	16:COM3	20:COM7	28:COM15	28:COM15	16:COM3
			-117.272	0.000	-6.286	-16.951	-17.763	-124.006
			30:COM17	-	30:COM17	22:COM9	22:COM9	26:COM13
	1198	-ve	134.576	80.657	18.771	5.012	18.949	58.675
			20:COM7	16:COM3	20:COM7	28:COM15	20:COM7	24:COM11
			-117.272	-1.070	-6.286	-16.951	-8.040	-145.940
			30:COM17	26:COM13	30:COM17	22:COM9	30:COM17	18:COM5
350	262	+ve	111.231	87.225	3.313	8.930	6.637	267.213
			16:COM3	16:COM3	24:COM11	20:COM7	24:COM11	16:COM3
			-45.116	0.000	-5.009	-2.067	-7.524	-47.328
			26:COM13	-	18:COM5	30:COM17	18:COM5	26:COM13
	1193	-ve	111.231	81.040	3.313	8.930	0.000	103.205
			16:COM3	16:COM3	24:COM11	20:COM7	-	16:COM3
			-45.116	0.000	-5.009	-2.067	-4.075	-59.694
			26:COM13	-	18:COM5	30:COM17	22:COM9	26:COM13
352	266	+ve	96.997	93.404	3.645	15.570	11.842	287.617
			20:COM7	16:COM3	28:COM15	20:COM7	20:COM7	16:COM3
			-34.476	0.000	-10.332	-0.459	-6.862	-82.232
			30:COM17	-	22:COM9	30:COM17	30:COM17	26:COM13
	1208	-ve	96.997	87.220	3.645	15.570	0.377	111.520
			20:COM7	16:COM3	28:COM15	20:COM7	28:COM15	16:COM3
			-34.476	-0.200	-10.332	-0.459	-8.439	-86.376
			30:COM17	26:COM13	22:COM9	30:COM17	22:COM9	26:COM13
355	258	+ve	93.133	97.876	7.513	14.214	12.427	200.947
			20:COM7	28:COM15	16:COM3	24:COM11	24:COM11	20:COM7
			0.000	-135.877	-6.596	-16.801	-13.618	-198.031
			-	22:COM9	26:COM13	18:COM5	18:COM5	30:COM17
	259	-ve	93.133	87.360	7.513	14.214	13.957	332.833
			20:COM7	28:COM15	16:COM3	24:COM11	16:COM3	20:COM7
			0.000	-151.367	-6.596	-16.801	-11.783	-142.731
			-	22:COM9	26:COM13	18:COM5	26:COM13	30:COM17

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
356	260	+ve	70.225	266.188	20.143	58.167	31.679	301.896
			28:COM15	20:COM7	24:COM11	16:COM3	16:COM3	20:COM7
			-109.134	-183.200	-38.711	-39.603	-17.030	-197.790
			22:COM9	30:COM17	18:COM5	26:COM13	26:COM13	30:COM17
	336	-ve	70.225	259.435	20.143	58.167	15.200	99.220
			28:COM15	20:COM7	24:COM11	16:COM3	24:COM11	28:COM15
			-109.134	-187.785	-38.711	-39.603	-30.260	-118.825
			22:COM9	30:COM17	18:COM5	26:COM13	18:COM5	22:COM9
357	262	+ve	15.530	57.337	22.026	37.524	16.372	18.258
			28:COM15	20:COM7	16:COM3	16:COM3	24:COM11	20:COM7
			-81.801	-48.225	-19.804	-38.195	-17.820	-12.707
			22:COM9	30:COM17	26:COM13	26:COM13	18:COM5	30:COM17
	337	-ve	15.530	50.584	22.026	37.524	17.423	68.242
			28:COM15	20:COM7	16:COM3	16:COM3	16:COM3	28:COM15
			-81.801	-52.810	-19.804	-38.195	-15.317	-68.200
			22:COM9	30:COM17	26:COM13	26:COM13	26:COM13	22:COM9
358	264	+ve	63.640	122.039	20.504	37.785	15.943	122.238
			20:COM7	20:COM7	16:COM3	16:COM3	24:COM11	20:COM7
			-76.581	-35.871	-19.799	-35.739	-17.546	0.000
			30:COM17	30:COM17	26:COM13	26:COM13	18:COM5	-
	338	-ve	63.640	115.286	20.504	37.785	15.285	65.264
			20:COM7	20:COM7	16:COM3	16:COM3	16:COM3	28:COM15
			-76.581	-40.456	-19.799	-35.739	-15.760	-67.685
			30:COM17	30:COM17	26:COM13	26:COM13	26:COM13	22:COM9
359	266	+ve	0.000	42.232	21.202	39.569	17.578	4.049
			-	28:COM15	24:COM11	16:COM3	16:COM3	28:COM15
			-110.304	-54.893	-21.177	-36.790	-17.464	-28.342
			22:COM9	22:COM9	18:COM5	26:COM13	26:COM13	22:COM9
	339	-ve	0.000	37.647	21.202	39.569	16.462	64.971
			-	28:COM15	24:COM11	16:COM3	24:COM11	20:COM7
			-110.304	-61.646	-21.177	-36.790	-16.309	-59.935
			22:COM9	22:COM9	18:COM5	26:COM13	18:COM5	30:COM17
360	268	+ve	15.292	220.751	24.030	39.807	18.906	257.277
			28:COM15	20:COM7	16:COM3	24:COM11	24:COM11	20:COM7
			-131.920	-193.771	-21.146	-43.171	-20.142	-227.536
			22:COM9	30:COM17	26:COM13	18:COM5	18:COM5	30:COM17
	340	-ve	15.292	213.998	24.030	39.807	18.314	86.671
			28:COM15	20:COM7	16:COM3	24:COM11	16:COM3	28:COM15
			-131.920	-198.356	-21.146	-43.171	-14.934	-91.029
			22:COM9	30:COM17	26:COM13	18:COM5	26:COM13	22:COM9
377	322	+ve	48.075	63.007	7.448	0.000	0.000	78.584
			24:COM11	20:COM7	34:CVOL3	-	-	20:COM7
			-70.847	-9.449	0.000	-30.854	-8.765	0.000
			18:COM5	30:COM17	-	22:COM9	34:CVOL3	-
	324	-ve	48.075	55.074	7.448	0.000	5.867	38.051
			24:COM11	20:COM7	34:CVOL3	-	16:COM3	20:COM7
			-70.847	-14.229	0.000	-30.854	0.000	-37.458
			18:COM5	30:COM17	-	22:COM9	-	30:COM17

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
378	240	+ve	71.962	129.270	7.096	1.942	0.000	322.067
			16:COM3	20:COM7	20:COM7	24:COM1	-	28:COM1
			-72.835	-121.752	-0.109	-31.325	-8.640	-350.642
			26:COM1	30:COM1	30:COM1	18:COM5	22:COM9	22:COM9
	6213	-ve	71.962	122.839	7.096	1.942	6.055	69.118
			16:COM3	20:COM7	20:COM7	24:COM1	20:COM7	28:COM1
			-72.835	-125.836	-0.109	-31.325	-0.483	-102.332
			26:COM1	30:COM1	30:COM1	18:COM5	30:COM1	22:COM9
380	317	+ve	78.345	93.789	9.499	18.795	6.968	92.212
			28:COM1	20:COM7	20:COM7	28:COM1	28:COM1	20:COM7
			-183.435	-39.408	-9.208	-27.929	-7.660	-37.602
			22:COM9	30:COM1	30:COM1	22:COM9	22:COM9	30:COM1
	325	-ve	78.345	85.012	9.499	18.795	10.959	44.799
			28:COM1	20:COM7	20:COM7	28:COM1	28:COM1	28:COM1
			-183.435	-44.821	-9.208	-27.929	-11.085	-82.394
			22:COM9	30:COM1	30:COM1	22:COM9	22:COM9	22:COM9
382	245	+ve	17.704	96.846	1.091	8.201	3.733	254.530
			16:COM3	20:COM7	24:COM1	24:COM1	16:COM3	20:COM7
			-6.182	-30.634	-1.200	-10.211	-3.478	-89.758
			26:COM1	30:COM1	18:COM5	18:COM5	26:COM1	30:COM1
	244	-ve	17.704	70.729	1.091	8.201	2.951	135.064
			16:COM3	20:COM7	24:COM1	24:COM1	24:COM1	28:COM1
			-6.182	-46.740	-1.200	-10.211	-3.328	-232.009
			26:COM1	30:COM1	18:COM5	18:COM5	18:COM5	22:COM9
385	319	+ve	37.217	51.196	6.097	32.702	7.685	28.506
			28:COM1	28:COM1	24:COM1	16:COM3	16:COM3	28:COM1
			-225.910	-77.514	-9.831	-13.497	-3.943	-98.023
			22:COM9	22:COM9	18:COM5	26:COM1	26:COM1	22:COM9
	326	-ve	37.217	45.784	6.097	32.702	8.003	61.879
			28:COM1	28:COM1	24:COM1	16:COM3	24:COM1	20:COM7
			-225.910	-86.290	-9.831	-13.497	-11.541	-66.246
			22:COM9	22:COM9	18:COM5	26:COM1	18:COM5	30:COM1
387	320	+ve	34.492	42.678	7.260	18.136	5.068	21.545
			28:COM1	28:COM1	24:COM1	16:COM3	24:COM1	28:COM1
			-234.780	-59.694	-7.353	-17.876	-5.089	-81.005
			22:COM9	22:COM9	18:COM5	26:COM1	18:COM5	22:COM9
	327	-ve	34.492	37.266	7.260	18.136	9.073	45.395
			28:COM1	28:COM1	24:COM1	16:COM3	24:COM1	28:COM1
			-234.780	-68.470	-7.353	-17.876	-9.276	-57.841
			22:COM9	22:COM9	18:COM5	26:COM1	18:COM5	22:COM9
389	321	+ve	85.538	60.928	9.090	13.941	5.236	53.829
			28:COM1	28:COM1	16:COM3	24:COM1	24:COM1	28:COM1
			-250.663	-61.507	-7.945	-14.694	-6.245	-86.721
			22:COM9	22:COM9	26:COM1	18:COM5	18:COM5	22:COM9
	328	-ve	85.538	55.516	9.090	13.941	11.484	46.005
			28:COM1	28:COM1	16:COM3	24:COM1	16:COM3	28:COM1
			-250.663	-70.283	-7.945	-14.694	-10.261	-63.935
			22:COM9	22:COM9	26:COM1	18:COM5	26:COM1	22:COM9

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
390	286	+ve	41.631	173.388	2.955	5.828	2.766	115.604
			28:COM15	20:COM7	16:COM3	28:COM15	24:COM11	20:COM7
			-100.058	-130.771	-2.467	-15.201	-3.013	-76.415
			22:COM9	30:COM17	26:COM13	22:COM9	18:COM5	30:COM17
	240	-ve	41.631	167.761	2.955	5.828	4.090	161.755
			28:COM15	20:COM7	16:COM3	28:COM15	20:COM7	28:COM15
			-100.058	-134.344	-2.467	-15.201	-3.460	-190.856
			22:COM9	30:COM17	26:COM13	22:COM9	30:COM17	22:COM9
391	287	+ve	14.064	0.000	21.863	45.153	28.251	23.589
			28:COM15	-	28:COM15	20:COM7	20:COM7	24:COM11
			-98.017	-72.239	-26.026	-37.158	-23.556	-66.967
			22:COM9	18:COM5	22:COM9	30:COM17	30:COM17	18:COM5
	242	-ve	14.064	0.000	21.863	45.153	15.718	85.329
			28:COM15	-	28:COM15	20:COM7	28:COM15	34:CVOL3
			-98.017	-80.323	-26.026	-37.158	-18.501	0.000
			22:COM9	18:COM5	22:COM9	30:COM17	22:COM9	-
392	288	+ve	5.976	0.000	25.380	27.112	24.532	0.254
			28:COM15	-	16:COM3	24:COM11	24:COM11	28:COM15
			-107.964	-101.904	-23.382	-27.327	-25.531	-82.875
			22:COM9	34:CVOL3	26:COM13	18:COM5	18:COM5	22:COM9
	249	-ve	5.976	0.000	25.380	27.112	20.060	128.630
			28:COM15	-	16:COM3	24:COM11	16:COM3	34:CVOL3
			-107.964	-110.850	-23.382	-27.327	-17.470	0.000
			22:COM9	34:CVOL3	26:COM13	18:COM5	26:COM13	-
393	289	+ve	36.125	102.638	22.405	42.580	27.135	47.422
			24:COM11	28:COM15	24:COM11	24:COM11	16:COM3	28:COM15
			-115.051	-169.295	-25.509	-51.694	-24.486	-95.764
			18:COM5	22:COM9	18:COM5	18:COM5	26:COM13	22:COM9
	251	-ve	36.125	97.653	22.405	42.580	15.832	215.680
			24:COM11	28:COM15	24:COM11	24:COM11	24:COM11	20:COM7
			-115.051	-177.379	-25.509	-51.694	-18.757	-132.562
			18:COM5	22:COM9	18:COM5	18:COM5	18:COM5	30:COM17
394	323	+ve	44.083	30.520	3.284	22.589	1.636	22.472
			28:COM15	28:COM15	16:COM3	24:COM11	24:COM11	28:COM15
			-79.289	-30.909	-2.259	-31.459	-2.976	-18.868
			22:COM9	22:COM9	26:COM13	18:COM5	18:COM5	22:COM9
	329	-ve	44.083	25.740	3.284	22.589	3.451	49.183
			28:COM15	28:COM15	16:COM3	24:COM11	16:COM3	20:COM7
			-79.289	-38.842	-2.259	-31.459	-2.792	-32.424
			22:COM9	22:COM9	26:COM13	18:COM5	26:COM13	30:COM17
395	290	+ve	59.311	147.757	7.454	13.891	4.993	70.761
			28:COM15	20:COM7	16:COM3	16:COM3	28:COM15	20:COM7
			-93.599	-123.465	-6.375	-11.491	-6.210	-57.262
			22:COM9	30:COM17	26:COM13	26:COM13	22:COM9	30:COM17
	252	-ve	59.311	140.450	7.454	13.891	7.675	168.586
			28:COM15	20:COM7	16:COM3	16:COM3	16:COM3	28:COM15
			-93.599	-127.867	-6.375	-11.491	-6.955	-188.202
			22:COM9	30:COM17	26:COM13	26:COM13	26:COM13	22:COM9

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
396	287	+ve	90.686	105.430	9.488	8.430	17.196	292.039
			20:COM7	16:COM3	24:COM11	28:COM15	16:COM3	16:COM3
			-7.520	0.000	-13.816	-8.285	-11.880	-9.647
			30:COM17	-	18:COM5	22:COM9	26:COM13	26:COM13
	1289	-ve	90.686	99.481	9.488	8.430	6.183	104.091
			20:COM7	16:COM3	24:COM11	28:COM15	24:COM11	16:COM3
			-7.520	0.000	-13.816	-8.285	-8.985	-41.700
			30:COM17	-	18:COM5	22:COM9	18:COM5	26:COM13
397	291	+ve	0.000	65.003	23.732	31.574	24.974	112.302
			-	28:COM15	24:COM11	16:COM3	24:COM11	28:COM15
			-79.145	-242.314	-25.075	-23.865	-25.318	-237.478
			18:COM5	22:COM9	18:COM5	26:COM13	18:COM5	22:COM9
	1637	-ve	0.000	60.748	23.732	31.574	18.569	214.222
			-	28:COM15	24:COM11	16:COM3	24:COM11	20:COM7
			-79.145	-248.870	-25.075	-23.865	-21.382	-3.406
			18:COM5	22:COM9	18:COM5	26:COM13	18:COM5	30:COM17
398	244	+ve	26.680	120.084	12.952	5.933	9.002	178.100
			28:COM15	20:COM7	20:COM7	24:COM17	28:COM15	24:COM17
			-107.523	-91.009	-5.112	-11.273	-17.169	-256.518
			22:COM9	30:COM17	30:COM17	18:COM5	22:COM9	18:COM5
	1299	-ve	26.680	114.097	12.952	5.933	7.289	0.000
			28:COM15	20:COM7	20:COM7	24:COM17	20:COM7	-
			-107.523	-95.499	-5.112	-11.273	-0.655	-104.374
			22:COM9	30:COM17	30:COM17	18:COM5	30:COM17	18:COM5
399	246	+ve	16.213	41.238	1.457	2.083	0.944	102.845
			24:COM17	20:COM7	16:COM3	24:COM17	24:COM11	20:COM7
			-16.731	-8.692	-0.892	-5.899	-1.305	-40.652
			18:COM5	30:COM17	26:COM13	18:COM5	18:COM5	30:COM17
	1318	-ve	16.213	33.720	1.457	2.083	2.204	18.955
			24:COM17	20:COM7	16:COM3	24:COM17	16:COM3	24:COM17
			-16.731	-13.467	-0.892	-5.899	-1.208	-20.114
			18:COM5	30:COM17	26:COM13	18:COM5	26:COM13	18:COM5
401	322	+ve	129.538	65.009	2.954	4.599	4.747	231.888
			20:COM7	34:CVOL3	24:COM11	20:COM7	16:COM3	20:COM7
			0.000	0.000	-4.791	-3.962	-3.775	0.000
			-	-	18:COM5	30:COM17	26:COM13	-
	1439	-ve	129.538	61.866	2.954	4.599	2.117	108.563
			20:COM7	34:CVOL3	24:COM11	20:COM7	24:COM11	20:COM7
			0.000	0.000	-4.791	-3.962	-4.788	-12.704
			-	-	18:COM5	30:COM17	18:COM5	30:COM17
402	317	+ve	66.225	64.136	3.686	12.085	5.937	191.400
			20:COM7	20:COM7	28:COM15	20:COM7	20:COM7	20:COM7
			-52.909	-27.141	-4.027	-0.401	-6.170	-133.655
			30:COM17	30:COM17	22:COM9	30:COM17	30:COM17	30:COM17
	1442	-ve	66.225	61.157	3.686	12.085	0.857	75.111
			20:COM7	20:COM7	28:COM15	20:COM7	28:COM15	28:COM15
			-52.909	-29.375	-4.027	-0.401	-1.731	-81.973
			30:COM17	30:COM17	22:COM9	30:COM17	22:COM9	22:COM9

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
403	245	+ve	40.583	58.405	0.851	7.383	4.815	148.813
			16:COM3	16:COM3	28:COM15	20:COM7	20:COM7	16:COM3
			-21.454	0.000	-4.518	-0.679	-2.052	-44.197
			26:COM13	-	22:COM9	30:COM17	30:COM17	26:COM13
	1303	-ve	40.583	55.527	0.851	7.383	0.000	45.837
			16:COM3	16:COM3	28:COM15	20:COM7	-	24:COM17
			-21.454	-1.252	-4.518	-0.679	-3.606	-44.315
			26:COM13	26:COM13	22:COM9	30:COM17	22:COM9	18:COM5
404	246	+ve	56.721	76.569	4.185	1.333	2.362	194.975
			20:COM7	20:COM7	20:COM7	28:COM15	28:COM15	20:COM7
			-20.476	-31.047	-2.079	-4.599	-4.186	-88.030
			30:COM17	30:COM17	30:COM17	22:COM9	22:COM9	30:COM17
	1444	-ve	56.721	73.717	4.185	1.333	3.383	59.828
			20:COM7	20:COM7	20:COM7	28:COM15	20:COM7	20:COM7
			-20.476	-33.186	-2.079	-4.599	-1.418	-30.284
			30:COM17	30:COM17	30:COM17	22:COM9	30:COM17	30:COM17
405	319	+ve	62.797	55.074	11.921	8.688	4.482	170.126
			16:COM3	16:COM3	20:COM7	35:CVOL4	28:COM15	16:COM3
			-30.057	0.000	-3.904	0.000	-14.902	-30.470
			26:COM13	-	30:COM17	-	22:COM9	26:COM13
	1450	-ve	62.797	51.941	11.921	8.688	8.695	64.480
			16:COM3	16:COM3	20:COM7	35:CVOL4	20:COM7	16:COM3
			-30.057	0.000	-3.904	0.000	-3.277	-47.109
			26:COM13	-	30:COM17	-	30:COM17	26:COM13
406	291	+ve	163.275	132.853	0.000	33.564	32.143	437.376
			20:COM7	16:COM3	-	20:COM7	20:COM7	16:COM3
			-131.387	0.000	-30.966	0.000	0.000	-180.632
			30:COM17	-	22:COM9	-	-	26:COM13
	1181	-ve	163.275	126.613	0.000	33.564	0.000	182.319
			20:COM7	16:COM3	-	20:COM7	-	16:COM3
			-131.387	-1.218	-30.966	0.000	-28.833	-183.028
			30:COM17	26:COM13	22:COM9	-	22:COM9	26:COM13
407	288	+ve	184.412	111.450	3.387	1.367	6.921	412.090
			16:COM3	16:COM3	28:COM15	24:COM17	16:COM3	16:COM3
			-128.990	0.000	-5.032	-3.592	-4.244	-160.787
			26:COM13	-	22:COM9	18:COM5	26:COM13	26:COM13
	1187	-ve	184.412	105.193	3.387	1.367	2.973	198.486
			16:COM3	16:COM3	28:COM15	24:COM17	20:COM7	16:COM3
			-128.990	0.000	-5.032	-3.592	-3.542	-175.043
			26:COM13	-	22:COM9	18:COM5	30:COM17	26:COM13
408	320	+ve	77.407	58.583	5.929	10.155	4.101	195.948
			16:COM3	16:COM3	16:COM3	35:CVOL4	24:COM11	16:COM3
			-33.877	0.000	-3.223	0.000	-8.932	-35.916
			26:COM13	-	26:COM13	-	18:COM5	26:COM13
	1456	-ve	77.407	55.454	5.929	10.155	3.290	83.408
			16:COM3	16:COM3	16:COM3	35:CVOL4	28:COM15	16:COM3
			-33.877	0.000	-3.223	0.000	-2.779	-50.158
			26:COM13	-	26:COM13	-	22:COM9	26:COM13

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
409	289	+ve	138.354	410.793	7.857	1.367	4.958	733.466
			16:COM3	16:COM3	20:COM7	24:COM1	28:COM1	16:COM3
			-117.305	-405.486	-4.384	-9.338	-7.915	-729.717
			26:COM1	26:COM1	30:COM1	18:COM5	22:COM9	26:COM1
	1275	-ve	138.354	405.495	7.857	1.367	7.671	77.764
			16:COM3	24:COM1	20:COM7	24:COM1	20:COM7	16:COM3
			-117.305	-411.148	-4.384	-9.338	-3.768	-73.674
			26:COM1	18:COM5	30:COM1	18:COM5	30:COM1	26:COM1
410	256	+ve	219.278	191.507	27.384	8.092	4.684	203.394
			24:COM1	16:COM3	16:COM3	16:COM3	24:COM1	16:COM3
			-255.736	-152.799	-17.394	-7.229	-7.261	-151.695
			18:COM5	26:COM1	26:COM1	26:COM1	18:COM5	26:COM1
	1277	-ve	219.278	189.320	27.384	8.092	12.839	72.659
			24:COM1	16:COM3	16:COM3	16:COM3	16:COM3	16:COM3
			-255.736	-154.439	-17.394	-7.229	-8.527	-46.333
			18:COM5	26:COM1	26:COM1	26:COM1	26:COM1	26:COM1
421	251	+ve	58.683	88.981	10.199	24.433	20.344	234.713
			28:COM1	20:COM7	24:COM1	16:COM3	16:COM3	28:COM1
			-91.677	-68.667	-13.792	-11.836	-15.121	-238.424
			22:COM9	30:COM1	18:COM5	26:COM1	26:COM1	22:COM9
	1174	-ve	58.683	84.043	10.199	24.433	14.003	0.000
			28:COM1	20:COM7	24:COM1	16:COM3	24:COM1	-
			-91.677	-72.370	-13.792	-11.836	-19.035	-48.859
			22:COM9	30:COM1	18:COM5	26:COM1	18:COM5	22:COM9
422	257	+ve	2.420	71.833	14.441	9.535	9.911	172.284
			24:COM1	16:COM3	20:COM7	24:COM1	28:COM1	16:COM3
			-19.842	-60.774	-11.611	-11.481	-13.053	-107.449
			18:COM5	26:COM1	30:COM1	18:COM5	22:COM9	26:COM1
	290	-ve	2.420	66.165	14.441	9.535	15.241	67.729
			24:COM1	24:COM1	20:COM7	24:COM1	20:COM7	20:COM7
			-19.842	-65.971	-11.611	-11.481	-12.843	-13.908
			18:COM5	18:COM5	30:COM1	18:COM5	30:COM1	30:COM1
423	256	+ve	15.816	12.796	2.252	5.223	2.010	9.727
			24:COM1	28:COM1	16:COM3	20:COM7	24:COM1	28:COM1
			-39.432	-14.983	-1.849	-4.557	-2.241	-11.683
			18:COM5	22:COM9	26:COM1	30:COM1	18:COM5	22:COM9
	255	-ve	15.816	11.239	2.252	5.223	2.834	24.378
			24:COM1	28:COM1	16:COM3	20:COM7	16:COM3	20:COM7
			-39.432	-17.060	-1.849	-4.557	-2.160	-17.326
			18:COM5	22:COM9	26:COM1	30:COM1	26:COM1	30:COM1
426	255	+ve	13.092	37.510	2.691	3.914	2.681	95.172
			20:COM7	20:COM7	16:COM3	20:COM7	24:COM1	20:COM7
			-10.517	-24.094	-2.519	-2.518	-2.802	-81.199
			30:COM1	30:COM1	26:COM1	30:COM1	18:COM5	30:COM1
	1295	-ve	13.092	35.212	2.691	3.914	3.905	11.809
			20:COM7	20:COM7	16:COM3	20:COM7	16:COM3	24:COM1
			-10.517	-25.817	-2.519	-2.518	-3.596	-26.236
			30:COM1	30:COM1	26:COM1	30:COM1	26:COM1	18:COM5

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
428	286	+ve	40.849	80.032	12.273	12.340	21.996	193.768
			28:COM15	20:COM7	28:COM15	20:COM7	20:COM7	20:COM7
			-80.408	-89.203	-19.635	-6.064	-14.552	-89.780
			22:COM9	30:COM17	22:COM9	30:COM17	30:COM17	30:COM17
	5720	-ve	40.849	74.736	12.273	12.340	10.494	127.636
			28:COM15	28:COM15	28:COM15	20:COM7	28:COM15	20:COM7
			-80.408	-95.210	-19.635	-6.064	-18.044	0.000
			22:COM9	22:COM9	22:COM9	30:COM17	22:COM9	-
429	295	+ve	316.723	268.990	5.723	8.902	4.496	9.100
			28:COM15	28:COM15	20:COM7	20:COM7	28:COM15	24:COM17
			-355.426	-302.456	-4.148	-6.186	-5.659	-11.578
			22:COM9	22:COM9	30:COM17	30:COM17	22:COM9	18:COM5
	1227	-ve	316.723	264.091	5.723	8.902	6.142	624.721
			28:COM15	28:COM15	20:COM7	20:COM7	20:COM7	20:COM7
			-355.426	-308.988	-4.148	-6.186	-4.062	-546.498
			22:COM9	22:COM9	30:COM17	30:COM17	30:COM17	30:COM17
430	1226	+ve	201.394	279.233	13.907	7.118	14.437	646.819
			20:COM7	20:COM7	28:COM15	20:COM7	28:COM15	20:COM7
			-184.841	-268.256	-14.326	-5.732	-15.628	-646.225
			30:COM17	30:COM17	22:COM9	30:COM17	22:COM9	30:COM17
	1229	-ve	201.394	272.929	13.907	7.118	12.281	104.416
			20:COM7	20:COM7	28:COM15	20:COM7	28:COM15	24:COM17
			-184.841	-272.983	-14.326	-5.732	-14.304	-114.676
			30:COM17	30:COM17	22:COM9	30:COM17	22:COM9	18:COM5
436	321	+ve	72.190	52.034	6.624	10.960	0.888	148.918
			16:COM3	16:COM3	16:COM3	16:COM3	28:COM15	16:COM3
			-21.288	0.000	-2.408	-2.376	-6.172	0.000
			26:COM13	-	26:COM13	26:COM13	22:COM9	-
	1462	-ve	72.190	48.907	6.624	10.960	10.630	49.419
			16:COM3	16:COM3	16:COM3	16:COM3	16:COM3	16:COM3
			-21.288	0.000	-2.408	-2.376	-7.599	-16.990
			26:COM13	-	26:COM13	26:COM13	26:COM13	26:COM13
448	304	+ve	46.381	63.479	3.569	2.178	8.480	173.070
			16:COM3	16:COM3	24:COM11	28:COM15	16:COM3	16:COM3
			-33.566	-9.089	-5.361	-10.117	-5.812	-82.553
			26:COM13	26:COM13	18:COM5	22:COM9	26:COM13	26:COM13
	6176	-ve	46.381	59.015	3.569	2.178	2.058	49.700
			16:COM3	16:COM3	24:COM11	28:COM15	28:COM15	24:COM17
			-33.566	-12.436	-5.361	-10.117	-3.088	-63.394
			26:COM13	26:COM13	18:COM5	22:COM9	22:COM9	18:COM5
450	6152	+ve	22.802	39.863	7.791	0.206	2.726	72.252
			20:COM7	16:COM3	20:COM7	28:COM15	28:COM15	16:COM3
			0.000	-8.530	-1.724	-15.206	-7.748	-9.367
			-	26:COM13	30:COM17	22:COM9	22:COM9	26:COM13
	6154	-ve	22.802	35.178	7.791	0.206	9.477	16.122
			20:COM7	16:COM3	20:COM7	28:COM15	16:COM3	28:COM15
			0.000	-12.044	-1.724	-15.206	-1.355	-12.243
			-	26:COM13	30:COM17	22:COM9	26:COM13	22:COM9

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
462	324	+ve	14.129	34.728	1.562	0.682	4.180	38.168
			24:COM1	20:COM7	28:COM1	28:COM1	20:COM7	20:COM7
			-104.199	-20.016	-2.150	-3.361	-2.464	-23.342
			18:COM5	30:COM1	22:COM9	22:COM9	30:COM1	30:COM1
	330	-ve	14.129	25.072	1.562	0.682	1.526	34.363
			24:COM1	28:COM1	28:COM1	28:COM1	20:COM7	28:COM1
			-104.199	-26.660	-2.150	-3.361	-1.280	-35.941
			18:COM5	22:COM9	22:COM9	22:COM9	30:COM1	22:COM9
463	325	+ve	3.187	32.516	4.390	8.903	5.643	128.638
			28:COM1	20:COM7	24:COM1	24:COM1	16:COM3	20:COM7
			-31.719	-19.000	-7.425	-12.257	-1.730	-18.571
			22:COM9	30:COM1	18:COM5	18:COM5	26:COM1	30:COM1
	331	-ve	3.187	22.491	4.390	8.903	9.662	68.468
			28:COM1	28:COM1	24:COM1	24:COM1	24:COM1	34:CVOL
			-31.719	-27.166	-7.425	-12.257	-13.337	0.000
			22:COM9	22:COM9	18:COM5	18:COM5	18:COM5	-
464	326	+ve	11.802	3.236	4.787	10.164	2.450	106.548
			28:COM1	24:COM1	16:COM3	16:COM3	28:COM1	20:COM7
			-33.389	-11.006	-2.473	-8.691	-7.108	-4.141
			22:COM9	18:COM5	26:COM1	26:COM1	22:COM9	30:COM1
	332	-ve	11.802	0.000	4.787	10.164	7.765	131.804
			28:COM1	-	16:COM3	16:COM3	16:COM3	20:COM7
			-33.389	-22.258	-2.473	-8.691	-6.639	0.000
			22:COM9	18:COM5	26:COM1	26:COM1	26:COM1	-
465	327	+ve	0.000	22.733	3.476	8.506	0.340	134.374
			-	20:COM7	16:COM3	24:COM1	28:COM1	20:COM7
			-46.516	-15.731	-3.148	-10.410	-1.189	-2.154
			22:COM9	30:COM1	26:COM1	18:COM5	22:COM9	30:COM1
	333	-ve	0.000	14.414	3.476	8.506	7.859	96.732
			-	28:COM1	16:COM3	24:COM1	24:COM1	34:CVOL
			-46.516	-25.603	-3.148	-10.410	-7.886	0.000
			22:COM9	22:COM9	26:COM1	18:COM5	18:COM5	-
466	328	+ve	0.000	21.800	6.769	11.166	3.643	146.180
			-	20:COM7	16:COM3	24:COM1	24:COM1	20:COM7
			-56.233	-12.607	-5.967	-11.113	-4.354	-33.865
			18:COM5	30:COM1	26:COM1	18:COM5	18:COM5	30:COM1
	334	-ve	0.000	12.854	6.769	11.166	12.586	107.128
			-	28:COM1	16:COM3	24:COM1	16:COM3	20:COM7
			-56.233	-21.852	-5.967	-11.113	-11.292	0.000
			18:COM5	22:COM9	26:COM1	18:COM5	26:COM1	-
467	329	+ve	28.755	26.410	1.246	1.231	2.874	27.510
			24:COM1	20:COM7	24:COM1	24:COM1	16:COM3	28:COM1
			-81.738	-22.123	-1.571	-3.208	-2.310	-28.919
			18:COM5	30:COM1	18:COM5	18:COM5	26:COM1	22:COM9
	335	-ve	28.755	19.126	1.246	1.231	0.814	36.224
			24:COM1	28:COM1	24:COM1	24:COM1	24:COM1	20:COM7
			-81.738	-31.137	-1.571	-3.208	-1.062	-27.978
			18:COM5	22:COM9	18:COM5	18:COM5	18:COM5	30:COM1

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
468	330	+ve	0.000	64.137	6.025	13.986	0.882	30.897
			-	20:COM7	16:COM3	20:COM7	24:COM11	20:COM7
			-67.810	-51.650	0.000	-10.293	-3.348	-27.644
			18:COM5	30:COM17	-	30:COM17	18:COM5	30:COM17
	286	-ve	0.000	57.424	6.025	13.986	7.317	61.169
			-	20:COM7	16:COM3	20:COM7	16:COM3	28:COM15
			-67.810	-55.694	0.000	-10.293	0.000	-69.645
			18:COM5	30:COM17	-	30:COM17	-	22:COM9
469	331	+ve	0.000	47.690	23.733	44.398	12.866	71.063
			-	24:COM11	16:COM3	28:COM15	24:COM11	28:COM15
			-93.504	-48.627	-19.969	-52.535	-14.825	-77.588
			18:COM5	18:COM5	26:COM13	22:COM9	18:COM5	22:COM9
	287	-ve	0.000	43.110	23.733	44.398	24.336	50.844
			-	24:COM11	16:COM3	28:COM15	16:COM3	20:COM7
			-93.504	-56.053	-19.969	-52.535	-20.085	-45.917
			18:COM5	18:COM5	26:COM13	22:COM9	26:COM13	30:COM17
470	332	+ve	29.470	103.005	28.558	30.231	11.650	72.379
			28:COM15	28:COM15	16:COM3	24:COM17	24:COM11	28:COM15
			-157.212	-170.097	-17.768	-42.606	-18.666	-127.898
			22:COM9	22:COM9	26:COM13	18:COM5	18:COM5	22:COM9
	291	-ve	29.470	98.425	28.558	30.231	28.454	159.601
			28:COM15	28:COM15	16:COM3	24:COM17	16:COM3	20:COM7
			-157.212	-177.523	-17.768	-42.606	-17.666	-94.517
			22:COM9	22:COM9	26:COM13	18:COM5	26:COM13	30:COM17
471	333	+ve	0.000	28.060	22.348	34.118	17.527	54.906
			-	28:COM15	24:COM11	16:COM3	16:COM3	28:COM15
			-107.113	-54.543	-25.833	-33.641	-14.134	-93.528
			34:CVOL3	22:COM9	18:COM5	26:COM13	26:COM13	22:COM9
	288	-ve	0.000	23.480	22.348	34.118	22.742	17.177
			-	28:COM15	24:COM11	16:COM3	24:COM11	20:COM7
			-107.113	-61.969	-25.833	-33.641	-25.098	-2.198
			34:CVOL3	22:COM9	18:COM5	26:COM13	18:COM5	30:COM17
472	334	+ve	1.107	62.881	21.233	58.628	15.427	73.340
			24:COM17	28:COM15	24:COM11	16:COM3	16:COM3	28:COM15
			-151.222	-71.786	-24.872	-49.012	-13.249	-98.299
			18:COM5	22:COM9	18:COM5	26:COM13	26:COM13	22:COM9
	289	-ve	1.107	58.301	21.233	58.628	21.788	50.111
			24:COM17	28:COM15	24:COM11	16:COM3	24:COM11	16:COM3
			-151.222	-79.212	-24.872	-49.012	-25.614	-50.471
			18:COM5	22:COM9	18:COM5	26:COM13	18:COM5	26:COM13
473	335	+ve	10.524	52.174	6.019	16.923	5.586	27.411
			24:COM17	20:COM7	24:COM11	24:COM17	16:COM3	28:COM15
			-57.268	-53.904	-7.297	-21.147	-5.426	-32.877
			18:COM5	30:COM17	18:COM5	18:COM5	26:COM13	22:COM9
	290	-ve	10.524	48.087	6.019	16.923	4.549	61.863
			24:COM17	28:COM15	24:COM11	24:COM17	24:COM11	20:COM7
			-57.268	-60.574	-7.297	-21.147	-6.498	-55.601
			18:COM5	22:COM9	18:COM5	18:COM5	18:COM5	30:COM17

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
474	336	+ve	11.697	8.501	1.088	0.405	4.355	92.659
			28:COM15	20:COM7	24:COM11	28:COM15	16:COM3	20:COM7
			-45.969	-4.599	-1.188	-3.211	-4.342	0.000
			22:COM9	30:COM17	18:COM5	22:COM9	26:COM13	-
	341	-ve	11.697	0.000	1.088	0.405	1.381	128.305
			28:COM15	-	24:COM11	28:COM15	28:COM15	20:COM7
			-45.969	-18.273	-1.188	-3.211	-1.709	-7.533
			22:COM9	22:COM9	18:COM5	22:COM9	22:COM9	30:COM17
475	337	+ve	0.000	17.331	0.896	1.356	4.366	66.822
			-	28:COM15	24:COM11	16:COM3	16:COM3	20:COM7
			-30.437	-22.251	-1.004	-0.450	-4.291	0.000
			22:COM9	22:COM9	18:COM5	26:COM13	26:COM13	-
	342	-ve	0.000	7.588	0.896	1.356	1.324	119.278
			-	28:COM15	24:COM11	16:COM3	24:COM11	20:COM7
			-30.437	-36.602	-1.004	-0.450	-1.617	0.000
			22:COM9	22:COM9	18:COM5	26:COM13	18:COM5	-
476	338	+ve	0.000	20.704	1.000	0.534	4.020	85.975
			-	20:COM7	16:COM3	24:COM11	24:COM11	20:COM7
			-37.860	-9.833	-0.851	-1.141	-4.636	0.000
			22:COM9	30:COM17	26:COM13	18:COM5	18:COM5	-
	343	-ve	0.000	8.011	1.000	0.534	1.327	104.726
			-	28:COM15	16:COM3	24:COM11	24:COM11	20:COM7
			-37.860	-21.234	-0.851	-1.141	-1.434	0.000
			22:COM9	22:COM9	26:COM13	18:COM5	18:COM5	-
477	339	+ve	0.000	14.819	1.047	0.758	4.005	63.175
			-	28:COM15	16:COM3	24:COM11	24:COM11	20:COM7
			-33.602	-21.435	-0.810	-1.004	-4.631	0.000
			22:COM9	22:COM9	26:COM13	18:COM5	18:COM5	-
	344	-ve	0.000	5.076	1.047	0.758	1.451	120.620
			-	28:COM15	16:COM3	24:COM11	16:COM3	20:COM7
			-33.602	-35.786	-0.810	-1.004	-1.271	0.000
			22:COM9	22:COM9	26:COM13	18:COM5	26:COM13	-
478	340	+ve	2.123	3.860	1.072	2.630	3.339	91.204
			28:COM15	24:COM11	16:COM3	16:COM3	24:COM11	20:COM7
			-48.537	-5.298	-0.354	-0.543	-4.620	-5.243
			22:COM9	18:COM5	26:COM13	26:COM13	18:COM5	30:COM17
	345	-ve	2.123	0.000	1.072	2.630	2.767	123.206
			28:COM15	-	16:COM3	16:COM3	16:COM3	20:COM7
			-48.537	-19.648	-0.354	-0.543	-1.610	0.000
			22:COM9	18:COM5	26:COM13	26:COM13	26:COM13	-
479	341	+ve	3.834	0.731	10.242	23.235	9.799	52.052
			28:COM15	28:COM15	24:COM11	24:COM11	16:COM3	28:COM15
			-81.965	-87.544	-11.245	-31.048	-9.531	-118.865
			22:COM9	22:COM9	18:COM5	18:COM5	26:COM13	22:COM9
	300	-ve	3.834	0.000	10.242	23.235	8.446	74.066
			28:COM15	-	24:COM11	24:COM11	24:COM11	20:COM7
			-81.965	-94.931	-11.245	-31.048	-9.934	0.000
			22:COM9	22:COM9	18:COM5	18:COM5	18:COM5	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
480	342	+ve	0.000	0.000	12.176	27.569	9.776	38.075
			-	-	16:COM3	24:COM1	24:COM1	28:COM1
			-63.211	-82.454	-11.102	-28.400	-10.373	-108.626
			22:COM9	22:COM9	26:COM1	18:COM5	18:COM5	22:COM9
	301	-ve	0.000	0.000	12.176	27.569	10.935	73.411
			-	-	16:COM3	24:COM1	16:COM3	20:COM7
			-63.211	-89.841	-11.102	-28.400	-9.653	0.000
			22:COM9	22:COM9	26:COM1	18:COM5	26:COM1	-
481	343	+ve	0.000	0.000	10.698	26.188	8.877	37.792
			-	-	16:COM3	24:COM1	24:COM1	28:COM1
			-67.610	-81.153	-10.136	-27.543	-9.367	-105.393
			22:COM9	22:COM9	26:COM1	18:COM5	18:COM5	22:COM9
	302	-ve	0.000	0.000	10.698	26.188	9.355	67.020
			-	-	16:COM3	24:COM1	16:COM3	20:COM7
			-67.610	-88.539	-10.136	-27.543	-8.862	0.000
			22:COM9	22:COM9	26:COM1	18:COM5	26:COM1	-
482	344	+ve	0.000	0.000	11.141	26.583	9.148	27.451
			-	-	16:COM3	24:COM1	24:COM1	28:COM1
			-67.048	-82.767	-10.509	-27.772	-9.672	-107.470
			22:COM9	22:COM9	26:COM1	18:COM5	18:COM5	22:COM9
	303	-ve	0.000	0.000	11.141	26.583	9.825	72.636
			-	-	16:COM3	24:COM1	16:COM3	20:COM7
			-67.048	-90.154	-10.509	-27.772	-9.244	0.000
			22:COM9	22:COM9	26:COM1	18:COM5	26:COM1	-
483	345	+ve	0.000	0.000	10.118	28.817	10.580	27.621
			-	-	24:COM1	16:COM3	16:COM3	28:COM1
			-78.652	-82.025	-12.320	-26.225	-8.611	-106.730
			22:COM9	22:COM9	18:COM5	26:COM1	26:COM1	22:COM9
	304	-ve	0.000	0.000	10.118	28.817	9.103	74.064
			-	-	24:COM1	16:COM3	24:COM1	20:COM7
			-78.652	-89.412	-12.320	-26.225	-10.986	0.000
			22:COM9	22:COM9	18:COM5	26:COM1	18:COM5	-
484	346	+ve	4.665	2.215	1.168	0.968	0.485	1.150
			28:COM1	20:COM7	20:COM7	24:COM1	24:COM1	20:COM7
			-75.123	-2.042	-0.566	-1.984	-0.947	-1.243
			22:COM9	30:COM1	30:COM1	18:COM5	18:COM5	30:COM1
	6059	-ve	4.665	0.000	1.168	0.968	2.657	12.500
			28:COM1	-	20:COM7	24:COM1	16:COM3	20:COM7
			-75.123	-8.763	-0.566	-1.984	-1.745	-0.066
			22:COM9	22:COM9	30:COM1	18:COM5	26:COM1	30:COM1
485	347	+ve	0.000	0.240	0.465	1.364	0.862	0.000
			-	20:COM7	28:COM1	16:COM3	16:COM3	-
			-46.535	-2.494	-0.545	-0.982	-0.822	-2.035
			22:COM9	30:COM1	22:COM9	26:COM1	26:COM1	32:CVOL1
	352	-ve	0.000	0.000	0.465	1.364	1.476	11.408
			-	-	28:COM1	16:COM3	24:COM1	20:COM7
			-46.535	-9.122	-0.545	-0.982	-1.618	0.000
			22:COM9	22:COM9	22:COM9	26:COM1	18:COM5	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
486	348	+ve	0.000	0.000	0.093	1.158	1.032	0.000
			-	-	28:COM15	16:COM3	16:COM3	-
			-52.277	-1.986	-0.272	-1.123	-0.909	-1.905
			22:COM9	30:COM17	22:COM9	26:COM13	26:COM13	22:COM9
	353	-ve	0.000	0.000	0.093	1.158	1.005	10.997
			-	-	28:COM15	16:COM3	24:COM11	20:COM7
			-52.277	-8.936	-0.272	-1.123	-1.290	0.000
			22:COM9	34:CVOL3	22:COM9	26:COM13	18:COM5	-
487	349	+ve	0.000	0.000	0.129	1.089	0.990	0.000
			-	-	28:COM15	24:COM11	24:COM11	-
			-48.772	-3.068	-0.159	-1.302	-1.013	-2.900
			22:COM9	22:COM9	22:COM9	18:COM5	18:COM5	32:CVOL1
	354	-ve	0.000	0.000	0.129	1.089	1.003	12.170
			-	-	28:COM15	24:COM11	24:COM11	20:COM7
			-48.772	-9.865	-0.159	-1.302	-1.093	0.000
			22:COM9	22:COM9	22:COM9	18:COM5	18:COM5	-
488	350	+ve	0.000	0.000	0.501	0.976	0.625	0.358
			-	-	24:COM11	24:COM11	24:COM11	28:COM15
			-66.571	-2.040	-0.339	-1.500	-0.772	-3.401
			22:COM9	30:COM17	18:COM5	18:COM5	18:COM5	22:COM9
	355	-ve	0.000	0.000	0.501	0.976	1.677	12.744
			-	-	24:COM11	24:COM11	24:COM11	20:COM7
			-66.571	-9.650	-0.339	-1.500	-1.453	0.000
			22:COM9	34:CVOL3	18:COM5	18:COM5	18:COM5	-
489	356	+ve	21.410	5.739	0.699	0.000	0.582	4.599
			28:COM15	20:COM7	20:COM7	-	28:COM15	28:COM15
			-77.932	-4.474	-0.431	-1.899	-1.179	-7.459
			22:COM9	30:COM17	30:COM17	18:COM5	22:COM9	22:COM9
	83	-ve	21.410	0.026	0.699	0.000	0.990	18.359
			28:COM15	28:COM15	20:COM7	-	20:COM7	20:COM7
			-77.932	-12.899	-0.431	-1.899	-0.755	-3.228
			22:COM9	22:COM9	30:COM17	18:COM5	30:COM17	30:COM17
500	359	+ve	10.325	4.090	0.604	0.179	0.635	3.255
			28:COM15	20:COM7	16:COM3	16:COM3	24:COM11	28:COM15
			-63.612	-3.766	-0.425	-0.045	-0.902	-7.538
			22:COM9	30:COM17	26:COM13	26:COM13	18:COM5	22:COM9
	85	-ve	10.325	0.000	0.604	0.179	0.972	16.977
			28:COM15	-	16:COM3	16:COM3	16:COM3	20:COM7
			-63.612	-12.479	-0.425	-0.045	-0.684	-0.348
			22:COM9	22:COM9	26:COM13	26:COM13	26:COM13	30:COM17
501	360	+ve	9.497	3.570	0.556	0.082	0.748	2.647
			28:COM15	20:COM7	16:COM3	16:COM3	24:COM11	28:COM15
			-64.672	-3.458	-0.492	-0.090	-0.856	-7.237
			22:COM9	30:COM17	26:COM13	26:COM13	18:COM5	22:COM9
	87	-ve	9.497	0.000	0.556	0.082	0.869	16.581
			28:COM15	-	16:COM3	16:COM3	16:COM3	20:COM7
			-64.672	-12.254	-0.492	-0.090	-0.777	0.000
			22:COM9	22:COM9	26:COM13	26:COM13	26:COM13	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
502	361	+ve	11.941	3.318	0.470	0.156	0.733	2.507
			28:COM15	20:COM7	24:COM11	16:COM3	16:COM3	28:COM15
			-65.802	-3.914	-0.478	-0.136	-0.710	-8.287
			22:COM9	30:COM17	18:COM5	26:COM13	26:COM13	22:COM9
	89	-ve	11.941	0.000	0.470	0.156	0.747	17.529
			28:COM15	-	24:COM11	16:COM3	24:COM11	20:COM7
			-65.802	-12.899	-0.478	-0.136	-0.748	0.000
			22:COM9	22:COM9	18:COM5	26:COM13	18:COM5	-
503	362	+ve	26.741	3.968	0.373	0.917	1.130	2.912
			28:COM15	20:COM7	24:COM11	16:COM3	16:COM3	28:COM15
			-82.789	-4.306	-0.692	0.000	-0.522	-8.302
			22:COM9	30:COM17	18:COM5	-	26:COM13	22:COM9
	91	-ve	26.741	0.000	0.373	0.917	0.635	18.532
			28:COM15	-	24:COM11	16:COM3	24:COM11	20:COM7
			-82.789	-13.226	-0.692	0.000	-1.016	-0.960
			22:COM9	22:COM9	18:COM5	-	18:COM5	30:COM17
552	355	+ve	16.408	30.145	1.273	0.899	4.767	74.893
			20:COM7	16:COM3	28:COM15	28:COM15	16:COM3	16:COM3
			-7.131	0.000	-3.738	-3.151	-2.219	-2.732
			30:COM17	-	22:COM9	22:COM9	26:COM13	26:COM13
	1107	-ve	16.408	28.363	1.273	0.899	0.660	15.646
			20:COM7	16:COM3	28:COM15	28:COM15	28:COM15	24:COM11
			-7.131	0.000	-3.738	-3.151	-3.190	-18.975
			30:COM17	-	22:COM9	22:COM9	22:COM9	18:COM5
557	1104	+ve	28.468	2.515	6.863	1.930	4.423	16.590
			16:COM3	28:COM15	20:COM7	24:COM11	28:COM15	16:COM3
			-26.525	-16.862	-5.617	-5.589	-5.870	-14.383
			26:COM13	22:COM9	30:COM17	18:COM5	22:COM9	26:COM13
	1110	-ve	28.468	0.000	6.863	1.930	8.632	74.148
			16:COM3	-	20:COM7	24:COM11	20:COM7	16:COM3
			-26.525	-35.484	-5.617	-5.589	-7.445	-5.572
			26:COM13	22:COM9	30:COM17	18:COM5	30:COM17	26:COM13
559	81	+ve	604.209	24.218	8.168	2.821	42.709	57.805
			20:COM7	28:COM15	24:COM11	20:COM7	20:COM7	28:COM15
			-98.948	-33.077	-8.325	-2.740	-33.666	-92.062
			30:COM17	22:COM9	18:COM5	30:COM17	30:COM17	22:COM9
	5989	-ve	596.872	24.218	8.168	2.821	22.751	41.813
			20:COM7	28:COM15	24:COM11	20:COM7	20:COM7	28:COM15
			-104.450	-33.077	-8.325	-2.740	-14.337	-40.634
			30:COM17	22:COM9	18:COM5	30:COM17	30:COM17	22:COM9
572	391	+ve	0.000	2.734	1.253	1.406	1.444	2.053
			-	28:COM15	24:COM11	24:COM17	16:COM3	28:COM15
			-77.382	-5.246	-1.471	-1.683	-1.289	-6.938
			22:COM9	22:COM9	18:COM5	18:COM5	26:COM13	22:COM9
	394	-ve	0.000	0.000	1.253	1.406	1.844	15.494
			-	-	24:COM11	24:COM17	24:COM11	20:COM7
			-77.382	-12.699	-1.471	-1.683	-2.232	-0.140
			22:COM9	22:COM9	18:COM5	18:COM5	18:COM5	30:COM17

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
573	392	+ve	11.800	5.033	1.494	2.182	1.551	3.665
			28:COM15	20:COM7	24:COM11	24:COM11	16:COM3	28:COM15
			-87.156	-5.978	-1.604	-2.446	-1.413	-7.230
			22:COM9	30:COM17	18:COM5	18:COM5	26:COM13	22:COM9
	395	-ve	11.800	1.101	1.494	2.182	2.323	16.486
			28:COM15	28:COM15	24:COM11	24:COM11	24:COM11	20:COM7
			-87.156	-13.212	-1.604	-2.446	-2.460	-3.731
			22:COM9	22:COM9	18:COM5	18:COM5	18:COM5	30:COM17
574	393	+ve	24.793	13.665	0.441	1.575	0.588	15.444
			24:COM11	20:COM7	16:COM3	24:COM11	24:COM11	28:COM15
			-55.129	-13.998	-0.221	-1.633	-0.613	-21.705
			18:COM5	30:COM17	26:COM13	18:COM5	18:COM5	22:COM9
	396	-ve	24.793	8.881	0.441	1.575	1.638	21.959
			24:COM11	28:COM15	16:COM3	24:COM11	16:COM3	20:COM7
			-55.129	-21.516	-0.221	-1.633	-1.114	-12.011
			18:COM5	22:COM9	26:COM13	18:COM5	26:COM13	30:COM17
575	394	+ve	4.241	0.000	5.013	3.613	7.535	0.000
			28:COM15	-	24:COM11	16:COM3	16:COM3	-
			-33.209	-13.950	-7.239	-1.856	-4.923	-14.302
			22:COM9	22:COM9	18:COM5	26:COM13	26:COM13	22:COM9
	205	-ve	4.241	0.000	5.013	3.613	3.349	13.185
			28:COM15	-	24:COM11	16:COM3	24:COM11	34:CVOL3
			-33.209	-18.868	-7.239	-1.856	-4.410	0.000
			22:COM9	22:COM9	18:COM5	26:COM13	18:COM5	-
576	395	+ve	8.486	4.536	9.092	4.359	8.049	3.926
			24:COM11	28:COM15	16:COM3	16:COM3	24:COM11	28:COM15
			-28.299	-16.280	-7.841	-3.342	-9.713	-16.218
			18:COM5	22:COM9	26:COM13	26:COM13	18:COM5	22:COM9
	206	-ve	8.486	2.084	9.092	4.359	5.297	14.708
			24:COM11	28:COM15	16:COM3	16:COM3	16:COM3	20:COM7
			-28.299	-21.199	-7.841	-3.342	-4.896	-1.542
			18:COM5	22:COM9	26:COM13	26:COM13	26:COM13	30:COM17
577	396	+ve	17.687	17.905	1.872	1.932	3.612	13.130
			24:COM11	28:COM15	28:COM15	24:COM11	24:COM11	28:COM15
			-46.398	-22.301	-2.155	-3.838	-4.214	-19.982
			18:COM5	22:COM9	22:COM9	18:COM5	18:COM5	22:COM9
	207	-ve	17.687	15.133	1.872	1.932	4.089	21.466
			24:COM11	28:COM15	28:COM15	24:COM11	24:COM11	20:COM7
			-46.398	-27.647	-2.155	-3.838	-5.158	-14.368
			18:COM5	22:COM9	22:COM9	18:COM5	18:COM5	30:COM17
578	397	+ve	23.630	1.369	2.005	0.545	2.742	0.455
			28:COM15	28:COM15	16:COM3	16:COM3	24:COM11	28:COM15
			-88.412	-1.933	-1.670	-0.416	-3.100	-5.169
			22:COM9	22:COM9	26:COM13	26:COM13	18:COM5	22:COM9
	400	-ve	23.630	0.000	2.005	0.545	1.913	8.883
			28:COM15	-	16:COM3	16:COM3	16:COM3	20:COM7
			-88.412	-9.306	-1.670	-0.416	-1.432	0.000
			22:COM9	22:COM9	26:COM13	26:COM13	26:COM13	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
579	398	+ve	43.394	2.714	2.145	0.678	3.533	1.466
			28:COM15	16:COM3	24:COM11	16:COM3	16:COM3	24:COM11
			-95.176	-1.965	-2.283	-0.525	-3.202	-4.810
			22:COM9	26:COM13	18:COM5	26:COM13	26:COM13	18:COM5
	401	-ve	43.394	0.000	2.145	0.678	2.167	8.494
			28:COM15	-	24:COM11	16:COM3	16:COM3	16:COM3
			-95.176	-8.975	-2.283	-0.525	-2.181	0.000
			22:COM9	18:COM5	18:COM5	26:COM13	26:COM13	-
580	399	+ve	32.270	6.623	0.162	1.500	0.386	7.003
			28:COM15	24:COM11	16:COM3	24:COM11	16:COM3	24:COM11
			-34.927	-10.978	-0.156	-1.665	-0.371	-17.287
			22:COM9	18:COM5	26:COM13	18:COM5	26:COM13	18:COM5
	402	-ve	32.270	2.594	0.162	1.500	0.121	19.398
			28:COM15	24:COM11	16:COM3	24:COM11	20:COM7	16:COM3
			-34.927	-18.351	-0.156	-1.665	-0.092	-4.543
			22:COM9	18:COM5	26:COM13	18:COM5	30:COM17	26:COM13
581	400	+ve	79.203	0.582	1.135	3.088	0.010	0.924
			20:COM7	28:COM15	16:COM3	35:CVOL4	24:COM11	28:COM15
			0.000	-32.078	-0.294	0.000	-1.044	-20.982
			-	22:COM9	26:COM13	-	18:COM5	22:COM9
	123	-ve	79.203	0.000	1.135	3.088	0.831	35.962
			20:COM7	-	16:COM3	35:CVOL4	16:COM3	20:COM7
			0.000	-36.944	-0.294	0.000	-0.479	0.000
			-	22:COM9	26:COM13	-	26:COM13	-
582	401	+ve	97.799	2.380	1.568	0.142	0.068	1.813
			20:COM7	24:COM11	16:COM3	24:COM11	28:COM15	24:COM11
			-2.456	-27.088	-0.331	-0.513	-1.475	-17.608
			30:COM17	18:COM5	26:COM13	18:COM5	22:COM9	18:COM5
	124	-ve	97.799	0.000	1.568	0.142	1.199	31.119
			20:COM7	-	16:COM3	24:COM11	16:COM3	16:COM3
			-2.456	-31.953	-0.331	-0.513	-0.565	0.000
			30:COM17	18:COM5	26:COM13	18:COM5	26:COM13	-
583	402	+ve	9.961	5.297	0.804	0.019	1.047	5.021
			24:COM11	24:COM11	20:COM7	28:COM15	24:COM11	24:COM11
			-10.850	-17.958	-0.858	-1.675	-1.332	-19.375
			18:COM5	18:COM5	30:COM17	22:COM9	18:COM5	18:COM5
	125	-ve	9.961	2.638	0.804	0.019	0.742	14.296
			24:COM11	24:COM11	20:COM7	28:COM15	24:COM11	16:COM3
			-10.850	-22.824	-0.858	-1.675	-1.115	-1.552
			18:COM5	18:COM5	30:COM17	22:COM9	18:COM5	26:COM13
623	80	+ve	702.780	17.075	20.042	7.264	61.108	72.709
			16:COM3	20:COM7	16:COM3	28:COM15	28:COM15	24:COM11
			0.000	-20.408	-12.376	-7.923	-76.131	-102.510
			-	30:COM17	26:COM13	22:COM9	22:COM9	18:COM5
	164	-ve	691.820	17.075	20.042	7.264	60.068	31.763
			16:COM3	20:COM7	16:COM3	28:COM15	20:COM7	28:COM15
			0.000	-20.408	-12.376	-7.923	-44.426	-48.232
			-	30:COM17	26:COM13	22:COM9	30:COM17	22:COM9

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
624	164	+ve	617.151	51.008	59.652	11.110	115.207	116.553
			16:COM3	16:COM3	20:COM7	20:COM7	28:COM15	16:COM3
			0.000	-43.619	-43.651	-10.332	-150.081	-99.377
			-	26:COM13	30:COM17	30:COM17	22:COM9	26:COM13
	258	-ve	601.259	51.008	59.652	11.110	196.030	153.666
			16:COM3	16:COM3	20:COM7	20:COM7	20:COM7	24:COM17
			0.000	-43.619	-43.651	-10.332	-138.095	-179.348
			-	26:COM13	30:COM17	30:COM17	30:COM17	18:COM5
625	67	+ve	563.611	8.796	7.740	1.586	37.134	10.112
			20:COM7	28:COM15	24:COM11	24:COM17	20:COM7	28:COM15
			0.000	-17.790	-15.876	-1.865	-23.354	-28.402
			-	22:COM9	18:COM5	18:COM5	30:COM17	22:COM9
	151	-ve	556.274	8.796	7.740	1.586	13.102	47.596
			20:COM7	28:COM15	24:COM11	24:COM17	24:COM11	20:COM7
			0.000	-17.790	-15.876	-1.865	-31.862	-29.909
			-	22:COM9	18:COM5	18:COM5	18:COM5	30:COM17
626	66	+ve	955.722	0.000	0.000	1.644	47.967	11.333
			20:COM7	-	-	24:COM17	20:COM7	24:COM17
			0.000	-12.731	-16.947	-1.770	-12.305	-43.999
			-	18:COM5	22:COM9	18:COM5	30:COM17	18:COM5
	150	-ve	948.386	0.000	0.000	1.644	0.000	31.302
			20:COM7	-	-	24:COM17	-	16:COM3
			0.000	-12.731	-16.947	-1.770	-30.769	-4.336
			-	18:COM5	22:COM9	18:COM5	35:CVOL4	26:COM13
627	150	+ve	849.637	28.033	14.617	1.198	70.080	64.937
			20:COM7	24:COM11	28:COM15	24:COM17	20:COM7	24:COM17
			0.000	-41.036	-26.443	-1.197	-36.820	-98.963
			-	18:COM5	22:COM9	18:COM5	30:COM17	18:COM5
	244	-ve	838.999	28.033	14.617	1.198	48.067	139.067
			20:COM7	24:COM11	28:COM15	24:COM17	28:COM15	16:COM3
			0.000	-41.036	-26.443	-1.197	-83.401	-97.673
			-	18:COM5	22:COM9	18:COM5	22:COM9	26:COM13
628	151	+ve	546.410	24.460	23.021	1.993	87.269	68.163
			20:COM7	24:COM11	28:COM15	16:COM3	20:COM7	24:COM17
			0.000	-33.876	-32.080	-1.862	-62.726	-95.809
			-	18:COM5	22:COM9	26:COM13	30:COM17	18:COM5
	245	-ve	535.772	24.460	23.021	1.993	70.813	100.750
			20:COM7	24:COM11	28:COM15	16:COM3	28:COM15	16:COM3
			0.000	-33.876	-32.080	-1.862	-98.813	-73.784
			-	18:COM5	22:COM9	26:COM13	22:COM9	26:COM13
629	68	+ve	536.902	12.490	0.499	4.027	56.102	12.145
			20:COM7	16:COM3	28:COM15	16:COM3	20:COM7	20:COM7
			0.000	-9.903	-24.516	-3.519	-12.221	-7.999
			-	26:COM13	22:COM9	26:COM13	30:COM17	30:COM17
	152	-ve	529.566	12.490	0.499	4.027	0.000	36.154
			20:COM7	16:COM3	28:COM15	16:COM3	-	24:COM17
			0.000	-9.903	-24.516	-3.519	-44.308	-42.356
			-	26:COM13	22:COM9	26:COM13	18:COM5	18:COM5

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
630	152	+ve	534.127	27.634	15.481	2.661	90.604	81.321
			20:COM7	24:COM11	28:COM15	24:COM11	20:COM7	24:COM11
			-16.101	-30.829	-29.224	-2.689	-48.721	-90.090
			30:COM17	18:COM5	22:COM9	18:COM5	30:COM17	18:COM5
	246	-ve	523.489	27.634	15.481	2.661	41.072	89.769
			20:COM7	24:COM11	28:COM15	24:COM11	28:COM15	16:COM3
			-24.079	-30.829	-29.224	-2.689	-78.902	-80.007
			30:COM17	18:COM5	22:COM9	18:COM5	22:COM9	26:COM13
631	409	+ve	11.973	38.981	0.543	13.782	2.170	40.026
			24:COM11	35:CVOL4	28:COM15	20:COM7	16:COM3	35:CVOL4
			-10.733	0.000	-1.742	0.000	-0.520	0.000
			18:COM5	-	22:COM9	-	26:COM13	-
	410	-ve	11.973	36.769	0.543	13.782	0.614	0.000
			24:COM11	35:CVOL4	28:COM15	20:COM7	28:COM15	-
			-10.733	0.000	-1.742	0.000	-1.325	-34.516
			18:COM5	-	22:COM9	-	22:COM9	34:CVOL3
632	410	+ve	11.184	21.624	0.411	11.875	0.712	0.000
			28:COM15	35:CVOL4	24:COM11	20:COM7	16:COM3	-
			-9.587	0.000	-0.897	0.000	-0.218	-33.364
			22:COM9	-	18:COM5	-	26:COM13	34:CVOL3
	411	-ve	11.184	19.412	0.411	11.875	0.597	0.000
			28:COM15	35:CVOL4	24:COM11	20:COM7	24:COM11	-
			-9.587	0.000	-0.897	0.000	-1.060	-73.706
			22:COM9	-	18:COM5	-	18:COM5	35:CVOL4
633	411	+ve	9.857	2.536	1.030	3.062	0.881	0.000
			28:COM15	20:COM7	16:COM3	35:CVOL4	24:COM11	-
			-8.706	0.000	-0.906	0.000	-1.029	-73.088
			22:COM9	-	26:COM13	-	18:COM5	35:CVOL4
	412	-ve	9.857	0.323	1.030	3.062	0.997	0.000
			28:COM15	20:COM7	16:COM3	35:CVOL4	16:COM3	-
			-8.706	-0.519	-0.906	0.000	-0.902	-75.797
			22:COM9	30:COM17	26:COM13	-	26:COM13	35:CVOL4
634	412	+ve	9.671	0.000	1.184	0.300	0.758	0.000
			28:COM15	-	16:COM3	28:COM15	24:COM11	-
			-8.503	-16.568	-0.864	-5.842	-1.112	-76.768
			22:COM9	35:CVOL4	26:COM13	22:COM9	18:COM5	35:CVOL4
	413	-ve	9.671	0.000	1.184	0.300	1.218	0.000
			28:COM15	-	16:COM3	28:COM15	16:COM3	-
			-8.503	-18.780	-0.864	-5.842	-0.943	-41.996
			22:COM9	35:CVOL4	26:COM13	22:COM9	26:COM13	35:CVOL4
635	413	+ve	10.273	0.000	1.546	0.000	0.755	0.000
			28:COM15	-	16:COM3	-	24:COM11	-
			-9.715	-37.835	-0.594	-12.796	-1.264	-43.852
			22:COM9	35:CVOL4	26:COM13	22:COM9	18:COM5	35:CVOL4
	414	-ve	10.273	0.000	1.546	0.000	1.805	32.763
			28:COM15	-	16:COM3	-	16:COM3	35:CVOL4
			-9.715	-40.047	-0.594	-12.796	-0.442	0.000
			22:COM9	35:CVOL4	26:COM13	22:COM9	26:COM13	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
636	414	+ve	13.932	0.000	0.789	0.000	3.482	31.712
			28:COM15	-	28:COM15	-	20:COM7	35:CVOL4
			-20.247	-61.577	-4.082	-17.821	-0.893	0.000
			22:COM9	35:CVOL4	22:COM9	22:COM9	30:COM17	-
	123	-ve	13.932	0.000	0.789	0.000	0.663	155.041
			28:COM15	-	28:COM15	-	28:COM15	35:CVOL4
			-20.247	-63.790	-4.082	-17.821	-4.553	0.000
			22:COM9	35:CVOL4	22:COM9	22:COM9	22:COM9	-
637	415	+ve	15.976	10.006	0.444	12.896	1.494	7.174
			24:COM11	20:COM7	24:COM11	34:CVOL3	16:COM3	35:CVOL4
			-19.128	0.000	-1.418	0.000	-0.423	0.000
			18:COM5	-	18:COM5	-	26:COM13	-
	416	-ve	15.976	8.313	0.444	12.896	0.446	2.887
			24:COM11	20:COM7	24:COM11	34:CVOL3	24:COM11	28:COM15
			-19.128	0.000	-1.418	0.000	-1.282	-12.648
			18:COM5	-	18:COM5	-	18:COM5	22:COM9
638	416	+ve	13.374	4.652	0.520	7.948	0.460	2.545
			24:COM11	35:CVOL4	16:COM3	35:CVOL4	24:COM11	28:COM15
			-13.971	0.000	-0.450	0.000	-0.662	-12.603
			18:COM5	-	26:COM13	-	18:COM5	22:COM9
	417	-ve	13.374	2.959	0.520	7.948	0.381	0.000
			24:COM11	35:CVOL4	16:COM3	35:CVOL4	24:COM11	-
			-13.971	0.000	-0.450	0.000	-0.444	-19.000
			18:COM5	-	26:COM13	-	18:COM5	22:COM9
639	417	+ve	11.146	0.858	0.359	0.060	0.264	0.000
			28:COM15	33:CVOL2	16:COM3	28:COM15	24:COM11	-
			-11.171	0.000	-0.324	-0.111	-0.456	-19.003
			22:COM9	-	26:COM13	22:COM9	18:COM5	22:COM9
	418	-ve	11.146	0.000	0.359	0.060	0.295	0.000
			28:COM15	-	16:COM3	28:COM15	24:COM11	-
			-11.171	-1.168	-0.324	-0.111	-0.418	-18.511
			22:COM9	22:COM9	26:COM13	22:COM9	18:COM5	22:COM9
640	418	+ve	10.474	0.000	0.502	0.000	0.413	0.000
			28:COM15	-	24:COM11	-	24:COM11	-
			-11.038	-3.483	-0.508	-8.152	-0.550	-18.529
			22:COM9	34:CVOL3	18:COM5	35:CVOL4	18:COM5	22:COM9
	419	-ve	10.474	0.000	0.502	0.000	0.464	2.576
			28:COM15	-	24:COM11	-	24:COM11	28:COM15
			-11.038	-5.177	-0.508	-8.152	-0.614	-10.843
			22:COM9	34:CVOL3	18:COM5	35:CVOL4	18:COM5	22:COM9
641	419	+ve	10.110	0.204	1.508	0.000	0.383	2.943
			28:COM15	28:COM15	20:COM7	-	28:COM15	28:COM15
			-13.139	-9.020	-0.360	-13.196	-1.363	-10.879
			22:COM9	22:COM9	30:COM17	34:CVOL3	22:COM9	22:COM9
	420	-ve	10.110	0.000	1.508	0.000	1.615	9.235
			28:COM15	-	20:COM7	-	16:COM3	34:CVOL3
			-13.139	-10.714	-0.360	-13.196	-0.348	0.000
			22:COM9	22:COM9	30:COM17	34:CVOL3	26:COM13	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
642	420	+ve	13.184	8.753	4.497	0.000	0.000	9.545
			28:COM1	28:COM1	16:COM3	-	-	34:CVOL
			-14.739	-19.090	-0.193	-21.394	-3.858	0.000
			22:COM9	22:COM9	26:COM1	22:COM9	18:COM5	-
	72	-ve	13.184	7.483	4.497	0.000	4.951	47.440
			28:COM1	28:COM1	16:COM3	-	16:COM3	20:COM7
			-14.739	-20.783	-0.193	-21.394	-0.591	-11.644
			22:COM9	22:COM9	26:COM1	22:COM9	26:COM1	30:COM1
649	427	+ve	22.426	11.058	1.135	12.317	2.027	6.754
			24:COM1	20:COM7	24:COM1	35:CVOL4	16:COM3	35:CVOL4
			-23.375	0.000	-1.812	0.000	-1.257	0.000
			18:COM5	-	18:COM5	-	26:COM1	-
	428	-ve	22.426	9.352	1.135	12.317	0.983	1.886
			24:COM1	20:COM7	24:COM1	35:CVOL4	24:COM1	28:COM1
			-23.375	-0.038	-1.812	0.000	-1.548	-14.349
			18:COM5	30:COM1	18:COM5	-	18:COM5	22:COM9
650	428	+ve	19.130	3.943	0.918	6.339	0.599	1.679
			16:COM3	34:CVOL3	16:COM3	35:CVOL4	24:COM1	28:COM1
			-17.594	0.000	-0.576	0.000	-1.110	-13.972
			26:COM1	-	26:COM1	-	18:COM5	22:COM9
	429	-ve	19.130	2.236	0.918	6.339	0.701	0.000
			16:COM3	34:CVOL3	16:COM3	35:CVOL4	16:COM3	-
			-17.594	0.000	-0.576	0.000	-0.537	-19.884
			26:COM1	-	26:COM1	-	26:COM1	22:COM9
651	429	+ve	15.816	1.000	0.544	0.187	0.312	0.000
			16:COM3	16:COM3	16:COM3	24:COM1	24:COM1	-
			-13.689	0.000	-0.326	-1.031	-0.709	-19.799
			26:COM1	-	26:COM1	18:COM5	18:COM5	22:COM9
	430	-ve	15.816	0.000	0.544	0.187	0.366	0.203
			16:COM3	-	16:COM3	24:COM1	16:COM3	28:COM1
			-13.689	-1.293	-0.326	-1.031	-0.333	-19.910
			26:COM1	18:COM5	26:COM1	18:COM5	26:COM1	22:COM9
652	430	+ve	11.572	0.000	0.479	0.000	0.267	0.264
			16:COM3	-	20:COM7	-	24:COM1	28:COM1
			-9.987	-2.406	-0.304	-7.328	-0.567	-20.121
			26:COM1	35:CVOL4	30:COM1	22:COM9	18:COM5	22:COM9
	431	-ve	11.572	0.000	0.479	0.000	0.416	2.758
			16:COM3	-	20:COM7	-	20:COM7	28:COM1
			-9.987	-4.112	-0.304	-7.328	-0.371	-14.323
			26:COM1	35:CVOL4	30:COM1	22:COM9	30:COM1	22:COM9
653	431	+ve	9.688	0.664	2.213	0.000	0.689	2.966
			28:COM1	28:COM1	20:COM7	-	28:COM1	28:COM1
			-9.980	-9.809	-0.756	-12.321	-1.861	-14.786
			22:COM9	22:COM9	30:COM1	34:CVOL3	22:COM9	22:COM9
	432	-ve	9.688	0.000	2.213	0.000	2.510	6.965
			28:COM1	-	20:COM7	-	20:COM7	34:CVOL3
			-9.980	-11.516	-0.756	-12.321	-0.808	0.000
			22:COM9	22:COM9	30:COM1	34:CVOL3	30:COM1	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
654	432	+ve	9.689	8.155	4.283	0.000	0.427	6.731
			20:COM7	28:COM15	16:COM3	-	28:COM15	34:CVOL3
			-8.033	-26.388	-0.711	-23.760	-4.020	0.000
			30:COM17	22:COM9	26:COM13	22:COM9	22:COM9	-
	75	-ve	9.689	6.875	4.283	0.000	4.540	59.466
			20:COM7	28:COM15	16:COM3	-	16:COM3	20:COM7
			-8.033	-28.094	-0.711	-23.760	-1.087	-11.647
			30:COM17	22:COM9	26:COM13	22:COM9	26:COM13	30:COM17
655	433	+ve	19.313	3.913	1.137	2.060	1.166	1.337
			16:COM3	20:COM7	16:COM3	16:COM3	16:COM3	28:COM15
			-18.543	-2.317	-1.107	-0.552	-1.052	-2.292
			26:COM13	30:COM17	26:COM13	26:COM13	26:COM13	22:COM9
	434	-ve	19.313	2.216	1.137	2.060	1.200	7.130
			16:COM3	28:COM15	16:COM3	16:COM3	16:COM3	28:COM15
			-18.543	-3.603	-1.107	-0.552	-1.026	-8.291
			26:COM13	22:COM9	26:COM13	26:COM13	26:COM13	22:COM9
656	434	+ve	10.981	1.789	3.035	0.765	1.611	6.827
			16:COM3	28:COM15	16:COM3	20:COM7	24:COM11	28:COM15
			-8.662	-0.946	-1.844	-0.909	-2.856	-7.949
			26:COM13	22:COM9	26:COM13	30:COM17	18:COM5	22:COM9
	435	-ve	10.981	0.510	3.035	0.765	3.127	4.608
			16:COM3	28:COM15	16:COM3	20:COM7	16:COM3	28:COM15
			-8.662	-2.651	-1.844	-0.909	-2.024	-4.451
			26:COM13	22:COM9	26:COM13	30:COM17	26:COM13	22:COM9
657	435	+ve	9.367	1.207	1.838	1.323	1.708	4.438
			16:COM3	20:COM7	16:COM3	24:COM11	24:COM11	28:COM15
			-5.185	-0.172	-1.184	-1.519	-2.717	-4.400
			26:COM13	30:COM17	26:COM13	18:COM5	18:COM5	22:COM9
	436	-ve	9.367	0.000	1.838	1.323	0.915	3.797
			16:COM3	-	16:COM3	24:COM11	16:COM3	20:COM7
			-5.185	-1.853	-1.184	-1.519	-0.635	-2.858
			26:COM13	22:COM9	26:COM13	18:COM5	26:COM13	30:COM17
658	436	+ve	6.247	2.388	0.435	2.185	0.238	3.696
			20:COM7	16:COM3	16:COM3	24:COM11	24:COM11	28:COM15
			-5.195	-1.407	-0.226	-2.194	-0.398	-2.924
			30:COM17	26:COM13	26:COM13	18:COM5	18:COM5	22:COM9
	437	-ve	6.247	0.986	0.435	2.185	0.497	7.799
			20:COM7	24:COM11	16:COM3	24:COM11	16:COM3	20:COM7
			-5.195	-2.988	-0.226	-2.194	-0.246	-6.022
			30:COM17	18:COM5	26:COM13	18:COM5	26:COM13	30:COM17
659	437	+ve	13.059	0.827	0.816	3.730	0.475	7.898
			16:COM3	24:COM11	16:COM3	24:COM11	24:COM11	20:COM7
			-12.401	-0.259	-0.613	-3.873	-0.843	-6.272
			26:COM13	18:COM5	26:COM13	18:COM5	18:COM5	30:COM17
	438	-ve	13.059	0.000	0.816	3.730	0.805	9.940
			16:COM3	-	16:COM3	24:COM11	16:COM3	20:COM7
			-12.401	-1.964	-0.613	-3.873	-0.773	-6.492
			26:COM13	18:COM5	26:COM13	18:COM5	26:COM13	30:COM17

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
660	438	+ve	18.073	23.544	1.646	1.327	0.701	10.494
			24:COM1	20:COM7	20:COM7	28:COM1	28:COM1	20:COM7
			-20.207	-19.639	-0.634	-4.312	-1.513	-7.081
			18:COM5	30:COM1	30:COM1	22:COM9	22:COM9	30:COM1
	76	-ve	18.073	22.251	1.646	1.327	1.783	33.862
			24:COM1	28:COM1	20:COM7	28:COM1	16:COM3	20:COM7
			-20.207	-21.330	-0.634	-4.312	-0.600	-35.205
			18:COM5	22:COM9	30:COM1	22:COM9	26:COM1	30:COM1
661	415	+ve	3.012	4.858	0.001	0.000	0.005	1.952
			20:COM7	35:CVOL4	28:COM1	-	28:COM1	28:COM1
			0.000	0.000	-0.004	-0.618	-0.003	-4.021
			-	-	22:COM9	22:COM9	22:COM9	22:COM9
	409	-ve	3.012	0.000	0.001	0.000	0.004	7.441
			20:COM7	-	28:COM1	-	24:COM1	34:CVOL3
			0.000	-8.440	-0.004	-0.618	-0.014	0.000
			-	34:CVOL3	22:COM9	22:COM9	18:COM5	-
662	416	+ve	0.533	6.936	0.005	0.000	0.004	3.007
			28:COM1	35:CVOL4	20:COM7	-	28:COM1	20:COM7
			-0.706	0.000	-0.002	-0.611	-0.013	-0.007
			22:COM9	-	30:COM1	22:COM9	22:COM9	30:COM1
	410	-ve	0.533	0.000	0.005	0.000	0.011	1.294
			28:COM1	-	20:COM7	-	20:COM7	35:CVOL4
			-0.706	-6.339	-0.002	-0.611	-0.007	-0.059
			22:COM9	34:CVOL3	30:COM1	22:COM9	30:COM1	30:COM1
663	417	+ve	0.252	8.477	0.005	0.000	0.008	6.036
			24:COM1	34:CVOL3	16:COM3	-	24:COM1	35:CVOL4
			-1.391	0.000	-0.004	-0.275	-0.011	0.000
			18:COM5	-	26:COM1	35:CVOL4	18:COM5	-
	411	-ve	0.252	0.000	0.005	0.000	0.013	0.000
			24:COM1	-	16:COM3	-	16:COM3	-
			-1.391	-4.801	-0.004	-0.275	-0.011	-3.434
			18:COM5	35:CVOL4	26:COM1	35:CVOL4	26:COM1	22:COM9
664	418	+ve	0.586	8.469	0.005	0.197	0.013	6.428
			24:COM1	34:CVOL3	24:COM1	20:COM7	16:COM3	35:CVOL4
			-1.795	0.000	-0.006	0.000	-0.010	0.000
			18:COM5	-	18:COM5	-	26:COM1	-
	412	-ve	0.586	0.000	0.005	0.197	0.012	0.000
			24:COM1	-	24:COM1	20:COM7	24:COM1	-
			-1.795	-4.808	-0.006	0.000	-0.014	-3.127
			18:COM5	35:CVOL4	18:COM5	-	18:COM5	22:COM9
665	419	+ve	1.544	6.548	0.005	0.596	0.018	3.379
			24:COM1	35:CVOL4	24:COM1	20:COM7	16:COM3	20:COM7
			-1.551	0.000	-0.008	0.000	-0.008	0.000
			18:COM5	-	18:COM5	-	26:COM1	-
	413	-ve	1.544	0.000	0.005	0.596	0.013	3.524
			24:COM1	-	24:COM1	20:COM7	24:COM1	35:CVOL4
			-1.551	-6.723	-0.008	0.000	-0.018	0.000
			18:COM5	34:CVOL3	18:COM5	-	18:COM5	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
666	420	+ve	4.220	4.141	0.005	0.687	0.007	1.937
			16:COM3	20:COM7	16:COM3	20:COM7	16:COM3	28:COM1
			-0.092	0.000	-0.003	0.000	-0.009	-4.388
			26:COM1	-	26:COM1	-	26:COM1	22:COM9
	414	-ve	4.220	0.000	0.005	0.687	0.016	10.928
			16:COM3	-	16:COM3	20:COM7	16:COM3	34:CVOL
			-0.092	-9.263	-0.003	0.000	-0.009	0.000
			26:COM1	34:CVOL	26:COM1	-	26:COM1	-
667	427	+ve	3.171	8.898	0.001	0.036	0.008	6.210
			16:COM3	35:CVOL	16:COM3	28:COM1	24:COM1	20:COM7
			0.000	0.000	-0.002	-0.305	-0.010	-0.986
			-	-	26:COM1	22:COM9	18:COM5	30:COM1
	5904	-ve	3.171	0.000	0.001	0.036	0.001	6.811
			16:COM3	-	16:COM3	28:COM1	28:COM1	20:COM7
			0.000	-9.452	-0.002	-0.305	-0.005	0.000
			-	34:CVOL	26:COM1	22:COM9	22:COM9	-
668	428	+ve	1.059	9.322	0.004	0.002	0.003	3.269
			24:COM1	35:CVOL	20:COM7	28:COM1	28:COM1	20:COM7
			-0.821	0.000	-0.001	-0.271	-0.013	0.000
			18:COM5	-	30:COM1	22:COM9	22:COM9	-
	5899	-ve	1.059	0.000	0.004	0.002	0.010	2.178
			24:COM1	-	20:COM7	28:COM1	20:COM7	35:CVOL
			-0.821	-9.023	-0.001	-0.271	-0.003	0.000
			18:COM5	34:CVOL	30:COM1	22:COM9	30:COM1	-
669	429	+ve	0.540	9.423	0.003	0.000	0.005	2.593
			24:COM1	35:CVOL	20:COM7	-	28:COM1	20:COM7
			-1.172	0.000	-0.002	-0.115	-0.009	0.000
			18:COM5	-	30:COM1	22:COM9	22:COM9	-
	5900	-ve	0.540	0.000	0.003	0.000	0.008	1.099
			24:COM1	-	20:COM7	-	20:COM7	20:COM7
			-1.172	-8.920	-0.002	-0.115	-0.005	-0.644
			18:COM5	34:CVOL	30:COM1	22:COM9	30:COM1	30:COM1
670	430	+ve	0.391	9.116	0.002	0.096	0.010	2.167
			24:COM1	34:CVOL	28:COM1	20:COM7	20:COM7	20:COM7
			-0.905	0.000	-0.003	-0.018	-0.007	0.000
			18:COM5	-	22:COM9	30:COM1	30:COM1	-
	5901	-ve	0.391	0.000	0.002	0.096	0.007	2.599
			24:COM1	-	28:COM1	20:COM7	28:COM1	20:COM7
			-0.905	-9.225	-0.003	-0.018	-0.010	0.000
			18:COM5	35:CVOL	22:COM9	30:COM1	22:COM9	-
671	431	+ve	0.527	8.558	0.002	0.274	0.016	2.990
			28:COM1	34:CVOL	28:COM1	20:COM7	20:COM7	20:COM7
			-0.131	0.000	-0.005	-0.014	-0.008	-0.555
			22:COM9	-	22:COM9	30:COM1	30:COM1	30:COM1
	5902	-ve	0.527	0.000	0.002	0.274	0.008	6.276
			28:COM1	-	28:COM1	20:COM7	28:COM1	35:CVOL
			-0.131	-9.787	-0.005	-0.014	-0.015	0.000
			22:COM9	35:CVOL	22:COM9	30:COM1	22:COM9	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
672	432	+ve	2.485	8.134	0.007	0.318	0.017	6.063
			20:COM7	34:CVOL3	20:COM7	20:COM7	28:COM15	20:COM7
			0.000	0.000	-0.005	-0.026	-0.022	-2.004
			-	-	30:COM17	30:COM17	22:COM9	30:COM17
	5903	-ve	2.485	0.000	0.007	0.318	0.022	10.453
			20:COM7	-	20:COM7	20:COM7	20:COM7	35:CVOL4
			0.000	-10.213	-0.005	-0.026	-0.015	0.000
			-	35:CVOL4	30:COM17	30:COM17	30:COM17	-
689	439	+ve	4.201	25.256	0.280	0.000	0.130	14.036
			16:COM3	34:CVOL3	24:COM11	-	16:COM3	16:COM3
			0.000	0.000	-0.090	-6.268	-0.332	0.000
			-	-	18:COM5	22:COM9	26:COM13	-
	440	-ve	4.201	23.232	0.280	0.000	0.244	0.000
			16:COM3	34:CVOL3	24:COM11	-	28:COM15	-
			0.000	0.000	-0.090	-6.268	-0.075	-36.340
			-	-	18:COM5	22:COM9	22:COM9	34:CVOL3
690	440	+ve	3.238	8.126	0.191	0.854	0.155	0.000
			16:COM3	16:COM3	24:COM11	20:COM7	16:COM3	-
			0.000	0.000	-0.131	-0.451	-0.183	-36.141
			-	-	18:COM5	30:COM17	26:COM13	34:CVOL3
	441	-ve	3.238	6.102	0.191	0.854	0.195	0.000
			16:COM3	16:COM3	24:COM11	20:COM7	16:COM3	-
			0.000	0.000	-0.131	-0.451	-0.106	-49.484
			-	-	18:COM5	30:COM17	26:COM13	34:CVOL3
691	441	+ve	3.135	0.000	0.309	4.823	0.157	0.000
			20:COM7	-	16:COM3	34:CVOL3	24:COM11	-
			0.000	-7.892	-0.199	0.000	-0.269	-49.133
			-	35:CVOL4	26:COM13	-	18:COM5	34:CVOL3
	442	-ve	3.135	0.000	0.309	4.823	0.338	0.000
			20:COM7	-	16:COM3	34:CVOL3	16:COM3	-
			0.000	-9.916	-0.199	0.000	-0.235	-31.778
			-	35:CVOL4	26:COM13	-	26:COM13	34:CVOL3
692	442	+ve	4.723	0.000	0.373	6.912	0.423	0.000
			20:COM7	-	20:COM7	20:COM7	28:COM15	-
			-0.272	-22.656	-0.560	0.000	-0.259	-31.761
			30:COM17	34:CVOL3	30:COM17	-	22:COM9	34:CVOL3
	443	-ve	4.723	0.000	0.373	6.912	0.467	16.922
			20:COM7	-	20:COM7	20:COM7	20:COM7	16:COM3
			-0.272	-24.680	-0.560	0.000	-0.669	0.000
			30:COM17	34:CVOL3	30:COM17	-	30:COM17	-
693	443	+ve	3.267	0.000	0.345	9.814	0.771	16.725
			20:COM7	-	24:COM11	20:COM7	16:COM3	16:COM3
			-0.393	-38.043	-0.939	-0.711	-0.219	0.000
			30:COM17	34:CVOL3	18:COM5	30:COM17	26:COM13	-
	86	-ve	3.267	0.000	0.345	9.814	0.456	90.340
			20:COM7	-	24:COM11	20:COM7	24:COM11	34:CVOL3
			-0.393	-40.067	-0.939	-0.711	-1.062	0.000
			30:COM17	34:CVOL3	18:COM5	30:COM17	18:COM5	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
694	444	+ve	30.319	3.673	0.632	0.000	1.566	2.835
			20:COM7	35:CVOL4	28:COM15	-	16:COM3	16:COM3
			-22.146	0.000	-1.405	-12.387	-0.688	0.000
			30:COM17	-	22:COM9	34:CVOL3	26:COM13	-
	445	-ve	30.319	0.299	0.632	0.000	1.838	0.123
			20:COM7	35:CVOL4	28:COM15	-	28:COM15	28:COM15
			-22.146	-0.666	-1.405	-12.387	-2.467	-1.312
			30:COM17	26:COM13	22:COM9	34:CVOL3	22:COM9	22:COM9
695	445	+ve	32.509	2.174	0.000	0.000	1.631	0.719
			20:COM7	20:COM7	-	-	20:COM7	28:COM15
			-14.352	0.000	-0.559	-4.814	-0.420	-0.212
			30:COM17	-	22:COM9	35:CVOL4	30:COM17	22:COM9
	446	-ve	32.509	0.000	0.000	0.000	0.998	0.314
			20:COM7	-	-	-	28:COM15	24:COM17
			-14.352	-1.834	-0.559	-4.814	-1.027	-0.334
			30:COM17	33:CVOL2	22:COM9	35:CVOL4	22:COM9	18:COM5
696	446	+ve	26.851	1.709	0.427	3.981	0.533	0.319
			20:COM7	32:CVOL1	20:COM7	20:COM7	20:COM7	28:COM15
			-10.821	0.000	-0.213	0.000	-0.343	-0.488
			30:COM17	-	30:COM17	-	30:COM17	22:COM9
	447	-ve	26.851	0.000	0.427	3.981	1.339	0.841
			20:COM7	-	20:COM7	20:COM7	20:COM7	16:COM3
			-10.821	-2.358	-0.213	0.000	-0.732	-0.043
			30:COM17	22:COM9	30:COM17	-	30:COM17	26:COM13
697	447	+ve	17.555	0.501	0.251	11.229	0.544	0.039
			16:COM3	28:COM15	20:COM7	34:CVOL3	16:COM3	24:COM17
			-16.135	-0.662	-0.411	0.000	-0.199	-1.306
			26:COM13	35:CVOL4	30:COM17	-	26:COM13	18:COM5
	448	-ve	17.555	0.000	0.251	11.229	0.638	3.385
			16:COM3	-	20:COM7	34:CVOL3	20:COM7	20:COM7
			-16.135	-4.035	-0.411	0.000	-0.604	0.000
			26:COM13	35:CVOL4	30:COM17	-	30:COM17	-
698	448	+ve	7.058	8.316	3.992	3.055	0.038	4.645
			28:COM15	16:COM3	16:COM3	20:COM7	28:COM15	16:COM3
			-12.339	-3.299	-1.005	-0.975	-3.785	-2.151
			22:COM9	26:COM13	26:COM13	30:COM17	22:COM9	26:COM13
	97	-ve	7.058	4.943	3.992	3.055	4.015	6.748
			28:COM15	16:COM3	16:COM3	20:COM7	16:COM3	24:COM17
			-12.339	-5.829	-1.005	-0.975	-1.938	-8.282
			22:COM9	26:COM13	26:COM13	30:COM17	26:COM13	18:COM5
699	449	+ve	8.947	3.961	0.493	0.000	0.964	3.289
			16:COM3	34:CVOL3	24:COM11	-	16:COM3	16:COM3
			-7.139	0.000	-0.578	-11.448	-0.458	0.000
			26:COM13	-	18:COM5	34:CVOL3	26:COM13	-
	450	-ve	8.947	0.588	0.493	0.000	0.622	0.000
			16:COM3	34:CVOL3	24:COM11	-	16:COM3	-
			-7.139	-0.458	-0.578	-11.448	-0.280	-1.239
			26:COM13	33:CVOL2	18:COM5	34:CVOL3	26:COM13	35:CVOL4

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
700	450	+ve	12.213	2.264	0.146	0.000	0.776	0.795
			20:COM7	16:COM3	24:COM11	-	35:CVOL4	16:COM3
			0.000	0.000	-0.511	-4.260	0.000	-0.140
			-	-	18:COM5	34:CVOL3	-	26:COM13
	451	-ve	12.213	0.000	0.146	0.000	0.623	0.302
			20:COM7	-	24:COM11	-	16:COM3	24:COM11
			0.000	-1.791	-0.511	-4.260	-0.455	-0.331
			-	18:COM5	18:COM5	34:CVOL3	26:COM13	18:COM5
701	451	+ve	12.351	1.758	0.581	4.236	0.623	0.273
			16:COM3	16:COM3	16:COM3	34:CVOL3	16:COM3	24:COM11
			0.000	0.000	-0.338	0.000	-0.292	-0.339
			-	-	26:COM13	-	26:COM13	18:COM5
	452	-ve	12.351	0.000	0.581	4.236	1.036	0.840
			16:COM3	-	16:COM3	34:CVOL3	20:COM7	16:COM3
			0.000	-2.291	-0.338	0.000	-0.232	-0.118
			-	18:COM5	26:COM13	-	30:COM17	26:COM13
702	452	+ve	9.686	0.434	0.898	11.409	0.677	0.000
			16:COM3	33:CVOL2	16:COM3	34:CVOL3	16:COM3	-
			-8.147	-0.615	-0.818	0.000	-0.459	-1.246
			26:COM13	34:CVOL3	26:COM13	-	26:COM13	18:COM5
	453	-ve	9.686	0.000	0.898	11.409	1.364	3.292
			16:COM3	-	16:COM3	34:CVOL3	16:COM3	16:COM3
			-8.147	-3.988	-0.818	0.000	-0.990	0.000
			26:COM13	34:CVOL3	26:COM13	-	26:COM13	-
703	453	+ve	0.000	8.208	4.735	3.385	0.862	4.606
			-	16:COM3	16:COM3	20:COM7	28:COM15	16:COM3
			-4.893	-4.353	-1.627	-1.159	-5.026	-2.770
			35:CVOL4	26:COM13	26:COM13	30:COM17	22:COM9	26:COM13
	99	-ve	0.000	5.096	4.735	3.385	4.337	8.202
			-	24:COM11	16:COM3	20:COM7	16:COM3	16:COM3
			-4.893	-7.145	-1.627	-1.159	-2.439	-8.127
			35:CVOL4	18:COM5	26:COM13	30:COM17	26:COM13	26:COM13
704	454	+ve	12.041	4.009	0.645	0.000	1.023	3.319
			16:COM3	34:CVOL3	24:COM11	-	16:COM3	16:COM3
			-8.482	0.000	-0.724	-11.277	-0.610	0.000
			26:COM13	-	18:COM5	34:CVOL3	26:COM13	-
	455	-ve	12.041	0.636	0.645	0.000	0.744	0.000
			16:COM3	34:CVOL3	24:COM11	-	16:COM3	-
			-8.482	-0.423	-0.724	-11.277	-0.485	-1.270
			26:COM13	33:CVOL2	18:COM5	34:CVOL3	26:COM13	18:COM5
705	455	+ve	15.733	2.287	0.421	0.000	0.813	0.814
			20:COM7	16:COM3	24:COM11	-	16:COM3	16:COM3
			0.000	0.000	-0.613	-4.026	-0.141	-0.125
			-	-	18:COM5	34:CVOL3	26:COM13	26:COM13
	456	-ve	15.733	0.000	0.421	0.000	0.901	0.253
			20:COM7	-	24:COM11	-	16:COM3	24:COM11
			0.000	-1.760	-0.613	-4.026	-0.603	-0.358
			-	33:CVOL2	18:COM5	34:CVOL3	26:COM13	18:COM5

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
706	456	+ve	14.958	1.779	0.981	4.610	0.529	0.282
			20:COM7	32:CVOL1	16:COM3	34:CVOL3	16:COM3	24:COM1
			0.000	0.000	-0.434	0.000	-0.553	-0.349
			-	-	26:COM1	-	26:COM1	18:COM5
	457	-ve	14.958	0.000	0.981	4.610	1.399	0.755
			20:COM7	-	16:COM3	34:CVOL3	16:COM3	16:COM3
			0.000	-2.253	-0.434	0.000	-0.356	-0.118
			-	18:COM5	26:COM1	-	26:COM1	26:COM1
707	457	+ve	8.482	0.581	1.472	12.010	0.417	0.000
			20:COM7	33:CVOL2	16:COM3	34:CVOL3	24:COM11	-
			-2.433	-0.380	-0.632	0.000	-0.825	-1.144
			30:COM1	34:CVOL3	26:COM1	-	18:COM5	34:CVOL3
	458	-ve	8.482	0.000	1.472	12.010	2.071	2.981
			20:COM7	-	16:COM3	34:CVOL3	16:COM3	16:COM3
			-2.433	-3.754	-0.632	0.000	-0.839	0.000
			30:COM1	34:CVOL3	26:COM1	-	26:COM1	-
708	458	+ve	5.031	6.878	5.841	5.175	0.093	3.591
			24:COM1	16:COM3	16:COM3	20:COM7	24:COM11	16:COM3
			-5.771	-3.246	-1.396	-0.547	-5.311	-2.206
			18:COM5	26:COM1	26:COM1	30:COM1	18:COM5	26:COM1
	100	-ve	5.031	3.793	5.841	5.175	6.087	6.590
			24:COM1	24:COM11	16:COM3	20:COM7	16:COM3	24:COM1
			-5.771	-6.064	-1.396	-0.547	-2.636	-6.532
			18:COM5	18:COM5	26:COM1	30:COM1	26:COM1	18:COM5
709	459	+ve	7.207	23.419	0.361	0.000	0.572	14.781
			16:COM3	34:CVOL3	28:COM1	-	16:COM3	16:COM3
			-4.905	0.000	-0.430	-5.050	-0.506	0.000
			26:COM1	-	22:COM9	22:COM9	26:COM1	-
	460	-ve	7.207	21.395	0.361	0.000	0.326	0.000
			16:COM3	34:CVOL3	28:COM1	-	28:COM1	-
			-4.905	0.000	-0.430	-5.050	-0.393	-31.414
			26:COM1	-	22:COM9	22:COM9	22:COM9	34:CVOL3
710	460	+ve	7.799	10.543	0.771	0.000	0.277	0.000
			16:COM3	20:COM7	20:COM7	-	28:COM1	-
			-5.454	0.000	-0.304	-2.367	-0.509	-27.823
			26:COM1	-	30:COM1	22:COM9	22:COM9	34:CVOL3
	461	-ve	7.799	8.520	0.771	0.000	1.000	0.000
			16:COM3	20:COM7	20:COM7	-	20:COM7	-
			-5.454	0.000	-0.304	-2.367	-0.322	-46.262
			26:COM1	-	30:COM1	22:COM9	30:COM1	34:CVOL3
711	461	+ve	3.453	0.000	0.797	0.921	0.134	0.000
			24:COM1	-	20:COM7	16:COM3	28:COM1	-
			-4.506	-4.351	-0.143	0.000	-0.860	-43.309
			18:COM5	18:COM5	30:COM1	-	22:COM9	34:CVOL3
	462	-ve	3.453	0.000	0.797	0.921	0.696	0.000
			24:COM1	-	20:COM7	16:COM3	20:COM7	-
			-4.506	-6.375	-0.143	0.000	-0.147	-33.999
			18:COM5	18:COM5	30:COM1	-	30:COM1	34:CVOL3

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
712	462	+ve	3.688	0.000	0.500	4.721	0.261	0.000
			24:COM1	-	16:COM3	20:COM7	28:COM1	-
			-3.439	-19.587	-0.411	0.000	-0.450	-30.786
			18:COM5	34:CVOL3	26:COM1	-	22:COM9	34:CVOL3
	463	-ve	3.688	0.000	0.500	4.721	0.535	12.748
			24:COM1	-	16:COM3	20:COM7	16:COM3	16:COM3
			-3.439	-21.611	-0.411	0.000	-0.550	0.000
			18:COM5	34:CVOL3	26:COM1	-	26:COM1	-
713	463	+ve	5.013	0.000	1.571	11.035	1.680	16.519
			16:COM3	-	24:COM1	20:COM7	16:COM3	16:COM3
			-4.730	-37.768	-2.045	0.000	-1.253	0.000
			26:COM1	34:CVOL3	18:COM5	-	26:COM1	-
	84	-ve	5.013	0.000	1.571	11.035	1.811	89.425
			16:COM3	-	24:COM1	20:COM7	24:COM1	34:CVOL3
			-4.730	-39.792	-2.045	0.000	-2.310	0.000
			26:COM1	34:CVOL3	18:COM5	-	18:COM5	-
714	464	+ve	6.646	23.340	0.159	0.000	0.364	14.098
			16:COM3	34:CVOL3	28:COM1	-	20:COM7	16:COM3
			-2.692	0.000	-0.270	-5.099	-0.250	-0.019
			26:COM1	-	22:COM9	22:COM9	30:COM1	26:COM1
	465	-ve	6.646	21.316	0.159	0.000	0.065	0.000
			16:COM3	34:CVOL3	28:COM1	-	28:COM1	-
			-2.692	0.000	-0.270	-5.099	-0.165	-32.795
			26:COM1	-	22:COM9	22:COM9	34:CVOL3	34:CVOL3
715	465	+ve	6.552	7.889	0.061	0.810	0.155	0.000
			16:COM3	16:COM3	24:COM1	20:COM7	35:CVOL4	-
			-4.134	0.000	-0.202	-0.302	0.000	-32.609
			26:COM1	-	18:COM5	30:COM1	-	34:CVOL3
	466	-ve	6.552	5.865	0.061	0.810	0.141	0.000
			16:COM3	16:COM3	24:COM1	20:COM7	24:COM1	-
			-4.134	0.000	-0.202	-0.302	-0.248	-45.306
			26:COM1	-	18:COM5	30:COM1	18:COM5	34:CVOL3
716	466	+ve	7.354	0.000	0.207	3.741	0.108	0.000
			16:COM3	-	16:COM3	34:CVOL3	24:COM1	-
			-4.940	-7.005	-0.136	0.000	-0.111	-45.108
			26:COM1	18:COM5	26:COM1	-	18:COM5	34:CVOL3
	467	-ve	7.354	0.000	0.207	3.741	0.292	0.000
			16:COM3	-	16:COM3	34:CVOL3	16:COM3	-
			-4.940	-9.029	-0.136	0.000	-0.156	-29.530
			26:COM1	18:COM5	26:COM1	-	26:COM1	34:CVOL3
717	467	+ve	8.436	0.000	0.369	5.686	0.350	0.000
			16:COM3	-	20:COM7	20:COM7	28:COM1	-
			-5.613	-20.816	-0.459	0.000	-0.356	-29.451
			26:COM1	34:CVOL3	30:COM1	-	22:COM9	34:CVOL3
	468	-ve	8.436	0.000	0.369	5.686	0.378	15.939
			16:COM3	-	20:COM7	20:COM7	20:COM7	16:COM3
			-5.613	-22.840	-0.459	0.000	-0.560	0.000
			26:COM1	34:CVOL3	30:COM1	-	30:COM1	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
718	468	+ve	5.699	0.000	0.321	8.415	0.517	15.776
			16:COM3	-	20:COM7	20:COM7	28:COM15	16:COM3
			-5.212	-35.240	-0.667	-1.680	-0.186	0.000
			26:COM13	34:CVOL3	30:COM17	30:COM17	22:COM9	-
	88	-ve	5.699	0.000	0.321	8.415	0.444	83.640
			16:COM3	-	20:COM7	20:COM7	20:COM7	34:CVOL3
			-5.212	-37.264	-0.667	-1.680	-0.787	0.000
			26:COM13	34:CVOL3	30:COM17	30:COM17	30:COM17	-
719	469	+ve	13.390	22.759	0.430	0.130	0.379	15.517
			16:COM3	34:CVOL3	28:COM15	28:COM15	20:COM7	16:COM3
			-10.530	0.000	-0.309	-5.518	-0.542	-0.689
			26:COM13	-	22:COM9	22:COM9	30:COM17	26:COM13
	470	-ve	13.390	20.735	0.430	0.130	0.297	0.000
			16:COM3	34:CVOL3	28:COM15	28:COM15	28:COM15	-
			-10.530	0.000	-0.309	-5.518	-0.224	-31.154
			26:COM13	-	22:COM9	22:COM9	22:COM9	34:CVOL3
720	470	+ve	13.966	8.661	0.102	0.845	0.261	0.000
			16:COM3	16:COM3	24:COM11	28:COM15	16:COM3	-
			-12.452	0.000	-0.225	-1.178	-0.103	-31.009
			26:COM13	-	18:COM5	22:COM9	26:COM13	34:CVOL3
	471	-ve	13.966	6.637	0.102	0.845	0.096	0.000
			16:COM3	16:COM3	24:COM11	28:COM15	24:COM11	-
			-12.452	0.000	-0.225	-1.178	-0.178	-44.256
			26:COM13	-	18:COM5	22:COM9	18:COM5	34:CVOL3
721	471	+ve	16.212	0.000	0.389	2.613	0.378	0.000
			16:COM3	-	16:COM3	35:CVOL4	24:COM11	-
			-14.895	-6.333	-0.393	0.000	-0.316	-44.105
			26:COM13	18:COM5	26:COM13	-	18:COM5	34:CVOL3
	472	-ve	16.212	0.000	0.389	2.613	0.444	0.000
			16:COM3	-	16:COM3	35:CVOL4	16:COM3	-
			-14.895	-8.357	-0.393	0.000	-0.389	-30.887
			26:COM13	18:COM5	26:COM13	-	26:COM13	22:COM9
722	472	+ve	19.699	0.000	0.613	4.913	0.901	0.000
			16:COM3	-	24:COM11	20:COM7	16:COM3	-
			-18.046	-19.710	-1.019	0.000	-0.593	-30.931
			26:COM13	34:CVOL3	18:COM5	-	26:COM13	22:COM9
	473	-ve	19.699	0.000	0.613	4.913	0.602	13.824
			16:COM3	-	24:COM11	20:COM7	24:COM11	16:COM3
			-18.046	-21.734	-1.019	0.000	-1.086	-0.310
			26:COM13	34:CVOL3	18:COM5	-	18:COM5	26:COM13
723	473	+ve	20.071	0.000	0.000	9.444	1.035	13.711
			24:COM11	-	-	20:COM7	16:COM3	16:COM3
			-22.455	-34.624	-1.253	-2.366	0.000	-0.420
			18:COM5	34:CVOL3	18:COM5	30:COM17	-	26:COM13
	90	-ve	20.071	0.000	0.000	9.444	0.036	79.509
			24:COM11	-	-	20:COM7	24:COM11	34:CVOL3
			-22.455	-36.648	-1.253	-2.366	-1.469	0.000
			18:COM5	34:CVOL3	18:COM5	30:COM17	18:COM5	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
724	474	+ve	13.608	3.975	0.546	0.000	1.225	3.314
			20:COM7	34:CVOL3	28:COM15	-	16:COM3	16:COM3
			-10.141	0.000	-0.746	-11.453	-0.477	0.000
			30:COM17	-	22:COM9	34:CVOL3	26:COM13	-
	475	-ve	13.608	0.602	0.546	0.000	0.878	0.000
			20:COM7	34:CVOL3	28:COM15	-	20:COM7	-
			-10.141	-0.495	-0.746	-11.453	-0.521	-1.277
			30:COM17	26:COM13	22:COM9	34:CVOL3	30:COM17	35:CVOL4
725	475	+ve	17.037	2.228	0.207	0.000	0.667	0.737
			20:COM7	16:COM3	28:COM15	-	35:CVOL4	16:COM3
			-3.048	0.000	-0.440	-4.260	0.000	-0.123
			30:COM17	-	22:COM9	34:CVOL3	-	26:COM13
	476	-ve	17.037	0.000	0.207	0.000	0.768	0.310
			20:COM7	-	28:COM15	-	20:COM7	24:COM17
			-3.048	-1.808	-0.440	-4.260	-0.486	-0.320
			30:COM17	33:CVOL2	22:COM9	34:CVOL3	30:COM17	18:COM5
726	476	+ve	15.437	1.738	0.637	4.219	0.558	0.246
			16:COM3	32:CVOL1	20:COM7	34:CVOL3	20:COM7	24:COM17
			-2.592	0.000	-0.401	0.000	-0.266	-0.327
			26:COM13	-	30:COM17	-	30:COM17	18:COM5
	477	-ve	15.437	0.000	0.637	4.219	1.133	0.858
			16:COM3	-	20:COM7	34:CVOL3	20:COM7	16:COM3
			-2.592	-2.294	-0.401	0.000	-0.381	-0.087
			26:COM13	18:COM5	30:COM17	-	30:COM17	26:COM13
727	477	+ve	10.864	0.446	0.605	11.376	0.718	0.012
			16:COM3	33:CVOL2	16:COM3	34:CVOL3	20:COM7	24:COM17
			-11.102	-0.599	-0.611	0.000	-0.172	-1.233
			26:COM13	34:CVOL3	26:COM13	-	30:COM17	18:COM5
	478	-ve	10.864	0.000	0.605	11.376	1.180	3.266
			16:COM3	-	16:COM3	34:CVOL3	16:COM3	34:CVOL3
			-11.102	-3.972	-0.611	0.000	-0.645	0.000
			26:COM13	34:CVOL3	26:COM13	-	26:COM13	-
728	478	+ve	0.565	8.526	4.293	3.288	0.538	4.783
			28:COM15	16:COM3	16:COM3	20:COM7	28:COM15	16:COM3
			-7.798	-4.075	-1.383	-1.179	-4.429	-2.603
			22:COM9	26:COM13	26:COM13	30:COM17	22:COM9	26:COM13
	98	-ve	0.565	5.244	4.293	3.288	4.142	7.809
			28:COM15	24:COM11	16:COM3	20:COM7	16:COM3	24:COM17
			-7.798	-6.697	-1.383	-1.179	-2.357	-8.553
			22:COM9	18:COM5	26:COM13	30:COM17	26:COM13	18:COM5
729	459	+ve	0.733	5.295	0.013	0.107	0.020	5.748
			24:COM17	34:CVOL3	16:COM3	20:COM7	24:COM11	34:CVOL3
			-1.902	0.000	-0.008	0.000	-0.030	0.000
			18:COM5	-	26:COM13	-	18:COM5	-
	483	-ve	0.733	0.000	0.013	0.107	0.029	12.048
			24:COM17	-	16:COM3	20:COM7	16:COM3	34:CVOL3
			-1.902	-7.981	-0.008	0.000	-0.018	0.000
			18:COM5	35:CVOL4	26:COM13	-	26:COM13	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
730	460	+ve	1.966	4.416	0.015	0.105	0.027	5.079
			16:COM3	34:CVOL3	16:COM3	20:COM7	24:COM11	20:COM7
			-1.489	0.000	-0.011	0.000	-0.035	0.000
			26:COM13	-	26:COM13	-	18:COM5	-
	482	-ve	1.966	0.000	0.015	0.105	0.034	15.423
			16:COM3	-	16:COM3	20:COM7	16:COM3	35:CVOL4
			-1.489	-8.865	-0.011	0.000	-0.026	0.000
			26:COM13	35:CVOL4	26:COM13	-	26:COM13	-
731	461	+ve	2.356	3.995	0.017	0.023	0.029	4.529
			16:COM3	34:CVOL3	16:COM3	16:COM3	24:COM11	20:COM7
			-1.247	0.000	-0.012	-0.005	-0.042	0.000
			26:COM13	-	26:COM13	26:COM13	18:COM5	-
	481	-ve	2.356	0.000	0.017	0.023	0.039	16.852
			16:COM3	-	16:COM3	16:COM3	16:COM3	35:CVOL4
			-1.247	-9.286	-0.012	-0.005	-0.028	0.000
			26:COM13	35:CVOL4	26:COM13	26:COM13	26:COM13	-
732	462	+ve	2.125	4.297	0.016	0.000	0.028	5.051
			16:COM3	34:CVOL3	16:COM3	-	24:COM11	20:COM7
			-1.167	0.000	-0.012	-0.093	-0.037	0.000
			26:COM13	-	26:COM13	22:COM9	18:COM5	-
	480	-ve	2.125	0.000	0.016	0.000	0.036	15.876
			16:COM3	-	16:COM3	-	16:COM3	35:CVOL4
			-1.167	-8.983	-0.012	-0.093	-0.027	0.000
			26:COM13	35:CVOL4	26:COM13	22:COM9	26:COM13	-
733	463	+ve	1.245	5.346	0.012	0.000	0.024	6.120
			16:COM3	34:CVOL3	16:COM3	-	24:COM11	34:CVOL3
			-1.496	0.000	-0.010	-0.144	-0.029	0.000
			26:COM13	-	26:COM13	22:COM9	18:COM5	-
	479	-ve	1.245	0.000	0.012	0.000	0.026	12.187
			16:COM3	-	16:COM3	-	16:COM3	35:CVOL4
			-1.496	-7.930	-0.010	-0.144	-0.022	0.000
			26:COM13	35:CVOL4	26:COM13	22:COM9	26:COM13	-
734	439	+ve	0.409	5.669	0.011	0.184	0.025	7.373
			28:COM15	34:CVOL3	24:COM11	20:COM7	16:COM3	34:CVOL3
			-1.229	0.000	-0.010	0.000	-0.027	0.000
			22:COM9	-	18:COM5	-	26:COM13	-
	488	-ve	0.409	0.000	0.011	0.184	0.025	11.924
			28:COM15	-	24:COM11	20:COM7	24:COM11	35:CVOL4
			-1.229	-7.607	-0.010	0.000	-0.024	0.000
			22:COM9	35:CVOL4	18:COM5	-	18:COM5	-
735	440	+ve	0.973	4.406	0.013	0.132	0.029	5.969
			20:COM7	34:CVOL3	16:COM3	20:COM7	24:COM11	20:COM7
			-0.397	0.000	-0.012	0.000	-0.031	0.000
			30:COM17	-	26:COM13	-	18:COM5	-
	487	-ve	0.973	0.000	0.013	0.132	0.030	16.244
			20:COM7	-	16:COM3	20:COM7	24:COM11	35:CVOL4
			-0.397	-8.873	-0.012	0.000	-0.029	0.000
			30:COM17	35:CVOL4	26:COM13	-	18:COM5	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
736	441	+ve	1.049	3.714	0.014	0.002	0.029	4.529
			20:COM7	34:CVOL3	16:COM3	24:COM1	24:COM1	20:COM7
			-0.157	0.000	-0.012	-0.024	-0.032	0.000
			30:COM1	-	26:COM1	18:COM5	18:COM5	-
	486	-ve	1.049	0.000	0.014	0.002	0.032	17.917
			20:COM7	-	16:COM3	24:COM1	16:COM3	35:CVOL4
			-0.157	-9.565	-0.012	-0.024	-0.029	0.000
			30:COM1	35:CVOL4	26:COM1	18:COM5	26:COM1	-
737	442	+ve	0.839	3.870	0.013	0.000	0.027	4.346
			20:COM7	34:CVOL3	16:COM3	-	24:COM1	20:COM7
			-0.181	0.000	-0.011	-0.141	-0.031	-0.114
			30:COM1	-	26:COM1	22:COM9	18:COM5	30:COM1
	485	-ve	0.839	0.000	0.013	0.000	0.031	16.728
			20:COM7	-	16:COM3	-	16:COM3	35:CVOL4
			-0.181	-9.411	-0.011	-0.141	-0.027	0.000
			30:COM1	35:CVOL4	26:COM1	22:COM9	26:COM1	-
738	443	+ve	0.053	4.895	0.010	0.000	0.023	5.153
			28:COM1	34:CVOL3	16:COM3	-	24:COM1	20:COM7
			-0.916	0.000	-0.009	-0.166	-0.025	0.000
			22:COM9	-	26:COM1	22:COM9	18:COM5	-
	484	-ve	0.053	0.000	0.010	0.000	0.024	12.817
			28:COM1	-	16:COM3	-	16:COM3	35:CVOL4
			-0.916	-8.384	-0.009	-0.166	-0.021	0.000
			22:COM9	35:CVOL4	26:COM1	22:COM9	26:COM1	-
739	464	+ve	0.426	5.315	0.010	0.147	0.023	6.277
			24:COM1	34:CVOL3	24:COM1	20:COM7	16:COM3	20:COM7
			-1.239	0.000	-0.009	0.000	-0.026	0.000
			18:COM5	-	18:COM5	-	26:COM1	-
	493	-ve	0.426	0.000	0.010	0.147	0.024	12.222
			24:COM1	-	24:COM1	20:COM7	24:COM1	35:CVOL4
			-1.239	-7.963	-0.009	0.000	-0.021	0.000
			18:COM5	35:CVOL4	18:COM5	-	18:COM5	-
740	465	+ve	1.116	4.243	0.012	0.106	0.027	5.173
			16:COM3	34:CVOL3	16:COM3	20:COM7	24:COM1	20:COM7
			-0.432	0.000	-0.011	0.000	-0.029	0.000
			26:COM1	-	26:COM1	-	18:COM5	-
	492	-ve	1.116	0.000	0.012	0.106	0.029	15.943
			16:COM3	-	16:COM3	20:COM7	24:COM1	35:CVOL4
			-0.432	-9.037	-0.011	0.000	-0.027	0.000
			26:COM1	35:CVOL4	26:COM1	-	18:COM5	-
741	466	+ve	1.248	3.668	0.012	0.003	0.025	3.940
			16:COM3	34:CVOL3	16:COM3	24:COM1	24:COM1	20:COM7
			-0.164	0.000	-0.011	-0.019	-0.028	-0.263
			26:COM1	-	26:COM1	18:COM5	18:COM5	30:COM1
	491	-ve	1.248	0.000	0.012	0.003	0.029	17.357
			16:COM3	-	16:COM3	24:COM1	16:COM3	35:CVOL4
			-0.164	-9.613	-0.011	-0.019	-0.025	0.000
			26:COM1	35:CVOL4	26:COM1	18:COM5	26:COM1	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
742	467	+ve	1.010	3.788	0.012	0.000	0.023	3.798
			20:COM7	34:CVOL3	16:COM3	-	24:COM11	20:COM7
			-0.058	0.000	-0.010	-0.114	-0.029	-0.511
			30:COM17	-	26:COM13	22:COM9	18:COM5	30:COM17
	490	-ve	1.010	0.000	0.012	0.000	0.029	16.385
			20:COM7	-	16:COM3	-	16:COM3	35:CVOL4
			-0.058	-9.492	-0.010	-0.114	-0.023	0.000
			30:COM17	35:CVOL4	26:COM13	22:COM9	26:COM13	-
743	468	+ve	0.397	4.673	0.009	0.000	0.020	4.478
			20:COM7	34:CVOL3	16:COM3	-	24:COM11	20:COM7
			-0.467	0.000	-0.008	-0.135	-0.021	0.000
			30:COM17	-	26:COM13	22:COM9	18:COM5	-
	489	-ve	0.397	0.000	0.009	0.000	0.020	12.986
			20:COM7	-	16:COM3	-	16:COM3	35:CVOL4
			-0.467	-8.605	-0.008	-0.135	-0.018	0.000
			30:COM17	35:CVOL4	26:COM13	22:COM9	26:COM13	-
744	469	+ve	0.518	5.087	0.009	0.146	0.022	5.728
			20:COM7	34:CVOL3	24:COM11	20:COM7	16:COM3	20:COM7
			-0.486	0.000	-0.009	0.000	-0.022	0.000
			30:COM17	-	18:COM5	-	26:COM13	-
	498	-ve	0.518	0.000	0.009	0.146	0.021	12.465
			20:COM7	-	24:COM11	20:COM7	24:COM11	35:CVOL4
			-0.486	-8.191	-0.009	0.000	-0.021	0.000
			30:COM17	35:CVOL4	18:COM5	-	18:COM5	-
745	470	+ve	1.070	4.120	0.011	0.108	0.027	4.857
			20:COM7	34:CVOL3	24:COM11	20:COM7	16:COM3	20:COM7
			0.000	0.000	-0.012	0.000	-0.026	-0.075
			-	-	18:COM5	-	26:COM13	30:COM17
	497	-ve	1.070	0.000	0.011	0.108	0.026	15.897
			20:COM7	-	24:COM11	20:COM7	24:COM11	35:CVOL4
			0.000	-9.161	-0.012	0.000	-0.028	0.000
			-	35:CVOL4	18:COM5	-	18:COM5	-
746	471	+ve	1.607	3.645	0.012	0.005	0.027	4.063
			16:COM3	34:CVOL3	24:COM11	24:COM17	16:COM3	20:COM7
			-0.153	0.000	-0.011	-0.011	-0.027	-0.684
			26:COM13	-	18:COM5	18:COM5	26:COM13	30:COM17
	496	-ve	1.607	0.000	0.012	0.005	0.027	17.152
			16:COM3	-	24:COM11	24:COM17	24:COM11	35:CVOL4
			-0.153	-9.637	-0.011	-0.011	-0.027	0.000
			26:COM13	35:CVOL4	18:COM5	18:COM5	18:COM5	-
747	472	+ve	2.056	3.840	0.012	0.001	0.027	4.533
			16:COM3	20:COM7	16:COM3	28:COM15	24:COM11	20:COM7
			-0.884	0.000	-0.011	-0.116	-0.029	-1.111
			26:COM13	-	26:COM13	22:COM9	18:COM5	30:COM17
	495	-ve	2.056	0.000	0.012	0.001	0.029	16.181
			16:COM3	-	16:COM3	28:COM15	16:COM3	35:CVOL4
			-0.884	-9.451	-0.011	-0.116	-0.026	0.000
			26:COM13	35:CVOL4	26:COM13	22:COM9	26:COM13	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
748	473	+ve	2.011	4.771	0.011	0.004	0.027	5.770
			16:COM3	34:CVOL3	16:COM3	28:COM1	16:COM3	20:COM7
			-2.237	0.000	-0.011	-0.148	-0.027	-0.699
			26:COM1	-	26:COM1	22:COM9	26:COM1	30:COM1
	494	-ve	2.011	0.000	0.011	0.004	0.024	12.817
			16:COM3	-	16:COM3	28:COM1	16:COM3	35:CVOL4
			-2.237	-8.515	-0.011	-0.148	-0.023	0.000
			26:COM1	35:CVOL4	26:COM1	22:COM9	26:COM1	-
749	479	+ve	7.948	0.000	5.122	0.569	1.163	34.167
			16:COM3	-	20:COM7	28:COM1	28:COM1	16:COM3
			-2.535	-66.077	-1.541	-18.849	-4.748	-1.437
			26:COM1	35:CVOL4	30:COM1	22:COM9	22:COM9	26:COM1
	85	-ve	7.948	0.000	5.122	0.569	5.242	157.375
			16:COM3	-	20:COM7	28:COM1	20:COM7	35:CVOL4
			-2.535	-68.776	-1.541	-18.849	-1.844	0.000
			26:COM1	35:CVOL4	30:COM1	22:COM9	30:COM1	-
750	480	+ve	6.761	0.000	1.915	1.259	0.475	0.000
			28:COM1	-	16:COM3	28:COM1	24:COM1	-
			-12.602	-40.119	-0.776	-7.395	-1.752	-54.933
			22:COM9	35:CVOL4	26:COM1	22:COM9	18:COM5	35:CVOL4
	479	-ve	6.761	0.000	1.915	1.259	1.982	34.179
			28:COM1	-	16:COM3	28:COM1	16:COM3	16:COM3
			-12.602	-42.818	-0.776	-7.395	-1.038	-1.440
			22:COM9	35:CVOL4	26:COM1	22:COM9	26:COM1	26:COM1
751	481	+ve	8.070	0.000	0.726	0.445	0.060	0.000
			28:COM1	-	16:COM3	28:COM1	24:COM1	-
			-13.635	-14.032	-0.078	-1.690	-0.687	-83.756
			22:COM9	18:COM5	26:COM1	22:COM9	18:COM5	35:CVOL4
	480	-ve	8.070	0.000	0.726	0.445	0.729	0.000
			28:COM1	-	16:COM3	28:COM1	16:COM3	-
			-13.635	-16.730	-0.078	-1.690	-0.093	-54.879
			22:COM9	18:COM5	26:COM1	22:COM9	26:COM1	35:CVOL4
752	482	+ve	11.826	14.396	0.185	2.437	0.540	0.000
			28:COM1	16:COM3	24:COM1	20:COM7	16:COM3	-
			-16.137	0.000	-0.361	-1.157	-0.267	-60.324
			22:COM9	-	18:COM5	30:COM1	26:COM1	35:CVOL4
	481	-ve	11.826	11.698	0.185	2.437	0.098	0.000
			28:COM1	16:COM3	24:COM1	20:COM7	24:COM1	-
			-16.137	0.000	-0.361	-1.157	-0.168	-83.735
			22:COM9	-	18:COM5	30:COM1	18:COM5	35:CVOL4
753	483	+ve	16.314	39.857	0.790	8.588	2.063	24.043
			28:COM1	35:CVOL4	24:COM1	20:COM7	16:COM3	16:COM3
			-21.127	0.000	-1.894	-2.083	-1.104	-6.097
			22:COM9	-	18:COM5	30:COM1	26:COM1	26:COM1
	482	-ve	16.314	37.158	0.790	8.588	0.450	0.000
			28:COM1	35:CVOL4	24:COM1	20:COM7	24:COM1	-
			-21.127	0.000	-1.894	-2.083	-1.644	-60.365
			22:COM9	-	18:COM5	30:COM1	18:COM5	35:CVOL4

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
754	484	+ve	14.534	0.000	4.945	0.901	0.230	32.187
			16:COM3	-	16:COM3	28:COM15	24:COM11	16:COM3
			-4.543	-65.827	-0.578	-17.776	-4.599	-3.279
			26:COM13	35:CVOL4	26:COM13	22:COM9	18:COM5	26:COM13
	87	-ve	14.534	0.000	4.945	0.901	5.046	154.043
			16:COM3	-	16:COM3	28:COM15	16:COM3	35:CVOL4
			-4.543	-68.526	-0.578	-17.776	-0.897	0.000
			26:COM13	35:CVOL4	26:COM13	22:COM9	26:COM13	-
755	485	+ve	8.947	0.000	2.155	1.590	0.283	0.000
			16:COM3	-	16:COM3	28:COM15	24:COM11	-
			-8.282	-39.398	-0.573	-6.975	-1.819	-56.396
			26:COM13	35:CVOL4	26:COM13	22:COM9	18:COM5	34:CVOL3
	484	-ve	8.947	0.000	2.155	1.590	2.383	32.189
			16:COM3	-	16:COM3	28:COM15	16:COM3	16:COM3
			-8.282	-42.097	-0.573	-6.975	-0.835	-3.296
			26:COM13	35:CVOL4	26:COM13	22:COM9	26:COM13	26:COM13
756	486	+ve	6.400	0.000	0.688	0.662	0.228	0.000
			20:COM7	-	16:COM3	28:COM15	24:COM11	-
			-5.276	-13.218	-0.253	-1.839	-0.567	-82.947
			30:COM17	18:COM5	26:COM13	22:COM9	18:COM5	35:CVOL4
	485	-ve	6.400	0.000	0.688	0.662	0.775	0.000
			20:COM7	-	16:COM3	28:COM15	16:COM3	-
			-5.276	-15.917	-0.253	-1.839	-0.264	-56.396
			30:COM17	18:COM5	26:COM13	22:COM9	26:COM13	34:CVOL3
757	487	+ve	7.078	15.806	0.173	1.608	0.839	0.000
			20:COM7	16:COM3	24:COM11	20:COM7	16:COM3	-
			-5.209	0.000	-0.742	-1.037	-0.170	-56.557
			30:COM17	-	18:COM5	30:COM17	26:COM13	35:CVOL4
	486	-ve	7.078	13.107	0.173	1.608	0.168	0.000
			20:COM7	16:COM3	24:COM11	20:COM7	24:COM11	-
			-5.209	0.000	-0.742	-1.037	-0.608	-82.965
			30:COM17	-	18:COM5	30:COM17	18:COM5	35:CVOL4
758	488	+ve	9.909	41.474	0.342	7.099	2.513	30.624
			20:COM7	35:CVOL4	24:COM11	20:COM7	16:COM3	16:COM3
			-7.480	0.000	-2.244	-1.788	-0.562	-3.762
			30:COM17	-	18:COM5	30:COM17	26:COM13	26:COM13
	487	-ve	9.909	38.776	0.342	7.099	0.109	0.000
			20:COM7	35:CVOL4	24:COM11	20:COM7	24:COM11	-
			-7.480	0.000	-2.244	-1.788	-1.866	-56.570
			30:COM17	-	18:COM5	30:COM17	18:COM5	35:CVOL4
759	489	+ve	20.277	0.000	3.963	0.965	0.211	32.310
			16:COM3	-	20:COM7	28:COM15	28:COM15	16:COM3
			-10.867	-66.073	-0.464	-18.156	-3.791	-3.475
			26:COM13	35:CVOL4	30:COM17	22:COM9	22:COM9	26:COM13
	89	-ve	20.277	0.000	3.963	0.965	3.952	154.459
			16:COM3	-	20:COM7	28:COM15	16:COM3	35:CVOL4
			-10.867	-68.772	-0.464	-18.156	-0.709	0.000
			26:COM13	35:CVOL4	30:COM17	22:COM9	26:COM13	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
760	490	+ve	12.382	0.000	1.690	1.512	0.112	0.000
			24:COM1	-	16:COM3	28:COM1	24:COM1	-
			-13.110	-39.424	-0.437	-7.474	-1.408	-56.479
			18:COM5	35:CVOL4	26:COM1	22:COM9	18:COM5	34:CVOL
	489	-ve	12.382	0.000	1.690	1.512	1.892	32.349
			24:COM1	-	16:COM3	28:COM1	16:COM3	16:COM3
			-13.110	-42.123	-0.437	-7.474	-0.744	-3.477
			18:COM5	35:CVOL4	26:COM1	22:COM9	26:COM1	26:COM1
761	491	+ve	8.725	0.000	0.567	0.664	0.080	0.000
			24:COM1	-	16:COM3	28:COM1	24:COM1	-
			-8.564	-13.282	-0.115	-2.100	-0.419	-82.899
			18:COM5	18:COM5	26:COM1	22:COM9	18:COM5	35:CVOL4
	490	-ve	8.725	0.000	0.567	0.664	0.688	0.000
			24:COM1	-	16:COM3	28:COM1	16:COM3	-
			-8.564	-15.980	-0.115	-2.100	-0.145	-56.444
			18:COM5	18:COM5	26:COM1	22:COM9	26:COM1	34:CVOL
762	492	+ve	5.510	15.906	0.150	1.714	0.686	0.000
			24:COM1	16:COM3	24:COM1	20:COM7	16:COM3	-
			-5.114	0.000	-0.647	-0.846	-0.112	-56.354
			18:COM5	-	18:COM5	30:COM1	26:COM1	35:CVOL4
	491	-ve	5.510	13.207	0.150	1.714	0.182	0.000
			24:COM1	16:COM3	24:COM1	20:COM7	24:COM1	-
			-5.114	0.000	-0.647	-0.846	-0.575	-82.910
			18:COM5	-	18:COM5	30:COM1	18:COM5	35:CVOL4
763	493	+ve	5.047	41.703	0.529	7.330	2.348	31.502
			20:COM7	35:CVOL4	24:COM1	20:COM7	16:COM3	16:COM3
			-4.190	0.000	-2.145	-1.461	-0.770	-3.820
			30:COM1	-	18:COM5	30:COM1	26:COM1	26:COM1
	492	-ve	5.047	39.004	0.529	7.330	0.263	0.000
			20:COM7	35:CVOL4	24:COM1	20:COM7	24:COM1	-
			-4.190	0.000	-2.145	-1.461	-1.837	-56.396
			30:COM1	-	18:COM5	30:COM1	18:COM5	35:CVOL4
764	494	+ve	31.284	0.000	5.875	2.035	1.737	30.116
			16:COM3	-	20:COM7	28:COM1	28:COM1	16:COM3
			-23.860	-65.322	-2.266	-19.433	-5.399	-5.912
			26:COM1	35:CVOL4	30:COM1	22:COM9	22:COM9	26:COM1
	91	-ve	31.284	0.000	5.875	2.035	6.060	149.435
			16:COM3	-	20:COM7	28:COM1	20:COM7	35:CVOL4
			-23.860	-68.021	-2.266	-19.433	-2.684	0.000
			26:COM1	35:CVOL4	30:COM1	22:COM9	30:COM1	-
765	495	+ve	22.886	0.000	1.644	2.279	0.170	0.000
			24:COM1	-	16:COM3	28:COM1	24:COM1	-
			-23.468	-38.796	-0.447	-8.372	-1.349	-58.851
			18:COM5	35:CVOL4	26:COM1	22:COM9	18:COM5	34:CVOL
	494	-ve	22.886	0.000	1.644	2.279	1.858	30.189
			24:COM1	-	16:COM3	28:COM1	16:COM3	16:COM3
			-23.468	-41.495	-0.447	-8.372	-0.704	-5.934
			18:COM5	35:CVOL4	26:COM1	22:COM9	26:COM1	26:COM1

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
766	496	+ve	18.260	0.000	0.403	1.095	0.069	0.000
			24:COM1	-	16:COM3	28:COM1	24:COM1	-
			-18.314	-13.034	-0.090	-2.613	-0.262	-84.120
			18:COM5	18:COM5	26:COM1	22:COM9	18:COM5	35:CVOL
	495	-ve	18.260	0.000	0.403	1.095	0.526	0.000
			24:COM1	-	16:COM3	28:COM1	16:COM3	-
			-18.314	-15.733	-0.090	-2.613	-0.108	-58.802
			18:COM5	18:COM5	26:COM1	22:COM9	26:COM1	34:CVOL
767	497	+ve	13.707	16.465	0.071	1.599	0.690	0.000
			24:COM1	16:COM3	24:COM1	20:COM7	16:COM3	-
			-13.739	0.000	-0.625	-0.739	-0.043	-56.487
			18:COM5	-	18:COM5	30:COM1	26:COM1	35:CVOL
	496	-ve	13.707	13.766	0.071	1.599	0.097	0.000
			24:COM1	16:COM3	24:COM1	20:COM7	24:COM1	-
			-13.739	0.000	-0.625	-0.739	-0.530	-84.128
			18:COM5	-	18:COM5	30:COM1	18:COM5	35:CVOL
768	498	+ve	9.271	42.394	0.622	7.409	2.208	33.103
			24:COM1	34:CVOL	24:COM1	20:COM7	16:COM3	16:COM3
			-9.361	0.000	-2.026	-1.579	-0.861	-3.885
			18:COM5	-	18:COM5	30:COM1	26:COM1	26:COM1
	497	-ve	9.271	39.696	0.622	7.409	0.352	0.000
			24:COM1	34:CVOL	24:COM1	20:COM7	24:COM1	-
			-9.361	0.000	-2.026	-1.579	-1.743	-56.543
			18:COM5	-	18:COM5	30:COM1	18:COM5	35:CVOL
769	483	+ve	4.976	15.271	0.003	0.160	0.013	23.395
			20:COM7	35:CVOL	28:COM1	35:CVOL	24:COM1	35:CVOL
			-2.710	0.000	-0.003	0.000	-0.015	0.000
			30:COM1	-	22:COM9	-	18:COM5	-
	444	-ve	4.976	0.000	0.003	0.160	0.017	27.954
			20:COM7	-	28:COM1	35:CVOL	28:COM1	34:CVOL
			-2.710	-16.139	-0.003	0.000	-0.016	0.000
			30:COM1	34:CVOL	22:COM9	-	22:COM9	-
770	482	+ve	2.600	14.938	0.003	0.119	0.016	21.039
			20:COM7	35:CVOL	16:COM3	35:CVOL	24:COM1	35:CVOL
			-1.156	0.000	-0.003	0.000	-0.018	0.000
			30:COM1	-	26:COM1	-	18:COM5	-
	445	-ve	2.600	0.000	0.003	0.119	0.018	29.097
			20:COM7	-	16:COM3	35:CVOL	24:COM1	34:CVOL
			-1.156	-16.468	-0.003	0.000	-0.016	0.000
			30:COM1	34:CVOL	26:COM1	-	18:COM5	-
771	481	+ve	1.825	14.830	0.004	0.014	0.017	20.280
			16:COM3	35:CVOL	16:COM3	24:COM1	24:COM1	35:CVOL
			-0.548	0.000	-0.003	-0.023	-0.021	0.000
			26:COM1	-	26:COM1	18:COM5	18:COM5	-
	446	-ve	1.825	0.000	0.004	0.014	0.020	29.466
			16:COM3	-	16:COM3	24:COM1	16:COM3	34:CVOL
			-0.548	-16.573	-0.003	-0.023	-0.016	0.000
			26:COM1	34:CVOL	26:COM1	18:COM5	26:COM1	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
772	480	+ve	1.858	14.978	0.004	0.000	0.016	21.226
			20:COM7	35:CVOL4	16:COM3	-	24:COM11	35:CVOL4
			-0.322	0.000	-0.003	-0.128	-0.022	0.000
			30:COM17	-	26:COM13	34:CVOL3	18:COM5	-
	447	-ve	1.858	0.000	0.004	0.000	0.022	28.845
			20:COM7	-	16:COM3	-	16:COM3	34:CVOL3
			-0.322	-16.424	-0.003	-0.128	-0.016	0.000
			30:COM17	34:CVOL3	26:COM13	34:CVOL3	26:COM13	-
773	479	+ve	2.715	15.329	0.004	0.000	0.015	23.629
			20:COM7	35:CVOL4	16:COM3	-	24:COM11	35:CVOL4
			-0.252	0.000	-0.003	-0.156	-0.019	0.000
			30:COM17	-	26:COM13	34:CVOL3	18:COM5	-
	448	-ve	2.715	0.000	0.004	0.000	0.021	27.554
			20:COM7	-	16:COM3	-	16:COM3	34:CVOL3
			-0.252	-16.075	-0.003	-0.156	-0.015	0.000
			30:COM17	34:CVOL3	26:COM13	34:CVOL3	26:COM13	-
774	488	+ve	2.648	15.333	0.003	0.154	0.018	23.661
			20:COM7	35:CVOL4	24:COM11	35:CVOL4	16:COM3	35:CVOL4
			-0.022	0.000	-0.003	0.000	-0.016	0.000
			30:COM17	-	18:COM5	-	26:COM13	-
	474	-ve	2.648	0.000	0.003	0.154	0.017	27.537
			20:COM7	-	24:COM11	35:CVOL4	24:COM11	34:CVOL3
			-0.022	-16.070	-0.003	0.000	-0.019	0.000
			30:COM17	34:CVOL3	18:COM5	-	18:COM5	-
775	487	+ve	1.629	15.011	0.004	0.122	0.019	21.427
			20:COM7	35:CVOL4	24:COM11	35:CVOL4	16:COM3	35:CVOL4
			0.000	0.000	-0.004	0.000	-0.019	0.000
			-	-	18:COM5	-	26:COM13	-
	475	-ve	1.629	0.000	0.004	0.122	0.019	28.695
			20:COM7	-	24:COM11	35:CVOL4	24:COM11	34:CVOL3
			0.000	-16.390	-0.004	0.000	-0.019	0.000
			-	34:CVOL3	18:COM5	-	18:COM5	-
776	486	+ve	1.326	14.895	0.004	0.016	0.018	20.664
			20:COM7	35:CVOL4	16:COM3	24:COM11	24:COM11	35:CVOL4
			0.000	0.000	-0.003	-0.017	-0.021	0.000
			-	-	26:COM13	18:COM5	18:COM5	-
	476	-ve	1.326	0.000	0.004	0.016	0.020	29.149
			20:COM7	-	16:COM3	24:COM11	16:COM3	34:CVOL3
			0.000	-16.505	-0.003	-0.017	-0.018	0.000
			-	34:CVOL3	26:COM13	18:COM5	26:COM13	-
777	485	+ve	1.493	15.022	0.004	0.000	0.017	21.500
			20:COM7	35:CVOL4	16:COM3	-	24:COM11	35:CVOL4
			0.000	0.000	-0.003	-0.122	-0.022	0.000
			-	-	26:COM13	35:CVOL4	18:COM5	-
	477	-ve	1.493	0.000	0.004	0.000	0.022	28.654
			20:COM7	-	16:COM3	-	16:COM3	34:CVOL3
			0.000	-16.379	-0.003	-0.122	-0.017	0.000
			-	34:CVOL3	26:COM13	35:CVOL4	26:COM13	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
778	484	+ve	2.395	15.346	0.004	0.000	0.015	23.744
			35:CVOL4	35:CVOL4	16:COM3	-	24:COM11	35:CVOL4
			0.000	0.000	-0.003	-0.153	-0.020	0.000
			-	-	26:COM13	35:CVOL4	18:COM5	-
	478	-ve	2.395	0.000	0.004	0.000	0.021	27.484
			35:CVOL4	-	16:COM3	-	16:COM3	34:CVOL3
			0.000	-16.057	-0.003	-0.153	-0.015	0.000
			-	34:CVOL3	26:COM13	35:CVOL4	26:COM13	-
779	493	+ve	2.404	15.328	0.003	0.153	0.017	23.614
			35:CVOL4	35:CVOL4	24:COM11	35:CVOL4	16:COM3	35:CVOL4
			0.000	0.000	-0.003	0.000	-0.017	0.000
			-	-	18:COM5	-	26:COM13	-
	449	-ve	2.404	0.000	0.003	0.153	0.018	27.543
			35:CVOL4	-	24:COM11	35:CVOL4	24:COM11	34:CVOL3
			0.000	-16.074	-0.003	0.000	-0.019	0.000
			-	34:CVOL3	18:COM5	-	18:COM5	-
780	492	+ve	1.505	14.999	0.004	0.121	0.019	21.326
			35:CVOL4	35:CVOL4	24:COM11	34:CVOL3	16:COM3	35:CVOL4
			0.000	0.000	-0.004	0.000	-0.020	0.000
			-	-	18:COM5	-	26:COM13	-
	450	-ve	1.505	0.000	0.004	0.121	0.020	28.725
			35:CVOL4	-	24:COM11	34:CVOL3	24:COM11	34:CVOL3
			0.000	-16.402	-0.004	0.000	-0.019	0.000
			-	34:CVOL3	18:COM5	-	18:COM5	-
781	491	+ve	1.267	14.879	0.004	0.016	0.018	20.535
			35:CVOL4	35:CVOL4	16:COM3	24:COM11	24:COM11	35:CVOL4
			0.000	0.000	-0.003	-0.017	-0.020	0.000
			-	-	26:COM13	18:COM5	18:COM5	-
	451	-ve	1.267	0.000	0.004	0.016	0.020	29.192
			35:CVOL4	-	16:COM3	24:COM11	16:COM3	34:CVOL3
			0.000	-16.521	-0.003	-0.017	-0.018	0.000
			-	34:CVOL3	26:COM13	18:COM5	26:COM13	-
782	490	+ve	1.456	15.011	0.004	0.000	0.017	21.406
			35:CVOL4	35:CVOL4	16:COM3	-	24:COM11	35:CVOL4
			0.000	0.000	-0.003	-0.122	-0.021	0.000
			-	-	26:COM13	35:CVOL4	18:COM5	-
	452	-ve	1.456	0.000	0.004	0.000	0.022	28.681
			35:CVOL4	-	16:COM3	-	16:COM3	34:CVOL3
			0.000	-16.391	-0.003	-0.122	-0.017	0.000
			-	34:CVOL3	26:COM13	35:CVOL4	26:COM13	-
783	489	+ve	2.211	15.345	0.004	0.000	0.015	23.721
			35:CVOL4	35:CVOL4	16:COM3	-	24:COM11	35:CVOL4
			0.000	0.000	-0.003	-0.154	-0.019	0.000
			-	-	26:COM13	35:CVOL4	18:COM5	-
	453	-ve	2.211	0.000	0.004	0.000	0.021	27.478
			35:CVOL4	-	16:COM3	-	16:COM3	34:CVOL3
			0.000	-16.059	-0.003	-0.154	-0.016	0.000
			-	34:CVOL3	26:COM13	35:CVOL4	26:COM13	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
784	498	+ve	2.256	15.330	0.003	0.157	0.019	23.631
			35:CVOL4	35:CVOL4	24:COM11	34:CVOL3	16:COM3	35:CVOL4
			0.000	0.000	-0.004	0.000	-0.017	0.000
			-	-	18:COM5	-	26:COM13	-
	454	-ve	2.256	0.000	0.003	0.157	0.018	27.542
			35:CVOL4	-	24:COM11	34:CVOL3	24:COM11	34:CVOL3
			0.000	-16.073	-0.004	0.000	-0.021	0.000
			-	34:CVOL3	18:COM5	-	18:COM5	-
785	497	+ve	1.586	14.988	0.004	0.126	0.022	21.280
			16:COM3	35:CVOL4	24:COM11	34:CVOL3	16:COM3	35:CVOL4
			0.000	0.000	-0.004	0.000	-0.020	0.000
			-	-	18:COM5	-	26:COM13	-
	455	-ve	1.586	0.000	0.004	0.126	0.020	28.796
			16:COM3	-	24:COM11	34:CVOL3	24:COM11	34:CVOL3
			0.000	-16.414	-0.004	0.000	-0.022	0.000
			-	34:CVOL3	18:COM5	-	18:COM5	-
786	496	+ve	1.393	14.856	0.004	0.022	0.021	20.426
			16:COM3	35:CVOL4	24:COM11	16:COM3	16:COM3	35:CVOL4
			0.000	0.000	-0.004	-0.019	-0.021	0.000
			-	-	18:COM5	26:COM13	26:COM13	-
	456	-ve	1.393	0.000	0.004	0.022	0.021	29.343
			16:COM3	-	24:COM11	16:COM3	24:COM11	34:CVOL3
			0.000	-16.547	-0.004	-0.019	-0.021	0.000
			-	34:CVOL3	18:COM5	26:COM13	18:COM5	-
787	495	+ve	1.505	14.979	0.004	0.000	0.020	21.266
			16:COM3	35:CVOL4	16:COM3	-	24:COM11	35:CVOL4
			0.000	0.000	-0.004	-0.122	-0.023	0.000
			-	-	26:COM13	35:CVOL4	18:COM5	-
	457	-ve	1.505	0.000	0.004	0.000	0.023	28.895
			16:COM3	-	16:COM3	-	16:COM3	34:CVOL3
			0.000	-16.427	-0.004	-0.122	-0.020	0.000
			-	34:CVOL3	26:COM13	35:CVOL4	26:COM13	-
788	494	+ve	2.130	15.313	0.004	0.000	0.018	23.597
			16:COM3	35:CVOL4	16:COM3	-	24:COM11	35:CVOL4
			0.000	0.000	-0.004	-0.158	-0.021	0.000
			-	-	26:COM13	35:CVOL4	18:COM5	-
	458	-ve	2.130	0.000	0.004	0.000	0.023	27.726
			16:COM3	-	16:COM3	-	16:COM3	34:CVOL3
			0.000	-16.097	-0.004	-0.158	-0.019	0.000
			-	34:CVOL3	26:COM13	35:CVOL4	26:COM13	-
845	499	+ve	10.015	3.651	0.653	0.944	0.957	3.441
			28:COM15	16:COM3	20:COM7	16:COM3	28:COM15	16:COM3
			-10.068	0.000	-0.883	0.000	-0.688	-0.253
			22:COM9	-	30:COM17	-	22:COM9	26:COM13
	500	-ve	10.015	2.300	0.653	0.944	0.586	0.454
			28:COM15	16:COM3	20:COM7	16:COM3	20:COM7	24:COM17
			-10.068	-0.863	-0.883	0.000	-0.768	-2.379
			22:COM9	26:COM13	30:COM17	-	30:COM17	18:COM5

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
846	500	+ve	12.610	1.898	0.525	0.642	0.342	1.486
			16:COM3	20:COM7	16:COM3	20:COM7	24:COM11	20:COM7
			-7.908	0.000	-0.326	-0.086	-0.625	-0.302
			26:COM13	-	26:COM13	30:COM17	18:COM5	30:COM17
	501	-ve	12.610	0.547	0.525	0.642	0.403	0.222
			16:COM3	20:COM7	16:COM3	20:COM7	16:COM3	28:COM15
			-7.908	-0.775	-0.326	-0.086	-0.297	-0.901
			26:COM13	30:COM17	26:COM13	30:COM17	26:COM13	22:COM9
847	501	+ve	12.242	1.365	0.267	0.135	0.218	0.871
			16:COM3	20:COM7	16:COM3	24:COM11	24:COM11	20:COM7
			-7.302	-0.194	-0.262	-0.202	-0.390	-0.702
			26:COM13	30:COM17	26:COM13	18:COM5	18:COM5	30:COM17
	502	-ve	12.242	0.179	0.267	0.135	0.196	0.667
			16:COM3	28:COM15	16:COM3	24:COM11	24:COM11	28:COM15
			-7.302	-1.372	-0.262	-0.202	-0.357	-0.476
			26:COM13	22:COM9	26:COM13	18:COM5	18:COM5	22:COM9
848	502	+ve	12.637	0.504	0.343	0.012	0.367	0.219
			16:COM3	28:COM15	28:COM15	28:COM15	20:COM7	28:COM15
			-7.170	-0.409	-0.493	-0.640	-0.292	-0.993
			26:COM13	22:COM9	22:COM9	22:COM9	30:COM17	22:COM9
	503	-ve	12.637	0.000	0.343	0.012	0.384	1.124
			16:COM3	-	28:COM15	28:COM15	28:COM15	20:COM7
			-7.170	-1.760	-0.493	-0.640	-0.601	0.000
			26:COM13	22:COM9	22:COM9	22:COM9	22:COM9	-
849	503	+ve	15.667	1.494	1.026	0.000	0.514	0.958
			16:COM3	24:COM11	20:COM7	-	28:COM15	24:COM17
			-15.521	-3.617	-0.595	-0.936	-0.855	-3.381
			26:COM13	18:COM5	30:COM17	34:CVOL3	22:COM9	18:COM5
	504	-ve	15.667	0.481	1.026	0.000	1.149	4.999
			16:COM3	24:COM11	20:COM7	-	20:COM7	16:COM3
			-15.521	-4.967	-0.595	-0.936	-0.647	-0.972
			26:COM13	18:COM5	30:COM17	34:CVOL3	30:COM17	26:COM13
850	504	+ve	11.906	13.824	2.043	4.773	0.815	9.534
			24:COM17	16:COM3	20:COM7	20:COM7	28:COM15	16:COM3
			-20.985	-12.386	-0.597	-1.661	-2.138	-9.178
			18:COM5	26:COM13	30:COM17	30:COM17	22:COM9	26:COM13
	105	-ve	11.906	12.631	2.043	4.773	1.864	15.969
			24:COM17	24:COM11	20:COM7	20:COM7	20:COM7	24:COM17
			-20.985	-13.555	-0.597	-1.661	-0.366	-16.113
			18:COM5	18:COM5	30:COM17	30:COM17	30:COM17	18:COM5
851	499	+ve	3.742	17.875	0.043	0.047	0.035	29.076
			28:COM15	20:COM7	16:COM3	28:COM15	24:COM11	20:COM7
			-5.776	-1.905	-0.024	-0.513	-0.065	-4.157
			22:COM9	30:COM17	26:COM13	22:COM9	18:COM5	30:COM17
	415	-ve	3.742	10.976	0.043	0.047	0.061	6.467
			28:COM15	20:COM7	16:COM3	28:COM15	16:COM3	28:COM15
			-5.776	-5.313	-0.024	-0.513	-0.037	-13.391
			22:COM9	30:COM17	26:COM13	22:COM9	26:COM13	22:COM9

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
852	500	+ve	0.668	13.629	0.042	0.000	0.026	26.212
			28:COM15	20:COM7	16:COM3	-	24:COM11	20:COM7
			-3.178	0.000	-0.018	-0.444	-0.064	0.000
			22:COM9	-	26:COM13	22:COM9	18:COM5	-
	416	-ve	0.668	6.730	0.042	0.000	0.060	0.221
			28:COM15	20:COM7	16:COM3	-	16:COM3	28:COM15
			-3.178	0.000	-0.018	-0.444	-0.026	-3.771
			22:COM9	-	26:COM13	22:COM9	26:COM13	22:COM9
853	501	+ve	0.000	14.489	0.034	0.000	0.035	28.477
			-	34:CVOL3	16:COM3	-	24:COM11	34:CVOL3
			-2.622	0.000	-0.025	-0.161	-0.051	0.000
			34:CVOL3	-	26:COM13	22:COM9	18:COM5	-
	417	-ve	0.000	6.177	0.034	0.000	0.050	0.267
			-	34:CVOL3	16:COM3	-	16:COM3	28:COM15
			-2.622	0.000	-0.025	-0.161	-0.038	-3.099
			34:CVOL3	-	26:COM13	22:COM9	26:COM13	22:COM9
854	502	+ve	0.000	14.336	0.027	0.178	0.057	28.281
			-	34:CVOL3	24:COM11	20:COM7	16:COM3	34:CVOL3
			-2.609	0.000	-0.038	0.000	-0.039	0.000
			34:CVOL3	-	18:COM5	-	26:COM13	-
	418	-ve	0.000	6.024	0.027	0.178	0.040	0.337
			-	34:CVOL3	24:COM11	20:COM7	24:COM11	28:COM15
			-2.609	0.000	-0.038	0.000	-0.054	-2.842
			34:CVOL3	-	18:COM5	-	18:COM5	22:COM9
855	503	+ve	0.509	13.603	0.029	0.444	0.083	26.247
			28:COM15	20:COM7	24:COM11	20:COM7	16:COM3	20:COM7
			-3.100	0.000	-0.054	-0.002	-0.045	0.000
			22:COM9	-	18:COM5	30:COM17	26:COM13	-
	419	-ve	0.509	6.704	0.029	0.444	0.040	0.520
			28:COM15	20:COM7	24:COM11	20:COM7	24:COM11	28:COM15
			-3.100	-0.223	-0.054	-0.002	-0.076	-3.651
			22:COM9	30:COM17	18:COM5	30:COM17	18:COM5	22:COM9
856	504	+ve	3.338	18.466	0.040	0.472	0.087	29.973
			28:COM15	20:COM7	24:COM11	20:COM7	16:COM3	20:COM7
			-5.807	-1.949	-0.056	-0.050	-0.063	-4.378
			22:COM9	30:COM17	18:COM5	30:COM17	26:COM13	30:COM17
	420	-ve	3.338	11.567	0.040	0.472	0.055	6.378
			28:COM15	20:COM7	24:COM11	20:COM7	24:COM11	28:COM15
			-5.807	-5.357	-0.056	-0.050	-0.077	-14.235
			22:COM9	30:COM17	18:COM5	30:COM17	18:COM5	22:COM9
857	505	+ve	10.384	4.615	0.648	1.260	1.123	4.613
			20:COM7	16:COM3	28:COM15	34:CVOL3	20:COM7	16:COM3
			-9.868	-0.207	-1.010	0.000	-0.698	-0.639
			30:COM17	26:COM13	22:COM9	-	30:COM17	26:COM13
	510	-ve	10.384	3.250	0.648	1.260	0.582	0.779
			20:COM7	16:COM3	28:COM15	34:CVOL3	28:COM15	24:COM11
			-9.868	-1.230	-1.010	0.000	-0.871	-3.147
			30:COM17	26:COM13	22:COM9	-	22:COM9	18:COM5

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
858	506	+ve	10.039	0.915	0.304	0.170	0.264	0.275
			16:COM3	16:COM3	16:COM3	24:COM1	24:COM1	24:COM1
			-4.395	0.000	-0.303	-0.181	-0.434	-0.145
			26:COM1	-	26:COM1	18:COM5	18:COM5	18:COM5
	507	-ve	10.039	0.000	0.304	0.170	0.231	0.498
			16:COM3	-	16:COM3	24:COM1	24:COM1	16:COM3
			-4.395	-1.007	-0.303	-0.181	-0.400	-0.218
			26:COM1	18:COM5	26:COM1	18:COM5	18:COM5	26:COM1
859	507	+ve	9.344	0.655	0.395	0.000	0.426	0.161
			16:COM3	28:COM1	28:COM1	-	20:COM7	28:COM1
			-3.157	-0.600	-0.578	-0.807	-0.328	-0.983
			26:COM1	22:COM9	22:COM9	22:COM9	30:COM1	22:COM9
	508	-ve	9.344	0.000	0.395	0.000	0.458	1.556
			16:COM3	-	28:COM1	-	28:COM1	20:COM7
			-3.157	-1.965	-0.578	-0.807	-0.721	-0.131
			26:COM1	22:COM9	22:COM9	22:COM9	22:COM9	30:COM1
860	508	+ve	12.714	2.465	1.132	0.000	0.820	1.702
			16:COM3	28:COM1	28:COM1	-	20:COM7	28:COM1
			-11.320	-4.533	-0.898	-1.201	-0.977	-4.114
			26:COM1	22:COM9	22:COM9	35:CVOL4	30:COM1	22:COM9
	509	-ve	12.714	1.441	1.132	0.000	1.262	6.178
			16:COM3	28:COM1	28:COM1	-	20:COM7	20:COM7
			-11.320	-5.898	-0.898	-1.201	-0.957	-2.154
			26:COM1	22:COM9	22:COM9	35:CVOL4	30:COM1	30:COM1
861	509	+ve	9.339	13.380	2.026	4.830	1.313	9.502
			24:COM1	16:COM3	20:COM7	20:COM7	28:COM1	16:COM3
			-13.930	-11.804	-1.106	-2.831	-2.179	-8.991
			18:COM5	26:COM1	30:COM1	30:COM1	22:COM9	26:COM1
	106	-ve	9.339	12.103	2.026	4.830	1.824	15.282
			24:COM1	24:COM1	20:COM7	20:COM7	20:COM7	24:COM1
			-13.930	-12.913	-1.106	-2.831	-0.878	-15.527
			18:COM5	18:COM5	30:COM1	30:COM1	30:COM1	18:COM5
862	505	+ve	3.684	17.839	0.036	0.044	0.032	29.946
			28:COM1	20:COM7	16:COM3	28:COM1	24:COM1	20:COM7
			-6.154	-1.960	-0.020	-0.550	-0.055	-3.967
			22:COM9	30:COM1	26:COM1	22:COM9	18:COM5	30:COM1
	427	-ve	3.684	10.940	0.036	0.044	0.051	6.820
			28:COM1	20:COM7	16:COM3	28:COM1	16:COM3	28:COM1
			-6.154	-5.368	-0.020	-0.550	-0.028	-12.415
			22:COM9	30:COM1	26:COM1	22:COM9	26:COM1	22:COM9
863	506	+ve	0.000	16.188	0.028	0.000	0.028	30.902
			-	34:CVOL3	16:COM3	-	24:COM1	34:CVOL3
			-2.567	0.000	-0.019	-0.153	-0.040	0.000
			22:COM9	-	26:COM1	22:COM9	18:COM5	-
	429	-ve	0.000	7.876	0.028	0.000	0.041	0.000
			-	34:CVOL3	16:COM3	-	16:COM3	-
			-2.567	0.000	-0.019	-0.153	-0.029	-5.424
			22:COM9	-	26:COM1	22:COM9	26:COM1	22:COM9

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
864	507	+ve	0.000	16.059	0.019	0.209	0.049	30.502
			-	35:CVOL4	24:COM11	20:COM7	16:COM3	35:CVOL4
			-2.638	0.000	-0.032	0.000	-0.027	0.000
			22:COM9	-	18:COM5	-	26:COM13	-
	430	-ve	0.000	7.747	0.019	0.209	0.030	0.000
			-	35:CVOL4	24:COM11	20:COM7	24:COM11	-
			-2.638	0.000	-0.032	0.000	-0.047	-5.292
			22:COM9	-	18:COM5	-	18:COM5	22:COM9
865	508	+ve	0.687	14.566	0.020	0.521	0.072	27.952
			28:COM15	20:COM7	24:COM11	20:COM7	16:COM3	20:COM7
			-3.197	0.000	-0.047	-0.018	-0.030	0.000
			22:COM9	-	18:COM5	30:COM17	26:COM13	-
	431	-ve	0.687	7.667	0.020	0.521	0.029	0.653
			28:COM15	20:COM7	24:COM11	20:COM7	24:COM11	28:COM15
			-3.197	-0.549	-0.047	-0.018	-0.066	-4.774
			22:COM9	30:COM17	18:COM5	30:COM17	18:COM5	22:COM9
866	509	+ve	3.788	18.619	0.035	0.596	0.075	30.975
			28:COM15	20:COM7	24:COM11	20:COM7	16:COM3	20:COM7
			-6.107	-4.454	-0.048	-0.052	-0.051	-8.297
			22:COM9	30:COM17	18:COM5	30:COM17	26:COM13	30:COM17
	432	-ve	3.788	11.720	0.035	0.596	0.053	9.831
			28:COM15	20:COM7	24:COM11	20:COM7	24:COM11	28:COM15
			-6.107	-7.862	-0.048	-0.052	-0.067	-13.682
			22:COM9	30:COM17	18:COM5	30:COM17	18:COM5	22:COM9
867	510	+ve	11.155	1.460	0.537	0.854	0.410	0.877
			16:COM3	20:COM7	16:COM3	20:COM7	28:COM15	34:CVOL3
			-5.338	0.000	-0.376	-0.058	-0.649	0.000
			26:COM13	-	26:COM13	30:COM17	22:COM9	-
	506	-ve	11.155	0.095	0.537	0.854	0.422	0.000
			16:COM3	20:COM7	16:COM3	20:COM7	16:COM3	-
			-5.338	-0.270	-0.376	-0.058	-0.343	-0.664
			26:COM13	30:COM17	26:COM13	30:COM17	26:COM13	22:COM9
868	510	+ve	0.552	14.233	0.037	0.007	0.022	27.632
			28:COM15	20:COM7	16:COM3	28:COM15	24:COM11	20:COM7
			-3.012	0.000	-0.014	-0.462	-0.056	0.000
			22:COM9	-	26:COM13	22:COM9	18:COM5	-
	428	-ve	0.552	7.334	0.037	0.007	0.054	0.000
			28:COM15	20:COM7	16:COM3	28:COM15	16:COM3	-
			-3.012	0.000	-0.014	-0.462	-0.020	-4.115
			22:COM9	-	26:COM13	22:COM9	26:COM13	22:COM9
898	523	+ve	15.620	2.429	0.530	3.099	0.821	12.503
			20:COM7	16:COM3	24:COM11	24:COM17	24:COM11	16:COM3
			-14.418	0.000	-0.599	-4.774	-1.362	-5.515
			30:COM17	-	18:COM5	18:COM5	18:COM5	26:COM13
	524	-ve	15.620	0.714	0.530	3.099	0.000	9.397
			20:COM7	16:COM3	24:COM11	24:COM17	-	16:COM3
			-14.418	-1.029	-0.599	-4.774	-0.565	-4.761
			30:COM17	26:COM13	18:COM5	18:COM5	18:COM5	26:COM13

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
899	524	+ve	14.509	3.335	0.000	1.838	1.569	9.208
			16:COM3	16:COM3	-	24:COM1	20:COM7	16:COM3
			-12.997	-0.410	-1.674	-2.557	0.000	-4.587
			26:COM1	26:COM1	18:COM5	18:COM5	-	26:COM1
	525	-ve	14.509	1.619	0.000	1.838	0.000	4.330
			16:COM3	16:COM3	-	24:COM1	-	16:COM3
			-12.997	-1.696	-1.674	-2.557	-2.224	-2.532
			26:COM1	26:COM1	18:COM5	18:COM5	18:COM5	26:COM1
900	525	+ve	14.472	2.234	0.181	0.811	2.187	4.425
			16:COM3	20:COM7	24:COM1	20:COM7	16:COM3	16:COM3
			-13.273	0.000	-1.973	-0.484	-0.107	-2.495
			26:COM1	-	18:COM5	30:COM1	26:COM1	26:COM1
	526	-ve	14.472	0.518	0.181	0.811	0.251	3.801
			16:COM3	20:COM7	24:COM1	20:COM7	24:COM1	24:COM1
			-13.273	-0.877	-1.973	-0.484	-1.726	-4.137
			26:COM1	30:COM1	18:COM5	30:COM1	18:COM5	18:COM5
901	526	+ve	15.901	3.194	0.199	1.310	0.591	3.835
			16:COM3	20:COM7	28:COM1	16:COM3	20:COM7	24:COM1
			-13.796	-0.077	-0.548	-0.734	-0.137	-4.304
			26:COM1	30:COM1	22:COM9	26:COM1	30:COM1	18:COM5
	527	-ve	15.901	1.478	0.199	1.310	0.257	4.311
			16:COM3	20:COM7	28:COM1	16:COM3	28:COM1	28:COM1
			-13.796	-1.363	-0.548	-0.734	-0.496	-7.986
			26:COM1	30:COM1	22:COM9	26:COM1	22:COM9	22:COM9
902	527	+ve	19.639	2.475	0.872	0.377	0.000	4.594
			16:COM3	24:COM1	20:COM7	28:COM1	-	28:COM1
			-16.972	-2.056	0.000	-3.593	-0.819	-8.270
			26:COM1	18:COM5	-	22:COM9	22:COM9	22:COM9
	528	-ve	19.639	1.188	0.872	0.377	0.932	1.065
			16:COM3	24:COM1	20:COM7	28:COM1	16:COM3	28:COM1
			-16.972	-3.772	0.000	-3.593	0.000	-2.594
			26:COM1	18:COM5	-	22:COM9	-	22:COM9
903	528	+ve	25.595	11.528	2.599	3.469	0.000	1.479
			16:COM3	28:COM1	16:COM3	28:COM1	-	28:COM1
			-21.177	-14.481	0.000	-14.292	-2.361	-2.824
			26:COM1	22:COM9	-	22:COM9	22:COM9	22:COM9
	65	-ve	25.595	10.242	2.599	3.469	2.984	27.640
			16:COM3	28:COM1	16:COM3	28:COM1	16:COM3	20:COM7
			-21.177	-16.196	0.000	-14.292	0.000	-20.153
			26:COM1	22:COM9	-	22:COM9	-	30:COM1
910	523	+ve	4.913	4.113	0.007	0.132	0.004	3.066
			24:COM1	16:COM3	16:COM3	28:COM1	24:COM1	24:COM1
			-6.989	-0.941	-0.002	-0.182	-0.016	-9.463
			18:COM5	26:COM1	26:COM1	22:COM9	18:COM5	18:COM5
	5717	-ve	4.913	0.000	0.007	0.132	0.013	10.096
			24:COM1	-	16:COM3	28:COM1	16:COM3	16:COM3
			-6.989	-9.504	-0.002	-0.182	-0.004	0.000
			18:COM5	18:COM5	26:COM1	22:COM9	26:COM1	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
911	524	+ve	2.920	3.850	0.003	0.133	0.054	0.000
			16:COM3	20:COM7	24:COM11	20:COM7	16:COM3	-
			-1.952	-0.091	-0.024	-0.078	-0.007	-4.323
			26:COM13	30:COM17	18:COM5	30:COM17	26:COM13	22:COM9
	133	-ve	2.920	0.000	0.003	0.133	0.005	11.343
			16:COM3	-	24:COM11	20:COM7	28:COM15	20:COM7
			-1.952	-8.796	-0.024	-0.078	-0.048	-0.502
			26:COM13	34:CVOL3	18:COM5	30:COM17	22:COM9	30:COM17
912	525	+ve	0.937	4.219	0.000	0.108	0.056	1.183
			20:COM7	20:COM7	-	20:COM7	16:COM3	28:COM15
			-0.537	-1.202	-0.024	-0.060	0.000	-6.744
			30:COM17	30:COM17	18:COM5	30:COM17	-	22:COM9
	537	-ve	0.937	0.000	0.000	0.108	0.000	14.538
			20:COM7	-	-	20:COM7	-	20:COM7
			-0.537	-9.988	-0.024	-0.060	-0.046	-1.668
			30:COM17	22:COM9	18:COM5	30:COM17	18:COM5	30:COM17
913	526	+ve	1.062	3.137	0.000	0.000	0.037	0.409
			28:COM15	20:COM7	-	-	16:COM3	28:COM15
			-1.230	-1.115	-0.017	-0.191	0.000	-6.358
			22:COM9	30:COM17	18:COM5	22:COM9	-	22:COM9
	536	-ve	1.062	0.000	0.000	0.000	0.000	15.786
			28:COM15	-	-	-	-	20:COM7
			-1.230	-10.192	-0.017	-0.191	-0.034	0.000
			22:COM9	22:COM9	18:COM5	22:COM9	18:COM5	-
914	527	+ve	1.656	3.420	0.000	0.138	0.024	0.131
			28:COM15	35:CVOL4	-	28:COM15	16:COM3	24:COM11
			-1.550	0.000	-0.010	-0.149	0.000	-1.882
			22:COM9	-	18:COM5	22:COM9	-	18:COM5
	540	-ve	1.656	0.000	0.000	0.138	0.000	10.960
			28:COM15	-	-	28:COM15	-	20:COM7
			-1.550	-8.813	-0.010	-0.149	-0.021	0.000
			22:COM9	34:CVOL3	18:COM5	22:COM9	18:COM5	-
915	528	+ve	3.127	4.509	0.000	0.329	0.014	3.380
			20:COM7	20:COM7	-	20:COM7	16:COM3	20:COM7
			-0.438	0.000	-0.005	-0.074	-0.001	-3.843
			30:COM17	-	18:COM5	30:COM17	26:COM13	30:COM17
	539	-ve	3.127	0.000	0.000	0.329	0.000	10.306
			20:COM7	-	-	20:COM7	-	16:COM3
			-0.438	-8.621	-0.005	-0.074	-0.011	0.000
			30:COM17	34:CVOL3	18:COM5	30:COM17	18:COM5	-
916	5717	+ve	0.000	10.199	0.032	1.179	1.641	6.400
			-	20:COM7	24:COM11	20:COM7	20:COM7	16:COM3
			-59.339	0.000	-1.998	-0.042	-0.376	0.000
			18:COM5	-	18:COM5	30:COM17	30:COM17	-
	133	-ve	0.000	8.220	0.032	1.179	0.000	0.000
			-	20:COM7	24:COM11	20:COM7	-	-
			-59.339	0.000	-1.998	-0.042	-2.456	-11.429
			18:COM5	-	18:COM5	30:COM17	18:COM5	22:COM9

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
918	537	+ve	0.000	13.708	0.051	1.693	0.815	13.565
			-	24:COM11	28:COM15	35:CVOL4	20:COM7	34:CVOL3
			-21.813	-14.374	-2.073	0.000	0.000	0.000
			22:COM9	18:COM5	22:COM9	-	-	-
	5724	-ve	0.000	13.140	0.051	1.693	0.592	23.467
			-	24:COM11	28:COM15	35:CVOL4	28:COM15	20:COM7
			-21.813	-15.132	-2.073	0.000	-1.112	-2.972
			22:COM9	18:COM5	22:COM9	-	22:COM9	30:COM17
919	133	+ve	7.522	9.246	0.000	2.058	0.865	10.257
			28:COM15	16:COM3	-	20:COM7	16:COM3	16:COM3
			-48.468	0.000	-0.711	0.000	0.000	0.000
			22:COM9	-	18:COM5	-	-	-
	537	-ve	7.522	7.108	0.000	2.058	0.000	0.000
			28:COM15	16:COM3	-	20:COM7	-	-
			-48.468	0.000	-0.711	0.000	-0.884	-6.729
			22:COM9	-	18:COM5	-	22:COM9	18:COM5
920	539	+ve	30.952	0.000	1.322	1.153	1.496	0.319
			16:COM3	-	20:COM7	24:COM11	20:COM7	24:COM11
			-22.160	-32.915	-1.580	-11.909	-1.211	-15.627
			26:COM13	35:CVOL4	30:COM17	18:COM5	30:COM17	18:COM5
	122	-ve	30.952	0.000	1.322	1.153	1.436	60.683
			16:COM3	-	20:COM7	24:COM11	20:COM7	20:COM7
			-22.160	-34.984	-1.580	-11.909	-1.666	0.000
			26:COM13	35:CVOL4	30:COM17	18:COM5	30:COM17	-
921	540	+ve	36.702	1.074	1.228	0.833	0.708	0.000
			16:COM3	28:COM15	20:COM7	28:COM15	28:COM15	-
			-17.216	-9.550	-0.478	-3.783	-1.186	-31.697
			26:COM13	22:COM9	30:COM17	22:COM9	22:COM9	35:CVOL4
	539	-ve	36.702	0.000	1.228	0.833	1.262	0.000
			16:COM3	-	20:COM7	28:COM15	20:COM7	-
			-17.216	-11.619	-0.478	-3.783	-0.245	-18.897
			26:COM13	22:COM9	30:COM17	22:COM9	30:COM17	18:COM5
926	540	+ve	3.019	11.720	0.002	0.410	0.006	16.204
			16:COM3	35:CVOL4	16:COM3	34:CVOL3	24:COM11	35:CVOL4
			-1.530	0.000	-0.002	0.000	-0.008	0.000
			26:COM13	-	26:COM13	-	18:COM5	-
	551	-ve	3.019	0.000	0.002	0.410	0.008	2.990
			16:COM3	-	16:COM3	34:CVOL3	16:COM3	16:COM3
			-1.530	-7.689	-0.002	0.000	-0.005	-0.269
			26:COM13	34:CVOL3	26:COM13	-	26:COM13	26:COM13
927	539	+ve	8.453	15.211	0.080	4.417	0.176	19.198
			16:COM3	35:CVOL4	20:COM7	34:CVOL3	28:COM15	16:COM3
			-2.525	0.000	-0.057	0.000	-0.265	0.000
			26:COM13	-	30:COM17	-	22:COM9	-
	552	-ve	8.453	0.000	0.080	4.417	0.256	20.416
			16:COM3	-	20:COM7	34:CVOL3	20:COM7	34:CVOL3
			-2.525	-20.358	-0.057	0.000	-0.196	0.000
			26:COM13	34:CVOL3	30:COM17	-	30:COM17	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
928	541	+ve	20.885	5.358	1.244	0.587	3.167	5.335
			20:COM7	20:COM7	24:COM11	20:COM7	16:COM3	20:COM7
			-13.971	-0.066	-2.646	0.000	-1.511	-0.445
			30:COM17	30:COM17	18:COM5	-	26:COM13	30:COM17
	542	-ve	20.885	3.978	1.244	0.587	0.970	0.731
			20:COM7	20:COM7	24:COM11	20:COM7	24:COM11	28:COM15
			-13.971	-1.101	-2.646	0.000	-2.109	-3.985
			30:COM17	30:COM17	18:COM5	-	18:COM5	22:COM9
929	542	+ve	20.718	2.146	0.167	0.328	0.902	1.672
			20:COM7	20:COM7	28:COM15	16:COM3	16:COM3	20:COM7
			-5.562	0.000	-0.548	-0.190	-0.386	0.000
			30:COM17	-	22:COM9	26:COM13	26:COM13	-
	543	-ve	20.718	0.766	0.167	0.328	0.109	0.156
			20:COM7	20:COM7	28:COM15	16:COM3	28:COM15	28:COM15
			-5.562	-0.551	-0.548	-0.190	-0.352	-1.257
			30:COM17	30:COM17	22:COM9	26:COM13	22:COM9	22:COM9
930	543	+ve	16.825	1.133	0.172	0.193	0.200	0.568
			20:COM7	20:COM7	24:COM11	20:COM7	20:COM7	20:COM7
			-3.719	0.000	-0.282	-0.115	-0.090	-0.028
			30:COM17	-	18:COM5	30:COM17	30:COM17	30:COM17
	544	-ve	16.825	0.000	0.172	0.193	0.259	0.218
			20:COM7	-	24:COM11	20:COM7	24:COM11	28:COM15
			-3.719	-0.682	-0.282	-0.115	-0.370	-0.326
			30:COM17	22:COM9	18:COM5	30:COM17	18:COM5	22:COM9
931	544	+ve	14.886	0.817	0.422	0.236	0.280	0.356
			20:COM7	20:COM7	24:COM11	28:COM15	24:COM11	28:COM15
			-3.621	-0.107	-0.370	-0.373	-0.334	-0.552
			30:COM17	30:COM17	18:COM5	22:COM9	18:COM5	22:COM9
	545	-ve	14.886	0.000	0.422	0.236	0.517	0.852
			20:COM7	-	24:COM11	28:COM15	24:COM11	20:COM7
			-3.621	-1.394	-0.370	-0.373	-0.468	-0.058
			30:COM17	22:COM9	18:COM5	22:COM9	18:COM5	30:COM17
932	545	+ve	16.124	1.712	0.960	0.019	0.394	1.298
			20:COM7	28:COM15	16:COM3	24:COM11	24:COM11	28:COM15
			-11.295	-2.362	-0.443	-0.566	-0.866	-2.490
			30:COM17	22:COM9	26:COM13	18:COM5	18:COM5	22:COM9
	546	-ve	16.124	0.677	0.960	0.019	1.049	3.596
			20:COM7	28:COM15	16:COM3	24:COM11	16:COM3	20:COM7
			-11.295	-3.742	-0.443	-0.566	-0.489	-1.084
			30:COM17	22:COM9	26:COM13	18:COM5	26:COM13	30:COM17
933	546	+ve	13.701	13.124	1.559	3.914	0.722	9.357
			24:COM11	20:COM7	20:COM7	20:COM7	28:COM15	20:COM7
			-14.703	-9.433	-0.480	-1.812	-1.733	-7.291
			18:COM5	30:COM17	30:COM17	30:COM17	22:COM9	30:COM17
	112	-ve	13.701	11.745	1.559	3.914	1.374	12.540
			24:COM11	20:COM7	20:COM7	20:COM7	20:COM7	28:COM15
			-14.703	-10.468	-0.480	-1.812	-0.235	-15.426
			18:COM5	30:COM17	30:COM17	30:COM17	30:COM17	22:COM9

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
934	541	+ve	5.998	33.307	0.132	0.489	0.207	36.854
			24:COM1	16:COM3	24:COM1	16:COM3	16:COM3	16:COM3
			-12.945	-9.096	-0.167	-0.351	-0.142	-11.003
			18:COM5	26:COM1	18:COM5	26:COM1	26:COM1	26:COM1
	523	-ve	5.998	29.405	0.132	0.489	0.086	5.760
			24:COM1	16:COM3	24:COM1	16:COM3	16:COM3	24:COM1
			-12.945	-11.023	-0.167	-0.351	-0.079	-15.369
			18:COM5	26:COM1	18:COM5	26:COM1	26:COM1	18:COM5
935	542	+ve	1.319	10.631	0.073	0.164	0.123	15.629
			28:COM1	20:COM7	24:COM1	24:COM1	16:COM3	20:COM7
			-4.989	0.000	-0.125	-0.173	-0.074	0.000
			22:COM9	-	18:COM5	18:COM5	26:COM1	-
	524	-ve	1.319	6.226	0.073	0.164	0.064	0.817
			28:COM1	20:COM7	24:COM1	24:COM1	24:COM1	28:COM1
			-4.989	0.000	-0.125	-0.173	-0.113	-4.434
			22:COM9	-	18:COM5	18:COM5	18:COM5	22:COM9
936	543	+ve	0.883	10.094	0.011	0.018	0.071	13.803
			28:COM1	35:CVOL4	28:COM1	28:COM1	20:COM7	20:COM7
			-2.040	0.000	-0.072	-0.097	-0.018	0.000
			22:COM9	-	22:COM9	22:COM9	30:COM1	-
	525	-ve	0.883	4.856	0.011	0.018	0.004	1.753
			28:COM1	16:COM3	28:COM1	28:COM1	28:COM1	28:COM1
			-2.040	0.000	-0.072	-0.097	-0.080	-6.268
			22:COM9	-	22:COM9	22:COM9	22:COM9	22:COM9
937	544	+ve	0.865	10.445	0.015	0.044	0.071	15.051
			28:COM1	35:CVOL4	28:COM1	28:COM1	20:COM7	20:COM7
			-1.400	0.000	-0.062	-0.128	-0.019	0.000
			22:COM9	-	22:COM9	22:COM9	30:COM1	-
	526	-ve	0.865	4.607	0.015	0.044	0.015	0.108
			28:COM1	20:COM7	28:COM1	28:COM1	28:COM1	28:COM1
			-1.400	0.000	-0.062	-0.128	-0.073	-5.809
			22:COM9	-	22:COM9	22:COM9	22:COM9	22:COM9
938	545	+ve	1.878	12.173	0.019	0.144	0.079	18.128
			28:COM1	20:COM7	28:COM1	28:COM1	20:COM7	20:COM7
			-2.265	0.000	-0.061	-0.170	-0.028	-1.370
			22:COM9	-	22:COM9	22:COM9	30:COM1	30:COM1
	527	-ve	1.878	6.262	0.019	0.144	0.021	0.000
			28:COM1	20:COM7	28:COM1	28:COM1	28:COM1	-
			-2.265	-1.837	-0.061	-0.170	-0.074	-5.130
			22:COM9	30:COM1	22:COM9	22:COM9	22:COM9	22:COM9
939	546	+ve	4.318	17.982	0.031	0.246	0.082	25.615
			28:COM1	20:COM7	28:COM1	20:COM7	20:COM7	20:COM7
			-5.324	-3.792	-0.057	-0.207	-0.047	-7.960
			22:COM9	30:COM1	22:COM9	30:COM1	30:COM1	30:COM1
	528	-ve	4.318	11.568	0.031	0.246	0.038	6.755
			28:COM1	20:COM7	28:COM1	20:COM7	28:COM1	28:COM1
			-5.324	-6.960	-0.057	-0.207	-0.074	-14.825
			22:COM9	30:COM1	22:COM9	30:COM1	22:COM9	22:COM9

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
940	547	+ve	9.234	25.622	1.123	1.954	2.317	32.854
			24:COM1	34:CVOL3	28:COM1	24:COM1	20:COM7	20:COM7
			-12.411	0.000	-1.671	-4.329	-1.396	0.000
			18:COM5	-	22:COM9	18:COM5	30:COM1	-
	548	-ve	9.234	23.555	1.123	1.954	0.846	0.000
			24:COM1	34:CVOL3	28:COM1	24:COM1	28:COM1	-
			-12.411	0.000	-1.671	-4.329	-1.016	-18.302
			18:COM5	-	22:COM9	18:COM5	22:COM9	22:COM9
941	548	+ve	9.948	15.261	2.083	1.336	0.103	0.000
			24:COM1	34:CVOL3	16:COM3	24:COM1	28:COM1	-
			-9.595	0.000	-0.329	-2.472	-1.243	-17.866
			18:COM5	-	26:COM1	18:COM5	22:COM9	22:COM9
	549	-ve	9.948	13.194	2.083	1.336	2.914	0.000
			24:COM1	34:CVOL3	16:COM3	24:COM1	16:COM3	-
			-9.595	0.000	-0.329	-2.472	-0.562	-44.768
			18:COM5	-	26:COM1	18:COM5	26:COM1	35:CVOL4
942	549	+ve	7.790	4.751	2.792	0.000	0.547	0.000
			24:COM1	34:CVOL3	16:COM3	-	24:COM11	-
			-9.049	0.000	-0.506	-2.249	-3.334	-44.757
			18:COM5	-	26:COM1	18:COM5	18:COM5	35:CVOL4
	550	-ve	7.790	2.684	2.792	0.000	2.227	0.000
			24:COM1	34:CVOL3	16:COM3	-	16:COM3	-
			-9.049	0.000	-0.506	-2.249	-0.462	-52.151
			18:COM5	-	26:COM1	18:COM5	26:COM1	35:CVOL4
943	550	+ve	6.805	0.000	1.000	0.000	0.390	0.000
			24:COM1	-	20:COM7	-	24:COM11	-
			-9.039	-8.384	-0.390	-1.984	-1.212	-52.936
			18:COM5	35:CVOL4	30:COM1	22:COM9	18:COM5	35:CVOL4
	551	-ve	6.805	0.000	1.000	0.000	0.809	0.000
			24:COM1	-	20:COM7	-	20:COM7	-
			-9.039	-10.452	-0.390	-1.984	-0.416	-34.188
			18:COM5	35:CVOL4	30:COM1	22:COM9	30:COM1	34:CVOL3
944	551	+ve	5.813	0.000	0.267	1.782	0.454	0.000
			24:COM1	-	24:COM11	16:COM3	16:COM3	-
			-6.516	-25.071	-0.370	-0.970	-0.351	-34.937
			18:COM5	35:CVOL4	18:COM5	26:COM1	26:COM1	34:CVOL3
	552	-ve	5.813	0.000	0.267	1.782	0.414	20.049
			24:COM1	-	24:COM11	16:COM3	28:COM1	20:COM7
			-6.516	-27.138	-0.370	-0.970	-0.516	0.000
			18:COM5	35:CVOL4	18:COM5	26:COM1	22:COM9	-
945	552	+ve	7.309	0.000	0.519	16.541	1.138	17.029
			24:COM1	-	28:COM1	16:COM3	20:COM7	20:COM7
			-9.168	-56.545	-1.094	0.000	-0.523	-0.131
			18:COM5	35:CVOL4	22:COM9	-	30:COM1	30:COM1
	128	-ve	7.309	0.000	0.519	16.541	0.516	125.926
			24:COM1	-	28:COM1	16:COM3	28:COM1	35:CVOL4
			-9.168	-58.592	-1.094	0.000	-1.034	0.000
			18:COM5	35:CVOL4	22:COM9	-	22:COM9	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
946	547	+ve	6.447	0.611	0.104	0.459	0.077	8.665
			16:COM3	20:COM7	20:COM7	16:COM3	20:COM7	20:COM7
			-5.834	-0.437	-0.103	0.000	-0.070	0.000
			26:COM1	30:COM1	30:COM1	-	30:COM1	-
	459	-ve	6.447	0.000	0.104	0.459	0.057	9.778
			16:COM3	-	20:COM7	16:COM3	20:COM7	34:CVOL3
			-5.834	-3.268	-0.103	0.000	-0.047	0.000
			26:COM1	35:CVOL4	30:COM1	-	30:COM1	-
947	548	+ve	4.290	0.478	0.029	0.373	0.021	2.282
			16:COM3	16:COM3	16:COM3	20:COM7	24:COM1	20:COM7
			-3.767	-0.029	-0.019	0.000	-0.035	-1.153
			26:COM1	26:COM1	26:COM1	-	18:COM5	30:COM1
	460	-ve	4.290	0.000	0.029	0.373	0.038	8.522
			16:COM3	-	16:COM3	20:COM7	16:COM3	20:COM7
			-3.767	-6.512	-0.019	0.000	-0.025	0.000
			26:COM1	34:CVOL3	26:COM1	-	26:COM1	-
948	549	+ve	3.848	2.300	0.027	0.282	0.023	0.000
			16:COM3	35:CVOL4	16:COM3	20:COM7	24:COM1	-
			-3.302	0.000	-0.012	0.000	-0.054	-3.309
			26:COM1	-	26:COM1	-	18:COM5	22:COM9
	461	-ve	3.848	0.000	0.027	0.282	0.047	8.206
			16:COM3	-	16:COM3	20:COM7	16:COM3	20:COM7
			-3.302	-8.211	-0.012	0.000	-0.023	0.000
			26:COM1	34:CVOL3	26:COM1	-	26:COM1	-
949	550	+ve	4.003	4.622	0.009	0.151	0.014	0.000
			16:COM3	35:CVOL4	16:COM3	20:COM7	24:COM1	-
			-3.016	0.000	-0.006	-0.048	-0.023	-3.361
			26:COM1	-	26:COM1	30:COM1	18:COM5	22:COM9
	462	-ve	4.003	0.000	0.009	0.151	0.023	9.663
			16:COM3	-	16:COM3	20:COM7	16:COM3	20:COM7
			-3.016	-9.504	-0.006	-0.048	-0.015	0.000
			26:COM1	34:CVOL3	26:COM1	30:COM1	26:COM1	-
950	551	+ve	4.388	6.934	0.004	0.019	0.010	1.299
			16:COM3	35:CVOL4	16:COM3	28:COM1	24:COM1	20:COM7
			-2.944	0.000	-0.003	-0.213	-0.011	-1.692
			26:COM1	-	26:COM1	22:COM9	18:COM5	30:COM1
	463	-ve	4.388	0.000	0.004	0.019	0.012	13.271
			16:COM3	-	16:COM3	28:COM1	16:COM3	20:COM7
			-2.944	-10.812	-0.003	-0.213	-0.010	0.000
			26:COM1	34:CVOL3	26:COM1	22:COM9	26:COM1	-
951	552	+ve	5.406	9.081	0.001	0.000	0.005	7.833
			16:COM3	35:CVOL4	20:COM7	-	24:COM1	20:COM7
			-3.615	0.000	-0.001	-0.426	-0.005	-0.078
			26:COM1	-	30:COM1	22:COM9	18:COM5	30:COM1
	84	-ve	5.406	0.000	0.001	0.000	0.005	19.917
			16:COM3	-	20:COM7	-	20:COM7	20:COM7
			-3.615	-12.288	-0.001	-0.426	-0.004	0.000
			26:COM1	34:CVOL3	30:COM1	22:COM9	30:COM1	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
952	5877	+ve	19.850	46.191	2.763	8.541	3.521	15.033
			16:COM3	34:CVOL3	24:COM11	20:COM7	16:COM3	16:COM3
			-12.060	0.000	-4.759	-0.623	-2.514	0.000
			26:COM13	-	18:COM5	30:COM17	26:COM13	-
	5892	-ve	19.850	45.135	2.763	8.541	1.075	0.000
			16:COM3	34:CVOL3	24:COM11	20:COM7	28:COM15	-
			-12.060	0.000	-4.759	-0.623	-1.590	-23.050
			26:COM13	-	18:COM5	30:COM17	22:COM9	18:COM5
953	5878	+ve	19.617	19.337	2.254	10.210	1.311	0.000
			16:COM3	34:CVOL3	28:COM15	35:CVOL4	28:COM15	-
			-11.220	0.000	-3.401	0.000	-1.497	-60.736
			26:COM13	-	22:COM9	-	22:COM9	35:CVOL4
	5893	-ve	19.617	18.675	2.254	10.210	0.373	0.000
			16:COM3	34:CVOL3	28:COM15	35:CVOL4	24:COM11	-
			-11.220	0.000	-3.401	0.000	-1.109	-69.822
			26:COM13	-	22:COM9	-	18:COM5	35:CVOL4
954	5879	+ve	13.300	0.000	0.377	0.000	0.301	0.000
			20:COM7	-	20:COM7	-	28:COM15	-
			-6.169	-20.927	-0.250	-6.945	-0.547	-73.420
			30:COM17	35:CVOL4	30:COM17	22:COM9	22:COM9	34:CVOL3
	5881	-ve	13.300	0.000	0.377	0.000	0.277	0.000
			20:COM7	-	20:COM7	-	20:COM7	-
			-6.169	-23.918	-0.250	-6.945	-0.248	-25.736
			30:COM17	35:CVOL4	30:COM17	22:COM9	30:COM17	18:COM5
955	5880	+ve	10.929	0.000	4.052	6.366	0.179	104.045
			20:COM7	-	16:COM3	28:COM15	24:COM11	35:CVOL4
			-3.140	-84.735	-1.191	-12.167	-1.064	0.000
			30:COM17	35:CVOL4	26:COM13	22:COM9	18:COM5	-
	130	-ve	10.929	0.000	4.052	6.366	2.090	169.023
			20:COM7	-	16:COM3	28:COM15	16:COM3	35:CVOL4
			-3.140	-85.789	-1.191	-12.167	-0.795	0.000
			30:COM17	35:CVOL4	26:COM13	22:COM9	26:COM13	-
960	5881	+ve	13.292	0.000	0.572	0.000	0.214	0.000
			20:COM7	-	16:COM3	-	28:COM15	-
			-5.086	-51.637	-0.231	-12.900	-0.460	-18.403
			30:COM17	35:CVOL4	26:COM13	22:COM9	22:COM9	18:COM5
	5880	-ve	13.292	0.000	0.572	0.000	0.752	87.766
			20:COM7	-	16:COM3	-	16:COM3	35:CVOL4
			-5.086	-54.343	-0.231	-12.900	-0.332	0.000
			30:COM17	35:CVOL4	26:COM13	22:COM9	26:COM13	-
962	5882	+ve	8.623	27.444	3.046	1.004	0.390	0.000
			28:COM15	34:CVOL3	24:COM11	28:COM15	24:COM11	-
			-7.830	0.000	-2.536	-5.061	-1.035	-30.963
			22:COM9	-	18:COM5	22:COM9	18:COM5	35:CVOL4
	5919	-ve	8.623	26.161	3.046	1.004	1.864	0.000
			28:COM15	34:CVOL3	24:COM11	28:COM15	24:COM11	-
			-7.830	0.000	-2.536	-5.061	-2.036	-55.759
			22:COM9	-	18:COM5	22:COM9	18:COM5	35:CVOL4

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
963	5883	+ve	10.000	1.742	4.650	5.634	0.574	0.000
			20:COM7	24:COM11	16:COM3	20:COM7	24:COM11	-
			-8.891	-2.196	-3.412	0.000	-0.769	-74.409
			30:COM17	18:COM5	26:COM13	-	18:COM5	34:CVOL3
	5920	-ve	10.000	0.599	4.650	5.634	4.501	0.000
			20:COM7	24:COM11	16:COM3	20:COM7	16:COM3	-
			-8.891	-3.719	-3.412	0.000	-3.332	-72.778
			30:COM17	18:COM5	26:COM13	-	26:COM13	34:CVOL3
964	5884	+ve	8.412	0.000	2.585	5.895	0.553	0.000
			28:COM15	-	16:COM3	35:CVOL4	24:COM11	-
			-9.499	-26.324	-1.585	0.000	-1.680	-66.334
			22:COM9	35:CVOL4	26:COM13	-	18:COM5	34:CVOL3
	5921	-ve	8.412	0.000	2.585	5.895	1.624	0.000
			28:COM15	-	16:COM3	35:CVOL4	16:COM3	-
			-9.499	-28.085	-1.585	0.000	-1.479	-31.753
			22:COM9	35:CVOL4	26:COM13	-	26:COM13	34:CVOL3
965	5885	+ve	10.592	0.000	0.754	2.420	0.354	0.583
			28:COM15	-	16:COM3	28:COM15	24:COM11	24:COM17
			-10.796	-47.677	-0.668	-7.360	-0.666	-14.967
			22:COM9	34:CVOL3	26:COM13	22:COM9	18:COM5	18:COM5
	5886	-ve	10.592	0.000	0.754	2.420	0.815	84.746
			28:COM15	-	16:COM3	28:COM15	24:COM11	35:CVOL4
			-10.796	-50.382	-0.668	-7.360	-0.959	0.000
			22:COM9	34:CVOL3	26:COM13	22:COM9	18:COM5	-
966	5886	+ve	9.989	0.000	1.774	7.859	0.465	84.289
			24:COM17	-	28:COM15	28:COM15	20:COM7	34:CVOL3
			-10.401	-70.982	-1.682	-19.285	-0.496	0.000
			18:COM5	34:CVOL3	22:COM9	22:COM9	30:COM17	-
	132	-ve	9.989	0.000	1.774	7.859	1.052	146.717
			24:COM17	-	28:COM15	28:COM15	28:COM15	34:CVOL3
			-10.401	-72.189	-1.682	-19.285	-1.004	0.000
			18:COM5	34:CVOL3	22:COM9	22:COM9	22:COM9	-
987	414	+ve	1.951	12.291	0.002	0.000	0.001	16.272
			20:COM7	35:CVOL4	16:COM3	-	24:COM11	35:CVOL4
			-0.816	0.000	-0.001	-0.395	-0.007	0.000
			30:COM17	-	26:COM13	35:CVOL4	18:COM5	-
	5920	-ve	1.951	0.000	0.002	0.000	0.009	15.161
			20:COM7	-	16:COM3	-	16:COM3	34:CVOL3
			-0.816	-12.042	-0.001	-0.395	-0.004	0.000
			30:COM17	34:CVOL3	26:COM13	35:CVOL4	26:COM13	-
988	413	+ve	2.038	12.332	0.001	0.000	0.005	9.981
			16:COM3	35:CVOL4	24:COM11	-	16:COM3	35:CVOL4
			-1.079	0.000	-0.001	-1.274	-0.003	0.000
			26:COM13	-	18:COM5	35:CVOL4	26:COM13	-
	5919	-ve	2.038	0.000	0.001	0.000	0.004	22.380
			16:COM3	-	24:COM11	-	24:COM11	34:CVOL3
			-1.079	-14.981	-0.001	-1.274	-0.006	0.000
			26:COM13	34:CVOL3	18:COM5	35:CVOL4	18:COM5	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
989	412	+ve	1.836	12.031	0.001	0.000	0.004	5.299
			24:COM1	35:CVOL4	28:COM1	-	20:COM7	35:CVOL4
			-1.559	0.000	-0.001	-0.796	-0.004	0.000
			18:COM5	-	22:COM9	35:CVOL4	30:COM1	-
	5918	-ve	1.836	0.000	0.001	0.000	0.005	33.160
			24:COM1	-	28:COM1	-	24:COM1	34:CVOL3
			-1.559	-17.523	-0.001	-0.796	-0.004	0.000
			18:COM5	34:CVOL3	22:COM9	35:CVOL4	18:COM5	-
990	568	+ve	9.056	11.964	0.206	0.000	0.393	0.000
			24:COM1	20:COM7	20:COM7	-	28:COM1	-
			-10.960	0.000	-0.172	-2.090	-0.415	-18.327
			18:COM5	-	30:COM1	22:COM9	22:COM9	22:COM9
	569	-ve	9.056	9.029	0.206	0.000	0.285	0.000
			24:COM1	20:COM7	20:COM7	-	20:COM7	-
			-10.960	0.000	-0.172	-2.090	-0.193	-45.712
			18:COM5	-	30:COM1	22:COM9	30:COM1	35:CVOL4
991	569	+ve	5.752	0.000	0.113	4.397	0.062	0.000
			24:COM1	-	20:COM7	16:COM3	28:COM1	-
			-8.069	-15.098	-0.037	0.000	-0.236	-24.600
			18:COM5	22:COM9	30:COM1	-	22:COM9	34:CVOL3
	130	-ve	5.752	0.000	0.113	4.397	0.229	48.385
			24:COM1	-	20:COM7	16:COM3	20:COM7	20:COM7
			-8.069	-18.638	-0.037	0.000	-0.088	0.000
			18:COM5	22:COM9	30:COM1	-	30:COM1	-
992	409	+ve	3.213	3.600	0.004	0.539	0.016	0.000
			20:COM7	34:CVOL3	28:COM1	34:CVOL3	20:COM7	-
			-1.932	0.000	-0.007	0.000	-0.007	-1.391
			30:COM1	-	22:COM9	-	30:COM1	18:COM5
	568	-ve	3.213	0.000	0.004	0.539	0.011	12.231
			20:COM7	-	28:COM1	34:CVOL3	28:COM1	20:COM7
			-1.932	-9.388	-0.007	0.000	-0.015	0.000
			30:COM1	35:CVOL4	22:COM9	-	22:COM9	-
993	410	+ve	1.834	8.811	0.002	0.539	0.006	2.570
			16:COM3	35:CVOL4	20:COM7	34:CVOL3	28:COM1	20:COM7
			-1.185	0.000	-0.001	0.000	-0.007	0.000
			26:COM1	-	30:COM1	-	22:COM9	-
	569	-ve	1.834	0.000	0.002	0.539	0.006	14.217
			16:COM3	-	20:COM7	34:CVOL3	16:COM3	35:CVOL4
			-1.185	-11.991	-0.001	0.000	-0.004	0.000
			26:COM1	34:CVOL3	30:COM1	-	26:COM1	-
994	130	+ve	10.171	70.500	0.293	5.490	0.996	154.844
			20:COM7	34:CVOL3	28:COM1	28:COM1	20:COM7	34:CVOL3
			-8.424	0.000	-1.511	-14.142	-0.261	0.000
			30:COM1	-	22:COM9	22:COM9	30:COM1	-
	5924	-ve	10.171	68.850	0.293	5.490	0.103	71.734
			20:COM7	34:CVOL3	28:COM1	28:COM1	28:COM1	34:CVOL3
			-8.424	0.000	-1.511	-14.142	-0.820	0.000
			30:COM1	-	22:COM9	22:COM9	22:COM9	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
995	411	+ve	2.070	12.127	0.001	0.401	0.003	5.864
			24:COM1	35:CVOL4	16:COM3	16:COM3	20:COM7	20:COM7
			-2.193	0.000	-0.001	0.000	-0.004	-0.076
			18:COM5	-	26:COM1	-	30:COM1	30:COM1
	130	-ve	2.070	0.000	0.001	0.401	0.005	45.320
			24:COM1	-	16:COM3	16:COM3	16:COM3	34:CVOL
			-2.193	-19.475	-0.001	0.000	-0.004	0.000
			18:COM5	34:CVOL	26:COM1	-	26:COM1	-
998	71	+ve	2.332	9.745	0.001	0.442	0.007	17.416
			16:COM3	35:CVOL4	28:COM1	34:CVOL	20:COM7	20:COM7
			-2.230	0.000	-0.002	0.000	-0.001	-1.603
			26:COM1	-	22:COM9	-	30:COM1	30:COM1
	5921	-ve	2.332	0.000	0.001	0.442	0.003	8.714
			16:COM3	-	28:COM1	34:CVOL	28:COM1	20:COM7
			-2.230	-7.847	-0.002	0.000	-0.007	-0.578
			26:COM1	22:COM9	22:COM9	-	22:COM9	30:COM1
1005	433	+ve	2.894	4.705	0.016	0.213	0.023	3.190
			20:COM7	20:COM7	16:COM3	20:COM7	24:COM1	28:COM1
			0.000	0.000	-0.011	-0.180	-0.037	-4.916
			-	-	26:COM1	30:COM1	18:COM5	22:COM9
	601	-ve	2.894	0.000	0.016	0.213	0.036	8.657
			20:COM7	-	16:COM3	20:COM7	16:COM3	34:CVOL
			0.000	-8.520	-0.011	-0.180	-0.027	0.000
			-	35:CVOL4	26:COM1	30:COM1	26:COM1	-
1006	434	+ve	2.747	3.160	0.024	0.176	0.026	0.000
			24:COM1	16:COM3	16:COM3	20:COM7	24:COM1	-
			-2.472	0.000	-0.011	-0.078	-0.059	-5.315
			18:COM5	-	26:COM1	30:COM1	18:COM5	18:COM5
	600	-ve	2.747	0.000	0.024	0.176	0.049	12.141
			24:COM1	-	16:COM3	20:COM7	16:COM3	16:COM3
			-2.472	-9.730	-0.011	-0.078	-0.021	0.000
			18:COM5	34:CVOL	26:COM1	30:COM1	26:COM1	-
1007	435	+ve	1.591	3.791	0.036	0.063	0.051	0.000
			16:COM3	20:COM7	16:COM3	24:COM1	24:COM1	-
			-0.474	-0.981	-0.022	-0.097	-0.083	-6.671
			26:COM1	30:COM1	26:COM1	18:COM5	18:COM5	22:COM9
	599	-ve	1.591	0.000	0.036	0.063	0.075	14.860
			16:COM3	-	16:COM3	24:COM1	16:COM3	20:COM7
			-0.474	-10.046	-0.022	-0.097	-0.045	-1.014
			26:COM1	22:COM9	26:COM1	18:COM5	26:COM1	30:COM1
1008	436	+ve	2.171	4.296	0.006	0.031	0.018	0.826
			16:COM3	20:COM7	24:COM1	24:COM1	16:COM3	28:COM1
			-0.315	-1.104	-0.009	-0.109	-0.014	-6.553
			26:COM1	30:COM1	18:COM5	18:COM5	26:COM1	22:COM9
	604	-ve	2.171	0.000	0.006	0.031	0.011	14.319
			16:COM3	-	24:COM1	24:COM1	24:COM1	20:COM7
			-0.315	-9.890	-0.009	-0.109	-0.019	-1.975
			26:COM1	22:COM9	18:COM5	18:COM5	18:COM5	30:COM1

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
1009	437	+ve	2.423	3.856	0.006	0.065	0.019	0.000
			24:COM1	20:COM7	24:COM1	28:COM1	16:COM3	-
			-2.365	0.000	-0.009	-0.136	-0.015	-3.470
			18:COM5	-	18:COM5	22:COM9	26:COM1	22:COM9
	603	-ve	2.423	0.000	0.006	0.065	0.012	11.243
			24:COM1	-	24:COM1	28:COM1	24:COM1	20:COM7
			-2.365	-8.698	-0.009	-0.136	-0.020	-0.580
			18:COM5	34:CVOL	18:COM5	22:COM9	18:COM5	30:COM1
1010	438	+ve	4.959	4.732	0.004	0.159	0.031	4.271
			28:COM1	16:COM3	24:COM1	28:COM1	16:COM3	28:COM1
			-5.969	-0.166	-0.015	-0.183	-0.008	-7.166
			22:COM9	26:COM1	18:COM5	22:COM9	26:COM1	22:COM9
	79	-ve	4.959	0.000	0.004	0.159	0.010	7.610
			28:COM1	-	24:COM1	28:COM1	24:COM1	16:COM3
			-5.969	-8.399	-0.015	-0.183	-0.033	0.000
			22:COM9	18:COM5	18:COM5	22:COM9	18:COM5	-
1011	577	+ve	8.229	3.987	0.622	0.581	1.174	4.192
			16:COM3	16:COM3	28:COM1	16:COM3	20:COM7	16:COM3
			-6.469	-0.707	-1.124	-0.077	-0.662	-1.321
			26:COM1	26:COM1	22:COM9	26:COM1	30:COM1	26:COM1
	578	-ve	8.229	2.615	0.622	0.581	0.572	1.112
			16:COM3	16:COM3	28:COM1	16:COM3	28:COM1	24:COM1
			-6.469	-1.736	-1.124	-0.077	-1.055	-2.364
			26:COM1	26:COM1	22:COM9	26:COM1	22:COM9	18:COM5
1012	578	+ve	10.591	1.127	0.485	0.423	0.604	0.777
			20:COM7	20:COM7	16:COM3	20:COM7	24:COM1	16:COM3
			-2.694	0.000	-0.546	-0.367	-0.581	-0.209
			30:COM1	-	26:COM1	30:COM1	18:COM5	26:COM1
	579	-ve	10.591	0.000	0.485	0.423	0.395	0.320
			20:COM7	-	16:COM3	20:COM7	24:COM1	20:COM7
			-2.694	-0.899	-0.546	-0.367	-0.492	-0.173
			30:COM1	22:COM9	26:COM1	30:COM1	18:COM5	30:COM1
1013	579	+ve	14.851	0.503	0.298	0.141	0.415	0.156
			16:COM3	28:COM1	24:COM1	28:COM1	24:COM1	28:COM1
			-5.421	0.000	-0.318	-0.218	-0.478	-0.526
			26:COM1	-	18:COM5	22:COM9	18:COM5	22:COM9
	580	-ve	14.851	0.000	0.298	0.141	0.140	0.898
			16:COM3	-	24:COM1	28:COM1	24:COM1	16:COM3
			-5.421	-1.332	-0.318	-0.218	-0.242	0.000
			26:COM1	22:COM9	18:COM5	22:COM9	18:COM5	-
1014	580	+ve	25.199	0.530	0.402	0.070	0.157	0.010
			16:COM3	28:COM1	28:COM1	24:COM1	20:COM7	28:COM1
			-13.307	-1.029	-0.347	-0.271	-0.171	-1.303
			26:COM1	22:COM9	22:COM9	18:COM5	30:COM1	22:COM9
	581	-ve	25.199	0.000	0.402	0.070	0.678	2.127
			16:COM3	-	28:COM1	24:COM1	28:COM1	20:COM7
			-13.307	-2.401	-0.347	-0.271	-0.581	-0.050
			26:COM1	22:COM9	22:COM9	18:COM5	22:COM9	30:COM1

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
1015	581	+ve	19.396	2.899	2.104	0.030	1.184	1.947
			16:COM3	28:COM15	20:COM7	28:COM15	28:COM15	28:COM15
			-12.477	-6.212	-1.528	-0.587	-1.632	-5.397
			26:COM13	22:COM9	30:COM17	22:COM9	22:COM9	22:COM9
	582	-ve	19.396	1.870	2.104	0.030	2.540	8.300
			16:COM3	28:COM15	20:COM7	28:COM15	20:COM7	20:COM7
			-12.477	-7.584	-1.528	-0.587	-1.846	-2.802
			26:COM13	22:COM9	30:COM17	22:COM9	30:COM17	30:COM17
1016	582	+ve	31.597	9.150	3.244	6.668	2.673	7.069
			28:COM15	24:COM11	20:COM7	20:COM7	28:COM15	24:COM11
			-49.960	-9.033	-2.120	-4.574	-3.936	-7.725
			22:COM9	18:COM5	30:COM17	30:COM17	22:COM9	18:COM5
	107	-ve	31.597	8.121	3.244	6.668	2.501	11.549
			28:COM15	24:COM11	20:COM7	20:COM7	20:COM7	16:COM3
			-49.960	-10.405	-2.120	-4.574	-1.536	-10.058
			22:COM9	18:COM5	30:COM17	30:COM17	30:COM17	26:COM13
1017	577	+ve	4.452	20.998	0.039	0.287	0.032	30.170
			28:COM15	20:COM7	16:COM3	28:COM15	28:COM15	20:COM7
			-4.903	-5.661	-0.019	-0.270	-0.056	-11.120
			22:COM9	30:COM17	26:COM13	22:COM9	22:COM9	30:COM17
	433	-ve	4.452	14.601	0.039	0.287	0.052	8.645
			28:COM15	20:COM7	16:COM3	28:COM15	16:COM3	28:COM15
			-4.903	-8.821	-0.019	-0.270	-0.024	-18.416
			22:COM9	30:COM17	26:COM13	22:COM9	26:COM13	22:COM9
1018	578	+ve	1.732	13.757	0.031	0.241	0.006	20.118
			28:COM15	20:COM7	16:COM3	20:COM7	28:COM15	20:COM7
			-2.389	0.000	0.000	-0.183	-0.042	-2.882
			22:COM9	-	-	30:COM17	22:COM9	30:COM17
	434	-ve	1.732	7.862	0.031	0.241	0.038	0.000
			28:COM15	20:COM7	16:COM3	20:COM7	16:COM3	-
			-2.389	-2.360	0.000	-0.183	0.000	-7.081
			22:COM9	30:COM17	-	30:COM17	-	22:COM9
1019	579	+ve	0.710	10.813	0.025	0.157	0.000	15.446
			28:COM15	35:CVOL4	16:COM3	20:COM7	-	20:COM7
			-1.980	0.000	0.000	-0.072	-0.023	0.000
			22:COM9	-	-	30:COM17	18:COM5	-
	435	-ve	0.710	4.983	0.025	0.157	0.039	0.009
			28:COM15	20:COM7	16:COM3	20:COM7	16:COM3	28:COM15
			-1.980	0.000	0.000	-0.072	-0.004	-6.885
			22:COM9	-	-	30:COM17	26:COM13	22:COM9
1020	580	+ve	0.542	10.387	0.039	0.110	0.059	13.568
			28:COM15	35:CVOL4	24:COM11	16:COM3	16:COM3	20:COM7
			-2.152	0.000	-0.058	-0.019	-0.039	0.000
			22:COM9	-	18:COM5	26:COM13	26:COM13	-
	436	-ve	0.542	4.707	0.039	0.110	0.043	2.024
			28:COM15	16:COM3	24:COM11	16:COM3	24:COM11	28:COM15
			-2.152	0.000	-0.058	-0.019	-0.061	-7.564
			22:COM9	-	18:COM5	26:COM13	18:COM5	22:COM9

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
1021	581	+ve	2.501	10.928	0.058	0.210	0.101	15.980
			28:COM1	20:COM7	24:COM1	16:COM3	16:COM3	20:COM7
			-4.841	0.000	-0.099	-0.130	-0.062	-1.805
			22:COM9	-	18:COM5	26:COM1	26:COM1	30:COM1
	437	-ve	2.501	6.538	0.058	0.210	0.048	0.822
			28:COM1	20:COM7	24:COM1	16:COM3	24:COM1	28:COM1
			-4.841	0.000	-0.099	-0.130	-0.087	-5.044
			22:COM9	-	18:COM5	26:COM1	18:COM5	22:COM9
1022	582	+ve	7.357	30.967	0.106	0.405	0.179	34.602
			28:COM1	20:COM7	24:COM1	16:COM3	16:COM3	20:COM7
			-11.517	-14.272	-0.182	-0.350	-0.129	-17.456
			22:COM9	30:COM1	18:COM5	26:COM1	26:COM1	30:COM1
	438	-ve	7.357	27.079	0.106	0.405	0.054	7.821
			28:COM1	20:COM7	24:COM1	16:COM3	24:COM1	28:COM1
			-11.517	-16.192	-0.182	-0.350	-0.130	-13.557
			22:COM9	30:COM1	18:COM5	26:COM1	18:COM5	22:COM9
1023	583	+ve	15.111	3.286	0.407	0.000	0.764	2.659
			16:COM3	16:COM3	16:COM3	-	16:COM3	16:COM3
			-14.949	0.000	-0.223	-3.290	-0.568	0.000
			26:COM1	-	26:COM1	35:CVOL	26:COM1	-
	584	-ve	15.111	0.000	0.407	0.000	1.210	0.000
			16:COM3	-	16:COM3	-	20:COM7	-
			-14.949	-1.092	-0.223	-3.290	-0.634	-0.630
			26:COM1	33:CVOL2	26:COM1	35:CVOL	30:COM1	35:CVOL
1024	584	+ve	12.627	1.265	0.894	4.666	1.473	0.241
			20:COM7	24:COM1	16:COM3	20:COM7	16:COM3	24:COM1
			-9.991	0.000	-0.601	0.000	-0.774	-0.637
			30:COM1	-	26:COM1	-	26:COM1	18:COM5
	585	-ve	12.627	0.000	0.894	4.666	2.217	2.457
			20:COM7	-	16:COM3	20:COM7	20:COM7	16:COM3
			-9.991	-3.283	-0.601	0.000	-0.914	0.000
			30:COM1	18:COM5	26:COM1	-	30:COM1	-
1025	585	+ve	10.840	4.976	4.735	2.895	0.317	2.630
			28:COM1	16:COM3	20:COM7	35:CVOL	28:COM1	16:COM3
			-15.627	-2.171	-0.515	-0.133	-5.475	-1.719
			22:COM9	26:COM1	30:COM1	30:COM1	22:COM9	26:COM1
	586	-ve	10.840	2.011	4.735	2.895	4.298	5.844
			28:COM1	24:COM1	20:COM7	35:CVOL	20:COM7	16:COM3
			-15.627	-5.442	-0.515	-0.133	-0.763	-4.288
			22:COM9	18:COM5	30:COM1	30:COM1	30:COM1	26:COM1
1031	6100	+ve	43.993	0.000	6.325	0.000	1.671	13.762
			16:COM3	-	20:COM7	-	28:COM1	24:COM1
			-34.657	-48.304	-2.463	-24.592	-5.466	-14.836
			26:COM1	35:CVOL4	30:COM1	34:CVOL	22:COM9	18:COM5
	5582	-ve	43.993	0.000	6.325	0.000	7.139	106.083
			16:COM3	-	20:COM7	-	20:COM7	16:COM3
			-34.657	-51.061	-2.463	-24.592	-3.240	0.000
			26:COM1	35:CVOL4	30:COM1	34:CVOL	30:COM1	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
1032	6099	+ve	35.006	0.000	1.963	0.000	0.611	0.000
			16:COM3	-	16:COM3	-	24:COM11	-
			-30.650	-24.415	-0.979	-10.226	-1.987	-54.828
			26:COM13	18:COM5	26:COM13	34:CVOL3	18:COM5	35:CVOL4
	6100	-ve	35.006	0.000	1.963	0.000	2.130	13.869
			16:COM3	-	16:COM3	-	16:COM3	24:COM11
			-30.650	-27.307	-0.979	-10.226	-1.449	-14.722
			26:COM13	18:COM5	26:COM13	34:CVOL3	26:COM13	18:COM5
1033	6098	+ve	28.656	5.861	1.127	1.518	0.388	0.000
			16:COM3	16:COM3	16:COM3	28:COM15	24:COM11	-
			-26.143	-3.370	-0.515	-1.882	-0.843	-54.356
			26:COM13	26:COM13	26:COM13	22:COM9	18:COM5	35:CVOL4
	6099	-ve	28.656	3.272	1.127	1.518	1.505	0.000
			16:COM3	24:COM11	16:COM3	28:COM15	16:COM3	-
			-26.143	-5.825	-0.515	-1.882	-0.685	-54.488
			26:COM13	18:COM5	26:COM13	22:COM9	26:COM13	35:CVOL4
1034	6097	+ve	21.754	28.677	0.645	9.921	1.390	14.925
			16:COM3	35:CVOL4	24:COM11	20:COM7	16:COM3	16:COM3
			-21.655	0.000	-1.277	-1.977	-0.805	-12.331
			26:COM13	-	18:COM5	30:COM17	26:COM13	26:COM13
	6098	-ve	21.754	25.805	0.645	9.921	0.536	0.000
			16:COM3	35:CVOL4	24:COM11	20:COM7	24:COM11	-
			-21.655	0.000	-1.277	-1.977	-1.263	-54.253
			26:COM13	-	18:COM5	30:COM17	18:COM5	35:CVOL4
1039	599	+ve	13.175	2.265	0.450	0.614	1.093	3.023
			24:COM11	24:COM11	24:COM11	28:COM15	16:COM3	16:COM3
			-37.647	-5.205	-3.348	-1.056	-0.082	-2.298
			18:COM5	18:COM5	18:COM5	22:COM9	26:COM13	26:COM13
	78	-ve	13.175	1.265	0.450	0.614	0.534	5.605
			24:COM11	24:COM11	24:COM11	28:COM15	24:COM11	16:COM3
			-37.647	-6.538	-3.348	-1.056	-3.245	0.000
			18:COM5	18:COM5	18:COM5	22:COM9	18:COM5	-
1040	600	+ve	141.952	0.000	0.511	4.450	0.399	16.948
			16:COM3	-	20:COM7	28:COM15	20:COM7	24:COM11
			-98.881	-35.212	-0.310	-6.184	-0.479	-15.095
			26:COM13	18:COM5	30:COM17	22:COM9	30:COM17	18:COM5
	5372	-ve	141.952	0.000	0.511	4.450	0.474	48.917
			16:COM3	-	20:COM7	28:COM15	16:COM3	16:COM3
			-98.881	-36.146	-0.310	-6.184	-0.373	-13.509
			26:COM13	18:COM5	30:COM17	22:COM9	26:COM13	26:COM13
1041	601	+ve	87.518	7.159	2.134	1.098	2.989	0.000
			16:COM3	24:COM11	24:COM11	20:COM7	16:COM3	-
			-65.902	-14.811	-2.148	-1.463	-2.631	-14.531
			26:COM13	18:COM5	18:COM5	30:COM17	26:COM13	18:COM5
	600	-ve	87.518	5.621	2.134	1.098	1.606	17.004
			16:COM3	24:COM11	24:COM11	20:COM7	16:COM3	24:COM11
			-65.902	-16.861	-2.148	-1.463	-1.275	-15.288
			26:COM13	18:COM5	18:COM5	30:COM17	26:COM13	18:COM5

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
1043	603	+ve	0.232	0.000	1.001	0.083	0.564	0.000
			24:COM1	-	16:COM3	24:COM1	24:COM1	-
			-22.897	-5.072	-0.669	-0.744	-1.037	-7.143
			18:COM5	18:COM5	26:COM1	18:COM5	18:COM5	18:COM5
	79	-ve	0.232	0.000	1.001	0.083	1.078	6.473
			24:COM1	-	16:COM3	24:COM1	16:COM3	16:COM3
			-22.897	-7.186	-0.669	-0.744	-0.874	0.000
			18:COM5	18:COM5	26:COM1	18:COM5	26:COM1	-
1044	604	+ve	0.000	0.020	0.470	0.406	0.206	0.000
			-	24:COM1	16:COM3	24:COM1	24:COM1	-
			-15.989	-8.051	-0.160	-0.531	-0.338	-7.746
			18:COM5	18:COM5	26:COM1	18:COM5	18:COM5	18:COM5
	603	-ve	0.000	0.000	0.470	0.406	0.593	10.149
			-	-	16:COM3	24:COM1	16:COM3	16:COM3
			-15.989	-10.097	-0.160	-0.531	-0.112	0.000
			18:COM5	18:COM5	26:COM1	18:COM5	26:COM1	-
1051	6097	+ve	1.924	15.403	0.004	0.098	0.024	23.999
			20:COM7	35:CVOL4	24:COM1	35:CVOL4	16:COM3	35:CVOL4
			-0.064	0.000	-0.005	0.000	-0.021	0.000
			30:COM1	-	18:COM5	-	26:COM1	-
	583	-ve	1.924	0.000	0.004	0.098	0.021	28.300
			20:COM7	-	24:COM1	35:CVOL4	24:COM1	34:CVOL3
			-0.064	-16.214	-0.005	0.000	-0.025	0.000
			30:COM1	34:CVOL3	18:COM5	-	18:COM5	-
1053	6098	+ve	1.587	15.188	0.004	0.054	0.025	22.249
			20:COM7	35:CVOL4	24:COM1	16:COM3	16:COM3	35:CVOL4
			-0.165	0.000	-0.005	0.000	-0.022	0.000
			30:COM1	-	18:COM5	-	26:COM1	-
	584	-ve	1.587	0.000	0.004	0.054	0.022	29.976
			20:COM7	-	24:COM1	16:COM3	24:COM1	34:CVOL3
			-0.165	-16.635	-0.005	0.000	-0.024	0.000
			30:COM1	34:CVOL3	18:COM5	-	18:COM5	-
1055	6099	+ve	2.625	15.244	0.004	0.000	0.022	22.436
			20:COM7	35:CVOL4	16:COM3	-	24:COM1	35:CVOL4
			-0.637	0.000	-0.004	-0.057	-0.022	0.000
			30:COM1	-	26:COM1	18:COM5	18:COM5	-
	585	-ve	2.625	0.000	0.004	0.000	0.022	30.746
			20:COM7	-	16:COM3	-	16:COM3	34:CVOL3
			-0.637	-16.789	-0.004	-0.057	-0.021	0.000
			30:COM1	34:CVOL3	26:COM1	18:COM5	26:COM1	-
1057	6100	+ve	3.549	14.924	0.003	0.000	0.023	23.921
			20:COM7	35:CVOL4	24:COM1	-	16:COM3	35:CVOL4
			-1.301	0.000	-0.004	-0.105	-0.018	0.000
			30:COM1	-	18:COM5	34:CVOL3	26:COM1	-
	586	-ve	3.549	0.000	0.003	0.000	0.019	27.980
			20:COM7	-	24:COM1	-	24:COM1	34:CVOL3
			-1.301	-15.673	-0.004	-0.105	-0.023	0.000
			30:COM1	34:CVOL3	18:COM5	34:CVOL3	18:COM5	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
1064	605	+ve	13.373	6.756	0.820	0.423	1.157	0.000
			16:COM3	28:COM15	24:COM11	28:COM15	16:COM3	-
			-1.225	-11.189	-0.922	-1.568	-1.154	-8.841
			26:COM13	22:COM9	18:COM5	22:COM9	26:COM13	18:COM5
	90	-ve	13.373	2.796	0.820	0.423	1.497	39.731
			16:COM3	28:COM15	24:COM11	28:COM15	24:COM11	20:COM7
			-1.225	-18.019	-0.922	-1.568	-1.822	-19.271
			26:COM13	22:COM9	18:COM5	22:COM9	18:COM5	30:COM17
1065	601	+ve	4.676	7.082	0.007	0.223	0.010	7.442
			16:COM3	34:CVOL3	16:COM3	16:COM3	24:COM11	16:COM3
			-2.071	0.000	-0.005	-0.170	-0.013	0.000
			26:COM13	-	26:COM13	26:COM13	18:COM5	-
	605	-ve	4.676	0.000	0.007	0.223	0.018	4.910
			16:COM3	-	16:COM3	16:COM3	16:COM3	20:COM7
			-2.071	-6.121	-0.005	-0.170	-0.012	-0.546
			26:COM13	35:CVOL4	26:COM13	26:COM13	26:COM13	30:COM17
1066	606	+ve	15.769	1.587	0.212	0.274	3.504	0.789
			20:COM7	28:COM15	24:COM11	28:COM15	20:COM7	28:COM15
			-13.308	-0.069	-1.107	-2.924	-1.359	-1.299
			30:COM17	22:COM9	18:COM5	22:COM9	30:COM17	22:COM9
	607	-ve	15.769	0.000	0.212	0.274	1.285	2.915
			20:COM7	-	24:COM11	28:COM15	20:COM7	20:COM7
			-13.308	-3.817	-1.107	-2.924	-1.081	0.000
			30:COM17	22:COM9	18:COM5	22:COM9	30:COM17	-
1067	607	+ve	12.922	6.545	1.214	0.000	3.453	3.922
			28:COM15	20:COM7	24:COM11	-	28:COM15	20:COM7
			-16.978	-2.044	-2.128	-4.571	-4.579	-1.675
			22:COM9	30:COM17	18:COM5	22:COM9	22:COM9	30:COM17
	96	-ve	12.922	3.016	1.214	0.000	0.422	5.798
			28:COM15	28:COM15	24:COM11	-	28:COM15	28:COM15
			-16.978	-5.074	-2.128	-4.571	-3.530	-6.199
			22:COM9	22:COM9	18:COM5	22:COM9	22:COM9	22:COM9
1068	5925	+ve	3.093	16.273	0.006	0.040	0.034	27.726
			20:COM7	35:CVOL4	20:COM7	20:COM7	28:COM15	35:CVOL4
			-1.925	0.000	-0.006	-0.014	-0.035	0.000
			30:COM17	-	30:COM17	30:COM17	22:COM9	-
	606	-ve	3.093	0.000	0.006	0.040	0.035	30.512
			20:COM7	-	20:COM7	20:COM7	20:COM7	34:CVOL3
			-1.925	-16.776	-0.006	-0.014	-0.034	0.000
			30:COM17	34:CVOL3	30:COM17	30:COM17	30:COM17	-
1069	5926	+ve	4.992	15.880	0.006	0.013	0.028	26.294
			20:COM7	35:CVOL4	20:COM7	28:COM15	28:COM15	35:CVOL4
			-3.036	0.000	-0.005	-0.035	-0.034	0.000
			30:COM17	-	30:COM17	22:COM9	22:COM9	-
	607	-ve	4.992	0.000	0.006	0.013	0.034	28.840
			20:COM7	-	20:COM7	28:COM15	20:COM7	34:CVOL3
			-3.036	-16.352	-0.005	-0.035	-0.028	0.000
			30:COM17	34:CVOL3	30:COM17	22:COM9	30:COM17	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
1070	5926	+ve	18.264	0.000	9.545	3.327	5.856	4.379
			20:COM7	-	20:COM7	28:COM15	28:COM15	28:COM15
			-5.388	-33.603	-6.676	-19.047	-9.316	-22.884
			30:COM17	22:COM9	30:COM17	22:COM9	22:COM9	22:COM9
	83	-ve	18.264	0.000	9.545	3.327	11.533	74.698
			20:COM7	-	20:COM7	28:COM15	20:COM7	20:COM7
			-5.388	-36.626	-6.676	-19.047	-8.727	-7.018
			30:COM17	22:COM9	30:COM17	22:COM9	30:COM17	30:COM17
1071	5925	+ve	23.824	6.821	1.605	5.078	1.170	0.000
			20:COM7	28:COM15	20:COM7	20:COM7	28:COM15	-
			-17.507	-10.854	-1.382	-3.825	-1.103	-27.034
			30:COM17	22:COM9	30:COM17	30:COM17	22:COM9	22:COM9
	5926	-ve	23.824	4.554	1.605	5.078	2.423	5.402
			20:COM7	28:COM15	20:COM7	20:COM7	20:COM7	28:COM15
			-17.507	-13.876	-1.382	-3.825	-1.868	-21.713
			30:COM17	22:COM9	30:COM17	30:COM17	30:COM17	22:COM9
1072	612	+ve	10.074	0.000	2.755	4.090	3.074	0.793
			20:COM7	-	28:COM15	28:COM15	20:COM7	24:COM17
			-2.907	-13.310	-3.829	-2.951	-1.909	-6.125
			30:COM17	18:COM5	22:COM9	22:COM9	30:COM17	18:COM5
	82	-ve	10.074	0.000	2.755	4.090	4.118	31.483
			20:COM7	-	28:COM15	28:COM15	28:COM15	16:COM3
			-2.907	-15.560	-3.829	-2.951	-5.280	0.000
			30:COM17	18:COM5	22:COM9	22:COM9	22:COM9	-
1073	613	+ve	13.495	4.285	0.434	0.731	1.215	0.000
			16:COM3	24:COM11	28:COM15	28:COM15	20:COM7	-
			-5.764	-2.208	-0.933	-2.264	-0.622	-9.671
			26:COM13	18:COM5	22:COM9	22:COM9	30:COM17	18:COM5
	612	-ve	13.495	2.598	0.434	0.731	0.330	0.000
			16:COM3	24:COM11	28:COM15	28:COM15	28:COM15	-
			-5.764	-4.458	-0.933	-2.264	-0.821	-9.574
			26:COM13	18:COM5	22:COM9	22:COM9	22:COM9	22:COM9
1075	613	+ve	3.986	3.347	0.048	0.095	0.092	2.323
			28:COM15	34:CVOL3	20:COM7	28:COM15	28:COM15	16:COM3
			-4.492	0.000	-0.046	-0.082	-0.098	0.000
			22:COM9	-	30:COM17	22:COM9	22:COM9	-
	5925	-ve	3.986	0.000	0.048	0.095	0.095	11.149
			28:COM15	-	20:COM7	28:COM15	20:COM7	34:CVOL3
			-4.492	-7.987	-0.046	-0.082	-0.091	0.000
			22:COM9	35:CVOL4	30:COM17	22:COM9	30:COM17	-
1077	612	+ve	3.008	4.522	0.036	0.094	0.071	4.271
			24:COM17	34:CVOL3	20:COM7	20:COM7	28:COM15	20:COM7
			-4.411	0.000	-0.031	-0.089	-0.080	0.000
			18:COM5	-	30:COM17	30:COM17	22:COM9	-
	5926	-ve	3.008	0.000	0.036	0.094	0.077	10.590
			24:COM17	-	20:COM7	20:COM7	20:COM7	34:CVOL3
			-4.411	-7.790	-0.031	-0.089	-0.066	0.000
			18:COM5	35:CVOL4	30:COM17	30:COM17	30:COM17	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
1084	618	+ve	20.294	9.789	3.283	7.091	0.972	16.857
			24:COM1	28:COM1	16:COM3	28:COM1	24:COM1	20:COM7
			-23.330	-7.586	-1.119	-14.513	-3.010	-13.707
			18:COM5	22:COM9	26:COM1	22:COM9	18:COM5	30:COM1
	5493	-ve	20.294	8.481	3.283	7.091	3.612	4.067
			24:COM1	28:COM1	16:COM3	28:COM1	16:COM3	20:COM7
			-23.330	-9.330	-1.119	-14.513	-1.286	-2.282
			18:COM5	22:COM9	26:COM1	22:COM9	26:COM1	30:COM1
1086	620	+ve	134.386	18.203	6.452	29.003	6.205	15.839
			24:COM1	16:COM3	20:COM7	20:COM7	28:COM1	16:COM3
			-139.888	-13.026	-3.069	-15.146	-11.646	-11.569
			18:COM5	26:COM1	30:COM1	30:COM1	22:COM9	26:COM1
	5463	-ve	134.386	15.360	6.452	29.003	8.600	18.113
			24:COM1	24:COM1	20:COM7	20:COM7	16:COM3	16:COM3
			-139.888	-16.288	-3.069	-15.146	-7.219	-18.129
			18:COM5	18:COM5	30:COM1	30:COM1	26:COM1	26:COM1
1088	620	+ve	12.042	46.112	0.031	0.218	0.110	40.346
			28:COM1	20:COM7	28:COM1	16:COM3	20:COM7	20:COM7
			-17.583	-26.718	-0.139	-0.204	-0.025	-23.830
			22:COM9	30:COM1	22:COM9	26:COM1	30:COM1	30:COM1
	618	-ve	12.042	42.725	0.031	0.218	0.021	15.988
			28:COM1	20:COM7	28:COM1	16:COM3	28:COM1	28:COM1
			-17.583	-28.391	-0.139	-0.204	-0.092	-23.842
			22:COM9	30:COM1	22:COM9	26:COM1	22:COM9	22:COM9
1089	5463	+ve	7.456	185.620	6.788	1.509	9.737	106.008
			24:COM1	20:COM7	24:COM1	28:COM1	16:COM3	20:COM7
			-14.288	-99.263	-10.393	-2.356	-6.307	-59.414
			18:COM5	30:COM1	18:COM5	22:COM9	26:COM1	30:COM1
	5493	-ve	7.456	181.359	6.788	1.509	3.576	85.711
			24:COM1	20:COM7	24:COM1	28:COM1	24:COM1	28:COM1
			-14.288	-101.592	-10.393	-2.356	-5.356	-159.148
			18:COM5	30:COM1	18:COM5	22:COM9	18:COM5	22:COM9
1090	622	+ve	51.522	13.644	3.278	2.857	2.101	2.061
			16:COM3	24:COM1	20:COM7	20:COM7	28:COM1	24:COM1
			-47.085	-25.025	-2.330	-0.485	-2.948	-13.644
			26:COM1	18:COM5	30:COM1	30:COM1	22:COM9	18:COM5
	5477	-ve	51.522	12.074	3.278	2.857	3.663	38.958
			16:COM3	24:COM1	20:COM7	20:COM7	20:COM7	16:COM3
			-47.085	-27.118	-2.330	-0.485	-2.599	-23.896
			26:COM1	18:COM5	30:COM1	30:COM1	30:COM1	26:COM1
1092	618	+ve	5.956	6.786	0.006	0.038	0.022	8.514
			28:COM1	20:COM7	24:COM1	16:COM3	16:COM3	20:COM7
			-7.163	-0.064	-0.010	-0.029	-0.013	-7.156
			22:COM9	30:COM1	18:COM5	26:COM1	26:COM1	30:COM1
	622	-ve	5.956	0.000	0.006	0.038	0.016	8.559
			28:COM1	-	24:COM1	16:COM3	24:COM1	20:COM7
			-7.163	-8.639	-0.010	-0.029	-0.026	-0.126
			22:COM9	22:COM9	18:COM5	26:COM1	18:COM5	30:COM1

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
1093	5493	+ve	15.216	8.575	4.941	1.113	0.000	4.554
			28:COM15	20:COM7	16:COM3	16:COM3	-	28:COM15
			-37.640	-1.561	0.000	-0.574	-1.695	-6.165
			22:COM9	30:COM17	-	26:COM13	18:COM5	22:COM9
	5494	-ve	15.216	6.953	4.941	1.113	2.129	3.257
			28:COM15	20:COM7	16:COM3	16:COM3	16:COM3	28:COM15
			-37.640	-2.448	0.000	-0.574	-0.729	-8.034
			22:COM9	30:COM17	-	26:COM13	26:COM13	22:COM9
1096	5477	+ve	33.226	4.449	1.542	1.636	0.347	2.767
			28:COM15	24:COM11	16:COM3	16:COM3	24:COM11	24:COM11
			-33.484	-5.040	-0.887	-1.565	-0.839	-3.780
			22:COM9	18:COM5	26:COM13	26:COM13	18:COM5	18:COM5
	5524	-ve	33.226	1.548	1.542	1.636	1.947	10.178
			28:COM15	24:COM11	16:COM3	16:COM3	16:COM3	16:COM3
			-33.484	-10.348	-0.887	-1.565	-1.260	-2.739
			22:COM9	18:COM5	26:COM13	26:COM13	26:COM13	26:COM13
1098	6027	+ve	18.567	11.062	1.252	2.444	0.000	10.719
			24:COM11	16:COM3	16:COM3	20:COM7	-	16:COM3
			-19.136	-7.507	-0.098	-0.820	-0.803	-8.247
			18:COM5	26:COM13	26:COM13	30:COM17	22:COM9	26:COM13
	6064	-ve	18.567	9.932	1.252	2.444	1.583	4.707
			24:COM11	16:COM3	16:COM3	20:COM7	16:COM3	24:COM11
			-19.136	-8.355	-0.098	-0.820	-0.530	-6.425
			18:COM5	26:COM13	26:COM13	30:COM17	26:COM13	18:COM5
1189	637	+ve	17.082	13.971	0.423	7.746	1.577	0.000
			20:COM7	34:CVOL3	28:COM15	20:COM7	20:COM7	-
			-10.221	0.000	-1.363	0.000	-0.504	-10.223
			30:COM17	-	22:COM9	-	30:COM17	22:COM9
	638	-ve	17.082	12.024	0.423	7.746	0.318	0.000
			20:COM7	34:CVOL3	28:COM15	20:COM7	28:COM15	-
			-10.221	0.000	-1.363	0.000	-1.006	-33.199
			30:COM17	-	22:COM9	-	22:COM9	35:CVOL4
1190	638	+ve	14.675	0.000	0.600	2.205	1.077	0.000
			20:COM7	-	28:COM15	16:COM3	20:COM7	-
			-8.446	-10.148	-1.137	0.000	-0.588	-32.982
			30:COM17	22:COM9	22:COM9	-	30:COM17	35:CVOL4
	639	-ve	14.675	0.000	0.600	2.205	0.540	0.000
			20:COM7	-	28:COM15	16:COM3	28:COM15	-
			-8.446	-12.095	-1.137	0.000	-1.057	-15.092
			30:COM17	22:COM9	22:COM9	-	22:COM9	22:COM9
1191	639	+ve	12.995	0.000	0.776	0.000	1.198	0.000
			20:COM7	-	28:COM15	-	20:COM7	-
			-7.613	-37.590	-1.275	-13.152	-0.763	-14.584
			30:COM17	35:CVOL4	22:COM9	22:COM9	30:COM17	22:COM9
	66	-ve	12.995	0.000	0.776	0.000	0.694	60.132
			20:COM7	-	28:COM15	-	28:COM15	35:CVOL4
			-7.613	-39.537	-1.275	-13.152	-1.194	0.000
			30:COM17	35:CVOL4	22:COM9	22:COM9	22:COM9	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
1192	643	+ve	3.751	16.632	0.032	0.109	0.052	24.682
			28:COM15	20:COM7	16:COM3	28:COM15	24:COM11	20:COM7
			-6.413	-2.740	-0.031	-0.205	-0.051	-6.899
			22:COM9	30:COM17	26:COM13	22:COM9	18:COM5	30:COM17
	642	-ve	3.751	9.715	0.032	0.109	0.045	6.230
			28:COM15	20:COM7	16:COM3	28:COM15	16:COM3	28:COM15
			-6.413	-6.157	-0.031	-0.205	-0.041	-14.200
			22:COM9	30:COM17	26:COM13	22:COM9	26:COM13	22:COM9
1193	644	+ve	1.715	10.755	0.023	0.123	0.033	16.447
			28:COM15	20:COM7	16:COM3	20:COM7	24:COM11	20:COM7
			-2.921	0.000	-0.020	-0.061	-0.036	-1.416
			22:COM9	-	26:COM13	30:COM17	18:COM5	30:COM17
	641	-ve	1.715	3.863	0.023	0.123	0.032	1.526
			28:COM15	28:COM15	16:COM3	20:COM7	16:COM3	28:COM15
			-2.921	-2.730	-0.020	-0.061	-0.027	-5.091
			22:COM9	22:COM9	26:COM13	30:COM17	26:COM13	22:COM9
1194	645	+ve	1.058	8.206	0.018	0.148	0.029	11.918
			28:COM15	20:COM7	24:COM11	34:CVOL3	16:COM3	20:COM7
			-1.956	0.000	-0.020	0.000	-0.026	-1.680
			22:COM9	-	18:COM5	-	26:COM13	30:COM17
	640	-ve	1.058	2.106	0.018	0.148	0.028	2.567
			28:COM15	28:COM15	24:COM11	34:CVOL3	24:COM11	20:COM7
			-1.956	-3.874	-0.020	0.000	-0.029	-2.362
			22:COM9	22:COM9	18:COM5	-	18:COM5	30:COM17
1195	640	+ve	8.616	0.000	0.086	1.339	0.168	5.391
			20:COM7	-	28:COM15	28:COM15	20:COM7	28:COM15
			-7.243	-13.103	-0.176	-6.901	-0.117	-6.811
			30:COM17	22:COM9	22:COM9	22:COM9	30:COM17	22:COM9
	67	-ve	8.616	0.000	0.086	1.339	0.058	22.943
			20:COM7	-	28:COM15	28:COM15	28:COM15	34:CVOL3
			-7.243	-14.745	-0.176	-6.901	-0.178	0.000
			30:COM17	22:COM9	22:COM9	22:COM9	22:COM9	-
1196	641	+ve	10.983	0.000	0.436	0.000	0.542	2.789
			28:COM15	-	28:COM15	-	20:COM7	28:COM15
			-10.816	-3.309	-0.559	-2.830	-0.495	-13.920
			22:COM9	18:COM5	22:COM9	22:COM9	30:COM17	22:COM9
	640	-ve	10.983	0.000	0.436	0.000	0.333	4.943
			28:COM15	-	28:COM15	-	28:COM15	28:COM15
			-10.816	-4.951	-0.559	-2.830	-0.520	-6.666
			22:COM9	18:COM5	22:COM9	22:COM9	22:COM9	22:COM9
1197	642	+ve	15.104	6.051	0.658	2.039	1.349	0.000
			28:COM15	20:COM7	28:COM15	16:COM3	20:COM7	-
			-17.165	-1.267	-1.411	0.000	-0.613	-4.387
			22:COM9	30:COM17	22:COM9	-	30:COM17	22:COM9
	641	-ve	15.104	4.410	0.658	2.039	0.636	2.495
			28:COM15	20:COM7	28:COM15	16:COM3	28:COM15	28:COM15
			-17.165	-2.498	-1.411	0.000	-1.330	-14.277
			22:COM9	30:COM17	22:COM9	-	22:COM9	22:COM9

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
1198	642	+ve	3.723	5.271	0.003	0.036	0.012	4.211
			16:COM3	35:CVOL4	24:COM11	28:COM15	16:COM3	20:COM7
			-1.001	0.000	-0.005	-0.222	-0.008	-2.951
			26:COM13	-	18:COM5	22:COM9	26:COM13	30:COM17
	637	-ve	3.723	0.000	0.003	0.036	0.005	10.147
			16:COM3	-	24:COM11	28:COM15	24:COM11	34:CVOL3
			-1.001	-8.786	-0.005	-0.222	-0.013	0.000
			26:COM13	34:CVOL3	18:COM5	22:COM9	18:COM5	-
1199	641	+ve	1.878	5.359	0.005	0.047	0.012	2.665
			16:COM3	34:CVOL3	16:COM3	24:COM11	24:COM11	20:COM7
			-1.422	0.000	-0.005	-0.085	-0.013	-1.111
			26:COM13	-	26:COM13	18:COM5	18:COM5	30:COM17
	638	-ve	1.878	0.000	0.005	0.047	0.011	12.331
			16:COM3	-	16:COM3	24:COM11	24:COM11	35:CVOL4
			-1.422	-9.476	-0.005	-0.085	-0.013	0.000
			26:COM13	35:CVOL4	26:COM13	18:COM5	18:COM5	-
1200	640	+ve	1.020	5.735	0.004	0.096	0.013	2.397
			24:COM11	34:CVOL3	24:COM11	35:CVOL4	16:COM3	34:CVOL3
			-1.197	0.000	-0.005	0.000	-0.012	0.000
			18:COM5	-	18:COM5	-	26:COM13	-
	639	-ve	1.020	0.000	0.004	0.096	0.011	13.883
			24:COM11	-	24:COM11	35:CVOL4	24:COM11	35:CVOL4
			-1.197	-9.890	-0.005	0.000	-0.013	0.000
			18:COM5	35:CVOL4	18:COM5	-	18:COM5	-
1201	643	+ve	13.662	4.266	0.662	0.537	1.324	4.400
			16:COM3	20:COM7	28:COM15	16:COM3	20:COM7	20:COM7
			-9.638	-0.216	-1.193	-0.314	-0.758	-0.817
			26:COM13	30:COM17	22:COM9	26:COM13	30:COM17	30:COM17
	644	-ve	13.662	2.953	0.662	0.537	0.500	0.535
			16:COM3	20:COM7	28:COM15	16:COM3	28:COM15	28:COM15
			-9.638	-1.201	-1.193	-0.314	-0.941	-2.459
			26:COM13	30:COM17	22:COM9	26:COM13	22:COM9	22:COM9
1202	644	+ve	9.337	1.385	0.284	0.000	0.421	0.889
			20:COM7	16:COM3	28:COM15	-	20:COM7	16:COM3
			-7.942	-0.261	-0.436	-0.373	-0.293	-0.195
			30:COM17	26:COM13	22:COM9	18:COM5	30:COM17	26:COM13
	645	-ve	9.337	0.204	0.284	0.000	0.261	1.449
			20:COM7	24:COM11	28:COM15	-	28:COM15	16:COM3
			-7.942	-1.379	-0.436	-0.373	-0.420	-0.707
			30:COM17	18:COM5	22:COM9	18:COM5	22:COM9	26:COM13
1203	645	+ve	8.121	11.181	0.346	1.512	0.105	7.683
			28:COM15	20:COM7	16:COM3	16:COM3	24:COM11	20:COM7
			-10.368	-8.132	-0.108	-1.055	-0.303	-5.787
			22:COM9	30:COM17	26:COM13	26:COM13	18:COM5	30:COM17
	111	-ve	8.121	9.870	0.346	1.512	0.356	10.557
			28:COM15	20:COM7	16:COM3	16:COM3	20:COM7	28:COM15
			-10.368	-9.115	-0.108	-1.055	-0.101	-12.266
			22:COM9	30:COM17	26:COM13	26:COM13	30:COM17	22:COM9

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
1237	637	+ve	3.030	8.720	0.001	0.000	0.004	9.020
			16:COM3	35:CVOL4	20:COM7	-	28:COM15	20:COM7
			-0.826	0.000	-0.001	-0.179	-0.004	0.000
			26:COM13	-	30:COM17	35:CVOL4	22:COM9	-
	5877	-ve	3.030	0.000	0.001	0.000	0.006	22.321
			16:COM3	-	20:COM7	-	20:COM7	34:CVOL3
			-0.826	-12.477	-0.001	-0.179	-0.005	0.000
			26:COM13	34:CVOL3	30:COM17	35:CVOL4	30:COM17	-
1239	638	+ve	2.265	12.279	0.002	0.000	0.005	17.627
			16:COM3	35:CVOL4	16:COM3	-	24:COM11	35:CVOL4
			-1.044	0.000	-0.001	-0.142	-0.008	0.000
			26:COM13	-	26:COM13	34:CVOL3	18:COM5	-
	5878	-ve	2.265	0.000	0.002	0.000	0.008	19.595
			16:COM3	-	16:COM3	-	20:COM7	34:CVOL3
			-1.044	-12.726	-0.001	-0.142	-0.006	0.000
			26:COM13	34:CVOL3	26:COM13	34:CVOL3	30:COM17	-
1241	639	+ve	2.022	16.004	0.003	0.022	0.011	28.760
			16:COM3	35:CVOL4	16:COM3	20:COM7	24:COM11	35:CVOL4
			-1.420	0.000	-0.002	-0.016	-0.016	0.000
			26:COM13	-	26:COM13	30:COM17	18:COM5	-
	5879	-ve	2.022	0.000	0.003	0.022	0.014	16.907
			16:COM3	-	16:COM3	20:COM7	16:COM3	34:CVOL3
			-1.420	-13.682	-0.002	-0.016	-0.011	0.000
			26:COM13	34:CVOL3	26:COM13	30:COM17	26:COM13	-
1242	66	+ve	1.280	18.480	0.002	0.456	0.008	39.410
			24:COM11	35:CVOL4	16:COM3	35:CVOL4	24:COM11	35:CVOL4
			-1.526	0.000	-0.001	0.000	-0.012	0.000
			18:COM5	-	26:COM13	-	18:COM5	-
	5881	-ve	1.280	0.000	0.002	0.456	0.009	19.429
			24:COM11	-	16:COM3	35:CVOL4	16:COM3	34:CVOL3
			-1.526	-15.009	-0.001	0.000	-0.008	0.000
			18:COM5	34:CVOL3	26:COM13	-	26:COM13	-
1270	68	+ve	8.983	14.117	0.272	0.902	0.584	24.418
			16:COM3	20:COM7	24:COM11	28:COM15	16:COM3	20:COM7
			-3.428	0.000	-0.455	-1.321	-0.394	-0.797
			26:COM13	-	18:COM5	22:COM9	26:COM13	30:COM17
	690	-ve	8.983	9.040	0.272	0.902	0.265	0.000
			16:COM3	20:COM7	24:COM11	28:COM15	24:COM11	-
			-3.428	-0.557	-0.455	-1.321	-0.516	-5.555
			26:COM13	30:COM17	18:COM5	22:COM9	18:COM5	18:COM5
1272	651	+ve	21.734	25.066	8.353	0.250	4.670	8.431
			20:COM7	20:COM7	28:COM15	24:COM11	20:COM7	20:COM7
			-11.655	-20.724	-10.160	-1.923	-3.728	-6.677
			30:COM17	30:COM17	22:COM9	18:COM5	30:COM17	30:COM17
	120	-ve	21.734	24.485	8.353	0.250	3.281	11.545
			20:COM7	20:COM7	28:COM15	24:COM11	28:COM15	24:COM11
			-11.655	-21.160	-10.160	-1.923	-3.856	-13.008
			30:COM17	30:COM17	22:COM9	18:COM5	22:COM9	18:COM5

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
1273	651	+ve	11.003	18.834	0.406	1.242	2.204	21.947
			16:COM3	20:COM7	24:COM11	16:COM3	16:COM3	20:COM7
			-2.167	-4.865	-1.581	-0.237	-0.363	-5.864
			26:COM13	30:COM17	18:COM5	26:COM13	26:COM13	30:COM17
	68	-ve	11.003	13.582	0.406	1.242	0.754	9.994
			16:COM3	20:COM7	24:COM11	16:COM3	24:COM11	28:COM15
			-2.167	-7.910	-1.581	-0.237	-1.833	-18.292
			26:COM13	30:COM17	18:COM5	26:COM13	18:COM5	22:COM9
1276	67	+ve	2.216	11.600	0.126	0.501	0.457	17.515
			24:COM11	20:COM7	24:COM11	20:COM7	16:COM3	20:COM7
			-3.449	0.000	-0.155	-0.462	-0.392	-4.945
			18:COM5	-	18:COM5	30:COM17	26:COM13	30:COM17
	66	-ve	2.216	0.000	0.126	0.501	0.340	20.288
			24:COM11	-	24:COM11	20:COM7	24:COM11	20:COM7
			-3.449	-12.324	-0.155	-0.462	-0.443	-5.009
			18:COM5	22:COM9	18:COM5	30:COM17	18:COM5	30:COM17
1285	666	+ve	0.609	6.457	0.002	0.000	0.009	2.541
			24:COM11	34:CVOL3	24:COM11	-	16:COM3	20:COM7
			-1.619	0.000	-0.003	-0.066	-0.008	0.000
			18:COM5	-	18:COM5	18:COM5	26:COM13	-
	662	-ve	0.609	0.000	0.002	0.000	0.007	17.144
			24:COM11	-	24:COM11	-	24:COM11	35:CVOL4
			-1.619	-11.150	-0.003	-0.066	-0.009	0.000
			18:COM5	35:CVOL4	18:COM5	18:COM5	18:COM5	-
1286	667	+ve	0.671	7.671	0.003	0.051	0.011	3.405
			24:COM11	34:CVOL3	24:COM11	16:COM3	16:COM3	34:CVOL3
			-2.012	0.000	-0.003	-0.002	-0.009	0.000
			18:COM5	-	18:COM5	26:COM13	26:COM13	-
	663	-ve	0.671	0.000	0.003	0.051	0.009	14.947
			24:COM11	-	24:COM11	16:COM3	24:COM11	35:CVOL4
			-2.012	-11.141	-0.003	-0.002	-0.011	0.000
			18:COM5	35:CVOL4	18:COM5	26:COM13	18:COM5	-
1287	668	+ve	1.051	9.014	0.002	0.079	0.015	5.565
			24:COM11	34:CVOL3	24:COM11	34:CVOL3	16:COM3	34:CVOL3
			-2.374	0.000	-0.004	0.000	-0.005	0.000
			18:COM5	-	18:COM5	-	26:COM13	-
	664	-ve	1.051	0.000	0.002	0.079	0.007	12.606
			24:COM11	-	24:COM11	34:CVOL3	24:COM11	34:CVOL3
			-2.374	-11.005	-0.004	0.000	-0.014	0.000
			18:COM5	35:CVOL4	18:COM5	-	18:COM5	-
1289	669	+ve	2.411	9.668	0.000	0.018	0.019	8.077
			24:COM11	34:CVOL3	24:COM11	28:COM15	16:COM3	34:CVOL3
			-2.347	0.000	-0.004	-0.053	0.000	0.000
			18:COM5	-	18:COM5	22:COM9	-	-
	665	-ve	2.411	0.000	0.000	0.018	0.003	15.173
			24:COM11	-	24:COM11	28:COM15	28:COM15	34:CVOL3
			-2.347	-11.558	-0.004	-0.053	-0.014	0.000
			18:COM5	35:CVOL4	18:COM5	22:COM9	22:COM9	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
1290	662	+ve	11.476	15.799	0.905	0.000	0.353	0.000
			28:COM15	20:COM7	20:COM7	-	28:COM15	-
			-11.857	0.000	-0.186	-5.563	-1.003	-15.865
			22:COM9	-	30:COM17	18:COM5	22:COM9	22:COM9
	663	-ve	11.476	13.840	0.905	0.000	0.716	0.000
			28:COM15	20:COM7	20:COM7	-	20:COM7	-
			-11.857	0.000	-0.186	-5.563	-0.009	-39.986
			22:COM9	-	30:COM17	18:COM5	30:COM17	34:CVOL3
1291	663	+ve	9.616	0.000	1.128	0.000	0.404	0.000
			24:COM17	-	20:COM7	-	28:COM15	-
			-14.346	-11.642	-0.676	-9.510	-0.968	-41.140
			18:COM5	22:COM9	30:COM17	22:COM9	22:COM9	34:CVOL3
	664	-ve	9.616	0.000	1.128	0.000	1.168	0.000
			24:COM17	-	20:COM7	-	20:COM7	-
			-14.346	-13.601	-0.676	-9.510	-0.878	-21.295
			18:COM5	22:COM9	30:COM17	22:COM9	30:COM17	22:COM9
1292	664	+ve	7.951	0.000	1.621	2.985	2.682	0.000
			24:COM17	-	28:COM15	20:COM7	20:COM7	-
			-23.178	-24.347	-2.261	-0.224	-1.927	-18.980
			18:COM5	35:CVOL4	22:COM9	30:COM17	30:COM17	22:COM9
	665	-ve	7.951	0.000	1.621	2.985	1.321	33.238
			24:COM17	-	28:COM15	20:COM7	24:COM11	20:COM7
			-23.178	-26.307	-2.261	-0.224	-1.774	0.000
			18:COM5	35:CVOL4	22:COM9	30:COM17	18:COM5	-
1293	665	+ve	12.852	0.000	3.105	16.675	1.850	36.815
			24:COM17	-	24:COM11	20:COM7	16:COM3	35:CVOL4
			-28.696	-37.865	-10.978	0.000	-0.553	0.000
			18:COM5	35:CVOL4	18:COM5	-	26:COM13	-
	126	-ve	12.852	0.000	3.105	16.675	1.079	56.696
			24:COM17	-	24:COM11	20:COM7	24:COM11	35:CVOL4
			-28.696	-38.406	-10.978	0.000	-3.887	0.000
			18:COM5	35:CVOL4	18:COM5	-	18:COM5	-
1294	666	+ve	8.303	9.244	0.320	6.444	0.139	1.381
			28:COM15	20:COM7	16:COM3	34:CVOL3	24:COM11	16:COM3
			-7.292	0.000	-0.155	0.000	-0.348	-1.192
			22:COM9	-	26:COM13	-	18:COM5	26:COM13
	667	-ve	8.303	7.674	0.320	6.444	0.264	0.000
			28:COM15	20:COM7	16:COM3	34:CVOL3	16:COM3	-
			-7.292	0.000	-0.155	0.000	-0.172	-15.046
			22:COM9	-	26:COM13	-	26:COM13	34:CVOL3
1295	667	+ve	6.530	1.925	0.157	2.031	0.212	0.000
			28:COM15	20:COM7	28:COM15	20:COM7	16:COM3	-
			-5.777	0.000	-0.499	0.000	-0.145	-15.117
			22:COM9	-	22:COM9	-	26:COM13	34:CVOL3
	668	-ve	6.530	0.354	0.157	2.031	0.214	0.000
			28:COM15	20:COM7	28:COM15	20:COM7	28:COM15	-
			-5.777	-0.719	-0.499	0.000	-0.767	-16.589
			22:COM9	30:COM17	22:COM9	-	22:COM9	34:CVOL3

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
1296	668	+ve	1.548	0.000	0.000	0.000	0.937	0.000
			28:COM15	-	-	-	20:COM7	-
			-3.953	-6.733	-1.195	-4.497	-0.050	-17.020
			22:COM9	34:CVOL3	22:COM9	34:CVOL3	30:COM17	34:CVOL3
	669	-ve	1.548	0.000	0.000	0.000	0.000	0.836
			28:COM15	-	-	-	-	28:COM15
			-3.953	-8.303	-1.195	-4.497	-1.239	-5.003
			22:COM9	34:CVOL3	22:COM9	34:CVOL3	22:COM9	22:COM9
1297	669	+ve	1.780	0.000	0.498	0.000	1.083	0.444
			24:COM17	-	28:COM15	-	20:COM7	28:COM15
			-3.245	-18.659	-0.951	-10.898	-0.197	-5.522
			18:COM5	34:CVOL3	22:COM9	22:COM9	30:COM17	22:COM9
	68	-ve	1.780	0.000	0.498	0.000	0.797	33.788
			24:COM17	-	28:COM15	-	20:COM7	34:CVOL3
			-3.245	-20.339	-0.951	-10.898	-0.791	0.000
			18:COM5	34:CVOL3	22:COM9	22:COM9	30:COM17	-
1298	670	+ve	6.095	3.121	0.542	0.560	0.181	3.273
			28:COM15	20:COM7	20:COM7	16:COM3	28:COM15	20:COM7
			-7.592	-0.908	-0.251	0.000	-0.507	-1.661
			22:COM9	30:COM17	30:COM17	-	22:COM9	30:COM17
	671	-ve	6.095	1.860	0.542	0.560	0.480	0.868
			28:COM15	20:COM7	20:COM7	16:COM3	20:COM7	28:COM15
			-7.592	-1.854	-0.251	0.000	-0.278	-1.278
			22:COM9	30:COM17	30:COM17	-	30:COM17	22:COM9
1299	671	+ve	6.729	0.935	0.257	0.156	0.215	0.588
			20:COM7	24:COM11	20:COM7	16:COM3	28:COM15	24:COM17
			-4.964	-0.258	-0.245	-0.045	-0.351	-0.734
			30:COM17	18:COM5	30:COM17	26:COM13	22:COM9	18:COM5
	672	-ve	6.729	0.000	0.257	0.156	0.180	0.960
			20:COM7	-	20:COM7	16:COM3	24:COM11	20:COM7
			-4.964	-1.519	-0.245	-0.045	-0.295	-0.329
			30:COM17	18:COM5	30:COM17	26:COM13	18:COM5	30:COM17
1300	672	+ve	11.816	1.231	0.148	0.075	0.370	0.600
			20:COM7	28:COM15	24:COM11	24:COM17	16:COM3	24:COM17
			-9.520	-1.187	-0.543	-0.672	-0.127	-1.431
			30:COM17	22:COM9	18:COM5	18:COM5	26:COM13	18:COM5
	673	-ve	11.816	0.285	0.148	0.075	0.162	2.047
			20:COM7	28:COM15	24:COM11	24:COM17	24:COM11	20:COM7
			-9.520	-2.448	-0.543	-0.672	-0.638	-0.948
			30:COM17	22:COM9	18:COM5	18:COM5	18:COM5	30:COM17
1301	673	+ve	10.291	0.555	0.042	0.778	0.408	0.567
			28:COM15	20:COM7	24:COM11	28:COM15	20:COM7	28:COM15
			-18.455	0.000	-0.309	-0.804	-0.169	-0.764
			22:COM9	-	18:COM5	22:COM9	30:COM17	22:COM9
	651	-ve	10.291	0.000	0.042	0.778	0.119	2.058
			28:COM15	-	24:COM11	28:COM15	28:COM15	20:COM7
			-18.455	-1.556	-0.309	-0.804	-0.525	-0.316
			22:COM9	22:COM9	18:COM5	22:COM9	22:COM9	30:COM17

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
1302	670	+ve	0.873	8.471	0.023	0.000	0.024	12.873
			24:COM1	20:COM7	16:COM3	-	24:COM1	20:COM7
			-2.246	0.000	-0.017	-0.278	-0.033	-1.335
			18:COM5	-	26:COM1	22:COM9	18:COM5	30:COM1
	666	-ve	0.873	2.427	0.023	0.000	0.033	3.364
			24:COM1	28:COM1	16:COM3	-	20:COM7	20:COM7
			-2.246	-3.767	-0.017	-0.278	-0.027	-2.308
			18:COM5	22:COM9	26:COM1	22:COM9	30:COM1	30:COM1
1303	671	+ve	0.661	9.551	0.015	0.000	0.020	15.628
			24:COM1	35:CVOL4	16:COM3	-	24:COM1	20:COM7
			-2.404	0.000	-0.014	-0.164	-0.022	0.000
			18:COM5	-	26:COM1	22:COM9	18:COM5	-
	667	-ve	0.661	2.888	0.015	0.000	0.020	0.000
			24:COM1	20:COM7	16:COM3	-	16:COM3	-
			-2.404	-0.342	-0.014	-0.164	-0.020	-1.348
			18:COM5	30:COM1	26:COM1	22:COM9	26:COM1	22:COM9
1304	672	+ve	0.701	9.828	0.006	0.160	0.033	15.555
			24:COM1	35:CVOL4	24:COM1	20:COM7	16:COM3	20:COM7
			-2.375	0.000	-0.026	0.000	-0.006	0.000
			18:COM5	-	18:COM5	-	26:COM1	-
	668	-ve	0.701	2.876	0.006	0.160	0.009	0.000
			24:COM1	20:COM7	24:COM1	20:COM7	24:COM1	-
			-2.375	0.000	-0.026	0.000	-0.037	-1.227
			18:COM5	-	18:COM5	-	18:COM5	22:COM9
1305	673	+ve	0.888	7.053	0.000	0.352	0.055	11.314
			24:COM1	20:COM7	-	34:CVOL3	16:COM3	20:COM7
			-2.690	0.000	-0.045	0.000	0.000	0.000
			18:COM5	-	18:COM5	-	-	-
	669	-ve	0.888	1.397	0.000	0.352	0.000	2.322
			24:COM1	28:COM1	-	34:CVOL3	-	16:COM3
			-2.690	-1.875	-0.045	0.000	-0.061	-0.163
			18:COM5	22:COM9	18:COM5	-	18:COM5	26:COM1
1306	662	+ve	0.845	17.733	0.001	0.429	0.005	32.942
			28:COM1	35:CVOL4	16:COM3	34:CVOL3	24:COM1	35:CVOL4
			-1.209	0.000	-0.001	0.000	-0.010	0.000
			22:COM9	-	26:COM1	-	18:COM5	-
	5880	-ve	0.845	0.000	0.001	0.429	0.007	32.597
			28:COM1	-	16:COM3	34:CVOL3	16:COM3	34:CVOL3
			-1.209	-17.678	-0.001	0.000	-0.004	0.000
			22:COM9	34:CVOL3	26:COM1	-	26:COM1	-
1307	663	+ve	0.391	12.856	0.002	0.000	0.004	18.769
			28:COM1	34:CVOL3	20:COM7	-	28:COM1	35:CVOL4
			-0.732	0.000	-0.001	-0.166	-0.008	0.000
			22:COM9	-	30:COM1	18:COM5	22:COM9	-
	569	-ve	0.391	0.000	0.002	0.000	0.007	10.502
			28:COM1	-	20:COM7	-	20:COM7	35:CVOL4
			-0.732	-10.886	-0.001	-0.166	-0.004	0.000
			22:COM9	35:CVOL4	30:COM1	18:COM5	30:COM1	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
1308	674	+ve	5.959	21.672	2.844	0.000	1.850	15.244
			24:COM1	35:CVOL4	20:COM7	-	28:COM15	20:COM7
			-9.000	0.000	-2.038	-9.245	-2.687	-6.649
			18:COM5	-	30:COM17	35:CVOL4	22:COM9	30:COM17
	568	-ve	5.959	20.427	2.844	0.000	1.455	0.000
			24:COM1	35:CVOL4	20:COM7	-	28:COM15	-
			-9.000	0.000	-2.038	-9.245	-1.132	-24.333
			18:COM5	-	30:COM17	35:CVOL4	22:COM9	22:COM9
1309	664	+ve	1.032	2.310	0.018	0.008	0.011	3.206
			28:COM15	20:COM7	20:COM7	24:COM1	28:COM15	20:COM7
			-1.061	-2.104	-0.009	-0.165	-0.023	-2.044
			22:COM9	30:COM17	30:COM17	18:COM5	22:COM9	30:COM17
	674	-ve	1.032	0.000	0.018	0.008	0.037	18.699
			28:COM15	-	20:COM7	24:COM1	20:COM7	20:COM7
			-1.061	-9.932	-0.009	-0.165	-0.020	0.000
			22:COM9	22:COM9	30:COM17	18:COM5	30:COM17	-
1326	687	+ve	5.564	4.624	0.008	0.235	0.003	3.383
			16:COM3	20:COM7	16:COM3	20:COM7	28:COM15	28:COM15
			-1.076	-0.849	-0.001	-0.051	-0.013	-5.370
			26:COM13	30:COM17	26:COM13	30:COM17	22:COM9	22:COM9
	689	-ve	5.564	0.000	0.008	0.235	0.015	3.671
			16:COM3	-	16:COM3	20:COM7	16:COM3	20:COM7
			-1.076	-6.545	-0.001	-0.051	-0.002	-0.658
			26:COM13	22:COM9	26:COM13	30:COM17	26:COM13	30:COM17
1327	688	+ve	2.726	3.214	0.054	0.066	0.018	2.016
			16:COM3	20:COM7	20:COM7	16:COM3	28:COM15	20:COM7
			-1.037	-0.485	-0.019	-0.011	-0.047	-1.686
			26:COM13	30:COM17	30:COM17	26:COM13	22:COM9	30:COM17
	690	-ve	2.726	0.484	0.054	0.066	0.035	0.313
			16:COM3	28:COM15	20:COM7	16:COM3	16:COM3	28:COM15
			-1.037	-2.888	-0.019	-0.011	-0.012	-0.222
			26:COM13	22:COM9	30:COM17	26:COM13	26:COM13	22:COM9
1328	685	+ve	15.506	0.982	1.166	0.614	0.145	0.096
			24:COM1	28:COM15	20:COM7	28:COM15	28:COM15	28:COM15
			-16.289	-0.963	-0.320	-0.608	-0.992	-0.473
			18:COM5	22:COM9	30:COM17	22:COM9	22:COM9	22:COM9
	686	-ve	15.506	0.000	1.166	0.614	1.292	2.745
			24:COM1	-	20:COM7	28:COM15	20:COM7	20:COM7
			-16.289	-2.318	-0.320	-0.608	-0.483	-0.838
			18:COM5	22:COM9	30:COM17	22:COM9	30:COM17	30:COM17
1329	686	+ve	11.852	9.366	2.128	4.536	0.809	6.011
			24:COM1	16:COM3	20:COM7	20:COM7	28:COM15	16:COM3
			-18.651	-8.071	-0.577	-1.466	-2.277	-5.469
			18:COM5	26:COM13	30:COM17	30:COM17	22:COM9	26:COM13
	104	-ve	11.852	8.247	2.128	4.536	1.808	11.074
			24:COM1	24:COM11	20:COM7	20:COM7	20:COM7	16:COM3
			-18.651	-9.271	-0.577	-1.466	-0.304	-10.792
			18:COM5	18:COM5	30:COM17	30:COM17	30:COM17	26:COM13

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
1330	685	+ve	2.000	10.380	0.044	0.048	0.037	13.457
			28:COM15	20:COM7	16:COM3	28:COM15	24:COM11	20:COM7
			-2.122	-0.542	-0.028	-0.258	-0.060	-2.474
			22:COM9	30:COM17	26:COM13	22:COM9	18:COM5	30:COM17
	688	-ve	2.000	4.538	0.044	0.048	0.051	2.649
			28:COM15	28:COM15	16:COM3	28:COM15	16:COM3	28:COM15
			-2.122	-3.603	-0.028	-0.258	-0.034	-5.363
			22:COM9	22:COM9	26:COM13	22:COM9	26:COM13	22:COM9
1331	686	+ve	4.382	18.901	0.040	0.140	0.052	26.256
			28:COM15	20:COM7	16:COM3	28:COM15	24:COM11	20:COM7
			-5.027	-3.668	-0.036	-0.310	-0.062	-7.508
			22:COM9	30:COM17	26:COM13	22:COM9	18:COM5	30:COM17
	687	-ve	4.382	12.471	0.040	0.140	0.047	6.916
			28:COM15	20:COM7	16:COM3	28:COM15	16:COM3	28:COM15
			-5.027	-6.844	-0.036	-0.310	-0.046	-16.785
			22:COM9	30:COM17	26:COM13	22:COM9	26:COM13	22:COM9
1332	687	+ve	12.148	16.807	2.945	3.360	0.000	0.452
			24:COM11	28:COM15	16:COM3	28:COM15	-	28:COM15
			-19.657	-13.033	0.000	-10.765	-2.442	-4.351
			18:COM5	22:COM9	-	22:COM9	18:COM5	22:COM9
	70	-ve	12.148	15.532	2.945	3.360	3.349	24.150
			24:COM11	28:COM15	16:COM3	28:COM15	16:COM3	28:COM15
			-19.657	-14.732	0.000	-10.765	-0.326	-32.542
			18:COM5	22:COM9	-	22:COM9	26:COM13	22:COM9
1333	688	+ve	6.531	6.715	1.008	0.720	0.315	10.789
			24:COM11	20:COM7	20:COM7	20:COM7	28:COM15	20:COM7
			-13.926	-1.819	-0.304	-0.240	-1.112	-7.686
			18:COM5	30:COM17	30:COM17	30:COM17	22:COM9	30:COM17
	687	-ve	6.531	5.016	1.008	0.720	0.933	0.749
			24:COM11	20:COM7	20:COM7	20:COM7	16:COM3	28:COM15
			-13.926	-3.093	-0.304	-0.240	-0.348	-4.344
			18:COM5	30:COM17	30:COM17	30:COM17	26:COM13	22:COM9
1336	689	+ve	15.074	0.000	0.000	1.793	1.781	1.179
			16:COM3	-	-	20:COM7	16:COM3	28:COM15
			0.000	-7.392	-1.330	0.000	0.000	-10.014
			-	34:CVOL3	18:COM5	-	-	22:COM9
	126	-ve	15.074	0.000	0.000	1.793	0.000	24.242
			16:COM3	-	-	20:COM7	-	20:COM7
			0.000	-13.752	-1.330	0.000	-1.739	0.000
			-	34:CVOL3	18:COM5	-	18:COM5	-
1337	690	+ve	9.897	6.213	0.426	0.774	0.688	0.000
			16:COM3	20:COM7	24:COM11	28:COM15	16:COM3	-
			-4.516	-0.133	-0.495	-1.089	-0.556	-5.649
			26:COM13	30:COM17	18:COM5	22:COM9	26:COM13	18:COM5
	689	-ve	9.897	1.370	0.426	0.774	0.585	1.580
			16:COM3	28:COM15	24:COM11	28:COM15	24:COM11	28:COM15
			-4.516	-4.134	-0.495	-1.089	-0.636	-12.305
			26:COM13	22:COM9	18:COM5	22:COM9	18:COM5	22:COM9

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
1350	691	+ve	3.388	2.142	0.511	0.553	0.256	2.880
			28:COM15	20:COM7	20:COM7	20:COM7	28:COM15	20:COM7
			-9.747	-0.016	-0.202	-0.372	-0.653	-1.179
			22:COM9	30:COM17	30:COM17	30:COM17	22:COM9	30:COM17
	685	-ve	3.388	0.787	0.511	0.553	0.349	0.103
			28:COM15	20:COM7	20:COM7	20:COM7	20:COM7	28:COM15
			-9.747	-1.032	-0.202	-0.372	-0.140	-0.244
			22:COM9	30:COM17	30:COM17	30:COM17	30:COM17	22:COM9
1351	691	+ve	2.731	9.773	0.058	0.013	0.038	10.105
			20:COM7	20:COM7	16:COM3	24:COM11	24:COM11	20:COM7
			0.000	-1.436	-0.036	-0.053	-0.073	-2.470
			-	30:COM17	26:COM13	18:COM5	18:COM5	30:COM17
	68	-ve	2.731	4.551	0.058	0.013	0.065	4.166
			20:COM7	28:COM15	16:COM3	24:COM11	16:COM3	28:COM15
			0.000	-4.493	-0.036	-0.053	-0.047	-6.457
			-	22:COM9	26:COM13	18:COM5	26:COM13	22:COM9
1371	692	+ve	0.000	8.724	6.245	2.245	4.628	9.923
			-	24:COM11	20:COM7	20:COM7	28:COM15	24:COM11
			-45.063	-15.757	-4.037	-1.586	-8.056	-24.318
			18:COM5	18:COM5	30:COM17	30:COM17	22:COM9	18:COM5
	693	-ve	0.000	5.360	6.245	2.245	7.557	22.556
			-	24:COM11	20:COM7	20:COM7	20:COM7	16:COM3
			-45.063	-21.742	-4.037	-1.586	-5.465	-7.683
			18:COM5	18:COM5	30:COM17	30:COM17	30:COM17	26:COM13
1372	693	+ve	20.572	9.086	4.415	4.162	7.181	6.821
			28:COM15	28:COM15	28:COM15	16:COM3	20:COM7	24:COM11
			-65.073	-22.081	-4.940	0.000	-5.939	-20.403
			22:COM9	22:COM9	22:COM9	-	30:COM17	18:COM5
	203	-ve	20.572	6.865	4.415	4.162	1.874	20.534
			28:COM15	28:COM15	28:COM15	16:COM3	20:COM7	20:COM7
			-65.073	-26.031	-4.940	0.000	-1.498	-7.583
			22:COM9	22:COM9	22:COM9	-	30:COM17	30:COM17
1374	695	+ve	10.529	0.000	2.919	2.983	1.685	0.000
			28:COM15	-	16:COM3	20:COM7	24:COM11	-
			-15.404	-31.063	-2.119	-0.045	-2.158	-29.373
			22:COM9	22:COM9	26:COM13	30:COM17	18:COM5	22:COM9
	121	-ve	10.529	0.000	2.919	2.983	2.670	25.912
			28:COM15	-	16:COM3	20:COM7	16:COM3	20:COM7
			-15.404	-35.928	-2.119	-0.045	-1.823	0.000
			22:COM9	22:COM9	26:COM13	30:COM17	26:COM13	-
1387	699	+ve	0.000	5.323	1.087	2.640	1.824	3.867
			-	20:COM7	24:COM11	16:COM3	16:COM3	28:COM15
			-64.791	-3.940	-1.694	-1.618	-0.977	-4.694
			22:COM9	30:COM17	18:COM5	26:COM13	26:COM13	22:COM9
	700	-ve	0.000	0.798	1.087	2.640	1.750	12.448
			-	28:COM15	24:COM11	16:COM3	24:COM11	20:COM7
			-64.791	-10.583	-1.694	-1.618	-2.419	-2.773
			22:COM9	22:COM9	18:COM5	26:COM13	18:COM5	30:COM17

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
1388	700	+ve	2.625	0.000	6.445	3.284	8.462	0.665
			28:COM15	-	24:COM11	28:COM15	16:COM3	28:COM15
			-21.824	-8.699	-7.989	-3.812	-6.898	-10.318
			22:COM9	22:COM9	18:COM5	22:COM9	26:COM13	22:COM9
	204	-ve	2.625	0.000	6.445	3.284	3.739	8.618
			28:COM15	-	24:COM11	28:COM15	24:COM11	16:COM3
			-21.824	-13.617	-7.989	-3.812	-4.723	0.000
			22:COM9	22:COM9	18:COM5	22:COM9	18:COM5	-
1389	701	+ve	30.205	2.730	1.968	0.645	2.534	0.938
			28:COM15	16:COM3	16:COM3	20:COM7	24:COM11	24:COM11
			-76.537	-0.016	-1.585	-0.645	-3.065	-1.847
			22:COM9	26:COM13	26:COM13	30:COM17	18:COM5	18:COM5
	702	-ve	30.205	0.000	1.968	0.645	1.857	5.164
			28:COM15	-	16:COM3	20:COM7	16:COM3	16:COM3
			-76.537	-6.502	-1.585	-0.645	-1.432	0.000
			22:COM9	34:CVOL3	26:COM13	30:COM17	26:COM13	-
1390	702	+ve	68.012	2.155	0.561	0.111	0.823	1.535
			20:COM7	24:COM11	28:COM15	24:COM11	28:COM15	24:COM11
			0.000	-20.449	-0.722	-0.248	-0.886	-13.295
			-	18:COM5	22:COM9	18:COM5	22:COM9	18:COM5
	122	-ve	68.012	0.000	0.561	0.111	0.086	24.462
			20:COM7	-	28:COM15	24:COM11	28:COM15	16:COM3
			0.000	-25.315	-0.722	-0.248	-0.415	0.000
			-	18:COM5	22:COM9	18:COM5	22:COM9	-
1618	823	+ve	30.065	37.053	2.292	10.951	1.471	45.329
			20:COM7	34:CVOL3	16:COM3	20:COM7	24:COM11	16:COM3
			-26.540	0.000	-1.067	0.000	-2.867	0.000
			30:COM17	-	26:COM13	-	18:COM5	-
	824	-ve	30.065	34.840	2.292	10.951	1.649	0.000
			20:COM7	34:CVOL3	16:COM3	20:COM7	16:COM3	-
			-26.540	0.000	-1.067	0.000	-0.635	-37.001
			30:COM17	-	26:COM13	-	26:COM13	18:COM5
1619	824	+ve	30.981	19.518	0.795	8.523	0.288	0.000
			20:COM7	34:CVOL3	16:COM3	20:COM7	24:COM11	-
			-27.905	0.000	-0.132	0.000	-0.981	-36.493
			30:COM17	-	26:COM13	-	18:COM5	18:COM5
	825	-ve	30.981	17.305	0.795	8.523	0.588	0.000
			20:COM7	34:CVOL3	16:COM3	20:COM7	16:COM3	-
			-27.905	0.000	-0.132	0.000	0.000	-69.667
			30:COM17	-	26:COM13	-	-	35:CVOL4
1620	825	+ve	27.902	5.468	1.143	3.354	1.189	0.000
			20:COM7	16:COM3	16:COM3	16:COM3	16:COM3	-
			-25.507	-1.008	-1.006	0.000	-1.186	-69.556
			30:COM17	26:COM13	26:COM13	-	26:COM13	35:CVOL4
	826	-ve	27.902	3.256	1.143	3.354	1.068	0.000
			20:COM7	16:COM3	16:COM3	16:COM3	16:COM3	-
			-25.507	-2.667	-1.006	0.000	-0.795	-73.290
			30:COM17	26:COM13	26:COM13	-	26:COM13	35:CVOL4

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
1621	826	+ve	32.726	0.000	0.532	1.368	0.740	0.000
			16:COM3	-	28:COM15	28:COM15	20:COM7	-
			-28.106	-15.157	-0.595	-4.594	-0.617	-73.949
			26:COM13	18:COM5	22:COM9	22:COM9	30:COM17	35:CVOL4
	827	-ve	32.726	0.000	0.532	1.368	0.448	0.000
			16:COM3	-	28:COM15	28:COM15	24:COM11	-
			-28.106	-17.369	-0.595	-4.594	-0.448	-43.387
			26:COM13	18:COM5	22:COM9	22:COM9	18:COM5	18:COM5
1622	827	+ve	35.766	0.000	0.986	0.000	0.653	0.000
			16:COM3	-	16:COM3	-	16:COM3	-
			-30.776	-37.285	-0.832	-12.264	-0.620	-44.304
			26:COM13	35:CVOL4	26:COM13	22:COM9	26:COM13	18:COM5
	828	-ve	35.766	0.000	0.986	0.000	1.437	41.742
			16:COM3	-	16:COM3	-	16:COM3	16:COM3
			-30.776	-39.498	-0.832	-12.264	-1.102	-2.207
			26:COM13	35:CVOL4	26:COM13	22:COM9	26:COM13	26:COM13
1623	828	+ve	44.446	0.000	10.180	0.000	5.252	41.199
			16:COM3	-	16:COM3	-	24:COM11	16:COM3
			-30.325	-62.638	-7.997	-17.054	-7.094	-2.554
			26:COM13	35:CVOL4	26:COM13	22:COM9	18:COM5	26:COM13
	205	-ve	44.446	0.000	10.180	0.000	12.963	156.444
			16:COM3	-	16:COM3	-	16:COM3	35:CVOL4
			-30.325	-64.850	-7.997	-17.054	-10.510	0.000
			26:COM13	35:CVOL4	26:COM13	22:COM9	26:COM13	-
1624	835	+ve	26.009	22.750	0.388	4.192	0.866	32.555
			20:COM7	16:COM3	16:COM3	28:COM15	24:COM11	16:COM3
			-16.776	0.000	-0.320	-2.563	-1.125	-8.904
			30:COM17	-	26:COM13	22:COM9	18:COM5	26:COM13
	836	-ve	26.009	20.532	0.388	4.192	1.375	0.000
			20:COM7	16:COM3	16:COM3	28:COM15	16:COM3	-
			-16.776	0.000	-0.320	-2.563	-1.498	-27.991
			30:COM17	-	26:COM13	22:COM9	26:COM13	18:COM5
1625	836	+ve	27.976	12.989	2.269	3.820	1.901	0.000
			16:COM3	16:COM3	16:COM3	20:COM7	24:COM11	-
			-23.296	0.000	-1.952	-0.403	-2.192	-27.832
			26:COM13	-	26:COM13	30:COM17	18:COM5	18:COM5
	837	-ve	27.976	10.771	2.269	3.820	2.285	0.000
			16:COM3	16:COM3	16:COM3	20:COM7	16:COM3	-
			-23.296	0.000	-1.952	-0.403	-1.950	-43.397
			26:COM13	-	26:COM13	30:COM17	26:COM13	35:CVOL4
1626	837	+ve	48.570	4.191	2.523	0.971	2.598	0.000
			16:COM3	16:COM3	16:COM3	20:COM7	16:COM3	-
			-44.911	-2.034	-2.474	-0.231	-2.477	-43.325
			26:COM13	26:COM13	26:COM13	30:COM17	26:COM13	35:CVOL4
	838	-ve	48.570	2.194	2.523	0.971	2.549	0.000
			16:COM3	24:COM11	16:COM3	20:COM7	16:COM3	-
			-44.911	-3.920	-2.474	-0.231	-2.331	-43.637
			26:COM13	18:COM5	26:COM13	30:COM17	26:COM13	35:CVOL4

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
1627	838	+ve	78.183	0.000	2.520	1.836	2.782	0.000
			16:COM3	-	24:COM11	28:COM15	16:COM3	-
			-72.945	-11.027	-2.671	-4.072	-2.544	-43.779
			26:COM13	18:COM5	18:COM5	22:COM9	26:COM13	35:CVOL4
	839	-ve	78.183	0.000	2.520	1.836	2.438	0.000
			16:COM3	-	24:COM11	28:COM15	16:COM3	-
			-72.945	-13.246	-2.671	-4.072	-2.499	-28.241
			26:COM13	18:COM5	18:COM5	22:COM9	26:COM13	18:COM5
1628	839	+ve	121.055	0.000	3.428	2.251	0.835	0.000
			16:COM3	-	24:COM11	28:COM15	16:COM3	-
			-110.627	-23.037	-3.263	-5.443	-1.057	-28.483
			26:COM13	18:COM5	18:COM5	22:COM9	26:COM13	18:COM5
	840	-ve	121.055	0.000	3.428	2.251	5.713	37.578
			16:COM3	-	24:COM11	28:COM15	24:COM11	16:COM3
			-110.627	-25.256	-3.263	-5.443	-5.608	-7.706
			26:COM13	18:COM5	18:COM5	22:COM9	18:COM5	26:COM13
1629	840	+ve	136.496	0.000	6.820	6.134	4.789	38.203
			16:COM3	-	24:COM11	20:COM7	16:COM3	16:COM3
			-111.822	-32.064	-8.357	0.000	-4.469	-8.070
			26:COM13	34:CVOL3	18:COM5	-	26:COM13	26:COM13
	206	-ve	136.496	0.000	6.820	6.134	9.059	95.217
			16:COM3	-	24:COM11	20:COM7	24:COM11	16:COM3
			-111.822	-34.282	-8.357	0.000	-11.771	0.000
			26:COM13	34:CVOL3	18:COM5	-	18:COM5	-
1630	853	+ve	20.980	29.516	0.244	0.316	0.537	31.470
			16:COM3	16:COM3	28:COM15	28:COM15	20:COM7	16:COM3
			-9.306	0.000	-0.611	-7.917	-0.196	-12.791
			26:COM13	-	22:COM9	22:COM9	30:COM17	26:COM13
	854	-ve	20.980	27.323	0.244	0.316	0.310	0.000
			16:COM3	16:COM3	28:COM15	28:COM15	28:COM15	-
			-9.306	0.000	-0.611	-7.917	-0.684	-42.364
			26:COM13	-	22:COM9	22:COM9	22:COM9	18:COM5
1631	854	+ve	18.512	12.961	0.854	1.278	0.744	0.000
			16:COM3	16:COM3	28:COM15	20:COM7	20:COM7	-
			-7.579	-0.665	-1.191	-1.293	-0.425	-42.073
			26:COM13	26:COM13	22:COM9	30:COM17	30:COM17	18:COM5
	855	-ve	18.512	10.768	0.854	1.278	1.257	0.000
			16:COM3	16:COM3	28:COM15	20:COM7	28:COM15	-
			-7.579	-2.309	-1.191	-1.293	-1.597	-56.411
			26:COM13	26:COM13	22:COM9	30:COM17	22:COM9	34:CVOL3
1632	855	+ve	18.194	2.136	0.937	5.449	1.536	0.000
			16:COM3	24:COM11	28:COM15	34:CVOL3	20:COM7	-
			-6.897	-11.379	-0.940	0.000	-1.495	-56.071
			26:COM13	18:COM5	22:COM9	-	30:COM17	34:CVOL3
	856	-ve	18.194	0.491	0.937	5.449	0.416	0.000
			16:COM3	24:COM11	28:COM15	34:CVOL3	20:COM7	-
			-6.897	-13.572	-0.940	0.000	-0.380	-40.804
			26:COM13	18:COM5	22:COM9	-	30:COM17	18:COM5

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
1633	856	+ve	19.065	0.000	0.917	7.710	0.095	0.000
			16:COM3	-	16:COM3	34:CVOL3	28:COM15	-
			-6.745	-25.450	-0.276	0.000	-0.551	-40.916
			26:COM13	35:CVOL4	26:COM13	-	22:COM9	18:COM5
	857	-ve	19.065	0.000	0.917	7.710	1.608	29.938
			16:COM3	-	16:COM3	34:CVOL3	16:COM3	16:COM3
			-6.745	-27.643	-0.276	0.000	-0.813	-14.484
			26:COM13	35:CVOL4	26:COM13	-	26:COM13	26:COM13
1634	857	+ve	19.388	0.000	2.242	12.325	2.853	27.579
			16:COM3	-	28:COM15	20:COM7	20:COM7	16:COM3
			-4.053	-49.369	-3.053	-3.107	-2.231	-15.661
			26:COM13	34:CVOL3	22:COM9	30:COM17	30:COM17	26:COM13
	170	-ve	19.388	0.000	2.242	12.325	2.143	120.848
			16:COM3	-	28:COM15	20:COM7	28:COM15	16:COM3
			-4.053	-51.561	-3.053	-3.107	-3.103	0.000
			26:COM13	34:CVOL3	22:COM9	30:COM17	22:COM9	-
1635	873	+ve	38.060	29.537	1.971	0.962	2.826	32.388
			16:COM3	34:CVOL3	28:COM15	28:COM15	20:COM7	16:COM3
			-23.916	0.000	-2.290	-4.586	-2.329	-10.017
			26:COM13	-	22:COM9	22:COM9	30:COM17	26:COM13
	874	-ve	38.060	27.344	1.971	0.962	1.654	0.000
			16:COM3	34:CVOL3	28:COM15	28:COM15	28:COM15	-
			-23.916	0.000	-2.290	-4.586	-1.778	-41.410
			26:COM13	-	22:COM9	22:COM9	22:COM9	18:COM5
1636	874	+ve	36.373	15.920	0.821	1.036	0.723	0.000
			16:COM3	16:COM3	20:COM7	28:COM15	28:COM15	-
			-21.802	0.000	-0.728	-3.345	-0.779	-41.186
			26:COM13	-	30:COM17	22:COM9	22:COM9	18:COM5
	875	-ve	36.373	13.728	0.821	1.036	0.837	0.000
			16:COM3	16:COM3	20:COM7	28:COM15	20:COM7	-
			-21.802	-0.470	-0.728	-3.345	-0.711	-61.092
			26:COM13	26:COM13	30:COM17	22:COM9	30:COM17	34:CVOL3
1637	875	+ve	35.241	3.187	0.421	0.000	0.193	0.000
			16:COM3	24:COM11	20:COM7	-	28:COM15	-
			-21.084	-9.556	-0.286	-2.247	-0.405	-61.034
			26:COM13	18:COM5	30:COM17	34:CVOL3	22:COM9	34:CVOL3
	876	-ve	35.241	1.543	0.421	0.000	0.477	0.000
			16:COM3	24:COM11	20:COM7	-	20:COM7	-
			-21.084	-11.749	-0.286	-2.247	-0.426	-48.835
			26:COM13	18:COM5	30:COM17	34:CVOL3	30:COM17	18:COM5
1638	876	+ve	33.306	0.000	0.343	0.000	0.186	0.000
			16:COM3	-	28:COM15	-	20:COM7	-
			-18.302	-26.973	-0.339	-2.659	-0.191	-48.815
			26:COM13	18:COM5	22:COM9	22:COM9	30:COM17	18:COM5
	877	-ve	33.306	0.000	0.343	0.000	0.483	23.329
			16:COM3	-	28:COM15	-	28:COM15	16:COM3
			-18.302	-29.166	-0.339	-2.659	-0.480	-17.198
			26:COM13	18:COM5	22:COM9	22:COM9	22:COM9	26:COM13

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
1639	877	+ve	33.236	0.000	1.978	23.659	2.714	21.769
			16:COM3	-	24:COM11	20:COM7	16:COM3	16:COM3
			-18.517	-68.216	-3.046	-1.162	-1.777	-18.251
			26:COM13	34:CVOL3	18:COM5	30:COM17	26:COM13	26:COM13
	168	-ve	33.236	0.000	1.978	23.659	2.081	145.770
			16:COM3	-	24:COM11	20:COM7	24:COM11	16:COM3
			-18.517	-70.409	-3.046	-1.162	-3.225	0.000
			26:COM13	34:CVOL3	18:COM5	30:COM17	18:COM5	-
1640	878	+ve	12.780	26.778	0.255	1.061	1.410	25.020
			16:COM3	16:COM3	24:COM11	28:COM15	16:COM3	16:COM3
			-2.262	0.000	-1.070	-5.472	-0.417	-17.436
			26:COM13	-	18:COM5	22:COM9	26:COM13	26:COM13
	879	-ve	12.780	24.585	0.255	1.061	0.094	0.000
			16:COM3	16:COM3	24:COM11	28:COM15	24:COM11	-
			-2.262	0.000	-1.070	-5.472	-0.691	-43.684
			26:COM13	-	18:COM5	22:COM9	18:COM5	18:COM5
1641	879	+ve	12.945	11.635	0.000	1.896	0.464	0.000
			16:COM3	16:COM3	-	24:COM17	16:COM3	-
			-3.840	-1.545	-0.307	-0.325	-0.168	-43.398
			26:COM13	26:COM13	18:COM5	18:COM5	26:COM13	18:COM5
	880	-ve	12.945	9.442	0.000	1.896	0.021	0.000
			16:COM3	16:COM3	-	24:COM17	24:COM11	-
			-3.840	-3.189	-0.307	-0.325	-0.340	-54.420
			26:COM13	26:COM13	18:COM5	18:COM5	18:COM5	34:CVOL3
1642	880	+ve	14.951	1.466	0.269	5.513	0.175	0.000
			16:COM3	24:COM11	28:COM15	20:COM7	20:COM7	-
			-5.758	-11.810	-0.330	0.000	-0.088	-54.221
			26:COM13	18:COM5	22:COM9	-	30:COM17	34:CVOL3
	881	-ve	14.951	0.000	0.269	5.513	0.478	0.000
			16:COM3	-	28:COM15	20:COM7	28:COM15	-
			-5.758	-14.002	-0.330	0.000	-0.508	-38.600
			26:COM13	18:COM5	22:COM9	-	22:COM9	18:COM5
1643	881	+ve	14.962	0.000	0.357	8.510	0.000	0.000
			16:COM3	-	16:COM3	20:COM7	-	-
			-4.938	-25.606	0.000	0.000	-0.205	-38.626
			26:COM13	18:COM5	-	-	18:COM5	18:COM5
	882	-ve	14.962	0.000	0.357	8.510	0.574	32.063
			16:COM3	-	16:COM3	20:COM7	16:COM3	16:COM3
			-4.938	-27.799	0.000	0.000	-0.098	-11.968
			26:COM13	18:COM5	-	-	26:COM13	26:COM13
1644	882	+ve	16.258	0.000	1.736	12.255	2.384	31.811
			16:COM3	-	28:COM15	20:COM7	20:COM7	16:COM3
			-5.569	-42.467	-2.579	-3.148	-1.669	-12.079
			26:COM13	34:CVOL3	22:COM9	30:COM17	30:COM17	26:COM13
	172	-ve	16.258	0.000	1.736	12.255	1.724	111.978
			16:COM3	-	28:COM15	20:COM7	28:COM15	16:COM3
			-5.569	-44.660	-2.579	-3.148	-2.653	0.000
			26:COM13	34:CVOL3	22:COM9	30:COM17	22:COM9	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
1645	883	+ve	12.230	28.060	0.327	1.879	0.745	31.467
			16:COM3	16:COM3	28:COM15	28:COM15	20:COM7	16:COM3
			-3.328	0.000	-0.453	-7.228	-0.551	-14.476
			26:COM13	-	22:COM9	22:COM9	30:COM17	26:COM13
	884	-ve	12.230	25.867	0.327	1.879	0.106	0.000
			16:COM3	16:COM3	28:COM15	28:COM15	20:COM7	-
			-3.328	0.000	-0.453	-7.228	-0.159	-37.346
			26:COM13	-	22:COM9	22:COM9	30:COM17	18:COM5
1646	884	+ve	13.420	13.173	0.740	1.144	0.691	0.000
			16:COM3	16:COM3	16:COM3	28:COM15	24:COM11	-
			-6.343	-1.447	-0.592	-2.558	-0.769	-37.057
			26:COM13	26:COM13	26:COM13	22:COM9	18:COM5	18:COM5
	885	-ve	13.420	10.980	0.740	1.144	0.680	0.000
			16:COM3	16:COM3	16:COM3	28:COM15	16:COM3	-
			-6.343	-3.092	-0.592	-2.558	-0.470	-50.662
			26:COM13	26:COM13	26:COM13	22:COM9	26:COM13	34:CVOL3
1647	885	+ve	17.421	2.232	0.800	2.454	0.000	0.000
			16:COM3	24:COM11	16:COM3	16:COM3	-	-
			-12.010	-10.141	-0.226	-0.240	-0.367	-50.576
			26:COM13	18:COM5	26:COM13	26:COM13	22:COM9	34:CVOL3
	886	-ve	17.421	0.588	0.800	2.454	1.306	0.000
			16:COM3	24:COM11	16:COM3	16:COM3	16:COM3	-
			-12.010	-12.334	-0.226	-0.240	-0.596	-40.363
			26:COM13	18:COM5	26:COM13	26:COM13	26:COM13	18:COM5
1648	886	+ve	13.128	0.000	0.974	5.602	0.493	0.000
			16:COM3	-	20:COM7	20:COM7	28:COM15	-
			-11.464	-23.167	-0.939	-1.034	-0.551	-40.571
			26:COM13	34:CVOL3	30:COM17	30:COM17	22:COM9	18:COM5
	887	-ve	13.128	0.000	0.974	5.602	1.546	28.426
			16:COM3	-	20:COM7	20:COM7	20:COM7	16:COM3
			-11.464	-25.360	-0.939	-1.034	-1.535	-13.107
			26:COM13	34:CVOL3	30:COM17	30:COM17	30:COM17	26:COM13
1649	887	+ve	21.398	0.000	1.018	11.622	4.650	28.048
			16:COM3	-	28:COM15	20:COM7	20:COM7	16:COM3
			-20.018	-40.938	-5.392	-4.220	-0.936	-13.223
			26:COM13	34:CVOL3	22:COM9	30:COM17	30:COM17	26:COM13
	174	-ve	21.398	0.000	1.018	11.622	1.075	101.427
			16:COM3	-	28:COM15	20:COM7	28:COM15	16:COM3
			-20.018	-43.130	-5.392	-4.220	-5.891	0.000
			26:COM13	34:CVOL3	22:COM9	30:COM17	22:COM9	-
1650	913	+ve	47.696	1.816	1.378	2.778	1.497	1.162
			20:COM7	20:COM7	20:COM7	20:COM7	28:COM15	28:COM15
			-42.818	-1.151	-1.359	-1.806	-1.412	-1.173
			30:COM17	30:COM17	30:COM17	30:COM17	22:COM9	22:COM9
	914	-ve	47.696	0.763	1.378	2.778	1.280	2.315
			20:COM7	28:COM15	20:COM7	20:COM7	20:COM7	20:COM7
			-42.818	-2.462	-1.359	-1.806	-1.159	-1.317
			30:COM17	22:COM9	30:COM17	30:COM17	30:COM17	30:COM17

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
1651	914	+ve	44.736	1.334	0.788	1.627	0.944	0.551
			20:COM7	20:COM7	20:COM7	20:COM7	28:COM15	28:COM15
			-32.633	-0.289	-0.845	-0.869	-0.717	-0.549
			30:COM17	30:COM17	30:COM17	30:COM17	22:COM9	22:COM9
	915	-ve	44.736	0.190	0.788	1.627	0.821	1.080
			20:COM7	28:COM15	20:COM7	20:COM7	20:COM7	20:COM7
			-32.633	-1.509	-0.845	-0.869	-0.707	-0.811
			30:COM17	22:COM9	30:COM17	30:COM17	30:COM17	30:COM17
1652	915	+ve	39.071	1.246	0.435	0.564	0.510	0.445
			20:COM7	20:COM7	20:COM7	16:COM3	20:COM7	28:COM15
			-24.554	-0.027	-0.413	-0.514	-0.368	-0.334
			30:COM17	30:COM17	30:COM17	26:COM13	30:COM17	22:COM9
	916	-ve	39.071	0.055	0.435	0.564	0.524	0.741
			20:COM7	28:COM15	20:COM7	16:COM3	16:COM3	28:COM15
			-24.554	-1.200	-0.413	-0.514	-0.339	-0.702
			30:COM17	22:COM9	30:COM17	26:COM13	26:COM13	22:COM9
1653	916	+ve	29.999	1.698	0.602	0.926	0.548	1.064
			20:COM7	20:COM7	24:COM11	28:COM15	16:COM3	16:COM3
			-19.764	-0.302	-0.530	-1.532	-0.461	-0.672
			30:COM17	30:COM17	18:COM5	22:COM9	26:COM13	26:COM13
	917	-ve	29.999	0.466	0.602	0.926	0.717	0.991
			20:COM7	28:COM15	24:COM11	28:COM15	24:COM11	28:COM15
			-19.764	-1.434	-0.530	-1.532	-0.490	-1.017
			30:COM17	22:COM9	18:COM5	22:COM9	18:COM5	22:COM9
1654	917	+ve	20.524	2.613	1.196	1.851	1.088	2.337
			16:COM3	16:COM3	24:COM11	28:COM15	16:COM3	16:COM3
			-18.832	-0.762	-1.326	-2.605	-0.914	-1.054
			26:COM13	26:COM13	18:COM5	22:COM9	26:COM13	26:COM13
	918	-ve	20.524	1.278	1.196	1.851	1.421	1.424
			16:COM3	24:COM11	24:COM11	28:COM15	24:COM11	24:COM11
			-18.832	-1.791	-1.326	-2.605	-1.500	-1.447
			26:COM13	18:COM5	18:COM5	22:COM9	18:COM5	18:COM5
1655	918	+ve	19.114	7.693	1.503	9.204	2.029	5.280
			24:COM11	16:COM3	24:COM11	20:COM7	16:COM3	16:COM3
			-28.847	-5.661	-2.499	-4.586	-1.425	-4.027
			18:COM5	26:COM13	18:COM5	30:COM17	26:COM13	26:COM13
	189	-ve	19.114	6.346	1.503	9.204	1.515	8.003
			24:COM11	24:COM11	24:COM11	20:COM7	24:COM11	24:COM11
			-28.847	-6.675	-2.499	-4.586	-2.853	-8.410
			18:COM5	18:COM5	18:COM5	30:COM17	18:COM5	18:COM5
1656	919	+ve	16.705	1.821	1.032	2.363	1.731	1.428
			20:COM7	16:COM3	28:COM15	20:COM7	20:COM7	24:COM11
			-16.420	-1.211	-1.445	-1.976	-1.216	-1.374
			30:COM17	26:COM13	22:COM9	30:COM17	30:COM17	18:COM5
	924	-ve	16.705	0.777	1.032	2.363	0.821	2.326
			20:COM7	24:COM11	28:COM15	20:COM7	28:COM15	20:COM7
			-16.420	-2.556	-1.445	-1.976	-1.120	-1.118
			30:COM17	18:COM5	22:COM9	30:COM17	22:COM9	30:COM17

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
1657	920	+ve	28.002	1.013	0.478	0.556	0.609	0.440
			20:COM7	16:COM3	24:COM11	24:COM11	16:COM3	24:COM11
			-17.048	0.000	-0.502	-0.616	-0.394	-0.327
			30:COM17	-	18:COM5	18:COM5	26:COM13	18:COM5
	921	-ve	28.002	0.000	0.478	0.556	0.590	0.465
			20:COM7	-	24:COM11	24:COM11	16:COM3	28:COM15
			-17.048	-1.008	-0.502	-0.616	-0.423	-0.367
			30:COM17	18:COM5	18:COM5	18:COM5	26:COM13	22:COM9
1658	921	+ve	29.886	1.482	0.856	1.109	0.542	0.936
			16:COM3	16:COM3	16:COM3	28:COM15	16:COM3	16:COM3
			-23.167	-0.125	-0.571	-1.618	-0.653	-0.585
			26:COM13	26:COM13	26:COM13	22:COM9	26:COM13	26:COM13
	922	-ve	29.886	0.249	0.856	1.109	1.049	0.711
			16:COM3	24:COM11	16:COM3	28:COM15	16:COM3	28:COM15
			-23.167	-1.281	-0.571	-1.618	-0.598	-0.680
			26:COM13	18:COM5	26:COM13	22:COM9	26:COM13	22:COM9
1659	922	+ve	28.017	2.517	1.512	2.017	0.912	2.372
			24:COM11	16:COM3	16:COM3	28:COM15	16:COM3	16:COM3
			-29.938	-0.562	-1.203	-2.719	-1.140	-1.037
			18:COM5	26:COM13	26:COM13	22:COM9	26:COM13	26:COM13
	923	-ve	28.017	1.152	1.512	2.017	1.857	1.121
			24:COM11	16:COM3	16:COM3	28:COM15	16:COM3	24:COM11
			-29.938	-1.586	-1.203	-2.719	-1.475	-1.285
			18:COM5	26:COM13	26:COM13	22:COM9	26:COM13	18:COM5
1660	923	+ve	28.814	7.739	2.130	9.067	1.878	5.469
			24:COM11	16:COM3	24:COM11	20:COM7	16:COM3	16:COM3
			-38.856	-4.576	-2.450	-5.620	-1.825	-3.571
			18:COM5	26:COM13	18:COM5	30:COM17	26:COM13	26:COM13
	190	-ve	28.814	6.375	2.130	9.067	2.392	6.478
			24:COM11	16:COM3	24:COM11	20:COM7	24:COM11	24:COM11
			-38.856	-5.599	-2.450	-5.620	-2.970	-8.462
			18:COM5	26:COM13	18:COM5	30:COM17	18:COM5	18:COM5
1661	924	+ve	24.015	1.356	0.458	1.300	1.014	0.815
			20:COM7	16:COM3	28:COM15	20:COM7	20:COM7	24:COM11
			-15.981	-0.285	-0.815	-0.979	-0.470	-0.742
			30:COM17	26:COM13	22:COM9	30:COM17	30:COM17	18:COM5
	920	-ve	24.015	0.200	0.458	1.300	0.438	0.911
			20:COM7	24:COM11	28:COM15	20:COM7	24:COM11	16:COM3
			-15.981	-1.518	-0.815	-0.979	-0.599	-0.593
			30:COM17	18:COM5	22:COM9	30:COM17	18:COM5	26:COM13
1662	5718	+ve	25.251	12.661	1.129	2.261	1.936	10.034
			28:COM15	20:COM7	24:COM11	16:COM3	16:COM3	28:COM15
			-91.355	-8.909	-2.508	-0.002	-1.100	-11.580
			22:COM9	30:COM17	18:COM5	26:COM13	26:COM13	22:COM9
	212	-ve	25.251	10.517	1.129	2.261	1.169	7.454
			28:COM15	20:COM7	24:COM11	16:COM3	24:COM11	28:COM15
			-91.355	-10.517	-2.508	-0.002	-2.962	-12.578
			22:COM9	30:COM17	18:COM5	26:COM13	18:COM5	22:COM9

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
1664	933	+ve	22.551	28.501	1.656	3.037	0.947	7.559
			20:COM7	28:COM15	20:COM7	20:COM7	16:COM3	20:COM7
			-30.046	-74.436	-1.170	-0.588	-0.307	-3.844
			30:COM17	22:COM9	30:COM17	30:COM17	26:COM13	30:COM17
	5725	-ve	22.551	27.885	1.656	3.037	1.297	51.794
			20:COM7	28:COM15	20:COM7	20:COM7	20:COM7	20:COM7
			-30.046	-75.257	-1.170	-0.588	-0.302	-14.021
			30:COM17	22:COM9	30:COM17	30:COM17	30:COM17	30:COM17
1665	934	+ve	46.079	0.330	7.195	3.086	5.369	17.048
			16:COM3	28:COM15	28:COM15	28:COM15	20:COM7	28:COM15
			-24.489	-37.878	-8.307	-11.835	-4.679	-32.177
			26:COM13	22:COM9	22:COM9	22:COM9	30:COM17	22:COM9
	204	-ve	46.079	0.000	7.195	3.086	9.664	89.503
			16:COM3	-	28:COM15	28:COM15	28:COM15	20:COM7
			-24.489	-40.118	-8.307	-11.835	-11.191	-25.902
			26:COM13	22:COM9	22:COM9	22:COM9	22:COM9	30:COM17
1666	935	+ve	49.693	8.351	0.309	1.545	0.732	0.000
			16:COM3	28:COM15	24:COM11	28:COM15	20:COM7	-
			-34.674	-19.131	-0.956	-8.817	-0.170	-33.051
			26:COM13	22:COM9	18:COM5	22:COM9	30:COM17	35:CVOL4
	934	-ve	49.693	6.671	0.309	1.545	0.544	17.392
			16:COM3	28:COM15	24:COM11	28:COM15	24:COM11	28:COM15
			-34.674	-21.372	-0.956	-8.817	-1.270	-32.601
			26:COM13	22:COM9	18:COM5	22:COM9	18:COM5	22:COM9
1667	936	+ve	32.103	2.129	1.421	2.887	3.427	2.991
			16:COM3	16:COM3	24:COM11	24:COM11	16:COM3	16:COM3
			-13.947	0.000	-2.959	-5.350	-1.622	-0.528
			26:COM13	-	18:COM5	18:COM5	26:COM13	26:COM13
	937	-ve	32.103	0.749	1.421	2.887	1.213	0.325
			16:COM3	16:COM3	24:COM11	24:COM11	24:COM11	24:COM11
			-13.947	-0.595	-2.959	-5.350	-2.473	-0.576
			26:COM13	26:COM13	18:COM5	18:COM5	18:COM5	18:COM5
1668	937	+ve	34.270	2.359	0.219	0.737	1.190	2.302
			16:COM3	16:COM3	24:COM11	24:COM11	16:COM3	16:COM3
			-15.144	0.000	-0.922	-1.449	-0.283	-0.325
			26:COM13	-	18:COM5	18:COM5	26:COM13	26:COM13
	938	-ve	34.270	0.979	0.219	0.737	0.154	0.000
			16:COM3	16:COM3	24:COM11	24:COM11	24:COM11	-
			-15.144	-0.632	-0.922	-1.449	-0.649	-1.117
			26:COM13	26:COM13	18:COM5	18:COM5	18:COM5	22:COM9
1669	938	+ve	32.816	2.123	0.058	0.388	0.307	1.720
			16:COM3	16:COM3	24:COM11	16:COM3	16:COM3	16:COM3
			-14.539	0.000	-0.225	-0.387	0.000	-0.140
			26:COM13	-	18:COM5	26:COM13	-	26:COM13
	939	-ve	32.816	0.743	0.058	0.388	0.135	0.018
			16:COM3	16:COM3	24:COM11	16:COM3	20:COM7	24:COM11
			-14.539	-0.596	-0.225	-0.387	-0.161	-1.139
			26:COM13	26:COM13	18:COM5	26:COM13	30:COM17	18:COM5

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
1670	939	+ve	29.171	2.367	0.680	1.175	0.507	1.870
			20:COM7	20:COM7	20:COM7	24:COM1	20:COM7	20:COM7
			-16.703	0.000	-0.564	-1.072	-0.512	-0.356
			30:COM1	-	30:COM1	18:COM5	30:COM1	30:COM1
	940	-ve	29.171	0.988	0.680	1.175	0.862	0.469
			20:COM7	20:COM7	20:COM7	24:COM1	20:COM7	28:COM1
			-16.703	-0.931	-0.564	-1.072	-0.635	-1.476
			30:COM1	30:COM1	30:COM1	18:COM5	30:COM1	22:COM9
1671	940	+ve	25.406	3.303	1.473	1.844	1.164	3.068
			20:COM7	20:COM7	28:COM1	24:COM1	20:COM7	20:COM7
			-22.219	-0.625	-1.432	-1.774	-1.167	-0.997
			30:COM1	30:COM1	22:COM9	18:COM5	30:COM1	30:COM1
	941	-ve	25.406	1.923	1.473	1.844	1.780	1.281
			20:COM7	20:COM7	28:COM1	24:COM1	28:COM1	28:COM1
			-22.219	-1.659	-1.432	-1.774	-1.701	-2.143
			30:COM1	30:COM1	22:COM9	18:COM5	22:COM9	22:COM9
1672	941	+ve	27.925	8.537	1.726	8.316	2.010	6.347
			28:COM1	20:COM7	28:COM1	20:COM7	20:COM7	20:COM7
			-37.349	-4.882	-2.311	-4.935	-1.771	-3.814
			22:COM9	30:COM1	22:COM9	30:COM1	30:COM1	30:COM1
	196	-ve	27.925	7.158	1.726	8.316	1.678	6.958
			28:COM1	20:COM7	28:COM1	20:COM7	28:COM1	28:COM1
			-37.349	-5.917	-2.311	-4.935	-2.606	-9.306
			22:COM9	30:COM1	22:COM9	30:COM1	22:COM9	22:COM9
1673	942	+ve	37.732	32.041	5.019	10.392	4.902	40.586
			20:COM7	34:CVOL3	24:COM1	16:COM3	16:COM3	16:COM3
			-27.661	0.000	-9.623	-4.538	-1.890	0.000
			30:COM1	-	18:COM5	26:COM1	26:COM1	-
	6200	-ve	37.732	31.002	5.019	10.392	2.866	13.935
			20:COM7	34:CVOL3	24:COM1	16:COM3	24:COM1	16:COM3
			-27.661	0.000	-9.623	-4.538	-4.110	-6.245
			30:COM1	-	18:COM5	26:COM1	18:COM5	26:COM1
1674	943	+ve	39.897	18.042	5.610	5.515	4.241	0.306
			20:COM7	34:CVOL3	24:COM1	16:COM3	24:COM1	24:COM1
			-29.206	0.000	-5.448	-4.454	-4.451	-22.537
			30:COM1	-	18:COM5	26:COM1	18:COM5	18:COM5
	6201	-ve	39.897	16.458	5.610	5.515	3.481	0.000
			20:COM7	34:CVOL3	24:COM1	16:COM3	24:COM1	-
			-29.206	0.000	-5.448	-4.454	-3.462	-41.962
			30:COM1	-	18:COM5	26:COM1	18:COM5	35:CVOL4
1675	944	+ve	37.830	6.490	4.626	1.457	3.519	0.000
			20:COM7	16:COM3	16:COM3	24:COM1	24:COM1	-
			-27.943	0.000	-2.710	-3.542	-5.991	-48.686
			30:COM1	-	26:COM1	18:COM5	18:COM5	35:CVOL4
	945	-ve	37.830	4.251	4.626	1.457	3.243	0.000
			20:COM7	16:COM3	16:COM3	24:COM1	16:COM3	-
			-27.943	-1.225	-2.710	-3.542	-1.900	-57.028
			30:COM1	26:COM1	26:COM1	18:COM5	26:COM1	35:CVOL4

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
1676	945	+ve	31.311	0.000	2.523	1.891	1.120	0.000
			20:COM7	-	20:COM7	20:COM7	28:COM15	-
			-24.645	-10.366	-1.699	-1.824	-1.990	-58.910
			30:COM17	18:COM5	30:COM17	30:COM17	22:COM9	35:CVOL4
	946	-ve	31.311	0.000	2.523	1.891	3.039	0.000
			20:COM7	-	20:COM7	20:COM7	20:COM7	-
			-24.645	-12.605	-1.699	-1.824	-2.268	-37.319
			30:COM17	18:COM5	30:COM17	30:COM17	30:COM17	34:CVOL3
1677	946	+ve	21.667	0.000	2.122	7.010	3.000	0.000
			20:COM7	-	28:COM15	20:COM7	28:COM15	-
			-11.353	-21.334	-2.089	-0.839	-3.903	-38.208
			30:COM17	35:CVOL4	22:COM9	30:COM17	22:COM9	34:CVOL3
	6203	-ve	21.667	0.000	2.122	7.010	2.564	0.000
			20:COM7	-	28:COM15	20:COM7	28:COM15	-
			-11.353	-21.766	-2.089	-0.839	-3.454	-29.945
			30:COM17	35:CVOL4	22:COM9	30:COM17	22:COM9	34:CVOL3
1678	947	+ve	16.825	0.000	5.282	18.224	4.530	21.849
			20:COM7	-	24:COM11	16:COM3	24:COM11	16:COM3
			-7.913	-41.969	-5.866	0.000	-5.036	-1.356
			30:COM17	35:CVOL4	18:COM5	-	18:COM5	26:COM13
	6204	-ve	16.825	0.000	5.282	18.224	1.776	55.363
			20:COM7	-	24:COM11	16:COM3	28:COM15	16:COM3
			-7.913	-42.945	-5.866	0.000	-2.789	0.000
			30:COM17	35:CVOL4	18:COM5	-	22:COM9	-
1679	5993	+ve	18.731	0.000	1.179	10.926	1.490	113.822
			20:COM7	-	24:COM11	20:COM7	16:COM3	35:CVOL4
			-7.459	-110.291	-4.435	-11.136	-0.646	0.000
			30:COM17	35:CVOL4	18:COM5	30:COM17	26:COM13	-
	210	-ve	18.731	0.000	1.179	10.926	0.319	198.225
			20:COM7	-	24:COM11	20:COM7	28:COM15	35:CVOL4
			-7.459	-111.214	-4.435	-11.136	-1.957	0.000
			30:COM17	35:CVOL4	18:COM5	30:COM17	22:COM9	-
1680	5994	+ve	17.774	0.000	0.902	0.000	0.701	3.077
			20:COM7	-	28:COM15	-	20:COM7	24:COM11
			-9.492	-55.124	-1.149	-11.203	-0.416	-15.894
			30:COM17	35:CVOL4	22:COM9	22:COM9	30:COM17	18:COM5
	5993	-ve	17.774	0.000	0.902	0.000	1.436	97.807
			20:COM7	-	28:COM15	-	24:COM11	35:CVOL4
			-9.492	-57.492	-1.149	-11.203	-1.635	0.000
			30:COM17	35:CVOL4	22:COM9	22:COM9	18:COM5	-
1681	5995	+ve	21.077	21.607	1.990	9.863	1.765	0.000
			20:COM7	34:CVOL3	28:COM15	35:CVOL4	20:COM7	-
			-5.249	0.000	-2.944	0.000	-1.059	-63.013
			30:COM17	-	22:COM9	-	30:COM17	35:CVOL4
	6016	-ve	21.077	20.485	1.990	9.863	0.802	0.000
			20:COM7	34:CVOL3	28:COM15	35:CVOL4	20:COM7	-
			-5.249	0.000	-2.944	0.000	-0.980	-82.478
			30:COM17	-	22:COM9	-	30:COM17	34:CVOL3

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
1682	5996	+ve	18.364	0.000	2.909	9.513	1.505	0.000
			20:COM7	-	20:COM7	35:CVOL4	20:COM7	-
			-2.217	-6.915	-3.265	0.000	-1.106	-93.834
			30:COM17	18:COM5	30:COM17	-	30:COM17	34:CVOL3
	6017	-ve	18.364	0.000	2.909	9.513	2.277	0.000
			20:COM7	-	20:COM7	35:CVOL4	16:COM3	-
			-2.217	-8.248	-3.265	0.000	-2.269	-87.321
			30:COM17	18:COM5	30:COM17	-	26:COM13	34:CVOL3
1683	5997	+ve	14.962	0.000	2.144	4.737	1.529	0.000
			20:COM7	-	20:COM7	16:COM3	28:COM15	-
			-2.208	-29.055	-2.314	0.000	-1.338	-76.849
			30:COM17	34:CVOL3	30:COM17	-	22:COM9	34:CVOL3
	6018	-ve	14.962	0.000	2.144	4.737	1.390	0.000
			20:COM7	-	20:COM7	16:COM3	20:COM7	-
			-2.208	-30.596	-2.314	0.000	-1.415	-38.907
			30:COM17	34:CVOL3	30:COM17	-	30:COM17	34:CVOL3
1684	5998	+ve	21.687	0.000	0.144	4.118	0.541	0.050
			16:COM3	-	28:COM15	28:COM15	20:COM7	24:COM11
			-7.968	-53.122	-0.328	-3.998	-0.257	-18.837
			26:COM13	34:CVOL3	22:COM9	22:COM9	30:COM17	18:COM5
	5999	-ve	21.687	0.000	0.144	4.118	0.103	90.177
			16:COM3	-	28:COM15	28:COM15	24:COM11	34:CVOL3
			-7.968	-55.489	-0.328	-3.998	-0.178	0.000
			26:COM13	34:CVOL3	22:COM9	22:COM9	18:COM5	-
1685	5999	+ve	13.271	0.000	5.933	0.655	2.245	89.175
			16:COM3	-	20:COM7	28:COM15	24:COM11	34:CVOL3
			-0.090	-66.852	-6.508	-19.013	-2.258	0.000
			26:COM13	34:CVOL3	30:COM17	22:COM9	18:COM5	-
	211	-ve	13.271	0.000	5.933	0.655	3.042	147.935
			16:COM3	-	20:COM7	28:COM15	28:COM15	34:CVOL3
			-0.090	-67.908	-6.508	-19.013	-3.557	0.000
			26:COM13	34:CVOL3	30:COM17	22:COM9	22:COM9	-
1686	6014	+ve	29.935	43.063	1.071	6.125	1.175	78.580
			16:COM3	34:CVOL3	28:COM15	16:COM3	28:COM15	16:COM3
			-20.404	0.000	-1.086	-0.804	-1.225	0.000
			26:COM13	-	22:COM9	26:COM13	22:COM9	-
	6009	-ve	29.935	40.701	1.071	6.125	0.889	7.543
			16:COM3	34:CVOL3	28:COM15	16:COM3	28:COM15	24:COM11
			-20.404	0.000	-1.086	-0.804	-0.967	-21.306
			26:COM13	-	22:COM9	26:COM13	22:COM9	18:COM5
1687	6009	+ve	29.990	23.238	0.413	8.222	0.463	7.707
			16:COM3	16:COM3	20:COM7	20:COM7	28:COM15	24:COM11
			-19.552	0.000	-0.352	0.000	-0.522	-21.217
			26:COM13	-	30:COM17	-	22:COM9	18:COM5
	6010	-ve	29.990	20.876	0.413	8.222	0.293	0.000
			16:COM3	16:COM3	20:COM7	20:COM7	28:COM15	-
			-19.552	0.000	-0.352	0.000	-0.233	-51.480
			26:COM13	-	30:COM17	-	22:COM9	35:CVOL4

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
1688	6010	+ve	28.040	7.042	0.338	8.112	0.634	0.000
			16:COM3	24:COM11	24:COM11	20:COM7	16:COM3	-
			-16.401	-4.885	-0.489	-1.362	-0.512	-51.306
			26:COM13	18:COM5	18:COM5	30:COM17	26:COM13	35:CVOL4
	6011	-ve	28.040	5.271	0.338	8.112	0.219	0.000
			16:COM3	24:COM11	24:COM11	20:COM7	28:COM15	-
			-16.401	-7.246	-0.489	-1.362	-0.392	-53.074
			26:COM13	18:COM5	18:COM5	30:COM17	22:COM9	18:COM5
1689	6011	+ve	26.736	0.451	0.418	5.171	1.225	0.000
			16:COM3	24:COM11	24:COM11	28:COM15	16:COM3	-
			-14.317	-20.478	-0.827	-7.989	-0.884	-53.090
			26:COM13	18:COM5	18:COM5	22:COM9	26:COM13	18:COM5
	6012	-ve	26.736	0.000	0.418	5.171	0.344	16.098
			16:COM3	-	24:COM11	28:COM15	28:COM15	24:COM11
			-14.317	-22.840	-0.827	-7.989	-0.800	-36.589
			26:COM13	18:COM5	18:COM5	22:COM9	22:COM9	18:COM5
1690	6004	+ve	31.266	0.000	15.621	8.849	10.503	28.333
			16:COM3	-	16:COM3	28:COM15	24:COM11	24:COM11
			-19.112	-48.490	-13.858	-7.022	-12.633	-31.207
			26:COM13	18:COM5	26:COM13	22:COM9	18:COM5	18:COM5
	6013	-ve	31.266	0.000	15.621	8.849	7.005	88.874
			16:COM3	-	16:COM3	28:COM15	24:COM11	16:COM3
			-19.112	-49.995	-13.858	-7.022	-6.942	-20.271
			26:COM13	18:COM5	26:COM13	22:COM9	18:COM5	26:COM13
1691	960	+ve	23.050	4.235	0.916	10.248	2.358	0.000
			16:COM3	20:COM7	24:COM11	35:CVOL4	16:COM3	-
			-21.712	-2.076	-1.145	0.000	-1.992	-47.689
			26:COM13	30:COM17	18:COM5	-	26:COM13	22:COM9
	6423	-ve	23.050	2.999	0.916	10.248	0.598	0.000
			16:COM3	28:COM15	24:COM11	35:CVOL4	28:COM15	-
			-21.712	-3.405	-1.145	0.000	-0.620	-47.144
			26:COM13	22:COM9	18:COM5	-	22:COM9	34:CVOL3
1692	961	+ve	19.019	0.000	0.652	5.181	1.338	0.000
			16:COM3	-	24:COM11	35:CVOL4	16:COM3	-
			-15.428	-14.787	-0.670	0.000	-1.328	-21.859
			26:COM13	22:COM9	18:COM5	-	26:COM13	35:CVOL4
	210	-ve	19.019	0.000	0.652	5.181	1.343	48.409
			16:COM3	-	24:COM11	35:CVOL4	24:COM11	20:COM7
			-15.428	-18.328	-0.670	0.000	-1.407	0.000
			26:COM13	22:COM9	18:COM5	-	18:COM5	-
1693	6019	+ve	26.996	5.171	2.466	0.000	2.251	1.531
			16:COM3	28:COM15	16:COM3	-	24:COM11	28:COM15
			-26.087	-26.164	-2.135	-9.825	-2.640	-12.470
			26:COM13	22:COM9	26:COM13	34:CVOL3	18:COM5	22:COM9
	211	-ve	26.996	1.243	2.466	0.000	3.054	56.834
			16:COM3	28:COM15	16:COM3	-	16:COM3	20:COM7
			-26.087	-33.710	-2.135	-9.825	-2.677	-6.067
			26:COM13	22:COM9	26:COM13	34:CVOL3	26:COM13	30:COM17

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
1700	969	+ve	25.525	2.988	1.260	1.981	1.542	2.532
			24:COM1	28:COM1	20:COM7	20:COM7	28:COM1	28:COM1
			-32.293	-3.460	-1.272	-2.261	-1.471	-3.579
			18:COM5	22:COM9	30:COM1	30:COM1	22:COM9	22:COM9
	970	-ve	25.525	1.959	1.260	1.981	1.035	4.647
			24:COM1	28:COM1	20:COM7	20:COM7	20:COM7	20:COM7
			-32.293	-4.832	-1.272	-2.261	-0.988	-2.379
			18:COM5	22:COM9	30:COM1	30:COM1	30:COM1	30:COM1
1701	970	+ve	30.117	1.597	0.517	0.966	0.775	1.149
			16:COM3	28:COM1	28:COM1	28:COM1	20:COM7	28:COM1
			-31.015	-1.501	-0.614	-1.295	-0.591	-1.940
			26:COM1	22:COM9	22:COM9	22:COM9	30:COM1	22:COM9
	971	-ve	30.117	0.568	0.517	0.966	0.463	2.414
			16:COM3	28:COM1	28:COM1	28:COM1	20:COM7	20:COM7
			-31.015	-2.873	-0.614	-1.295	-0.472	-1.015
			26:COM1	22:COM9	22:COM9	22:COM9	30:COM1	30:COM1
1702	971	+ve	36.966	1.242	0.096	0.117	0.155	0.630
			16:COM3	28:COM1	28:COM1	24:COM1	20:COM7	28:COM1
			-35.195	-1.147	-0.057	-0.325	-0.154	-1.446
			26:COM1	22:COM9	22:COM9	18:COM5	30:COM1	22:COM9
	972	-ve	36.966	0.213	0.096	0.117	0.097	2.220
			16:COM3	28:COM1	28:COM1	24:COM1	16:COM3	20:COM7
			-35.195	-2.518	-0.057	-0.325	-0.017	-0.844
			26:COM1	22:COM9	22:COM9	18:COM5	26:COM1	30:COM1
1703	972	+ve	43.871	1.570	0.817	1.301	0.473	0.759
			16:COM3	28:COM1	16:COM3	28:COM1	24:COM1	28:COM1
			-45.485	-1.631	-0.541	-1.174	-0.644	-1.534
			26:COM1	22:COM9	26:COM1	22:COM9	18:COM5	22:COM9
	973	-ve	43.871	0.541	0.817	1.301	1.025	3.104
			16:COM3	28:COM1	16:COM3	28:COM1	20:COM7	20:COM7
			-45.485	-3.003	-0.541	-1.174	-0.648	-1.378
			26:COM1	22:COM9	26:COM1	22:COM9	30:COM1	30:COM1
1704	973	+ve	48.924	1.339	2.523	4.458	1.549	1.229
			24:COM1	28:COM1	16:COM3	20:COM7	24:COM1	24:COM1
			-55.969	-1.128	-1.845	-3.620	-2.099	-1.090
			18:COM5	22:COM9	26:COM1	30:COM1	18:COM5	18:COM5
	974	-ve	48.924	0.310	2.523	4.458	2.903	3.760
			24:COM1	28:COM1	16:COM3	20:COM7	16:COM3	20:COM7
			-55.969	-2.500	-1.845	-3.620	-2.110	-1.659
			18:COM5	22:COM9	26:COM1	30:COM1	26:COM1	30:COM1
1705	974	+ve	54.007	1.777	3.356	15.939	2.808	2.407
			24:COM1	28:COM1	24:COM1	20:COM7	16:COM3	24:COM1
			-64.507	-2.346	-3.626	-11.295	-2.757	-2.469
			18:COM5	22:COM9	18:COM5	30:COM1	26:COM1	18:COM5
	191	-ve	54.007	0.748	3.356	15.939	3.994	5.779
			24:COM1	28:COM1	24:COM1	20:COM7	24:COM1	20:COM7
			-64.507	-3.718	-3.626	-11.295	-4.479	-2.331
			18:COM5	22:COM9	18:COM5	30:COM1	18:COM5	30:COM1

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
1710	987	+ve	14.708	18.764	1.749	1.810	2.204	14.503
			24:COM1	16:COM3	24:COM1	28:COM1	16:COM3	16:COM3
			-54.979	-14.988	-5.379	-2.604	-0.906	-10.825
			18:COM5	26:COM1	18:COM5	22:COM9	26:COM1	26:COM1
	162	-ve	14.708	17.320	1.749	1.810	1.348	9.211
			24:COM1	16:COM3	24:COM1	28:COM1	24:COM1	16:COM3
			-54.979	-16.071	-5.379	-2.604	-4.710	-8.760
			18:COM5	26:COM1	18:COM5	22:COM9	18:COM5	26:COM1
1711	988	+ve	224.463	20.052	2.504	7.663	0.230	38.247
			16:COM3	24:COM1	16:COM3	28:COM1	24:COM1	24:COM1
			-208.849	-58.082	-0.923	-8.964	-1.631	-37.062
			26:COM1	18:COM5	26:COM1	22:COM9	18:COM5	18:COM5
	5373	-ve	224.463	19.293	2.504	7.663	0.679	90.451
			16:COM3	24:COM1	16:COM3	28:COM1	16:COM3	16:COM3
			-208.849	-59.094	-0.923	-8.964	-0.658	-54.244
			26:COM1	18:COM5	26:COM1	22:COM9	26:COM1	26:COM1
1712	989	+ve	131.514	26.312	3.230	2.896	3.589	13.348
			24:COM1	24:COM1	20:COM7	20:COM7	28:COM1	24:COM1
			-135.138	-34.186	-2.429	-1.582	-3.955	-31.778
			18:COM5	18:COM5	30:COM1	30:COM1	22:COM9	18:COM5
	988	-ve	131.514	24.646	3.230	2.896	2.845	38.527
			24:COM1	24:COM1	20:COM7	20:COM7	20:COM7	24:COM1
			-135.138	-36.407	-2.429	-1.582	-1.628	-37.568
			18:COM5	18:COM5	30:COM1	30:COM1	30:COM1	18:COM5
1713	990	+ve	51.054	6.511	1.788	1.395	2.559	3.489
			24:COM1	24:COM1	24:COM1	24:COM1	16:COM3	24:COM1
			-86.624	-6.721	-1.791	-2.780	-2.689	-7.762
			18:COM5	18:COM5	18:COM5	18:COM5	26:COM1	18:COM5
	163	-ve	51.054	4.793	1.788	1.395	1.117	8.266
			24:COM1	24:COM1	24:COM1	24:COM1	24:COM1	16:COM3
			-86.624	-9.012	-1.791	-2.780	-1.255	-8.028
			18:COM5	18:COM5	18:COM5	18:COM5	18:COM5	26:COM1
1714	991	+ve	0.000	1.351	1.169	1.391	1.097	1.476
			-	16:COM3	20:COM7	24:COM1	20:COM7	16:COM3
			-33.610	-0.523	-1.102	-1.618	-0.928	-1.084
			22:COM9	26:COM1	30:COM1	18:COM5	30:COM1	26:COM1
	990	-ve	0.000	0.000	1.169	1.391	1.942	2.383
			-	-	20:COM7	24:COM1	16:COM3	20:COM7
			-33.610	-2.675	-1.102	-1.618	-1.641	0.000
			22:COM9	18:COM5	30:COM1	18:COM5	26:COM1	-
1715	992	+ve	37.602	10.271	0.890	1.598	1.938	0.000
			20:COM7	28:COM1	24:COM1	16:COM3	16:COM3	-
			-15.754	-16.673	-1.222	-1.099	-1.445	-9.109
			30:COM1	22:COM9	18:COM5	26:COM1	26:COM1	18:COM5
	174	-ve	37.602	6.555	0.890	1.598	1.429	56.294
			20:COM7	28:COM1	24:COM1	16:COM3	24:COM1	20:COM7
			-15.754	-23.566	-1.222	-1.099	-2.008	-29.816
			30:COM1	22:COM9	18:COM5	26:COM1	18:COM5	30:COM1

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
1716	997	+ve	37.727	7.924	1.571	9.750	5.078	10.541
			16:COM3	24:COM11	24:COM11	20:COM7	16:COM3	24:COM1
			-35.952	-28.187	-5.155	-8.386	-1.492	-21.574
			26:COM1	18:COM5	18:COM5	30:COM1	26:COM1	18:COM5
	166	-ve	37.727	6.096	1.571	9.750	2.670	68.706
			16:COM3	24:COM11	24:COM11	20:COM7	28:COM1	16:COM3
			-35.952	-30.624	-5.155	-8.386	-6.852	-31.193
			26:COM1	18:COM5	18:COM5	30:COM1	22:COM9	26:COM1
1717	998	+ve	41.291	13.633	2.226	2.977	5.228	9.755
			16:COM3	24:COM11	24:COM11	20:COM7	16:COM3	24:COM1
			-41.048	-12.612	-2.925	-1.784	-3.704	-23.140
			26:COM1	18:COM5	18:COM5	30:COM1	26:COM1	18:COM5
	997	-ve	41.291	11.805	2.226	2.977	2.611	10.833
			16:COM3	24:COM11	24:COM11	20:COM7	28:COM1	24:COM1
			-41.048	-15.050	-2.925	-1.784	-2.602	-21.808
			26:COM1	18:COM5	18:COM5	30:COM1	22:COM9	18:COM5
1719	1004	+ve	70.943	12.167	1.217	8.210	1.966	16.428
			24:COM1	24:COM11	28:COM1	20:COM7	20:COM7	16:COM3
			-107.309	-11.537	-1.845	-4.170	-1.247	-12.731
			18:COM5	18:COM5	22:COM9	30:COM1	30:COM1	26:COM1
	5464	-ve	70.943	11.121	1.217	8.210	1.929	12.214
			24:COM1	24:COM11	28:COM1	20:COM7	24:COM11	16:COM3
			-107.309	-12.933	-1.845	-4.170	-2.476	-7.325
			18:COM5	18:COM5	22:COM9	30:COM1	18:COM5	26:COM1
1721	1006	+ve	60.002	34.941	9.426	3.678	6.156	2.836
			16:COM3	24:COM11	16:COM3	20:COM7	24:COM11	24:COM1
			-42.565	-45.912	-8.168	-1.351	-7.782	-12.211
			26:COM1	18:COM5	26:COM1	30:COM1	18:COM5	18:COM5
	5478	-ve	60.002	33.240	9.426	3.678	11.244	82.894
			16:COM3	24:COM11	16:COM3	20:COM7	16:COM3	16:COM3
			-42.565	-48.179	-8.168	-1.351	-10.332	-66.145
			26:COM1	18:COM5	26:COM1	30:COM1	26:COM1	26:COM1
1728	1015	+ve	40.108	22.282	1.775	8.789	2.922	15.898
			16:COM3	16:COM3	28:COM1	20:COM7	20:COM7	28:COM1
			-30.014	-2.548	-2.685	0.000	-1.868	-23.721
			26:COM1	26:COM1	22:COM9	-	30:COM1	22:COM9
	1016	-ve	40.108	20.173	1.775	8.789	1.473	0.000
			16:COM3	16:COM3	28:COM1	20:COM7	28:COM1	-
			-30.014	-4.129	-2.685	0.000	-2.126	-34.897
			26:COM1	26:COM1	22:COM9	-	22:COM9	35:CVOL
1729	1016	+ve	36.731	6.147	2.445	2.554	2.040	0.000
			16:COM3	28:COM1	20:COM7	16:COM3	28:COM1	-
			-29.444	-16.153	-2.465	0.000	-1.943	-34.612
			26:COM1	22:COM9	30:COM1	-	22:COM9	35:CVOL
	1017	-ve	36.731	4.565	2.445	2.554	2.651	9.470
			16:COM3	28:COM1	20:COM7	16:COM3	20:COM7	24:COM1
			-29.444	-18.262	-2.465	0.000	-2.591	-28.289
			26:COM1	22:COM9	30:COM1	-	30:COM1	18:COM5

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
1730	1017	+ve	31.188	0.000	5.183	0.231	3.879	9.640
			20:COM7	-	20:COM7	28:COM15	28:COM15	24:COM17
			-25.333	-39.647	-4.973	-15.375	-4.053	-27.659
			30:COM17	18:COM5	30:COM17	22:COM9	22:COM9	18:COM5
	150	-ve	31.188	0.000	5.183	0.231	5.673	79.490
			20:COM7	-	20:COM7	28:COM15	20:COM7	16:COM3
			-25.333	-41.756	-4.973	-15.375	-5.452	-10.967
			30:COM17	18:COM5	30:COM17	22:COM9	30:COM17	26:COM13
1731	1021	+ve	32.243	3.620	0.946	1.679	1.173	3.369
			24:COM17	20:COM7	16:COM3	28:COM15	16:COM3	20:COM7
			-36.504	-1.202	-1.007	-1.974	-1.022	-1.532
			18:COM5	30:COM17	26:COM13	22:COM9	26:COM13	30:COM17
	1022	-ve	32.243	2.307	0.946	1.679	0.789	1.727
			24:COM17	20:COM7	16:COM3	28:COM15	16:COM3	28:COM15
			-36.504	-2.187	-1.007	-1.974	-0.754	-2.300
			18:COM5	30:COM17	26:COM13	22:COM9	26:COM13	22:COM9
1732	1022	+ve	39.263	4.081	0.528	0.636	0.502	4.101
			24:COM17	20:COM7	28:COM15	28:COM15	20:COM7	20:COM7
			-42.029	-1.273	-0.609	-1.239	-0.364	-1.990
			18:COM5	30:COM17	22:COM9	22:COM9	30:COM17	30:COM17
	1023	-ve	39.263	2.767	0.528	0.636	0.638	1.407
			24:COM17	20:COM7	28:COM15	28:COM15	28:COM15	28:COM15
			-42.029	-2.258	-0.609	-1.239	-0.654	-2.444
			18:COM5	30:COM17	22:COM9	22:COM9	22:COM9	22:COM9
1733	1023	+ve	48.920	8.958	0.913	1.828	0.752	6.238
			20:COM7	20:COM7	28:COM15	20:COM7	20:COM7	20:COM7
			-47.730	-5.229	-0.958	-1.118	-0.682	-4.119
			30:COM17	30:COM17	22:COM9	30:COM17	30:COM17	30:COM17
	195	-ve	48.920	7.647	0.913	1.828	1.048	6.777
			20:COM7	20:COM7	28:COM15	20:COM7	28:COM15	28:COM15
			-47.730	-6.212	-0.958	-1.118	-1.064	-9.551
			30:COM17	30:COM17	22:COM9	30:COM17	22:COM9	22:COM9
1735	5990	+ve	29.023	47.595	15.201	7.337	9.496	15.468
			20:COM7	34:CVOL3	28:COM15	20:COM7	20:COM7	16:COM3
			-15.999	0.000	-15.987	-1.681	-8.602	-1.296
			30:COM17	-	22:COM9	30:COM17	30:COM17	26:COM13
	6005	-ve	29.023	46.671	15.201	7.337	3.001	0.000
			20:COM7	34:CVOL3	28:COM15	20:COM7	28:COM15	-
			-15.999	0.000	-15.987	-1.681	-2.707	-25.467
			30:COM17	-	22:COM9	30:COM17	22:COM9	18:COM5
1736	5991	+ve	27.021	19.848	14.234	10.205	6.974	0.000
			20:COM7	34:CVOL3	28:COM15	34:CVOL3	20:COM7	-
			-16.436	0.000	-12.752	0.000	-7.068	-64.067
			30:COM17	-	22:COM9	-	30:COM17	35:CVOL4
	6006	-ve	27.021	19.268	14.234	10.205	0.916	0.000
			20:COM7	34:CVOL3	28:COM15	34:CVOL3	20:COM7	-
			-16.436	0.000	-12.752	0.000	-0.301	-73.403
			30:COM17	-	22:COM9	-	30:COM17	35:CVOL4

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
1737	5992	+ve	17.177	0.000	1.337	0.000	2.081	0.000
			20:COM7	-	28:COM15	-	20:COM7	-
			-6.999	-22.760	-1.399	-6.888	-1.997	-75.464
			30:COM17	35:CVOL4	22:COM9	35:CVOL4	30:COM17	35:CVOL4
	5994	-ve	17.177	0.000	1.337	0.000	0.907	0.000
			20:COM7	-	28:COM15	-	28:COM15	-
			-6.999	-25.378	-1.399	-6.888	-0.957	-24.512
			30:COM17	35:CVOL4	22:COM9	35:CVOL4	22:COM9	18:COM5
1738	1028	+ve	62.217	20.121	1.338	0.000	2.535	10.417
			20:COM7	16:COM3	28:COM15	-	20:COM7	24:COM11
			-56.143	-0.969	-2.307	-7.454	-1.756	-26.987
			30:COM17	26:COM13	22:COM9	35:CVOL4	30:COM17	18:COM5
	1029	-ve	62.217	17.998	1.338	0.000	0.789	0.000
			20:COM7	16:COM3	28:COM15	-	28:COM15	-
			-56.143	-2.561	-2.307	-7.454	-1.839	-41.368
			30:COM17	26:COM13	22:COM9	35:CVOL4	22:COM9	35:CVOL4
1739	1029	+ve	61.872	3.407	0.578	0.000	2.290	0.000
			20:COM7	24:COM11	28:COM15	-	20:COM7	-
			-59.385	-16.703	-2.674	-11.472	-0.516	-42.630
			30:COM17	18:COM5	22:COM9	35:CVOL4	30:COM17	35:CVOL4
	1030	-ve	61.872	1.815	0.578	0.000	0.602	5.325
			20:COM7	24:COM11	28:COM15	-	28:COM15	24:COM11
			-59.385	-18.825	-2.674	-11.472	-2.783	-27.641
			30:COM17	18:COM5	22:COM9	35:CVOL4	22:COM9	18:COM5
1740	1030	+ve	58.446	0.000	0.000	3.563	3.727	6.830
			28:COM15	-	-	16:COM3	16:COM3	24:COM11
			-58.983	-24.993	-2.727	-3.011	-0.259	-25.570
			22:COM9	18:COM5	22:COM9	26:COM13	26:COM13	18:COM5
	1031	-ve	58.446	0.000	0.000	3.563	0.000	49.245
			28:COM15	-	-	16:COM3	-	16:COM3
			-58.983	-27.115	-2.727	-3.011	-2.333	-13.368
			22:COM9	18:COM5	22:COM9	26:COM13	18:COM5	26:COM13
1741	1031	+ve	65.543	0.000	12.108	17.921	3.163	53.231
			20:COM7	-	24:COM11	16:COM3	16:COM3	16:COM3
			-58.900	-37.620	-14.990	-1.481	-2.366	-12.678
			30:COM17	35:CVOL4	18:COM5	26:COM13	26:COM13	26:COM13
	208	-ve	65.543	0.000	12.108	17.921	3.962	72.671
			20:COM7	-	24:COM11	16:COM3	24:COM11	16:COM3
			-58.900	-38.071	-14.990	-1.481	-4.668	-8.711
			30:COM17	35:CVOL4	18:COM5	26:COM13	18:COM5	26:COM13
1742	1032	+ve	49.394	12.561	2.663	7.240	2.303	8.317
			20:COM7	20:COM7	20:COM7	16:COM3	28:COM15	16:COM3
			-47.693	-0.573	-2.402	0.000	-2.484	-7.705
			30:COM17	30:COM17	30:COM17	-	22:COM9	26:COM13
	1033	-ve	49.394	10.991	2.663	7.240	2.359	0.000
			20:COM7	20:COM7	20:COM7	16:COM3	20:COM7	-
			-47.693	-1.750	-2.402	0.000	-2.066	-16.920
			30:COM17	30:COM17	30:COM17	-	30:COM17	18:COM5

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
1743	1033	+ve	53.573	3.906	3.536	3.109	2.934	0.000
			20:COM7	16:COM3	20:COM7	16:COM3	28:COM15	-
			-51.580	-1.435	-3.421	-0.534	-3.013	-16.898
			30:COM17	26:COM13	30:COM17	26:COM13	22:COM9	18:COM5
	1034	-ve	53.573	2.336	3.536	3.109	3.407	0.000
			20:COM7	16:COM3	20:COM7	16:COM3	20:COM7	-
			-51.580	-2.613	-3.421	-0.534	-3.277	-19.173
			30:COM17	26:COM13	30:COM17	26:COM13	30:COM17	22:COM9
1744	1034	+ve	52.919	0.847	6.076	0.000	4.647	0.000
			20:COM7	24:COM11	20:COM7	-	28:COM15	-
			-51.195	-8.644	-5.310	-5.426	-5.011	-19.445
			30:COM17	18:COM5	30:COM17	22:COM9	22:COM9	22:COM9
	1035	-ve	52.919	0.000	6.076	0.000	6.035	5.943
			20:COM7	-	20:COM7	-	20:COM7	28:COM15
			-51.195	-10.214	-5.310	-5.426	-5.008	-10.600
			30:COM17	18:COM5	30:COM17	22:COM9	30:COM17	22:COM9
1745	1035	+ve	58.113	0.000	7.954	0.384	6.781	5.577
			20:COM7	-	20:COM7	24:COM11	28:COM15	28:COM15
			-54.860	-21.125	-7.359	-15.285	-7.586	-11.215
			30:COM17	18:COM5	30:COM17	18:COM5	22:COM9	22:COM9
	152	-ve	58.113	0.000	7.954	0.384	7.865	44.638
			20:COM7	-	20:COM7	24:COM11	20:COM7	16:COM3
			-54.860	-22.805	-7.359	-15.285	-7.516	-4.575
			30:COM17	18:COM5	30:COM17	18:COM5	30:COM17	26:COM13
1746	1036	+ve	59.561	0.788	0.818	1.088	0.837	0.362
			20:COM7	24:COM11	20:COM7	20:COM7	28:COM15	28:COM15
			-56.763	-0.927	-0.739	-0.111	-0.884	-1.133
			30:COM17	18:COM5	30:COM17	30:COM17	22:COM9	22:COM9
	1037	-ve	59.561	0.000	0.818	1.088	0.613	2.044
			20:COM7	-	20:COM7	20:COM7	20:COM7	16:COM3
			-56.763	-2.188	-0.739	-0.111	-0.516	-0.552
			30:COM17	18:COM5	30:COM17	30:COM17	30:COM17	26:COM13
1747	1037	+ve	64.316	0.697	0.729	0.652	0.715	0.260
			20:COM7	24:COM11	20:COM7	16:COM3	28:COM15	28:COM15
			-60.561	-0.520	-0.726	-0.518	-0.681	-0.970
			30:COM17	18:COM5	30:COM17	26:COM13	22:COM9	22:COM9
	1038	-ve	64.316	0.000	0.729	0.652	0.654	1.417
			20:COM7	-	20:COM7	16:COM3	20:COM7	16:COM3
			-60.561	-1.781	-0.726	-0.518	-0.614	-0.438
			30:COM17	18:COM5	30:COM17	26:COM13	30:COM17	26:COM13
1748	1038	+ve	69.380	1.169	1.203	0.361	1.130	0.964
			20:COM7	20:COM7	28:COM15	24:COM11	20:COM7	28:COM15
			-65.912	0.000	-1.249	-1.312	-1.021	-0.916
			30:COM17	-	22:COM9	18:COM5	30:COM17	22:COM9
	1039	-ve	69.380	0.089	1.203	0.361	1.186	0.195
			20:COM7	28:COM15	28:COM15	24:COM11	28:COM15	24:COM11
			-65.912	-1.050	-1.249	-1.312	-1.163	-0.406
			30:COM17	22:COM9	22:COM9	18:COM5	22:COM9	18:COM5

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
1749	1039	+ve	77.255	2.209	0.982	0.957	1.396	2.426
			20:COM7	20:COM7	28:COM15	28:COM15	20:COM7	20:COM7
			-73.451	0.000	-1.080	-1.289	-1.367	-0.819
			30:COM17	-	22:COM9	22:COM9	30:COM17	30:COM17
	1131	-ve	77.255	0.536	0.982	0.957	1.055	2.763
			20:COM7	20:COM7	28:COM15	28:COM15	28:COM15	28:COM15
			-73.451	-1.070	-1.080	-1.289	-1.261	-3.404
			30:COM17	30:COM17	22:COM9	22:COM9	22:COM9	22:COM9
1750	1040	+ve	46.601	35.944	9.289	0.000	6.933	24.447
			16:COM3	35:CVOL4	20:COM7	-	28:COM15	20:COM7
			-32.307	0.000	-8.498	-25.649	-8.212	-6.896
			26:COM13	-	30:COM17	18:COM5	22:COM9	30:COM17
	960	-ve	46.601	34.699	9.289	0.000	5.162	0.000
			16:COM3	35:CVOL4	20:COM7	-	20:COM7	-
			-32.307	0.000	-8.498	-25.649	-5.301	-37.385
			26:COM13	-	30:COM17	18:COM5	30:COM17	22:COM9
1754	1044	+ve	62.433	2.035	0.701	2.204	0.556	1.633
			28:COM15	16:COM3	16:COM3	20:COM7	24:COM11	16:COM3
			-67.162	-0.798	-0.579	-1.148	-0.648	-1.059
			22:COM9	26:COM13	26:COM13	30:COM17	18:COM5	26:COM13
	1045	-ve	62.433	0.852	0.701	2.204	0.736	1.845
			28:COM15	24:COM11	16:COM3	20:COM7	16:COM3	16:COM3
			-67.162	-1.986	-0.579	-1.148	-0.588	-1.373
			22:COM9	18:COM5	26:COM13	30:COM17	26:COM13	26:COM13
1755	1045	+ve	52.777	5.327	1.146	8.922	1.188	3.482
			28:COM15	16:COM3	28:COM15	20:COM7	16:COM3	16:COM3
			-60.665	-3.856	-1.765	-4.319	-0.871	-2.726
			22:COM9	26:COM13	22:COM9	30:COM17	26:COM13	26:COM13
	188	-ve	52.777	4.166	1.146	8.922	1.595	5.820
			28:COM15	24:COM11	28:COM15	20:COM7	28:COM15	16:COM3
			-60.665	-5.015	-1.765	-4.319	-2.465	-5.660
			22:COM9	18:COM5	22:COM9	30:COM17	22:COM9	26:COM13
1756	1048	+ve	36.490	0.567	2.301	3.265	1.171	2.481
			20:COM7	24:COM11	20:COM7	16:COM3	28:COM15	28:COM15
			-38.714	-9.404	-1.333	-1.987	-2.480	-14.752
			30:COM17	18:COM5	30:COM17	26:COM13	22:COM9	22:COM9
	208	-ve	36.490	0.000	2.301	3.265	3.613	30.594
			20:COM7	-	20:COM7	16:COM3	20:COM7	16:COM3
			-38.714	-15.052	-1.333	-1.987	-2.359	-7.976
			30:COM17	18:COM5	30:COM17	26:COM13	30:COM17	26:COM13
1757	1049	+ve	61.542	8.912	1.799	0.919	1.783	1.343
			20:COM7	16:COM3	16:COM3	24:COM17	24:COM11	24:COM17
			-53.117	-1.930	-1.444	-1.573	-2.357	-8.167
			30:COM17	26:COM13	26:COM13	18:COM5	18:COM5	18:COM5
	1048	-ve	61.542	3.899	1.799	0.919	2.431	4.226
			20:COM7	24:COM11	16:COM3	24:COM17	16:COM3	28:COM15
			-53.117	-5.611	-1.444	-1.573	-2.067	-18.024
			30:COM17	18:COM5	26:COM13	18:COM5	26:COM13	22:COM9

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
1758	1050	+ve	73.085	0.853	0.897	1.152	0.537	2.459
			28:COM15	28:COM15	20:COM7	20:COM7	28:COM15	28:COM15
			-73.334	-0.366	-0.547	-0.258	-0.831	-2.675
			22:COM9	22:COM9	30:COM17	30:COM17	22:COM9	22:COM9
	1044	-ve	73.085	0.000	0.897	1.152	0.932	2.483
			28:COM15	-	20:COM7	20:COM7	20:COM7	20:COM7
			-73.334	-1.721	-0.547	-0.258	-0.541	-1.330
			22:COM9	22:COM9	30:COM17	30:COM17	30:COM17	30:COM17
1759	1089	+ve	0.320	6.006	0.025	0.000	0.063	4.698
			24:COM17	20:COM7	24:COM11	-	16:COM3	20:COM7
			-4.505	0.000	-0.028	-0.658	-0.052	-6.380
			18:COM5	-	18:COM5	22:COM9	26:COM13	30:COM17
	823	-ve	0.320	0.000	0.025	0.000	0.076	9.274
			24:COM17	-	24:COM11	-	24:COM11	20:COM7
			-4.505	-9.284	-0.028	-0.658	-0.078	0.000
			18:COM5	35:CVOL4	18:COM5	22:COM9	18:COM5	-
1760	1088	+ve	2.087	7.756	0.040	0.000	0.106	4.362
			20:COM7	34:CVOL3	24:COM11	-	16:COM3	20:COM7
			-1.848	0.000	-0.043	-0.603	-0.096	-0.943
			30:COM17	-	18:COM5	22:COM9	26:COM13	30:COM17
	824	-ve	2.087	0.000	0.040	0.000	0.106	1.891
			20:COM7	-	24:COM11	-	24:COM11	35:CVOL4
			-1.848	-7.278	-0.043	-0.603	-0.110	0.000
			30:COM17	35:CVOL4	18:COM5	22:COM9	18:COM5	-
1761	1087	+ve	3.374	9.319	0.044	0.000	0.111	6.307
			20:COM7	34:CVOL3	24:COM11	-	16:COM3	34:CVOL3
			-1.593	0.000	-0.045	-0.260	-0.108	0.000
			30:COM17	-	18:COM5	22:COM9	26:COM13	-
	825	-ve	3.374	0.000	0.044	0.000	0.115	0.074
			20:COM7	-	24:COM11	-	24:COM11	28:COM15
			-1.593	-5.715	-0.045	-0.260	-0.116	-4.236
			30:COM17	35:CVOL4	18:COM5	22:COM9	18:COM5	22:COM9
1762	1086	+ve	3.218	9.187	0.045	0.216	0.106	6.334
			20:COM7	34:CVOL3	16:COM3	16:COM3	24:COM11	34:CVOL3
			-1.673	0.000	-0.043	0.000	-0.112	0.000
			30:COM17	-	26:COM13	-	18:COM5	-
	826	-ve	3.218	0.000	0.045	0.216	0.117	0.346
			20:COM7	-	16:COM3	16:COM3	16:COM3	28:COM15
			-1.673	-5.849	-0.043	0.000	-0.111	-3.628
			30:COM17	35:CVOL4	26:COM13	-	26:COM13	22:COM9
1763	1085	+ve	2.347	7.293	0.044	0.609	0.097	4.228
			16:COM3	34:CVOL3	16:COM3	20:COM7	24:COM11	20:COM7
			-2.940	0.000	-0.040	0.000	-0.109	-1.184
			26:COM13	-	26:COM13	-	18:COM5	30:COM17
	827	-ve	2.347	0.000	0.044	0.609	0.115	3.958
			16:COM3	-	16:COM3	20:COM7	16:COM3	35:CVOL4
			-2.940	-7.743	-0.040	0.000	-0.105	0.000
			26:COM13	35:CVOL4	26:COM13	-	26:COM13	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
1764	1084	+ve	1.036	5.385	0.032	0.710	0.058	4.041
			24:COM1	20:COM7	16:COM3	20:COM7	24:COM1	28:COM1
			-6.251	-0.050	-0.027	0.000	-0.070	-6.960
			18:COM5	30:COM1	26:COM1	-	18:COM5	22:COM9
	828	-ve	1.036	0.000	0.032	0.710	0.090	11.368
			24:COM1	-	16:COM3	20:COM7	16:COM3	20:COM7
			-6.251	-9.976	-0.027	0.000	-0.079	0.000
			18:COM5	35:CVOL4	26:COM1	-	26:COM1	-
1765	1095	+ve	0.803	6.503	0.029	0.030	0.084	4.663
			24:COM1	20:COM7	24:COM1	28:COM1	16:COM3	20:COM7
			-4.757	0.000	-0.036	-0.469	-0.060	-6.293
			18:COM5	-	18:COM5	22:COM9	26:COM1	30:COM1
	835	-ve	0.803	0.000	0.029	0.030	0.088	6.793
			24:COM1	-	24:COM1	28:COM1	24:COM1	20:COM7
			-4.757	-8.704	-0.036	-0.469	-0.100	-0.376
			18:COM5	35:CVOL4	18:COM5	22:COM9	18:COM5	30:COM1
1766	1094	+ve	2.612	7.480	0.049	0.000	0.130	2.141
			16:COM3	34:CVOL3	24:COM1	-	16:COM3	20:COM7
			-1.863	0.000	-0.054	-0.404	-0.115	-1.882
			26:COM1	-	18:COM5	22:COM9	26:COM1	30:COM1
	836	-ve	2.612	0.000	0.049	0.000	0.131	1.067
			16:COM3	-	24:COM1	-	24:COM1	16:COM3
			-1.863	-7.549	-0.054	-0.404	-0.141	-0.865
			26:COM1	35:CVOL4	18:COM5	22:COM9	18:COM5	26:COM1
1767	1093	+ve	3.239	8.263	0.051	0.015	0.129	2.320
			16:COM3	35:CVOL4	24:COM1	28:COM1	16:COM3	20:COM7
			-1.152	0.000	-0.053	-0.170	-0.123	-0.190
			26:COM1	-	18:COM5	22:COM9	26:COM1	30:COM1
	837	-ve	3.239	0.000	0.051	0.015	0.137	0.960
			16:COM3	-	24:COM1	28:COM1	24:COM1	28:COM1
			-1.152	-6.768	-0.053	-0.170	-0.140	-4.329
			26:COM1	34:CVOL3	18:COM5	22:COM9	18:COM5	22:COM9
1768	1092	+ve	3.789	8.214	0.054	0.175	0.123	2.156
			16:COM3	35:CVOL4	16:COM3	16:COM3	24:COM1	20:COM7
			-1.779	0.000	-0.052	-0.005	-0.129	-0.017
			26:COM1	-	26:COM1	26:COM1	18:COM5	30:COM1
	838	-ve	3.789	0.000	0.054	0.175	0.142	1.284
			16:COM3	-	16:COM3	16:COM3	16:COM3	28:COM1
			-1.779	-6.817	-0.052	-0.005	-0.137	-4.315
			26:COM1	34:CVOL3	26:COM1	26:COM1	26:COM1	22:COM9
1769	1091	+ve	3.720	7.369	0.055	0.409	0.116	2.697
			16:COM3	34:CVOL3	16:COM3	20:COM7	24:COM1	20:COM7
			-3.022	0.000	-0.050	0.000	-0.131	-2.351
			26:COM1	-	26:COM1	-	18:COM5	30:COM1
	839	-ve	3.720	0.000	0.055	0.409	0.146	1.977
			16:COM3	-	16:COM3	20:COM7	16:COM3	20:COM7
			-3.022	-7.662	-0.050	0.000	-0.135	-0.906
			26:COM1	35:CVOL4	26:COM1	-	26:COM1	30:COM1

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
1770	1090	+ve	0.861	6.738	0.032	0.474	0.048	6.094
			24:COM1	20:COM7	16:COM3	20:COM7	24:COM1	20:COM7
			-3.997	0.000	-0.024	-0.058	-0.072	-6.979
			18:COM5	-	26:COM1	30:COM1	18:COM5	30:COM1
	840	-ve	0.861	0.000	0.032	0.474	0.089	6.467
			24:COM1	-	16:COM3	20:COM7	16:COM3	20:COM7
			-3.997	-8.584	-0.024	-0.058	-0.073	-0.032
			18:COM5	22:COM9	26:COM1	30:COM1	26:COM1	30:COM1
1771	873	+ve	2.776	7.267	0.034	0.139	0.062	8.782
			28:COM1	34:CVOL	24:COM1	20:COM7	16:COM3	20:COM7
			-3.677	0.000	-0.034	-0.007	-0.062	0.000
			22:COM9	-	18:COM5	30:COM1	26:COM1	-
	1055	-ve	2.776	0.000	0.034	0.139	0.072	2.145
			28:COM1	-	24:COM1	20:COM7	24:COM1	16:COM3
			-3.677	-4.300	-0.034	-0.007	-0.070	0.000
			22:COM9	35:CVOL4	18:COM5	30:COM1	18:COM5	-
1772	874	+ve	1.420	7.329	0.027	0.104	0.043	8.392
			28:COM1	34:CVOL3	20:COM7	20:COM7	28:COM1	20:COM7
			-1.827	0.000	-0.024	-0.049	-0.048	0.000
			22:COM9	-	30:COM1	30:COM1	22:COM9	-
	1054	-ve	1.420	0.000	0.027	0.104	0.055	1.628
			28:COM1	-	20:COM7	20:COM7	20:COM7	20:COM7
			-1.827	-4.231	-0.024	-0.049	-0.049	0.000
			22:COM9	35:CVOL4	30:COM1	30:COM1	30:COM1	-
1773	875	+ve	1.106	7.500	0.019	0.032	0.030	8.689
			24:COM1	34:CVOL3	20:COM7	16:COM3	28:COM1	20:COM7
			-1.517	0.000	-0.016	-0.050	-0.036	0.000
			18:COM5	-	30:COM1	26:COM1	22:COM9	-
	1053	-ve	1.106	0.000	0.019	0.032	0.039	1.730
			24:COM1	-	20:COM7	16:COM3	20:COM7	20:COM7
			-1.517	-4.054	-0.016	-0.050	-0.034	-0.136
			18:COM5	35:CVOL4	30:COM1	26:COM1	30:COM1	30:COM1
1774	876	+ve	1.271	7.735	0.012	0.010	0.020	9.861
			24:COM1	34:CVOL3	20:COM7	28:COM1	28:COM1	20:COM7
			-1.688	0.000	-0.011	-0.059	-0.023	0.000
			18:COM5	-	30:COM1	22:COM9	22:COM9	-
	1052	-ve	1.271	0.000	0.012	0.010	0.025	1.635
			24:COM1	-	20:COM7	28:COM1	20:COM7	20:COM7
			-1.688	-3.821	-0.011	-0.059	-0.023	-0.165
			18:COM5	35:CVOL4	30:COM1	22:COM9	30:COM1	30:COM1
1775	877	+ve	1.835	8.612	0.017	0.022	0.029	12.651
			24:COM1	34:CVOL3	16:COM3	28:COM1	24:COM1	20:COM7
			-2.919	0.000	-0.018	-0.157	-0.030	0.000
			18:COM5	-	26:COM1	22:COM9	18:COM5	-
	1051	-ve	1.835	0.000	0.017	0.022	0.038	0.962
			24:COM1	-	16:COM3	28:COM1	24:COM1	20:COM7
			-2.919	-3.092	-0.018	-0.157	-0.041	-0.201
			18:COM5	22:COM9	26:COM1	22:COM9	18:COM5	30:COM1

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
1776	853	+ve	0.221	7.694	0.026	0.326	0.035	8.546
			28:COM15	34:CVOL3	16:COM3	34:CVOL3	24:COM11	34:CVOL3
			-1.046	0.000	-0.020	0.000	-0.043	0.000
			22:COM9	-	26:COM13	-	18:COM5	-
	1060	-ve	0.221	0.000	0.026	0.326	0.057	1.255
			28:COM15	-	16:COM3	34:CVOL3	16:COM3	16:COM3
			-1.046	-3.860	-0.020	0.000	-0.043	0.000
			22:COM9	35:CVOL4	26:COM13	-	26:COM13	-
1777	854	+ve	0.096	6.305	0.012	0.233	0.019	6.035
			28:COM15	34:CVOL3	16:COM3	20:COM7	24:COM11	20:COM7
			-0.404	0.000	-0.010	0.000	-0.022	0.000
			22:COM9	-	26:COM13	-	18:COM5	-
	1059	-ve	0.096	0.000	0.012	0.233	0.025	3.340
			28:COM15	-	16:COM3	20:COM7	16:COM3	34:CVOL3
			-0.404	-5.248	-0.010	0.000	-0.021	0.000
			22:COM9	35:CVOL4	26:COM13	-	26:COM13	-
1778	855	+ve	0.207	5.370	0.014	0.027	0.027	3.965
			28:COM15	34:CVOL3	20:COM7	24:COM11	28:COM15	20:COM7
			-0.606	0.000	-0.013	-0.042	-0.028	-0.738
			22:COM9	-	30:COM17	18:COM5	22:COM9	30:COM17
	1058	-ve	0.207	0.000	0.014	0.027	0.027	4.546
			28:COM15	-	20:COM7	24:COM11	16:COM3	34:CVOL3
			-0.606	-6.181	-0.013	-0.042	-0.025	0.000
			22:COM9	35:CVOL4	30:COM17	18:COM5	26:COM13	-
1779	856	+ve	0.215	5.679	0.010	0.000	0.017	4.479
			28:COM15	34:CVOL3	16:COM3	-	24:COM11	20:COM7
			-0.817	0.000	-0.010	-0.243	-0.018	-0.843
			22:COM9	-	26:COM13	34:CVOL3	18:COM5	30:COM17
	1057	-ve	0.215	0.000	0.010	0.000	0.020	3.687
			28:COM15	-	16:COM3	-	24:COM11	34:CVOL3
			-0.817	-5.876	-0.010	-0.243	-0.021	0.000
			22:COM9	35:CVOL4	26:COM13	34:CVOL3	18:COM5	-
1780	857	+ve	0.000	7.978	0.202	0.000	0.362	10.820
			-	34:CVOL3	24:COM11	-	24:COM11	20:COM7
			-3.690	0.000	-0.210	-1.931	-0.380	-1.173
			18:COM5	-	18:COM5	34:CVOL3	18:COM5	30:COM17
	1056	-ve	0.000	0.000	0.202	0.000	0.411	1.300
			-	-	24:COM11	-	24:COM11	16:COM3
			-3.690	-4.919	-0.210	-1.931	-0.460	0.000
			18:COM5	22:COM9	18:COM5	34:CVOL3	18:COM5	-
1781	878	+ve	0.743	9.396	0.188	2.077	0.312	15.193
			24:COM11	34:CVOL3	16:COM3	20:COM7	16:COM3	20:COM7
			-4.802	0.000	-0.168	0.000	-0.314	0.000
			18:COM5	-	26:COM13	-	26:COM13	-
	1065	-ve	0.743	0.333	0.188	2.077	0.418	0.825
			24:COM11	28:COM15	16:COM3	20:COM7	16:COM3	16:COM3
			-4.802	-3.645	-0.168	0.000	-0.343	-0.270
			18:COM5	22:COM9	26:COM13	-	26:COM13	26:COM13

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
1782	879	+ve	0.412	6.025	0.013	0.206	0.021	5.720
			24:COM1	34:CVOL3	16:COM3	20:COM7	24:COM1	20:COM7
			-0.879	0.000	-0.011	0.000	-0.023	-0.165
			18:COM5	-	26:COM1	-	18:COM5	30:COM1
	1064	-ve	0.412	0.000	0.013	0.206	0.026	3.641
			24:COM1	-	16:COM3	20:COM7	16:COM3	34:CVOL3
			-0.879	-5.530	-0.011	0.000	-0.022	0.000
			18:COM5	35:CVOL4	26:COM1	-	26:COM1	-
1783	880	+ve	0.264	5.311	0.013	0.008	0.025	3.825
			28:COM1	34:CVOL3	16:COM3	24:COM1	24:COM1	20:COM7
			-0.586	0.000	-0.013	-0.058	-0.025	-0.866
			22:COM9	-	26:COM1	18:COM5	18:COM5	30:COM1
	1063	-ve	0.264	0.000	0.013	0.008	0.027	4.361
			28:COM1	-	16:COM3	24:COM1	16:COM3	34:CVOL3
			-0.586	-6.243	-0.013	-0.058	-0.027	0.000
			22:COM9	35:CVOL4	26:COM1	18:COM5	26:COM1	-
1784	881	+ve	0.298	5.722	0.017	0.000	0.032	4.445
			28:COM1	34:CVOL3	16:COM3	-	24:COM1	20:COM7
			-0.717	0.000	-0.017	-0.239	-0.032	-0.952
			22:COM9	-	26:COM1	22:COM9	18:COM5	30:COM1
	1062	-ve	0.298	0.000	0.017	0.000	0.033	3.319
			28:COM1	-	16:COM3	-	16:COM3	34:CVOL3
			-0.717	-5.833	-0.017	-0.239	-0.035	0.000
			22:COM9	35:CVOL4	26:COM1	22:COM9	26:COM1	-
1785	882	+ve	0.000	6.659	0.026	0.000	0.047	6.135
			-	34:CVOL3	24:COM1	-	24:COM1	20:COM7
			-1.146	0.000	-0.028	-0.279	-0.047	-0.318
			18:COM5	-	18:COM5	22:COM9	18:COM5	30:COM1
	1061	-ve	0.000	0.000	0.026	0.000	0.056	1.824
			-	-	24:COM1	-	24:COM1	16:COM3
			-1.146	-4.898	-0.028	-0.279	-0.061	0.000
			18:COM5	35:CVOL4	18:COM5	22:COM9	18:COM5	-
1786	883	+ve	1.383	6.845	0.026	0.272	0.042	6.558
			24:COM1	34:CVOL3	16:COM3	20:COM7	24:COM1	20:COM7
			-2.590	0.000	-0.023	0.000	-0.045	-0.073
			18:COM5	-	26:COM1	-	18:COM5	30:COM1
	1070	-ve	1.383	0.000	0.026	0.272	0.058	1.623
			24:COM1	-	16:COM3	20:COM7	16:COM3	34:CVOL3
			-2.590	-4.711	-0.023	0.000	-0.048	0.000
			18:COM5	35:CVOL4	26:COM1	-	26:COM1	-
1787	884	+ve	0.657	5.844	0.017	0.207	0.031	4.638
			24:COM1	34:CVOL3	24:COM1	20:COM7	16:COM3	20:COM7
			-0.838	0.000	-0.017	0.000	-0.031	-0.958
			18:COM5	-	18:COM5	-	26:COM1	30:COM1
	1069	-ve	0.657	0.000	0.017	0.207	0.034	2.974
			24:COM1	-	24:COM1	20:COM7	24:COM1	20:COM7
			-0.838	-5.710	-0.017	0.000	-0.033	0.000
			18:COM5	35:CVOL4	18:COM5	-	18:COM5	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
1788	885	+ve	0.235	5.198	0.018	0.032	0.032	3.483
			24:COM1	34:CVOL3	16:COM3	16:COM3	24:COM11	20:COM7
			-0.203	0.000	-0.017	-0.022	-0.033	-1.627
			18:COM5	-	26:COM13	26:COM13	18:COM5	30:COM17
	1068	-ve	0.235	0.000	0.018	0.032	0.036	3.927
			24:COM1	-	16:COM3	16:COM3	24:COM11	20:COM7
			-0.203	-6.355	-0.017	-0.022	-0.035	0.000
			18:COM5	35:CVOL4	26:COM13	26:COM13	18:COM5	-
1789	886	+ve	1.140	5.590	0.026	0.014	0.045	5.026
			16:COM3	34:CVOL3	16:COM3	28:COM15	24:COM11	20:COM7
			-0.778	0.000	-0.023	-0.210	-0.051	-2.179
			26:COM13	-	26:COM13	22:COM9	18:COM5	30:COM17
	1067	-ve	1.140	0.000	0.026	0.014	0.050	3.208
			16:COM3	-	16:COM3	28:COM15	16:COM3	34:CVOL3
			-0.778	-5.972	-0.023	-0.210	-0.046	0.000
			26:COM13	35:CVOL4	26:COM13	22:COM9	26:COM13	-
1790	887	+ve	2.633	6.553	0.025	0.008	0.036	7.923
			28:COM15	34:CVOL3	16:COM3	28:COM15	24:COM11	20:COM7
			-3.224	0.000	-0.022	-0.279	-0.042	-2.263
			22:COM9	-	26:COM13	22:COM9	18:COM5	30:COM17
	1066	-ve	2.633	0.000	0.025	0.008	0.053	2.352
			28:COM15	-	16:COM3	28:COM15	16:COM3	20:COM7
			-3.224	-5.214	-0.022	-0.279	-0.049	0.000
			22:COM9	22:COM9	26:COM13	22:COM9	26:COM13	-
1811	913	+ve	3.861	23.040	0.180	0.257	0.278	32.573
			20:COM7	20:COM7	24:COM11	28:COM15	16:COM3	20:COM7
			-2.948	-7.228	-0.202	-0.637	-0.244	-9.760
			30:COM17	30:COM17	18:COM5	22:COM9	26:COM13	30:COM17
	1089	-ve	3.861	16.877	0.180	0.257	0.222	12.462
			20:COM7	20:COM7	24:COM11	28:COM15	24:COM11	28:COM15
			-2.948	-9.904	-0.202	-0.637	-0.245	-19.200
			30:COM17	30:COM17	18:COM5	22:COM9	18:COM5	22:COM9
1812	914	+ve	4.299	15.584	0.236	0.156	0.328	27.637
			20:COM7	20:COM7	24:COM11	28:COM15	16:COM3	20:COM7
			-1.618	0.000	-0.247	-0.553	-0.310	0.000
			30:COM17	-	18:COM5	22:COM9	26:COM13	-
	1088	-ve	4.299	9.422	0.236	0.156	0.303	2.342
			20:COM7	20:COM7	24:COM11	28:COM15	24:COM11	24:COM17
			-1.618	-1.540	-0.247	-0.553	-0.314	-4.909
			30:COM17	30:COM17	18:COM5	22:COM9	18:COM5	18:COM5
1813	915	+ve	4.672	15.132	0.251	0.079	0.325	27.856
			20:COM7	35:CVOL4	16:COM3	24:COM17	24:COM11	34:CVOL3
			-0.784	0.000	-0.248	-0.250	-0.329	0.000
			30:COM17	-	26:COM13	18:COM5	18:COM5	-
	1087	-ve	4.672	7.414	0.251	0.079	0.323	1.556
			20:COM7	35:CVOL4	16:COM3	24:COM17	16:COM3	28:COM15
			-0.784	0.000	-0.248	-0.250	-0.318	-3.007
			30:COM17	-	26:COM13	18:COM5	26:COM13	22:COM9

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
1814	916	+ve	4.577	15.196	0.256	0.213	0.315	27.983
			20:COM7	34:CVOL3	16:COM3	20:COM7	24:COM11	34:CVOL3
			-0.763	0.000	-0.241	-0.076	-0.337	0.000
			30:COM17	-	26:COM13	30:COM17	18:COM5	-
	1086	-ve	4.577	7.478	0.256	0.213	0.328	1.514
			20:COM7	34:CVOL3	16:COM3	20:COM7	16:COM3	28:COM15
			-0.763	0.000	-0.241	-0.076	-0.310	-3.029
			30:COM17	-	26:COM13	30:COM17	26:COM13	22:COM9
1815	917	+ve	3.996	16.160	0.256	0.512	0.295	28.367
			20:COM7	20:COM7	16:COM3	20:COM7	24:COM11	20:COM7
			-1.420	0.000	-0.226	-0.163	-0.339	0.000
			30:COM17	-	26:COM13	30:COM17	18:COM5	-
	1085	-ve	3.996	9.999	0.256	0.512	0.324	2.294
			20:COM7	20:COM7	16:COM3	20:COM7	16:COM3	28:COM15
			-1.420	-1.469	-0.226	-0.163	-0.290	-5.600
			30:COM17	30:COM17	26:COM13	30:COM17	26:COM13	22:COM9
1816	918	+ve	3.347	24.153	0.208	0.587	0.234	33.953
			20:COM7	20:COM7	16:COM3	20:COM7	24:COM11	20:COM7
			-2.166	-6.365	-0.173	-0.258	-0.287	-8.639
			30:COM17	30:COM17	26:COM13	30:COM17	18:COM5	30:COM17
	1084	-ve	3.347	17.991	0.208	0.587	0.252	11.345
			20:COM7	20:COM7	16:COM3	20:COM7	16:COM3	28:COM15
			-2.166	-9.041	-0.173	-0.258	-0.216	-20.709
			30:COM17	30:COM17	26:COM13	30:COM17	26:COM13	22:COM9
1817	919	+ve	3.081	23.933	0.182	0.291	0.317	33.356
			16:COM3	20:COM7	24:COM11	28:COM15	16:COM3	20:COM7
			-2.186	-6.125	-0.232	-0.541	-0.247	-8.481
			26:COM13	30:COM17	18:COM5	22:COM9	26:COM13	30:COM17
	1095	-ve	3.081	17.771	0.182	0.291	0.225	10.879
			16:COM3	20:COM7	24:COM11	28:COM15	24:COM11	28:COM15
			-2.186	-8.801	-0.232	-0.541	-0.286	-20.732
			26:COM13	30:COM17	18:COM5	22:COM9	18:COM5	22:COM9
1818	920	+ve	4.158	15.462	0.275	0.112	0.373	26.220
			20:COM7	34:CVOL3	24:COM11	24:COM17	16:COM3	35:CVOL4
			-0.163	0.000	-0.283	-0.204	-0.361	0.000
			30:COM17	-	18:COM5	18:COM5	26:COM13	-
	1093	-ve	4.158	7.744	0.275	0.112	0.353	0.903
			20:COM7	34:CVOL3	24:COM11	24:COM17	24:COM11	28:COM15
			-0.163	0.000	-0.283	-0.204	-0.362	-5.484
			30:COM17	-	18:COM5	18:COM5	18:COM5	22:COM9
1819	921	+ve	4.219	15.354	0.286	0.247	0.365	25.981
			20:COM7	35:CVOL4	16:COM3	20:COM7	24:COM11	35:CVOL4
			-0.247	0.000	-0.278	-0.113	-0.377	0.000
			30:COM17	-	26:COM13	30:COM17	18:COM5	-
	1092	-ve	4.219	7.636	0.286	0.247	0.364	0.591
			20:COM7	35:CVOL4	16:COM3	20:COM7	16:COM3	28:COM15
			-0.247	0.000	-0.278	-0.113	-0.355	-5.116
			30:COM17	-	26:COM13	30:COM17	26:COM13	22:COM9

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
1820	922	+ve	3.903	16.998	0.288	0.542	0.345	28.759
			20:COM7	20:COM7	16:COM3	20:COM7	24:COM11	20:COM7
			-1.072	-0.073	-0.262	-0.230	-0.383	-1.084
			30:COM17	30:COM17	26:COM13	30:COM17	18:COM5	30:COM17
	1091	-ve	3.903	10.836	0.288	0.542	0.363	2.600
			20:COM7	20:COM7	16:COM3	20:COM7	16:COM3	28:COM15
			-1.072	-2.749	-0.262	-0.230	-0.334	-7.362
			30:COM17	30:COM17	26:COM13	30:COM17	26:COM13	22:COM9
1821	923	+ve	3.418	25.441	0.223	0.624	0.250	35.677
			20:COM7	20:COM7	16:COM3	20:COM7	24:COM11	20:COM7
			-2.353	-9.839	-0.178	-0.300	-0.312	-14.011
			30:COM17	30:COM17	26:COM13	30:COM17	18:COM5	30:COM17
	1090	-ve	3.418	19.279	0.223	0.624	0.266	14.982
			20:COM7	20:COM7	16:COM3	20:COM7	16:COM3	28:COM15
			-2.353	-12.515	-0.178	-0.300	-0.212	-22.325
			30:COM17	30:COM17	26:COM13	30:COM17	26:COM13	22:COM9
1822	924	+ve	3.706	16.001	0.256	0.189	0.375	27.187
			20:COM7	20:COM7	24:COM11	28:COM15	16:COM3	20:COM7
			-0.918	0.000	-0.284	-0.443	-0.334	0.000
			30:COM17	-	18:COM5	22:COM9	26:COM13	-
	1094	-ve	3.706	9.840	0.256	0.189	0.330	1.544
			20:COM7	20:COM7	24:COM11	28:COM15	24:COM11	24:COM17
			-0.918	-1.025	-0.284	-0.443	-0.361	-6.864
			30:COM17	30:COM17	18:COM5	22:COM9	18:COM5	18:COM5
1823	1078	+ve	3.785	4.716	0.107	0.197	0.204	4.660
			28:COM15	16:COM3	20:COM7	28:COM15	28:COM15	24:COM17
			-4.228	-0.883	-0.091	-0.326	-0.237	-11.204
			22:COM9	26:COM13	30:COM17	22:COM9	22:COM9	18:COM5
	5718	-ve	3.785	0.000	0.107	0.197	0.252	9.743
			28:COM15	-	20:COM7	28:COM15	20:COM7	34:CVOL3
			-4.228	-9.877	-0.091	-0.326	-0.214	0.000
			22:COM9	18:COM5	30:COM17	22:COM9	30:COM17	-
1824	1077	+ve	9.005	4.821	0.116	0.170	0.270	0.000
			20:COM7	20:COM7	28:COM15	20:COM7	20:COM7	-
			-5.856	-0.001	-0.117	-0.165	-0.266	-3.143
			30:COM17	30:COM17	22:COM9	30:COM17	30:COM17	22:COM9
	212	-ve	9.005	0.000	0.116	0.170	0.267	12.992
			20:COM7	-	28:COM15	20:COM7	28:COM15	20:COM7
			-5.856	-9.375	-0.117	-0.165	-0.265	-2.881
			30:COM17	34:CVOL3	22:COM9	30:COM17	22:COM9	30:COM17
1825	1076	+ve	5.651	5.981	0.113	0.169	0.272	3.353
			20:COM7	20:COM7	28:COM15	20:COM7	20:COM7	28:COM15
			-3.441	-1.673	-0.117	-0.140	-0.261	-7.445
			30:COM17	30:COM17	22:COM9	30:COM17	30:COM17	22:COM9
	933	-ve	5.651	0.000	0.113	0.169	0.257	17.275
			20:COM7	-	28:COM15	20:COM7	28:COM15	20:COM7
			-3.441	-10.836	-0.117	-0.140	-0.262	-5.486
			30:COM17	22:COM9	22:COM9	30:COM17	22:COM9	30:COM17

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
1826	1075	+ve	4.990	5.276	0.099	0.030	0.216	3.527
			20:COM7	20:COM7	20:COM7	28:COM1	28:COM1	28:COM1
			-3.563	-1.862	-0.095	-0.202	-0.225	-8.309
			30:COM1	30:COM1	30:COM1	22:COM9	22:COM9	22:COM9
	932	-ve	4.990	0.000	0.099	0.030	0.226	18.418
			20:COM7	-	20:COM7	28:COM1	20:COM7	20:COM7
			-3.563	-11.273	-0.095	-0.202	-0.218	-3.350
			30:COM1	22:COM9	30:COM1	22:COM9	30:COM1	30:COM1
1827	1074	+ve	3.717	4.708	0.076	0.243	0.154	2.183
			20:COM7	16:COM3	20:COM7	28:COM1	28:COM1	24:COM1
			-4.094	0.000	-0.069	-0.218	-0.174	-3.985
			30:COM1	-	30:COM1	22:COM9	22:COM9	18:COM5
	935	-ve	3.717	0.000	0.076	0.243	0.183	12.344
			20:COM7	-	20:COM7	28:COM1	20:COM7	20:COM7
			-4.094	-9.491	-0.069	-0.218	-0.168	-0.015
			30:COM1	34:CVOL3	30:COM1	22:COM9	30:COM1	30:COM1
1828	1073	+ve	2.042	5.813	0.046	0.392	0.081	5.127
			28:COM1	16:COM3	20:COM7	20:COM7	28:COM1	16:COM3
			-5.963	0.000	-0.040	-0.163	-0.098	-5.410
			22:COM9	-	30:COM1	30:COM1	22:COM9	26:COM1
	934	-ve	2.042	0.000	0.046	0.392	0.127	9.960
			28:COM1	-	20:COM7	20:COM7	20:COM7	16:COM3
			-5.963	-9.029	-0.040	-0.163	-0.114	0.000
			22:COM9	34:CVOL3	30:COM1	30:COM1	30:COM1	-
1829	5718	+ve	6.371	13.440	0.008	0.000	0.031	22.310
			20:COM7	35:CVOL4	28:COM1	-	28:COM1	20:COM7
			-4.013	0.000	-0.009	-0.326	-0.030	-0.257
			30:COM1	-	22:COM9	34:CVOL3	22:COM9	30:COM1
	942	-ve	6.371	0.000	0.008	0.000	0.031	16.056
			20:COM7	-	28:COM1	-	28:COM1	20:COM7
			-4.013	-11.830	-0.009	-0.326	-0.035	-1.012
			30:COM1	34:CVOL3	22:COM9	34:CVOL3	22:COM9	30:COM1
1833	935	+ve	0.449	13.076	0.014	0.421	0.033	18.126
			28:COM1	35:CVOL4	20:COM7	20:COM7	28:COM1	35:CVOL4
			-1.416	0.000	-0.010	0.000	-0.047	0.000
			22:COM9	-	30:COM1	-	22:COM9	-
	946	-ve	0.449	0.000	0.014	0.421	0.052	5.495
			28:COM1	-	20:COM7	20:COM7	20:COM7	16:COM3
			-1.416	-9.364	-0.010	0.000	-0.039	0.000
			22:COM9	34:CVOL3	30:COM1	-	30:COM1	-
1834	934	+ve	0.000	10.341	0.018	0.355	0.037	12.297
			-	35:CVOL4	20:COM7	34:CVOL3	28:COM1	20:COM7
			-2.489	0.000	-0.013	0.000	-0.052	0.000
			22:COM9	-	30:COM1	-	22:COM9	-
	947	-ve	0.000	0.000	0.018	0.355	0.063	12.494
			-	-	20:COM7	34:CVOL3	20:COM7	34:CVOL3
			-2.489	-10.898	-0.013	0.000	-0.048	0.000
			22:COM9	34:CVOL3	30:COM1	-	30:COM1	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
1835	936	+ve	7.372	48.693	1.287	1.066	0.914	38.109
			20:COM7	16:COM3	28:COM15	16:COM3	20:COM7	16:COM3
			-6.485	-16.510	-1.313	-0.633	-0.862	-13.270
			30:COM17	26:COM13	22:COM9	26:COM13	30:COM17	26:COM13
	1078	-ve	7.372	45.569	1.287	1.066	0.832	9.335
			20:COM7	16:COM3	28:COM15	16:COM3	20:COM7	24:COM17
			-6.485	-17.867	-1.313	-0.633	-0.815	-23.871
			30:COM17	26:COM13	22:COM9	26:COM13	30:COM17	18:COM5
1836	937	+ve	6.791	12.851	1.020	0.326	0.796	17.315
			20:COM7	20:COM7	28:COM15	16:COM3	20:COM7	20:COM7
			-7.166	0.000	-1.043	-0.233	-0.777	-2.800
			30:COM17	-	22:COM9	26:COM13	30:COM17	30:COM17
	1077	-ve	6.791	9.218	1.020	0.326	0.783	2.142
			20:COM7	20:COM7	28:COM15	16:COM3	28:COM15	24:COM17
			-7.166	-0.696	-1.043	-0.233	-0.799	-4.645
			30:COM17	30:COM17	22:COM9	26:COM13	22:COM9	18:COM5
1837	938	+ve	8.993	10.501	0.777	0.001	0.670	14.293
			20:COM7	16:COM3	28:COM15	24:COM17	20:COM7	20:COM7
			-7.658	0.000	-0.784	-0.071	-0.672	-0.446
			30:COM17	-	22:COM9	18:COM5	30:COM17	30:COM17
	1076	-ve	8.993	6.358	0.777	0.001	0.682	4.491
			20:COM7	16:COM3	28:COM15	24:COM17	28:COM15	28:COM15
			-7.658	0.000	-0.784	-0.071	-0.697	-7.117
			30:COM17	-	22:COM9	18:COM5	22:COM9	22:COM9
1838	939	+ve	9.584	11.048	0.573	0.093	0.543	15.194
			20:COM7	35:CVOL4	20:COM7	24:COM17	28:COM15	20:COM7
			-7.906	0.000	-0.555	-0.208	-0.565	0.000
			30:COM17	-	30:COM17	18:COM5	22:COM9	-
	1075	-ve	9.584	5.221	0.573	0.093	0.558	2.679
			20:COM7	35:CVOL4	20:COM7	24:COM17	20:COM7	28:COM15
			-7.906	0.000	-0.555	-0.208	-0.544	-7.114
			30:COM17	-	30:COM17	18:COM5	30:COM17	22:COM9
1839	940	+ve	8.952	14.383	0.416	0.254	0.426	18.940
			20:COM7	16:COM3	20:COM7	24:COM17	28:COM15	20:COM7
			-7.822	-0.432	-0.387	-0.336	-0.461	-2.227
			30:COM17	26:COM13	30:COM17	18:COM5	22:COM9	30:COM17
	1074	-ve	8.952	9.222	0.416	0.254	0.442	1.655
			20:COM7	16:COM3	20:COM7	24:COM17	20:COM7	24:COM17
			-7.822	-2.673	-0.387	-0.336	-0.416	-7.212
			30:COM17	26:COM13	30:COM17	18:COM5	30:COM17	18:COM5
1840	941	+ve	6.195	22.625	0.251	0.370	0.284	27.578
			20:COM7	16:COM3	20:COM7	20:COM7	28:COM15	16:COM3
			-6.317	-7.256	-0.228	-0.380	-0.319	-9.941
			30:COM17	26:COM13	30:COM17	30:COM17	22:COM9	26:COM13
	1073	-ve	6.195	16.955	0.251	0.370	0.281	10.321
			20:COM7	16:COM3	20:COM7	20:COM7	20:COM7	24:COM17
			-6.317	-9.719	-0.228	-0.380	-0.260	-19.662
			30:COM17	26:COM13	30:COM17	30:COM17	30:COM17	18:COM5

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
1841	6200	+ve	8.012	2.377	0.156	0.000	0.090	12.388
			28:COM15	16:COM3	20:COM7	-	28:COM15	20:COM7
			-8.612	-0.338	-0.120	-0.213	-0.123	0.000
			22:COM9	26:COM13	30:COM17	18:COM5	22:COM9	-
	873	-ve	8.012	0.000	0.156	0.000	0.115	12.488
			28:COM15	-	20:COM7	-	20:COM7	20:COM7
			-8.612	-2.978	-0.120	-0.213	-0.093	0.000
			22:COM9	18:COM5	30:COM17	18:COM5	30:COM17	-
1842	6201	+ve	5.074	2.552	0.035	0.000	0.038	3.414
			28:COM15	16:COM3	20:COM7	-	28:COM15	20:COM7
			-5.886	-0.103	-0.027	-0.239	-0.053	-1.509
			22:COM9	26:COM13	30:COM17	18:COM5	22:COM9	30:COM17
	874	-ve	5.074	0.000	0.035	0.000	0.054	9.640
			28:COM15	-	20:COM7	-	20:COM7	20:COM7
			-5.886	-6.624	-0.027	-0.239	-0.043	0.000
			22:COM9	34:CVOL3	30:COM17	18:COM5	30:COM17	-
1843	945	+ve	3.649	4.613	0.014	0.000	0.024	0.000
			28:COM15	35:CVOL4	20:COM7	-	28:COM15	-
			-4.430	0.000	-0.011	-0.209	-0.033	-3.198
			22:COM9	-	30:COM17	22:COM9	22:COM9	18:COM5
	875	-ve	3.649	0.000	0.014	0.000	0.034	9.876
			28:COM15	-	20:COM7	-	20:COM7	20:COM7
			-4.430	-9.192	-0.011	-0.209	-0.027	0.000
			22:COM9	34:CVOL3	30:COM17	22:COM9	30:COM17	-
1844	6203	+ve	2.768	7.528	0.006	0.011	0.017	0.581
			28:COM15	35:CVOL4	20:COM7	28:COM15	28:COM15	16:COM3
			-3.345	0.000	-0.006	-0.106	-0.020	-1.750
			22:COM9	-	30:COM17	22:COM9	22:COM9	26:COM13
	876	-ve	2.768	0.000	0.006	0.011	0.020	11.007
			28:COM15	-	20:COM7	28:COM15	20:COM7	20:COM7
			-3.345	-10.630	-0.006	-0.106	-0.018	-0.093
			22:COM9	34:CVOL3	30:COM17	22:COM9	30:COM17	30:COM17
1845	6204	+ve	7.693	19.258	0.064	2.129	0.201	17.494
			20:COM7	35:CVOL4	20:COM7	35:CVOL4	28:COM15	20:COM7
			-8.522	0.000	-0.054	0.000	-0.243	0.000
			30:COM17	-	30:COM17	-	22:COM9	-
	877	-ve	7.693	0.000	0.064	2.129	0.246	37.275
			20:COM7	-	20:COM7	35:CVOL4	20:COM7	20:COM7
			-8.522	-31.361	-0.054	0.000	-0.214	0.000
			30:COM17	34:CVOL3	30:COM17	-	30:COM17	-
1861	840	+ve	4.213	2.673	0.982	0.559	0.601	1.053
			24:COM11	24:COM11	24:COM11	16:COM3	16:COM3	24:COM11
			-6.839	-4.559	-1.053	-0.114	-0.565	-4.261
			18:COM5	18:COM5	18:COM5	26:COM13	26:COM13	18:COM5
	6136	-ve	4.213	1.175	0.982	0.559	0.613	3.629
			24:COM11	24:COM11	24:COM11	16:COM3	24:COM11	20:COM7
			-6.839	-7.755	-1.053	-0.114	-0.662	-1.757
			18:COM5	18:COM5	18:COM5	26:COM13	18:COM5	30:COM17

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
1867	828	+ve	1.933	13.173	0.035	0.035	0.064	17.321
			24:COM1	34:CVOL3	16:COM3	24:COM1	24:COM1	35:CVOL4
			-6.463	0.000	-0.030	-0.111	-0.076	0.000
			18:COM5	-	26:COM1	18:COM5	18:COM5	-
	6425	-ve	1.933	0.312	0.035	0.035	0.088	0.000
			24:COM1	24:COM1	16:COM3	24:COM1	16:COM3	-
			-6.463	-2.287	-0.030	-0.111	-0.074	-11.143
			18:COM5	18:COM5	26:COM1	18:COM5	26:COM1	22:COM9
1868	827	+ve	2.344	12.497	0.070	0.000	0.163	11.558
			24:COM1	34:CVOL3	16:COM3	-	24:COM1	16:COM3
			-4.773	0.000	-0.071	-0.659	-0.165	0.000
			18:COM5	-	26:COM1	34:CVOL3	18:COM5	-
	6426	-ve	2.344	0.000	0.070	0.000	0.161	0.000
			24:COM1	-	16:COM3	-	24:COM1	-
			-4.773	-3.128	-0.071	-0.659	-0.166	-12.804
			18:COM5	18:COM5	26:COM1	34:CVOL3	18:COM5	22:COM9
1869	826	+ve	1.608	9.782	0.070	0.000	0.163	3.847
			16:COM3	34:CVOL3	16:COM3	-	24:COM1	16:COM3
			-2.113	0.000	-0.069	-0.515	-0.164	0.000
			26:COM1	-	26:COM1	18:COM5	18:COM5	-
	6427	-ve	1.608	0.000	0.070	0.000	0.158	0.000
			16:COM3	-	16:COM3	-	16:COM3	-
			-2.113	-4.392	-0.069	-0.515	-0.158	-10.435
			26:COM1	35:CVOL4	26:COM1	18:COM5	26:COM1	22:COM9
1870	823	+ve	1.577	8.313	0.022	0.173	0.049	7.019
			28:COM1	34:CVOL3	24:COM1	20:COM7	16:COM3	35:CVOL4
			-5.173	0.000	-0.024	-0.063	-0.047	0.000
			22:COM9	-	18:COM5	30:COM1	26:COM1	-
	960	-ve	1.577	0.000	0.022	0.173	0.054	3.053
			28:COM1	-	24:COM1	20:COM7	24:COM1	20:COM7
			-5.173	-5.378	-0.024	-0.063	-0.059	-3.685
			22:COM9	35:CVOL4	18:COM5	30:COM1	18:COM5	30:COM1
1871	824	+ve	5.231	8.053	0.023	0.115	0.056	3.775
			24:COM1	34:CVOL3	16:COM3	20:COM7	16:COM3	20:COM7
			-7.104	0.000	-0.023	-0.065	-0.055	0.000
			18:COM5	-	26:COM1	30:COM1	26:COM1	-
	6428	-ve	5.231	0.000	0.023	0.115	0.050	0.137
			24:COM1	-	16:COM3	20:COM7	16:COM3	28:COM1
			-7.104	-5.657	-0.023	-0.065	-0.048	-3.831
			18:COM5	35:CVOL4	26:COM1	30:COM1	26:COM1	22:COM9
1872	825	+ve	1.356	8.581	0.068	0.053	0.168	1.602
			20:COM7	35:CVOL4	24:COM1	24:COM1	16:COM3	20:COM7
			-1.661	0.000	-0.070	-0.261	-0.160	-0.663
			30:COM1	-	18:COM5	18:COM5	26:COM1	30:COM1
	6429	-ve	1.356	0.000	0.068	0.053	0.152	0.000
			20:COM7	-	24:COM1	24:COM1	24:COM1	-
			-1.661	-5.563	-0.070	-0.261	-0.157	-7.400
			30:COM1	34:CVOL3	18:COM5	18:COM5	18:COM5	22:COM9

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
1874	1101	+ve	0.575	5.913	0.039	0.306	0.071	5.452
			24:COM1	20:COM7	16:COM3	20:COM7	24:COM1	20:COM7
			-4.020	-0.192	-0.034	-0.305	-0.081	-7.388
			18:COM5	30:COM1	26:COM1	30:COM1	18:COM5	30:COM1
	989	-ve	0.575	0.000	0.039	0.306	0.111	11.313
			24:COM1	-	16:COM3	20:COM7	16:COM3	16:COM3
			-4.020	-9.391	-0.034	-0.305	-0.096	-0.078
			18:COM5	22:COM9	26:COM1	30:COM1	26:COM1	26:COM1
1875	1100	+ve	2.685	5.383	0.089	0.221	0.185	3.032
			16:COM3	16:COM3	16:COM3	20:COM7	24:COM1	24:COM1
			-2.248	-1.162	-0.078	-0.153	-0.209	-8.378
			26:COM1	26:COM1	26:COM1	30:COM1	18:COM5	18:COM5
	988	-ve	2.685	0.000	0.089	0.221	0.219	16.041
			16:COM3	-	16:COM3	20:COM7	16:COM3	16:COM3
			-2.248	-10.713	-0.078	-0.153	-0.190	-2.345
			26:COM1	18:COM5	26:COM1	30:COM1	26:COM1	26:COM1
1876	1099	+ve	4.306	5.495	0.119	0.128	0.251	1.993
			20:COM7	20:COM7	16:COM3	24:COM1	24:COM1	28:COM1
			-0.813	-1.429	-0.106	-0.167	-0.282	-7.368
			30:COM1	30:COM1	26:COM1	18:COM5	18:COM5	22:COM9
	987	-ve	4.306	0.000	0.119	0.128	0.278	17.531
			20:COM7	-	16:COM3	24:COM1	16:COM3	20:COM7
			-0.813	-10.874	-0.106	-0.167	-0.247	-4.602
			30:COM1	22:COM9	26:COM1	18:COM5	26:COM1	30:COM1
1877	1098	+ve	7.460	5.900	0.108	0.102	0.251	2.555
			16:COM3	20:COM7	24:COM1	24:COM1	16:COM3	28:COM1
			-2.745	-1.381	-0.108	-0.142	-0.251	-6.569
			26:COM1	30:COM1	18:COM5	18:COM5	26:COM1	22:COM9
	991	-ve	7.460	0.000	0.108	0.102	0.245	16.730
			16:COM3	-	24:COM1	24:COM1	24:COM1	20:COM7
			-2.745	-10.528	-0.108	-0.142	-0.248	-5.464
			26:COM1	22:COM9	18:COM5	18:COM5	18:COM5	30:COM1
1878	1097	+ve	7.505	4.901	0.113	0.136	0.259	0.000
			16:COM3	20:COM7	16:COM3	28:COM1	24:COM1	-
			-4.891	0.000	-0.113	-0.157	-0.261	-2.394
			26:COM1	-	26:COM1	22:COM9	18:COM5	22:COM9
	990	-ve	7.505	0.000	0.113	0.136	0.258	13.156
			16:COM3	-	16:COM3	28:COM1	24:COM1	20:COM7
			-4.891	-9.293	-0.113	-0.157	-0.260	-2.948
			26:COM1	34:CVOL3	26:COM1	22:COM9	18:COM5	30:COM1
1879	1096	+ve	4.778	5.698	0.075	0.269	0.174	7.045
			16:COM3	20:COM7	24:COM1	28:COM1	16:COM3	28:COM1
			-5.046	-0.564	-0.080	-0.223	-0.165	-9.700
			26:COM1	30:COM1	18:COM5	22:COM9	26:COM1	22:COM9
	163	-ve	4.778	0.000	0.075	0.269	0.182	8.296
			16:COM3	-	24:COM1	28:COM1	24:COM1	35:CVOL4
			-5.046	-9.232	-0.080	-0.223	-0.194	0.000
			26:COM1	22:COM9	18:COM5	22:COM9	18:COM5	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
1880	969	+ve	4.885	27.050	0.204	0.487	0.270	33.565
			20:COM7	20:COM7	16:COM3	28:COM1	16:COM3	20:COM7
			-4.208	-10.462	-0.209	-0.410	-0.258	-14.628
			30:COM1	30:COM1	26:COM1	22:COM9	26:COM1	30:COM1
	1101	-ve	4.885	21.397	0.204	0.487	0.228	13.208
			20:COM7	20:COM7	16:COM3	28:COM1	16:COM3	28:COM1
			-4.208	-12.917	-0.209	-0.410	-0.229	-24.096
			30:COM1	30:COM1	26:COM1	22:COM9	26:COM1	22:COM9
1881	970	+ve	7.215	16.307	0.429	0.397	0.449	22.023
			16:COM3	20:COM7	16:COM3	20:COM7	24:COM1	20:COM7
			-5.125	-1.344	-0.414	-0.276	-0.457	-4.971
			26:COM1	30:COM1	26:COM1	30:COM1	18:COM5	30:COM1
	1100	-ve	7.215	11.163	0.429	0.397	0.472	1.326
			16:COM3	20:COM7	16:COM3	20:COM7	16:COM3	24:COM1
			-5.125	-3.578	-0.414	-0.276	-0.449	-8.689
			26:COM1	30:COM1	26:COM1	30:COM1	26:COM1	18:COM5
1882	971	+ve	7.340	11.406	0.636	0.221	0.574	15.948
			16:COM3	35:CVOL4	16:COM3	20:COM7	24:COM1	20:COM7
			-4.984	0.000	-0.602	-0.099	-0.600	-0.643
			26:COM1	-	26:COM1	30:COM1	18:COM5	30:COM1
	1099	-ve	7.340	5.684	0.636	0.221	0.641	2.247
			16:COM3	20:COM7	16:COM3	20:COM7	16:COM3	28:COM1
			-4.984	0.000	-0.602	-0.099	-0.600	-7.654
			26:COM1	-	26:COM1	30:COM1	26:COM1	22:COM9
1883	972	+ve	7.075	10.751	0.759	0.117	0.650	13.921
			16:COM3	34:CVOL3	24:COM1	16:COM3	24:COM1	20:COM7
			-4.982	0.000	-0.762	-0.021	-0.651	-0.194
			26:COM1	-	18:COM5	26:COM1	18:COM5	30:COM1
	1098	-ve	7.075	6.334	0.759	0.117	0.669	4.729
			16:COM3	16:COM3	24:COM1	16:COM3	24:COM1	28:COM1
			-4.982	0.000	-0.762	-0.021	-0.674	-8.392
			26:COM1	-	18:COM5	26:COM1	18:COM5	22:COM9
1884	973	+ve	5.813	12.415	1.019	0.294	0.750	16.941
			16:COM3	20:COM7	16:COM3	20:COM7	24:COM1	20:COM7
			-4.180	0.000	-1.010	-0.264	-0.763	-3.739
			26:COM1	-	26:COM1	30:COM1	18:COM5	30:COM1
	1097	-ve	5.813	8.796	1.019	0.294	0.790	1.960
			16:COM3	20:COM7	16:COM3	20:COM7	24:COM1	28:COM1
			-4.180	-0.732	-1.010	-0.264	-0.790	-4.994
			26:COM1	30:COM1	26:COM1	30:COM1	18:COM5	22:COM9
1885	974	+ve	6.365	45.941	1.126	0.723	0.723	36.397
			20:COM7	20:COM7	16:COM3	20:COM7	24:COM1	20:COM7
			-4.552	-25.519	-1.091	-0.818	-0.767	-20.293
			30:COM1	30:COM1	26:COM1	30:COM1	18:COM5	30:COM1
	1096	-ve	6.365	42.831	1.126	0.723	0.709	14.003
			20:COM7	20:COM7	16:COM3	20:COM7	24:COM1	28:COM1
			-4.552	-26.869	-1.091	-0.818	-0.706	-21.715
			30:COM1	30:COM1	26:COM1	30:COM1	18:COM5	22:COM9

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
1900	163	+ve	5.394	9.919	0.011	0.267	0.021	15.038
			28:COM15	20:COM7	16:COM3	16:COM3	28:COM15	20:COM7
			-6.439	0.000	-0.010	0.000	-0.025	-3.801
			22:COM9	-	26:COM13	-	22:COM9	30:COM17
	6109	-ve	5.394	0.000	0.011	0.267	0.036	12.380
			28:COM15	-	16:COM3	16:COM3	16:COM3	20:COM7
			-6.439	-9.439	-0.010	0.000	-0.032	-2.792
			22:COM9	22:COM9	26:COM13	-	26:COM13	30:COM17
1901	990	+ve	1.629	11.399	0.007	0.245	0.020	17.310
			28:COM15	35:CVOL4	20:COM7	16:COM3	28:COM15	20:COM7
			-2.008	0.000	-0.007	-0.074	-0.020	0.000
			22:COM9	-	30:COM17	26:COM13	22:COM9	-
	6110	-ve	1.629	0.000	0.007	0.245	0.021	7.247
			28:COM15	-	20:COM7	16:COM3	20:COM7	20:COM7
			-2.008	-8.127	-0.007	-0.074	-0.021	-0.890
			22:COM9	34:CVOL3	30:COM17	26:COM13	30:COM17	30:COM17
1903	987	+ve	3.375	12.267	0.002	0.040	0.006	19.485
			28:COM15	35:CVOL4	20:COM7	24:COM17	24:COM11	16:COM3
			-3.852	0.000	-0.002	-0.275	-0.008	-0.258
			22:COM9	-	30:COM17	18:COM5	18:COM5	26:COM13
	6111	-ve	3.375	0.000	0.002	0.040	0.003	11.792
			28:COM15	-	20:COM7	24:COM17	28:COM15	16:COM3
			-3.852	-10.581	-0.002	-0.275	-0.006	0.000
			22:COM9	34:CVOL3	30:COM17	18:COM5	22:COM9	-
1904	988	+ve	5.780	11.842	0.004	0.176	0.014	18.969
			20:COM7	35:CVOL4	24:COM11	24:COM17	24:COM11	16:COM3
			-3.216	0.000	-0.005	-0.249	-0.016	-2.649
			30:COM17	-	18:COM5	18:COM5	18:COM5	26:COM13
	174	-ve	5.780	0.000	0.004	0.176	0.017	21.526
			20:COM7	-	24:COM11	24:COM17	24:COM11	16:COM3
			-3.216	-12.438	-0.005	-0.249	-0.021	-2.252
			30:COM17	34:CVOL3	18:COM5	18:COM5	18:COM5	26:COM13
1905	989	+ve	5.538	9.087	0.013	0.379	0.033	11.162
			16:COM3	16:COM3	24:COM11	16:COM3	16:COM3	16:COM3
			-5.048	0.000	-0.019	-0.376	-0.021	-2.640
			26:COM13	-	18:COM5	26:COM13	26:COM13	26:COM13
	992	-ve	5.538	0.000	0.013	0.379	0.041	8.769
			16:COM3	-	24:COM11	16:COM3	24:COM11	16:COM3
			-5.048	-7.757	-0.019	-0.376	-0.055	-4.904
			26:COM13	18:COM5	18:COM5	26:COM13	18:COM5	26:COM13
1909	997	+ve	3.500	7.369	0.028	0.137	0.044	8.943
			16:COM3	34:CVOL3	28:COM15	28:COM15	20:COM7	20:COM7
			-1.446	0.000	-0.028	-0.217	-0.047	-1.058
			26:COM13	-	22:COM9	22:COM9	30:COM17	30:COM17
	6061	-ve	3.500	0.000	0.028	0.137	0.058	2.090
			16:COM3	-	28:COM15	28:COM15	28:COM15	16:COM3
			-1.446	-5.078	-0.028	-0.217	-0.061	0.000
			26:COM13	35:CVOL4	22:COM9	22:COM9	22:COM9	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
1912	1004	+ve	1.432	91.085	1.376	0.613	0.816	52.771
			20:COM7	20:COM7	16:COM3	16:COM3	24:COM11	20:COM7
			-0.913	-54.931	-1.314	-0.596	-0.850	-31.278
			30:COM17	30:COM17	26:COM13	26:COM13	18:COM5	30:COM17
	1103	-ve	1.432	88.483	1.376	0.613	0.657	29.510
			20:COM7	20:COM7	16:COM3	16:COM3	16:COM3	28:COM15
			-0.913	-56.061	-1.314	-0.596	-0.623	-45.572
			30:COM17	30:COM17	26:COM13	26:COM13	26:COM13	22:COM9
1913	5464	+ve	29.163	318.160	20.422	15.626	6.627	71.147
			20:COM7	20:COM7	20:COM7	16:COM3	28:COM15	20:COM7
			-16.736	-185.685	-8.791	-8.628	-13.340	-44.316
			30:COM17	30:COM17	30:COM17	26:COM13	22:COM9	30:COM17
	5495	-ve	29.163	314.894	20.422	15.626	9.036	160.007
			20:COM7	20:COM7	20:COM7	16:COM3	20:COM7	28:COM15
			-16.736	-187.312	-8.791	-8.628	-3.007	-275.625
			30:COM17	30:COM17	30:COM17	26:COM13	30:COM17	22:COM9
1914	1103	+ve	3.380	8.588	0.027	0.038	0.050	13.454
			24:COM17	20:COM7	16:COM3	16:COM3	24:COM11	20:COM7
			-9.416	-1.856	-0.026	-0.024	-0.053	-13.348
			18:COM5	30:COM17	26:COM13	26:COM13	18:COM5	30:COM17
	1006	-ve	3.380	0.429	0.027	0.038	0.085	12.580
			24:COM17	28:COM15	16:COM3	16:COM3	16:COM3	20:COM7
			-9.416	-10.902	-0.026	-0.024	-0.079	-3.028
			18:COM5	22:COM9	26:COM13	26:COM13	26:COM13	30:COM17
1915	5495	+ve	38.998	17.381	34.127	5.802	6.480	12.755
			24:COM17	28:COM15	16:COM3	16:COM3	24:COM11	28:COM15
			-74.221	-24.668	-15.407	-2.590	-14.014	-19.419
			18:COM5	22:COM9	26:COM13	26:COM13	18:COM5	22:COM9
	5496	-ve	38.998	16.044	34.127	5.802	16.701	4.057
			24:COM17	28:COM15	16:COM3	16:COM3	16:COM3	20:COM7
			-74.221	-27.351	-15.407	-2.590	-7.386	-2.353
			18:COM5	22:COM9	26:COM13	26:COM13	26:COM13	30:COM17
1924	1021	+ve	11.134	22.017	0.206	0.254	0.357	29.453
			20:COM7	20:COM7	28:COM15	28:COM15	20:COM7	20:COM7
			-9.702	-7.797	-0.250	-0.328	-0.297	-12.449
			30:COM17	30:COM17	22:COM9	22:COM9	30:COM17	30:COM17
	1081	-ve	11.134	15.629	0.206	0.254	0.256	12.248
			20:COM7	20:COM7	28:COM15	28:COM15	28:COM15	28:COM15
			-9.702	-10.571	-0.250	-0.328	-0.314	-21.162
			30:COM17	30:COM17	22:COM9	22:COM9	22:COM9	22:COM9
1925	1022	+ve	9.423	13.123	0.225	0.266	0.347	19.463
			20:COM7	20:COM7	28:COM15	20:COM7	20:COM7	20:COM7
			-8.180	-1.503	-0.244	-0.200	-0.320	-4.662
			30:COM17	30:COM17	22:COM9	30:COM17	30:COM17	30:COM17
	1080	-ve	9.423	6.527	0.225	0.266	0.304	3.488
			20:COM7	20:COM7	28:COM15	20:COM7	28:COM15	28:COM15
			-8.180	-4.367	-0.244	-0.200	-0.329	-7.818
			30:COM17	30:COM17	22:COM9	30:COM17	22:COM9	22:COM9

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
1926	1023	+ve	8.774	10.193	0.194	0.184	0.288	14.332
			20:COM7	16:COM3	28:COM15	20:COM7	20:COM7	16:COM3
			-7.650	-1.394	-0.199	0.000	-0.280	-4.131
			30:COM17	26:COM13	22:COM9	-	30:COM17	26:COM13
	1079	-ve	8.774	4.266	0.194	0.184	0.275	4.205
			20:COM7	24:COM11	28:COM15	20:COM7	28:COM15	16:COM3
			-7.650	-5.226	-0.199	0.000	-0.281	-5.230
			30:COM17	18:COM5	22:COM9	-	22:COM9	26:COM13
1927	1081	+ve	0.646	6.431	0.033	0.094	0.092	7.051
			24:COM11	20:COM7	28:COM15	28:COM15	20:COM7	20:COM7
			-5.335	0.000	-0.038	-0.276	-0.074	-6.113
			18:COM5	-	22:COM9	22:COM9	30:COM17	30:COM17
	1015	-ve	0.646	0.000	0.033	0.094	0.097	10.917
			24:COM11	-	28:COM15	28:COM15	28:COM15	20:COM7
			-5.335	-9.526	-0.038	-0.276	-0.110	0.000
			18:COM5	35:CVOL4	22:COM9	22:COM9	22:COM9	-
1928	1080	+ve	2.212	6.131	0.040	0.081	0.111	4.141
			24:COM11	34:CVOL3	28:COM15	24:COM11	20:COM7	20:COM7
			-3.697	0.000	-0.042	-0.145	-0.104	-2.676
			18:COM5	-	22:COM9	18:COM5	30:COM17	30:COM17
	1016	-ve	2.212	0.000	0.040	0.081	0.111	12.331
			24:COM11	-	28:COM15	24:COM11	28:COM15	35:CVOL4
			-3.697	-10.045	-0.042	-0.145	-0.116	0.000
			18:COM5	35:CVOL4	22:COM9	18:COM5	22:COM9	-
1929	1079	+ve	3.328	6.587	0.035	0.087	0.099	3.189
			16:COM3	34:CVOL3	28:COM15	16:COM3	20:COM7	34:CVOL3
			-3.449	0.000	-0.036	-0.005	-0.097	0.000
			26:COM13	-	22:COM9	26:COM13	30:COM17	-
	1017	-ve	3.328	0.000	0.035	0.087	0.100	13.239
			16:COM3	-	28:COM15	16:COM3	28:COM15	35:CVOL4
			-3.449	-10.165	-0.036	-0.005	-0.101	0.000
			26:COM13	35:CVOL4	22:COM9	26:COM13	22:COM9	-
1931	1015	+ve	0.787	9.262	0.010	0.000	0.038	10.416
			28:COM15	35:CVOL4	28:COM15	-	20:COM7	16:COM3
			-3.493	0.000	-0.011	-0.136	-0.034	-1.049
			22:COM9	-	22:COM9	18:COM5	30:COM17	26:COM13
	5990	-ve	0.787	0.000	0.010	0.000	0.044	23.210
			28:COM15	-	28:COM15	-	28:COM15	34:CVOL3
			-3.493	-13.078	-0.011	-0.136	-0.047	0.000
			22:COM9	34:CVOL3	22:COM9	18:COM5	22:COM9	-
1932	1016	+ve	1.348	12.797	0.007	0.015	0.029	18.011
			24:COM11	35:CVOL4	28:COM15	24:COM11	20:COM7	35:CVOL4
			-2.811	0.000	-0.007	-0.132	-0.028	0.000
			18:COM5	-	22:COM9	18:COM5	30:COM17	-
	5991	-ve	1.348	0.000	0.007	0.015	0.035	21.359
			24:COM11	-	28:COM15	24:COM11	28:COM15	34:CVOL3
			-2.811	-13.559	-0.007	-0.132	-0.035	0.000
			18:COM5	34:CVOL3	22:COM9	18:COM5	22:COM9	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
1933	1017	+ve	3.007	16.456	0.010	0.062	0.043	28.714
			16:COM3	35:CVOL4	28:COM15	16:COM3	20:COM7	35:CVOL4
			-3.785	0.000	-0.010	-0.041	-0.043	0.000
			26:COM13	-	22:COM9	26:COM13	30:COM17	-
	5992	-ve	3.007	0.000	0.010	0.062	0.056	20.173
			16:COM3	-	28:COM15	16:COM3	28:COM15	34:CVOL3
			-3.785	-14.786	-0.010	-0.041	-0.055	0.000
			26:COM13	34:CVOL3	22:COM9	26:COM13	22:COM9	-
1934	150	+ve	4.789	19.053	0.003	0.474	0.012	39.560
			16:COM3	35:CVOL4	20:COM7	20:COM7	28:COM15	35:CVOL4
			-4.605	0.000	-0.003	-0.036	-0.012	0.000
			26:COM13	-	30:COM17	30:COM17	22:COM9	-
	5994	-ve	4.789	0.000	0.003	0.474	0.024	23.049
			16:COM3	-	20:COM7	20:COM7	20:COM7	34:CVOL3
			-4.605	-16.187	-0.003	-0.036	-0.022	0.000
			26:COM13	34:CVOL3	30:COM17	30:COM17	30:COM17	-
1935	1032	+ve	5.422	7.062	0.023	0.033	0.067	3.348
			16:COM3	34:CVOL3	20:COM7	24:COM17	28:COM15	16:COM3
			-4.215	0.000	-0.022	-0.081	-0.070	-0.090
			26:COM13	-	30:COM17	18:COM5	22:COM9	26:COM13
	1028	-ve	5.422	0.000	0.023	0.033	0.073	16.804
			16:COM3	-	20:COM7	24:COM17	20:COM7	35:CVOL4
			-4.215	-11.514	-0.022	-0.081	-0.071	0.000
			26:COM13	35:CVOL4	30:COM17	18:COM5	30:COM17	-
1936	1033	+ve	6.701	8.150	0.020	0.087	0.063	3.267
			16:COM3	34:CVOL3	20:COM7	16:COM3	28:COM15	34:CVOL3
			-5.108	0.000	-0.020	-0.035	-0.066	0.000
			26:COM13	-	30:COM17	26:COM13	22:COM9	-
	1029	-ve	6.701	0.000	0.020	0.087	0.070	15.028
			16:COM3	-	20:COM7	16:COM3	20:COM7	35:CVOL4
			-5.108	-11.686	-0.020	-0.035	-0.069	0.000
			26:COM13	35:CVOL4	30:COM17	26:COM13	30:COM17	-
1937	1034	+ve	8.550	9.510	0.015	0.070	0.050	5.412
			16:COM3	34:CVOL3	28:COM15	20:COM7	28:COM15	34:CVOL3
			-6.926	0.000	-0.015	0.000	-0.052	0.000
			26:COM13	-	22:COM9	-	22:COM9	-
	1030	-ve	8.550	0.000	0.015	0.070	0.056	12.789
			16:COM3	-	28:COM15	20:COM7	28:COM15	35:CVOL4
			-6.926	-11.595	-0.015	0.000	-0.058	0.000
			26:COM13	35:CVOL4	22:COM9	-	22:COM9	-
1938	1035	+ve	10.231	10.381	0.013	0.045	0.034	8.597
			16:COM3	34:CVOL3	20:COM7	24:COM17	28:COM15	34:CVOL3
			-7.918	0.000	-0.011	-0.093	-0.046	0.000
			26:COM13	-	30:COM17	18:COM5	22:COM9	-
	1031	-ve	10.231	0.000	0.013	0.045	0.054	15.017
			16:COM3	-	20:COM7	24:COM17	20:COM7	16:COM3
			-7.918	-11.999	-0.011	-0.093	-0.046	0.000
			26:COM13	35:CVOL4	30:COM17	18:COM5	30:COM17	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
1939	1036	+ve	5.528	10.751	0.156	0.000	0.220	15.941
			16:COM3	20:COM7	20:COM7	-	28:COM15	20:COM7
			-4.010	-2.064	-0.154	-0.303	-0.222	-4.989
			26:COM13	30:COM17	30:COM17	22:COM9	22:COM9	30:COM17
	1032	-ve	5.528	4.807	0.156	0.000	0.223	5.591
			16:COM3	28:COM15	20:COM7	-	20:COM7	20:COM7
			-4.010	-5.864	-0.154	-0.303	-0.219	-5.549
			26:COM13	22:COM9	30:COM17	22:COM9	30:COM17	30:COM17
1940	1037	+ve	5.961	10.861	0.178	0.062	0.243	17.914
			16:COM3	20:COM7	20:COM7	28:COM15	28:COM15	20:COM7
			-3.819	0.000	-0.173	-0.238	-0.249	-0.246
			26:COM13	-	30:COM17	22:COM9	22:COM9	30:COM17
	1033	-ve	5.961	4.285	0.178	0.062	0.243	0.861
			16:COM3	20:COM7	20:COM7	28:COM15	20:COM7	28:COM15
			-3.819	-1.755	-0.173	-0.238	-0.235	-3.250
			26:COM13	30:COM17	30:COM17	22:COM9	30:COM17	22:COM9
1941	1038	+ve	6.139	10.283	0.181	0.213	0.240	17.357
			16:COM3	35:CVOL4	20:COM7	16:COM3	28:COM15	20:COM7
			-3.677	0.000	-0.173	-0.027	-0.250	0.000
			26:COM13	-	30:COM17	26:COM13	22:COM9	-
	1034	-ve	6.139	3.899	0.181	0.213	0.234	0.000
			16:COM3	20:COM7	20:COM7	16:COM3	20:COM7	-
			-3.677	-0.533	-0.173	-0.027	-0.223	-1.917
			26:COM13	30:COM17	30:COM17	26:COM13	30:COM17	18:COM5
1942	1039	+ve	5.980	9.709	0.175	0.368	0.205	14.559
			16:COM3	16:COM3	20:COM7	34:CVOL3	28:COM15	16:COM3
			-4.249	-0.515	-0.147	0.000	-0.236	-1.635
			26:COM13	26:COM13	30:COM17	-	22:COM9	26:COM13
	1035	-ve	5.980	3.995	0.175	0.368	0.216	3.881
			16:COM3	24:COM11	20:COM7	34:CVOL3	20:COM7	16:COM3
			-4.249	-3.609	-0.147	0.000	-0.177	-3.342
			26:COM13	18:COM5	30:COM17	-	30:COM17	26:COM13
1943	1028	+ve	6.314	18.595	0.004	0.344	0.020	34.647
			16:COM3	35:CVOL4	20:COM7	16:COM3	28:COM15	35:CVOL4
			-5.650	0.000	-0.004	0.000	-0.020	0.000
			26:COM13	-	30:COM17	-	22:COM9	-
	5993	-ve	6.314	0.000	0.004	0.344	0.033	35.056
			16:COM3	-	20:COM7	16:COM3	20:COM7	34:CVOL3
			-5.650	-18.667	-0.004	0.000	-0.030	0.000
			26:COM13	34:CVOL3	30:COM17	-	30:COM17	-
1944	1029	+ve	6.186	13.176	0.005	0.006	0.018	19.240
			16:COM3	34:CVOL3	20:COM7	24:COM11	20:COM7	35:CVOL4
			-5.596	0.000	-0.005	-0.222	-0.018	0.000
			26:COM13	-	30:COM17	18:COM5	30:COM17	-
	6433	-ve	6.186	0.000	0.005	0.006	0.023	7.804
			16:COM3	-	20:COM7	24:COM11	20:COM7	20:COM7
			-5.596	-10.187	-0.005	-0.222	-0.021	-0.492
			26:COM13	35:CVOL4	30:COM17	18:COM5	30:COM17	30:COM17

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
1945	1030	+ve	7.797	1.832	0.044	0.108	0.037	3.588
			16:COM3	28:COM15	20:COM7	24:COM17	28:COM15	20:COM7
			-7.856	-5.030	-0.026	-0.488	-0.057	-3.529
			26:COM13	22:COM9	30:COM17	18:COM5	22:COM9	30:COM17
	1040	-ve	7.797	0.000	0.044	0.108	0.092	27.908
			16:COM3	-	20:COM7	24:COM17	20:COM7	20:COM7
			-7.856	-13.155	-0.026	-0.488	-0.052	0.000
			26:COM13	22:COM9	30:COM17	18:COM5	30:COM17	-
1949	1082	+ve	3.149	6.374	0.075	0.291	0.119	6.216
			24:COM17	20:COM7	20:COM7	20:COM7	28:COM15	28:COM15
			-8.211	-2.212	-0.069	-0.120	-0.133	-8.665
			18:COM5	30:COM17	30:COM17	30:COM17	22:COM9	22:COM9
	1048	-ve	3.149	0.928	0.075	0.291	0.116	5.227
			24:COM17	28:COM15	20:COM7	20:COM7	20:COM7	20:COM7
			-8.211	-8.052	-0.069	-0.120	-0.109	-2.771
			18:COM5	22:COM9	30:COM17	30:COM17	30:COM17	30:COM17
1950	1083	+ve	6.605	4.694	0.386	0.110	0.295	3.842
			28:COM15	20:COM7	20:COM7	16:COM3	28:COM15	20:COM7
			-7.863	-2.345	-0.356	-0.089	-0.321	-4.452
			22:COM9	30:COM17	30:COM17	26:COM13	22:COM9	30:COM17
	1049	-ve	6.605	1.876	0.386	0.110	0.288	2.782
			28:COM15	28:COM15	20:COM7	16:COM3	20:COM7	24:COM17
			-7.863	-4.895	-0.356	-0.089	-0.265	-2.864
			22:COM9	22:COM9	30:COM17	26:COM13	30:COM17	18:COM5
1951	1044	+ve	4.168	14.762	0.283	0.111	0.309	17.625
			20:COM7	20:COM7	20:COM7	28:COM15	28:COM15	20:COM7
			-4.050	-3.811	-0.252	-0.348	-0.351	-5.770
			30:COM17	30:COM17	30:COM17	22:COM9	22:COM9	30:COM17
	1083	-ve	4.168	8.980	0.283	0.111	0.339	6.585
			20:COM7	20:COM7	20:COM7	28:COM15	20:COM7	28:COM15
			-4.050	-6.322	-0.252	-0.348	-0.303	-11.292
			30:COM17	30:COM17	30:COM17	22:COM9	30:COM17	22:COM9
1952	1045	+ve	3.158	24.563	0.260	0.271	0.275	29.985
			20:COM7	20:COM7	20:COM7	28:COM15	28:COM15	20:COM7
			-3.102	-8.226	-0.214	-0.471	-0.336	-11.313
			30:COM17	30:COM17	30:COM17	22:COM9	22:COM9	30:COM17
	1082	-ve	3.158	18.590	0.260	0.271	0.317	12.639
			20:COM7	20:COM7	20:COM7	28:COM15	20:COM7	28:COM15
			-3.102	-10.820	-0.214	-0.471	-0.263	-24.272
			30:COM17	30:COM17	30:COM17	22:COM9	30:COM17	22:COM9
1953	1050	+ve	16.202	17.111	0.223	0.199	0.263	17.422
			20:COM7	20:COM7	20:COM7	24:COM17	28:COM15	20:COM7
			-15.884	-6.040	-0.206	-0.240	-0.286	-7.089
			30:COM17	30:COM17	30:COM17	18:COM5	22:COM9	30:COM17
	152	-ve	16.202	11.494	0.223	0.199	0.241	10.133
			20:COM7	20:COM7	20:COM7	24:COM17	20:COM7	28:COM15
			-15.884	-8.479	-0.206	-0.240	-0.225	-16.454
			30:COM17	30:COM17	30:COM17	18:COM5	30:COM17	22:COM9

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
1954	1051	+ve	41.869	0.000	2.110	3.224	0.000	28.692
			16:COM3	-	16:COM3	34:CVOL3	-	16:COM3
			-27.957	-30.096	0.000	0.000	-2.112	-11.338
			26:COM1	18:COM5	-	-	18:COM5	26:COM1
	352	-ve	41.869	0.000	2.110	3.224	3.115	88.857
			16:COM3	-	16:COM3	34:CVOL3	16:COM3	16:COM3
			-27.957	-31.783	0.000	0.000	-0.485	0.000
			26:COM1	18:COM5	-	-	26:COM1	-
1955	1052	+ve	41.998	0.000	1.353	2.442	1.093	0.000
			16:COM3	-	24:COM1	34:CVOL3	16:COM3	-
			-27.549	-17.423	-1.539	0.000	-1.039	-33.497
			26:COM1	18:COM5	18:COM5	-	26:COM1	18:COM5
	1051	-ve	41.998	0.000	1.353	2.442	1.606	28.567
			16:COM3	-	24:COM1	34:CVOL3	24:COM1	16:COM3
			-27.549	-27.725	-1.539	0.000	-1.915	-11.349
			26:COM1	18:COM5	18:COM5	-	18:COM5	26:COM1
1956	1053	+ve	43.713	7.948	0.387	1.189	0.437	0.000
			20:COM7	16:COM3	20:COM7	16:COM3	28:COM1	-
			-30.705	-1.011	-0.380	0.000	-0.495	-42.820
			30:COM1	26:COM1	30:COM1	-	22:COM9	35:CVOL4
	1052	-ve	43.713	0.000	0.387	1.189	0.263	0.000
			20:COM7	-	20:COM7	16:COM3	28:COM1	-
			-30.705	-14.441	-0.380	0.000	-0.309	-33.530
			30:COM1	18:COM5	30:COM1	-	22:COM9	18:COM5
1957	1054	+ve	48.024	16.632	0.428	0.721	0.407	0.000
			20:COM7	16:COM3	20:COM7	24:COM1	28:COM1	-
			-35.834	0.000	-0.317	-1.033	-0.534	-26.837
			30:COM1	-	30:COM1	18:COM5	22:COM9	18:COM5
	1053	-ve	48.024	11.216	0.428	0.721	0.304	0.000
			20:COM7	16:COM3	20:COM7	24:COM1	20:COM7	-
			-35.834	0.000	-0.317	-1.033	-0.213	-42.812
			30:COM1	-	30:COM1	18:COM5	30:COM1	35:CVOL4
1958	1055	+ve	57.323	22.043	1.598	0.102	2.168	29.951
			20:COM7	16:COM3	24:COM1	28:COM1	16:COM3	16:COM3
			-45.799	0.000	-1.631	-2.497	-2.113	-9.832
			30:COM1	-	18:COM5	22:COM9	26:COM1	26:COM1
	1054	-ve	57.323	20.357	1.598	0.102	1.004	0.000
			20:COM7	16:COM3	24:COM1	28:COM1	24:COM1	-
			-45.799	0.000	-1.631	-2.497	-1.012	-26.759
			30:COM1	-	18:COM5	22:COM9	18:COM5	18:COM5
1959	1056	+ve	21.795	0.000	3.300	6.840	0.000	23.226
			16:COM3	-	16:COM3	34:CVOL3	-	16:COM3
			-15.109	-18.500	0.000	0.000	-2.517	-13.626
			26:COM1	18:COM5	-	-	18:COM5	26:COM1
	353	-ve	21.795	0.000	3.300	6.840	4.427	60.758
			16:COM3	-	16:COM3	34:CVOL3	16:COM3	16:COM3
			-15.109	-20.187	0.000	0.000	-0.503	-7.236
			26:COM1	18:COM5	-	-	26:COM1	26:COM1

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
1960	1057	+ve	20.852	0.128	1.291	5.851	0.809	1.473
			16:COM3	24:COM11	24:COM11	34:CVOL3	24:COM11	24:COM1
			-9.466	-12.865	-1.378	0.000	-0.879	-21.831
			26:COM1	18:COM5	18:COM5	-	18:COM5	18:COM5
	1056	-ve	20.852	0.000	1.291	5.851	1.653	21.665
			16:COM3	-	24:COM11	34:CVOL3	24:COM11	16:COM3
			-9.466	-14.551	-1.378	0.000	-1.893	-14.308
			26:COM1	18:COM5	18:COM5	-	18:COM5	26:COM1
1961	1058	+ve	17.025	3.402	0.409	2.164	0.599	0.000
			16:COM3	24:COM11	28:COM15	34:CVOL3	20:COM7	-
			-6.676	-6.388	-0.514	0.000	-0.565	-22.885
			26:COM1	18:COM5	22:COM9	-	30:COM17	35:CVOL4
	1057	-ve	17.025	2.137	0.409	2.164	0.287	1.412
			16:COM3	24:COM11	28:COM15	34:CVOL3	24:COM11	24:COM1
			-6.676	-8.075	-0.514	0.000	-0.457	-22.041
			26:COM1	18:COM5	22:COM9	-	18:COM5	18:COM5
1962	1059	+ve	13.629	8.876	0.481	0.000	0.368	2.093
			16:COM3	16:COM3	20:COM7	-	24:COM11	24:COM1
			-4.145	-1.775	-0.448	-2.382	-0.453	-20.469
			26:COM1	26:COM1	30:COM17	34:CVOL3	18:COM5	18:COM5
	1058	-ve	13.629	7.189	0.481	0.000	0.516	0.000
			16:COM3	16:COM3	20:COM7	-	28:COM15	-
			-4.145	-3.040	-0.448	-2.382	-0.537	-22.904
			26:COM1	26:COM1	30:COM17	34:CVOL3	22:COM9	35:CVOL4
1963	1060	+ve	14.658	14.875	1.572	0.000	1.499	23.783
			20:COM7	16:COM3	16:COM3	-	24:COM11	16:COM3
			-5.399	0.000	-1.204	-5.722	-2.039	-13.390
			30:COM17	-	26:COM1	34:CVOL3	18:COM5	26:COM1
	1059	-ve	14.658	13.189	1.572	0.000	1.028	2.160
			20:COM7	16:COM3	16:COM3	-	16:COM3	24:COM1
			-5.399	-0.048	-1.204	-5.722	-0.849	-20.268
			30:COM17	26:COM1	26:COM1	34:CVOL3	26:COM1	18:COM5
1964	1061	+ve	20.935	0.000	3.325	7.180	0.000	22.720
			16:COM3	-	16:COM3	34:CVOL3	-	16:COM3
			-14.427	-19.014	-0.091	0.000	-1.992	-13.843
			26:COM1	18:COM5	26:COM1	-	18:COM5	26:COM1
	354	-ve	20.935	0.000	3.325	7.180	4.516	61.375
			16:COM3	-	16:COM3	34:CVOL3	16:COM3	16:COM3
			-14.427	-20.701	-0.091	0.000	-1.227	-7.207
			26:COM1	18:COM5	26:COM1	-	26:COM1	26:COM1
1965	1062	+ve	15.654	0.078	1.372	5.391	0.967	1.541
			16:COM3	24:COM11	24:COM11	34:CVOL3	24:COM11	24:COM1
			-6.366	-13.192	-1.465	0.000	-0.988	-21.438
			26:COM1	18:COM5	18:COM5	-	18:COM5	18:COM5
	1061	-ve	15.654	0.000	1.372	5.391	1.689	22.496
			16:COM3	-	24:COM11	34:CVOL3	24:COM11	16:COM3
			-6.366	-14.878	-1.465	0.000	-1.891	-13.943
			26:COM1	18:COM5	18:COM5	-	18:COM5	26:COM1

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
1966	1063	+ve	11.820	3.271	0.498	2.148	0.422	0.000
			20:COM7	24:COM11	24:COM11	20:COM7	16:COM3	-
			-3.000	-6.711	-0.571	0.000	-0.405	-23.309
			30:COM17	18:COM5	18:COM5	-	26:COM13	35:CVOL4
	1062	-ve	11.820	2.006	0.498	2.148	0.571	1.468
			20:COM7	24:COM11	24:COM11	20:COM7	24:COM11	24:COM17
			-3.000	-8.398	-0.571	0.000	-0.696	-21.648
			30:COM17	18:COM5	18:COM5	-	18:COM5	18:COM5
1967	1064	+ve	9.958	8.575	0.485	0.000	0.311	1.775
			20:COM7	16:COM3	16:COM3	-	24:COM11	24:COM17
			-1.311	-1.872	-0.410	-2.292	-0.463	-21.397
			30:COM17	26:COM13	26:COM13	18:COM5	18:COM5	18:COM5
	1063	-ve	9.958	6.889	0.485	0.000	0.486	0.000
			20:COM7	16:COM3	16:COM3	-	16:COM3	-
			-1.311	-3.137	-0.410	-2.292	-0.491	-23.340
			30:COM17	26:COM13	26:COM13	18:COM5	26:COM13	35:CVOL4
1968	1065	+ve	10.633	14.738	1.515	0.000	1.610	22.681
			16:COM3	16:COM3	16:COM3	-	24:COM11	16:COM3
			-1.604	0.000	-1.383	-5.930	-1.896	-13.781
			26:COM13	-	26:COM13	34:CVOL3	18:COM5	26:COM13
	1064	-ve	10.633	13.052	1.515	0.000	1.070	1.829
			16:COM3	16:COM3	16:COM3	-	24:COM11	24:COM17
			-1.604	-0.020	-1.383	-5.930	-1.097	-21.220
			26:COM13	26:COM13	26:COM13	34:CVOL3	18:COM5	18:COM5
1969	1066	+ve	27.503	0.000	4.290	6.908	0.918	23.436
			16:COM3	-	20:COM7	34:CVOL3	28:COM15	16:COM3
			-20.657	-20.223	-1.104	0.000	-3.923	-13.552
			26:COM13	18:COM5	30:COM17	-	22:COM9	26:COM13
	355	-ve	27.503	0.000	4.290	6.908	4.703	64.408
			16:COM3	-	20:COM7	34:CVOL3	20:COM7	16:COM3
			-20.657	-21.909	-1.104	0.000	-1.495	-8.402
			26:COM13	18:COM5	30:COM17	-	30:COM17	26:COM13
1970	1067	+ve	20.059	0.341	1.696	5.059	1.453	1.184
			16:COM3	24:COM11	16:COM3	20:COM7	24:COM11	24:COM17
			-13.045	-13.781	-1.709	0.000	-1.473	-20.657
			26:COM13	18:COM5	26:COM13	-	18:COM5	18:COM5
	1066	-ve	20.059	0.000	1.696	5.059	1.836	23.283
			16:COM3	-	16:COM3	20:COM7	16:COM3	16:COM3
			-13.045	-15.468	-1.709	0.000	-1.880	-13.671
			26:COM13	18:COM5	26:COM13	-	26:COM13	26:COM13
1971	1068	+ve	15.092	3.242	0.703	2.144	0.593	0.000
			16:COM3	24:COM11	24:COM11	20:COM7	16:COM3	-
			-9.096	-6.891	-0.725	-0.215	-0.556	-23.361
			26:COM13	18:COM5	18:COM5	30:COM17	26:COM13	35:CVOL4
	1067	-ve	15.092	1.977	0.703	2.144	0.816	1.172
			16:COM3	24:COM11	24:COM11	20:COM7	24:COM11	24:COM17
			-9.096	-8.578	-0.725	-0.215	-0.822	-20.841
			26:COM13	18:COM5	18:COM5	30:COM17	18:COM5	18:COM5

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
1972	1069	+ve	8.053	8.419	0.558	0.000	0.410	2.204
			16:COM3	16:COM3	16:COM3	-	24:COM11	24:COM1
			-2.179	-1.850	-0.473	-2.117	-0.517	-21.926
			26:COM1	26:COM1	26:COM1	34:CVOL	18:COM5	18:COM5
	1068	-ve	8.053	6.732	0.558	0.000	0.571	0.000
			16:COM3	16:COM3	16:COM3	-	16:COM3	-
			-2.179	-3.115	-0.473	-2.117	-0.513	-23.356
			26:COM1	26:COM1	26:COM1	34:CVOL	26:COM1	35:CVOL
1973	1070	+ve	7.060	14.612	1.782	0.000	1.651	22.847
			16:COM3	16:COM3	16:COM3	-	24:COM11	16:COM3
			-0.238	0.000	-1.453	-5.081	-2.148	-13.906
			26:COM1	-	26:COM1	34:CVOL	18:COM5	26:COM1
	1069	-ve	7.060	12.925	1.782	0.000	1.331	2.284
			16:COM3	16:COM3	16:COM3	-	16:COM3	24:COM1
			-0.238	0.000	-1.453	-5.081	-1.185	-21.790
			26:COM1	-	26:COM1	34:CVOL	26:COM1	18:COM5
1976	1073	+ve	52.232	20.312	6.142	4.931	9.502	9.971
			20:COM7	24:COM11	24:COM11	28:COM1	16:COM3	28:COM1
			-46.895	-20.422	-10.844	-17.015	-5.443	-12.049
			30:COM1	18:COM5	18:COM5	22:COM9	26:COM1	22:COM9
	228	-ve	52.232	19.025	6.142	4.931	6.739	42.933
			20:COM7	24:COM11	24:COM11	28:COM1	24:COM11	16:COM3
			-46.895	-22.138	-10.844	-17.015	-12.005	-41.815
			30:COM1	18:COM5	18:COM5	22:COM9	18:COM5	26:COM1
1977	1074	+ve	53.097	6.653	4.873	1.057	4.732	8.918
			20:COM7	24:COM11	28:COM1	28:COM1	20:COM7	28:COM1
			-46.560	-4.999	-5.798	-4.083	-3.878	-10.895
			30:COM1	18:COM5	22:COM9	22:COM9	30:COM1	22:COM9
	1073	-ve	53.097	5.366	4.873	1.057	5.788	9.476
			20:COM7	24:COM11	28:COM1	28:COM1	28:COM1	28:COM1
			-46.560	-6.715	-5.798	-4.083	-6.768	-11.756
			30:COM1	18:COM5	22:COM9	22:COM9	22:COM9	22:COM9
1978	1075	+ve	50.256	4.739	1.426	2.999	1.509	7.414
			20:COM7	20:COM7	28:COM1	16:COM3	20:COM7	24:COM1
			-43.210	-1.679	-1.892	-2.269	-0.855	-6.390
			30:COM1	30:COM1	22:COM9	26:COM1	30:COM1	18:COM5
	1074	-ve	50.256	3.024	1.426	2.999	1.983	8.458
			20:COM7	20:COM7	28:COM1	16:COM3	28:COM1	28:COM1
			-43.210	-2.966	-1.892	-2.269	-2.253	-10.525
			30:COM1	30:COM1	22:COM9	26:COM1	22:COM9	22:COM9
1979	1076	+ve	46.702	2.418	0.833	0.378	2.875	7.242
			20:COM7	16:COM3	24:COM11	16:COM3	16:COM3	16:COM3
			-38.277	0.000	-2.178	0.000	-1.149	-3.870
			30:COM1	-	18:COM5	-	26:COM1	26:COM1
	1075	-ve	46.702	0.703	0.833	0.378	0.511	7.284
			20:COM7	16:COM3	24:COM11	16:COM3	24:COM11	24:COM1
			-38.277	-1.048	-2.178	0.000	-1.452	-6.204
			30:COM1	26:COM1	18:COM5	-	18:COM5	18:COM5

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
1980	1077	+ve	43.742	4.731	1.084	2.430	2.940	14.087
			20:COM7	20:COM7	24:COM11	24:COM11	16:COM3	16:COM3
			-32.675	-1.241	-3.073	-3.512	-0.882	-6.875
			30:COM17	30:COM17	18:COM5	18:COM5	26:COM13	26:COM13
	1076	-ve	43.742	3.015	1.084	2.430	1.270	7.113
			20:COM7	20:COM7	24:COM11	24:COM11	24:COM11	16:COM3
			-32.675	-2.527	-3.073	-3.512	-3.158	-3.846
			30:COM17	30:COM17	18:COM5	18:COM5	18:COM5	26:COM13
1981	1078	+ve	41.598	3.774	1.135	4.854	2.125	19.980
			20:COM7	16:COM3	28:COM15	24:COM11	20:COM7	16:COM3
			-27.053	-0.985	-1.431	-6.974	-2.079	-10.069
			30:COM17	26:COM13	22:COM9	18:COM5	30:COM17	26:COM13
	1077	-ve	41.598	2.059	1.135	4.854	0.201	14.470
			20:COM7	16:COM3	28:COM15	24:COM11	28:COM15	16:COM3
			-27.053	-2.271	-1.431	-6.974	-0.741	-7.114
			30:COM17	26:COM13	22:COM9	18:COM5	22:COM9	26:COM13
1982	1079	+ve	41.557	3.847	2.747	3.531	2.223	13.244
			16:COM3	24:COM11	20:COM7	24:COM11	28:COM15	28:COM15
			-39.484	-17.853	-2.521	-11.591	-2.364	-15.533
			26:COM13	18:COM5	30:COM17	18:COM5	22:COM9	22:COM9
	151	-ve	41.557	2.623	2.747	3.531	2.821	38.814
			16:COM3	24:COM11	20:COM7	24:COM11	20:COM7	16:COM3
			-39.484	-19.486	-2.521	-11.591	-2.536	-11.980
			26:COM13	18:COM5	30:COM17	18:COM5	30:COM17	26:COM13
1983	1080	+ve	42.765	4.585	2.718	1.251	2.574	6.206
			16:COM3	24:COM11	20:COM7	28:COM15	28:COM15	28:COM15
			-39.089	-7.190	-2.606	-4.761	-2.565	-16.452
			26:COM13	18:COM5	30:COM17	22:COM9	22:COM9	22:COM9
	1079	-ve	42.765	3.361	2.718	1.251	2.564	13.043
			16:COM3	24:COM11	20:COM7	28:COM15	20:COM7	28:COM15
			-39.089	-8.821	-2.606	-4.761	-2.343	-15.680
			26:COM13	18:COM5	30:COM17	22:COM9	30:COM17	22:COM9
1984	1081	+ve	43.845	11.743	5.794	3.084	6.264	9.056
			16:COM3	20:COM7	20:COM7	16:COM3	28:COM15	24:COM11
			-36.877	-6.683	-5.648	-0.816	-6.220	-12.906
			26:COM13	30:COM17	30:COM17	26:COM13	22:COM9	18:COM5
	1080	-ve	43.845	10.111	5.794	3.084	4.711	6.130
			16:COM3	20:COM7	20:COM7	16:COM3	20:COM7	28:COM15
			-36.877	-7.907	-5.648	-0.816	-4.392	-16.832
			26:COM13	30:COM17	30:COM17	26:COM13	30:COM17	22:COM9
1985	1082	+ve	57.716	27.813	4.626	5.513	6.283	7.672
			20:COM7	20:COM7	28:COM15	28:COM15	20:COM7	24:COM11
			-50.147	-20.773	-7.654	-13.217	-3.393	-12.928
			30:COM17	30:COM17	22:COM9	22:COM9	30:COM17	18:COM5
	230	-ve	57.716	26.414	4.626	5.513	5.643	39.712
			20:COM7	28:COM15	28:COM15	28:COM15	28:COM15	28:COM15
			-50.147	-22.331	-7.654	-13.217	-8.668	-55.831
			30:COM17	22:COM9	22:COM9	22:COM9	22:COM9	22:COM9

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
1986	1083	+ve	60.384	12.231	1.241	2.430	1.423	17.500
			20:COM7	16:COM3	24:COM11	20:COM7	16:COM3	20:COM7
			-50.837	-5.835	-1.795	-0.944	-0.850	-13.301
			30:COM17	26:COM13	18:COM5	30:COM17	26:COM13	30:COM17
	1082	-ve	60.384	10.538	1.241	2.430	1.610	7.577
			20:COM7	16:COM3	24:COM11	20:COM7	28:COM15	24:COM17
			-50.837	-7.106	-1.795	-0.944	-2.122	-13.001
			30:COM17	26:COM13	18:COM5	30:COM17	22:COM9	18:COM5
1987	1084	+ve	38.321	18.888	5.676	2.075	9.724	15.222
			16:COM3	28:COM15	24:COM11	28:COM15	16:COM3	16:COM3
			-33.446	-24.000	-11.195	-24.079	-4.685	-5.830
			26:COM13	22:COM9	18:COM5	22:COM9	26:COM13	26:COM13
	231	-ve	38.321	17.618	5.676	2.075	6.425	57.672
			16:COM3	28:COM15	24:COM11	28:COM15	24:COM11	20:COM7
			-33.446	-25.693	-11.195	-24.079	-12.187	-35.375
			26:COM13	22:COM9	18:COM5	22:COM9	18:COM5	30:COM17
1988	1085	+ve	37.474	4.017	3.661	0.000	4.384	7.990
			16:COM3	28:COM15	24:COM11	-	16:COM3	28:COM15
			-31.638	-9.782	-5.331	-12.686	-2.810	-13.253
			26:COM13	22:COM9	18:COM5	35:CVOL4	26:COM13	22:COM9
	1084	-ve	37.474	2.747	3.661	0.000	4.357	14.859
			16:COM3	28:COM15	24:COM11	-	24:COM11	16:COM3
			-31.638	-11.476	-5.331	-12.686	-6.051	-5.936
			26:COM13	22:COM9	18:COM5	35:CVOL4	18:COM5	26:COM13
1989	1086	+ve	32.666	0.368	1.720	0.000	2.132	4.705
			20:COM7	24:COM11	24:COM11	-	16:COM3	28:COM15
			-28.458	-3.377	-2.244	-7.990	-1.475	-19.137
			30:COM17	18:COM5	18:COM5	22:COM9	26:COM13	22:COM9
	1085	-ve	32.666	0.000	1.720	0.000	1.893	7.458
			20:COM7	-	24:COM11	-	24:COM11	28:COM15
			-28.458	-5.070	-2.244	-7.990	-2.261	-13.101
			30:COM17	18:COM5	18:COM5	22:COM9	18:COM5	22:COM9
1990	1087	+ve	34.839	1.240	1.474	2.024	1.703	4.423
			20:COM7	16:COM3	24:COM11	16:COM3	16:COM3	28:COM15
			-32.310	-0.051	-1.634	-1.822	-1.352	-19.558
			30:COM17	26:COM13	18:COM5	26:COM13	26:COM13	22:COM9
	1086	-ve	34.839	0.000	1.474	2.024	1.543	4.531
			20:COM7	-	24:COM11	16:COM3	16:COM3	28:COM15
			-32.310	-1.622	-1.634	-1.822	-1.504	-19.093
			30:COM17	18:COM5	18:COM5	26:COM13	26:COM13	22:COM9
1991	1088	+ve	40.100	4.781	2.094	8.343	2.183	7.473
			20:COM7	16:COM3	16:COM3	16:COM3	24:COM11	28:COM15
			-37.535	0.000	-1.988	0.000	-2.111	-14.343
			30:COM17	-	26:COM13	-	18:COM5	22:COM9
	1087	-ve	40.100	3.088	2.094	8.343	1.988	4.601
			20:COM7	16:COM3	16:COM3	16:COM3	16:COM3	28:COM15
			-37.535	-0.402	-1.988	0.000	-1.709	-19.629
			30:COM17	26:COM13	26:COM13	-	26:COM13	22:COM9

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
1992	1089	+ve	48.215	11.642	5.243	12.663	5.198	14.891
			20:COM7	16:COM3	16:COM3	35:CVOL4	24:COM11	16:COM3
			-44.673	-1.993	-4.412	0.000	-5.935	-5.490
			30:COM17	26:COM13	26:COM13	-	18:COM5	26:COM13
	1088	-ve	48.215	9.949	5.243	12.663	4.329	7.950
			20:COM7	16:COM3	16:COM3	35:CVOL4	16:COM3	28:COM15
			-44.673	-3.263	-4.412	0.000	-3.439	-14.536
			30:COM17	26:COM13	26:COM13	-	26:COM13	22:COM9
1993	1090	+ve	45.498	21.636	9.656	4.905	11.267	12.401
			16:COM3	28:COM15	24:COM11	28:COM15	16:COM3	16:COM3
			-43.895	-29.493	-12.912	-23.610	-8.510	-6.317
			26:COM13	22:COM9	18:COM5	22:COM9	26:COM13	26:COM13
	232	-ve	45.498	20.357	9.656	4.905	10.539	67.007
			16:COM3	28:COM15	24:COM11	28:COM15	24:COM11	20:COM7
			-43.895	-31.199	-12.912	-23.610	-14.205	-42.481
			26:COM13	22:COM9	18:COM5	22:COM9	18:COM5	30:COM17
1994	1091	+ve	48.908	5.153	5.974	0.000	4.869	8.526
			16:COM3	28:COM15	24:COM11	-	16:COM3	28:COM15
			-47.461	-9.634	-6.142	-9.984	-4.519	-14.308
			26:COM13	22:COM9	18:COM5	34:CVOL3	26:COM13	22:COM9
	1090	-ve	48.908	3.874	5.974	0.000	7.267	12.426
			16:COM3	28:COM15	24:COM11	-	24:COM11	16:COM3
			-47.461	-11.341	-6.142	-9.984	-7.249	-6.421
			26:COM13	22:COM9	18:COM5	34:CVOL3	18:COM5	26:COM13
1995	1092	+ve	38.293	0.639	2.825	0.166	2.734	6.272
			16:COM3	24:COM11	24:COM11	28:COM15	16:COM3	28:COM15
			-38.487	-1.762	-2.895	-7.303	-2.480	-17.310
			26:COM13	18:COM5	18:COM5	22:COM9	26:COM13	22:COM9
	1091	-ve	38.293	0.000	2.825	0.166	3.106	8.045
			16:COM3	-	24:COM11	28:COM15	16:COM3	28:COM15
			-38.487	-3.468	-2.895	-7.303	-2.991	-13.924
			26:COM13	18:COM5	18:COM5	22:COM9	26:COM13	22:COM9
1996	1093	+ve	29.112	1.250	2.191	2.343	2.310	5.903
			16:COM3	16:COM3	24:COM11	24:COM11	16:COM3	28:COM15
			-29.796	0.000	-2.276	-2.816	-2.026	-16.551
			26:COM13	-	18:COM5	18:COM5	26:COM13	22:COM9
	1092	-ve	29.112	0.000	2.191	2.343	2.331	6.103
			16:COM3	-	24:COM11	24:COM11	16:COM3	28:COM15
			-29.796	-0.977	-2.276	-2.816	-2.214	-17.165
			26:COM13	18:COM5	18:COM5	18:COM5	26:COM13	22:COM9
1997	1094	+ve	21.753	3.793	2.128	6.431	2.443	8.105
			20:COM7	16:COM3	24:COM11	16:COM3	16:COM3	28:COM15
			-21.571	0.000	-2.243	-0.192	-2.124	-12.873
			30:COM17	-	18:COM5	26:COM13	26:COM13	22:COM9
	1093	-ve	21.753	2.086	2.128	6.431	2.119	6.052
			20:COM7	16:COM3	24:COM11	16:COM3	16:COM3	28:COM15
			-21.571	-0.638	-2.243	-0.192	-2.027	-16.622
			30:COM17	26:COM13	18:COM5	26:COM13	26:COM13	22:COM9

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
1998	1095	+ve	23.275	9.982	4.318	9.684	5.351	13.373
			20:COM7	16:COM3	24:COM11	35:CVOL4	16:COM3	16:COM3
			-20.614	-2.762	-4.317	0.000	-5.122	-6.676
			30:COM17	26:COM13	18:COM5	-	26:COM13	26:COM13
	1094	-ve	23.275	8.276	4.318	9.684	3.459	8.548
			20:COM7	16:COM3	24:COM11	35:CVOL4	16:COM3	28:COM15
			-20.614	-4.041	-4.317	0.000	-3.227	-13.151
			30:COM17	26:COM13	18:COM5	-	26:COM13	22:COM9
1999	1096	+ve	35.355	39.056	9.383	2.929	9.079	16.659
			24:COM17	20:COM7	24:COM11	28:COM15	16:COM3	20:COM7
			-45.627	-30.469	-11.395	-8.425	-6.985	-11.410
			18:COM5	30:COM17	18:COM5	22:COM9	26:COM13	30:COM17
	233	-ve	35.355	37.351	9.383	2.929	11.513	50.179
			24:COM17	20:COM7	24:COM11	28:COM15	24:COM11	20:COM7
			-45.627	-31.748	-11.395	-8.425	-13.384	-58.915
			18:COM5	30:COM17	18:COM5	22:COM9	18:COM5	30:COM17
2000	1097	+ve	30.528	1.955	1.817	5.345	1.025	12.933
			24:COM17	16:COM3	24:COM11	24:COM17	16:COM3	20:COM7
			-40.598	-1.212	-2.294	-5.782	-0.625	-9.337
			18:COM5	26:COM13	18:COM5	18:COM5	26:COM13	30:COM17
	1096	-ve	30.528	0.675	1.817	5.345	2.991	15.461
			24:COM17	24:COM11	24:COM11	24:COM17	24:COM11	20:COM7
			-40.598	-2.915	-2.294	-5.782	-3.529	-10.390
			18:COM5	18:COM5	18:COM5	18:COM5	18:COM5	30:COM17
2001	1098	+ve	22.673	3.171	1.467	3.027	1.476	6.084
			24:COM17	20:COM7	24:COM11	24:COM17	16:COM3	20:COM7
			-33.260	-2.517	-1.593	-3.321	-1.244	-4.088
			18:COM5	30:COM17	18:COM5	18:COM5	26:COM13	30:COM17
	1097	-ve	22.673	1.834	1.467	3.027	1.649	12.604
			24:COM17	28:COM15	24:COM11	24:COM17	24:COM11	20:COM7
			-33.260	-4.163	-1.593	-3.321	-1.666	-8.957
			18:COM5	22:COM9	18:COM5	18:COM5	18:COM5	30:COM17
2002	1099	+ve	23.021	1.359	2.694	1.376	2.257	7.245
			28:COM15	28:COM15	16:COM3	24:COM17	24:COM11	28:COM15
			-30.723	-0.252	-2.079	-2.022	-3.161	-5.872
			22:COM9	22:COM9	26:COM13	18:COM5	18:COM5	22:COM9
	1098	-ve	23.021	0.080	2.694	1.376	2.154	6.151
			28:COM15	28:COM15	16:COM3	24:COM17	16:COM3	20:COM7
			-30.723	-1.957	-2.079	-2.022	-1.847	-4.018
			22:COM9	22:COM9	26:COM13	18:COM5	26:COM13	30:COM17
2003	1100	+ve	23.012	2.851	2.533	0.960	0.621	11.339
			28:COM15	28:COM15	16:COM3	28:COM15	24:COM11	28:COM15
			-30.786	-1.985	-1.205	-1.573	-1.782	-11.039
			22:COM9	22:COM9	26:COM13	22:COM9	18:COM5	22:COM9
	1099	-ve	23.012	1.573	2.533	0.960	3.251	7.495
			28:COM15	28:COM15	16:COM3	28:COM15	16:COM3	28:COM15
			-30.786	-3.690	-1.205	-1.573	-1.796	-5.962
			22:COM9	22:COM9	26:COM13	22:COM9	26:COM13	22:COM9

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
2004	1101	+ve	24.621	6.268	4.811	2.789	5.261	7.700
			28:COM15	16:COM3	16:COM3	16:COM3	24:COM11	24:COM11
			-30.764	-5.783	-3.624	-1.384	-6.258	-9.331
			22:COM9	26:COM13	26:COM13	26:COM13	18:COM5	18:COM5
	1100	-ve	24.621	4.728	4.811	2.789	3.231	11.854
			28:COM15	24:COM11	16:COM3	16:COM3	16:COM3	28:COM15
			-30.764	-7.226	-3.624	-1.384	-1.889	-11.501
			22:COM9	18:COM5	26:COM13	26:COM13	26:COM13	22:COM9
2006	1103	+ve	33.558	34.491	8.462	12.763	10.160	38.001
			24:COM11	20:COM7	24:COM11	28:COM15	16:COM3	20:COM7
			-41.657	-21.590	-10.416	-22.972	-8.202	-27.282
			18:COM5	30:COM17	18:COM5	22:COM9	26:COM13	30:COM17
	5495	-ve	33.558	32.746	8.462	12.763	8.864	30.395
			24:COM11	20:COM7	24:COM11	28:COM15	24:COM11	24:COM11
			-41.657	-22.898	-10.416	-22.972	-10.848	-42.614
			18:COM5	30:COM17	18:COM5	22:COM9	18:COM5	18:COM5
2008	1105	+ve	20.151	1.133	0.183	1.254	0.371	0.000
			16:COM3	24:COM11	24:COM11	28:COM15	24:COM11	-
			-12.414	-12.430	-0.303	-1.904	-0.415	-21.050
			26:COM13	18:COM5	18:COM5	22:COM9	18:COM5	18:COM5
	1104	-ve	20.151	0.000	0.183	1.254	0.025	17.470
			16:COM3	-	24:COM11	28:COM15	24:COM11	16:COM3
			-12.414	-14.212	-0.303	-1.904	-0.316	-14.769
			26:COM13	18:COM5	18:COM5	22:COM9	18:COM5	26:COM13
2009	1106	+ve	12.188	3.782	0.182	0.409	0.460	0.000
			16:COM3	24:COM11	24:COM11	24:COM11	16:COM3	-
			-3.566	-8.663	-0.302	-0.789	-0.345	-29.563
			26:COM13	18:COM5	18:COM5	18:COM5	26:COM13	18:COM5
	1105	-ve	12.188	2.445	0.182	0.409	0.203	0.000
			16:COM3	24:COM11	24:COM11	24:COM11	28:COM15	-
			-3.566	-10.444	-0.302	-0.789	-0.334	-21.095
			26:COM13	18:COM5	18:COM5	18:COM5	22:COM9	18:COM5
2010	1107	+ve	9.817	24.059	0.677	1.603	0.622	15.544
			20:COM7	16:COM3	16:COM3	20:COM7	24:COM11	24:COM11
			-0.976	0.000	-0.408	-1.520	-1.168	-18.795
			30:COM17	-	26:COM13	30:COM17	18:COM5	18:COM5
	1106	-ve	9.817	5.510	0.677	1.603	0.288	0.000
			20:COM7	24:COM11	16:COM3	20:COM7	16:COM3	-
			-0.976	-5.528	-0.408	-1.520	-0.280	-29.620
			30:COM17	18:COM5	26:COM13	30:COM17	26:COM13	18:COM5
2074	998	+ve	2.553	7.506	0.039	0.104	0.093	6.860
			16:COM3	20:COM7	28:COM15	28:COM15	20:COM7	20:COM7
			-1.761	0.000	-0.048	-0.123	-0.074	0.000
			26:COM13	-	22:COM9	22:COM9	30:COM17	-
	6062	-ve	2.553	0.000	0.039	0.104	0.071	5.794
			16:COM3	-	28:COM15	28:COM15	28:COM15	20:COM7
			-1.761	-5.725	-0.048	-0.123	-0.086	-3.416
			26:COM13	22:COM9	22:COM9	22:COM9	22:COM9	30:COM17

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
2077	1006	+ve	5.429	7.626	0.021	0.168	0.020	10.899
			28:COM15	20:COM7	16:COM3	28:COM15	24:COM11	20:COM7
			-9.713	-1.058	-0.012	-0.303	-0.039	-6.748
			22:COM9	30:COM17	26:COM13	22:COM9	18:COM5	30:COM17
	6114	-ve	5.429	0.676	0.021	0.168	0.046	8.533
			28:COM15	28:COM15	16:COM3	28:COM15	16:COM3	20:COM7
			-9.713	-8.123	-0.012	-0.303	-0.032	-2.572
			22:COM9	22:COM9	26:COM13	22:COM9	26:COM13	30:COM17
2078	5478	+ve	10.400	14.869	1.956	3.997	0.194	9.347
			24:COM17	20:COM7	16:COM3	16:COM3	28:COM15	28:COM15
			-41.388	-15.478	-0.374	-2.180	-1.409	-11.641
			18:COM5	30:COM17	26:COM13	26:COM13	22:COM9	22:COM9
	5527	-ve	10.400	12.088	1.956	3.997	2.613	20.866
			24:COM17	28:COM15	16:COM3	16:COM3	16:COM3	20:COM7
			-41.388	-20.738	-0.374	-2.180	-0.980	-14.827
			18:COM5	22:COM9	26:COM13	26:COM13	26:COM13	30:COM17
2083	230	+ve	24.382	1.817	27.717	6.280	6.905	0.000
			20:COM7	28:COM15	16:COM3	16:COM3	24:COM11	-
			-18.096	-12.011	-16.435	-2.058	-11.593	-11.463
			30:COM17	22:COM9	26:COM13	26:COM13	18:COM5	22:COM9
	385	-ve	24.382	0.480	27.717	6.280	13.356	0.692
			20:COM7	28:COM15	16:COM3	16:COM3	16:COM3	20:COM7
			-18.096	-14.694	-16.435	-2.058	-7.889	-1.601
			30:COM17	22:COM9	26:COM13	26:COM13	26:COM13	30:COM17
2084	385	+ve	0.000	3.026	1.885	1.391	1.348	1.950
			-	28:COM15	16:COM3	24:COM17	24:COM11	28:COM15
			-73.660	-8.702	-1.483	-2.029	-2.232	-10.528
			22:COM9	22:COM9	26:COM13	18:COM5	18:COM5	22:COM9
	386	-ve	0.000	0.000	1.885	1.391	2.492	20.545
			-	-	16:COM3	24:COM17	16:COM3	20:COM7
			-73.660	-16.154	-1.483	-2.029	-2.371	-0.974
			22:COM9	22:COM9	26:COM13	18:COM5	26:COM13	30:COM17
2085	386	+ve	0.000	3.976	6.321	1.668	7.624	1.931
			-	28:COM15	24:COM11	24:COM17	16:COM3	28:COM15
			-33.433	-29.432	-7.401	-3.984	-6.581	-25.009
			22:COM9	22:COM9	18:COM5	18:COM5	26:COM13	22:COM9
	208	-ve	0.000	1.525	6.321	1.668	3.848	27.618
			-	28:COM15	24:COM11	24:COM17	24:COM11	20:COM7
			-33.433	-34.350	-7.401	-3.984	-4.589	-2.616
			22:COM9	22:COM9	18:COM5	18:COM5	18:COM5	30:COM17
2212	1131	+ve	58.416	9.823	12.758	1.326	5.712	2.709
			20:COM7	24:COM11	28:COM15	28:COM15	20:COM7	28:COM15
			-48.193	-10.500	-15.020	-5.251	-4.776	-4.618
			30:COM17	18:COM5	22:COM9	22:COM9	30:COM17	22:COM9
	202	-ve	58.416	9.388	12.758	1.326	5.938	8.259
			20:COM7	24:COM11	28:COM15	28:COM15	28:COM15	24:COM17
			-48.193	-11.080	-15.020	-5.251	-6.900	-9.174
			30:COM17	18:COM5	22:COM9	22:COM9	22:COM9	18:COM5

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
2213	1131	+ve	53.558	36.643	4.742	5.786	6.556	39.496
			20:COM7	20:COM7	20:COM7	16:COM3	20:COM7	20:COM7
			-47.820	-15.683	-4.516	-4.220	-6.687	-17.730
			30:COM1	30:COM1	30:COM1	26:COM1	30:COM1	30:COM1
	152	-ve	53.558	31.344	4.742	5.786	5.129	24.767
			20:COM7	20:COM7	20:COM7	16:COM3	20:COM7	28:COM1
			-47.820	-18.541	-4.516	-4.220	-4.701	-44.913
			30:COM1	30:COM1	30:COM1	26:COM1	30:COM1	22:COM9
2267	155	+ve	10.204	25.372	0.033	1.401	0.026	39.953
			16:COM3	20:COM7	16:COM3	16:COM3	24:COM1	20:COM7
			-3.748	0.000	-0.021	0.000	-0.054	0.000
			26:COM1	-	26:COM1	-	18:COM5	-
	6430	-ve	10.204	17.735	0.033	1.401	0.039	0.000
			16:COM3	20:COM7	16:COM3	16:COM3	16:COM3	-
			-3.748	0.000	-0.021	0.000	-0.035	-23.781
			26:COM1	-	26:COM1	-	26:COM1	35:CVOL4
2377	1149	+ve	0.000	0.817	0.250	0.000	0.000	0.000
			-	32:CVOL1	34:CVOL3	-	-	-
			-3.459	-1.616	0.000	-1.615	-0.350	-4.071
			22:COM9	35:CVOL4	-	22:COM9	34:CVOL3	22:COM9
	1151	-ve	0.000	0.000	0.250	0.000	0.417	7.031
			-	-	34:CVOL3	-	34:CVOL3	32:CVOL1
			-3.459	-7.545	0.000	-1.615	0.000	0.000
			22:COM9	32:CVOL1	-	22:COM9	-	-
2379	1149	+ve	2.101	1.616	7.344	3.505	0.000	0.000
			34:CVOL3	35:CVOL4	34:CVOL3	20:COM7	-	-
			0.000	-0.817	0.000	0.000	-0.384	-2.625
			-	32:CVOL1	-	-	34:CVOL3	22:COM9
	1566	-ve	2.101	1.422	7.344	3.505	1.111	0.000
			34:CVOL3	35:CVOL4	34:CVOL3	20:COM7	34:CVOL3	-
			0.000	-1.043	0.000	0.000	0.000	-2.649
			-	32:CVOL1	-	-	-	22:COM9
2380	1142	+ve	0.000	15.356	0.040	0.781	0.247	50.712
			-	34:CVOL3	24:COM1	34:CVOL3	16:COM3	20:COM7
			-15.168	0.000	-0.273	0.000	-0.093	0.000
			22:COM9	-	18:COM5	-	26:COM1	-
	1522	-ve	0.000	13.464	0.040	0.781	0.000	22.983
			-	34:CVOL3	24:COM1	34:CVOL3	28:COM1	20:COM7
			-15.168	0.000	-0.273	0.000	-0.310	0.000
			22:COM9	-	18:COM5	-	22:COM9	-
2381	1141	+ve	2.706	9.992	0.191	0.819	0.244	24.822
			24:COM1	20:COM7	20:COM7	20:COM7	28:COM1	20:COM7
			-21.979	0.000	-0.137	-0.131	-0.344	-7.422
			18:COM5	-	30:COM1	30:COM1	22:COM9	30:COM1
	1528	-ve	2.706	8.199	0.191	0.819	0.077	7.870
			24:COM1	20:COM7	20:COM7	20:COM7	24:COM1	20:COM7
			-21.979	-0.570	-0.137	-0.131	-0.077	-7.773
			18:COM5	30:COM1	30:COM1	30:COM1	18:COM5	30:COM1

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
2382	1142	+ve	40.416	0.000	0.379	0.000	7.720	0.000
			16:COM3	-	28:COM15	-	20:COM7	-
			0.000	-32.316	-4.706	-19.251	-0.224	-4.343
			-	34:CVOL3	22:COM9	34:CVOL3	30:COM17	18:COM5
	322	-ve	40.416	0.000	0.379	0.000	0.935	116.091
			16:COM3	-	28:COM15	-	28:COM15	34:CVOL3
			0.000	-46.206	-4.706	-19.251	-6.652	0.000
			-	34:CVOL3	22:COM9	34:CVOL3	22:COM9	-
2383	1141	+ve	32.850	0.000	3.775	9.393	4.104	0.000
			35:CVOL4	-	20:COM7	28:COM15	28:COM15	-
			0.000	-21.073	-2.854	-22.271	-5.360	-12.231
			-	22:COM9	30:COM17	22:COM9	22:COM9	35:CVOL4
	317	-ve	32.850	0.000	3.775	9.393	6.169	73.531
			35:CVOL4	-	20:COM7	28:COM15	20:COM7	20:COM7
			0.000	-34.818	-2.854	-22.271	-4.612	0.000
			-	22:COM9	30:COM17	22:COM9	30:COM17	-
2384	1140	+ve	18.669	0.000	1.694	14.476	3.597	0.000
			16:COM3	-	24:COM11	20:COM7	16:COM3	-
			0.000	-19.671	-2.096	-12.521	-2.971	-6.727
			-	22:COM9	18:COM5	30:COM17	26:COM13	18:COM5
	245	-ve	18.669	0.000	1.694	14.476	2.276	74.712
			16:COM3	-	24:COM11	20:COM7	24:COM11	20:COM7
			0.000	-33.561	-2.096	-12.521	-2.877	0.000
			-	34:CVOL3	18:COM5	30:COM17	18:COM5	-
2385	1151	+ve	5.201	2.051	0.034	0.000	0.000	0.000
			16:COM3	32:CVOL1	34:CVOL3	-	-	-
			-0.110	-2.636	0.000	-2.413	-0.114	-30.187
			26:COM13	35:CVOL4	-	34:CVOL3	34:CVOL3	22:COM9
	1152	-ve	5.201	0.000	0.034	0.000	0.099	47.392
			16:COM3	-	34:CVOL3	-	34:CVOL3	34:CVOL3
			-0.110	-24.396	0.000	-2.413	0.000	0.000
			26:COM13	34:CVOL3	-	34:CVOL3	-	-
2386	322	+ve	173.563	87.735	2.834	18.109	9.352	358.071
			34:CVOL3	34:CVOL3	28:COM15	34:CVOL3	20:COM7	34:CVOL3
			0.000	0.000	-8.003	0.000	-1.509	0.000
			-	-	22:COM9	-	30:COM17	-
	1470	-ve	173.563	85.146	2.834	18.109	3.325	216.922
			34:CVOL3	34:CVOL3	28:COM15	34:CVOL3	20:COM7	34:CVOL3
			0.000	0.000	-8.003	0.000	-3.923	0.000
			-	-	22:COM9	-	30:COM17	-
2387	1152	+ve	4.265	0.000	4.219	0.661	0.000	25.820
			16:COM3	-	20:COM7	28:COM15	-	34:CVOL3
			-4.145	-46.572	0.000	-2.973	-2.464	0.000
			26:COM13	34:CVOL3	-	22:COM9	22:COM9	-
	1156	-ve	4.265	0.000	4.219	0.661	2.889	88.142
			16:COM3	-	20:COM7	28:COM15	20:COM7	34:CVOL3
			-4.145	-51.677	0.000	-2.973	0.000	0.000
			26:COM13	34:CVOL3	-	22:COM9	-	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
2389	1156	+ve	50.129	0.000	0.000	43.282	14.172	0.938
			16:COM3	-	-	20:COM7	20:COM7	24:COM1
			0.000	-65.981	-11.217	0.000	0.000	-14.050
			-	34:CVOL3	22:COM9	-	-	18:COM5
	1577	-ve	50.129	0.000	0.000	43.282	0.000	172.784
			16:COM3	-	-	20:COM7	-	34:CVOL3
			0.000	-74.222	-11.217	0.000	-14.978	0.000
			-	34:CVOL3	22:COM9	-	22:COM9	-
2392	1156	+ve	6.769	14.304	0.045	0.299	0.000	36.740
			24:COM1	34:CVOL3	20:COM7	20:COM7	-	34:CVOL3
			-8.455	0.000	-0.003	-0.070	-0.201	0.000
			18:COM5	-	30:COM1	30:COM1	22:COM9	-
	6151	-ve	6.769	0.000	0.045	0.299	0.119	11.745
			24:COM1	-	20:COM7	20:COM7	20:COM7	20:COM7
			-8.455	-6.065	-0.003	-0.070	-0.040	-5.021
			18:COM5	32:CVOL1	30:COM1	30:COM1	30:COM1	30:COM1
2393	259	+ve	81.172	88.939	9.177	29.542	10.029	215.652
			20:COM7	20:COM7	16:COM3	16:COM3	24:COM1	20:COM7
			0.000	0.000	-7.295	-26.232	-13.681	0.000
			-	-	26:COM1	26:COM1	18:COM5	-
	6152	-ve	81.172	76.784	9.177	29.542	12.748	3.047
			20:COM7	20:COM7	16:COM3	16:COM3	16:COM3	24:COM1
			0.000	0.000	-7.295	-26.232	-10.982	-24.175
			-	-	26:COM1	26:COM1	26:COM1	18:COM5
2394	300	+ve	21.974	24.475	5.932	5.580	11.669	42.305
			20:COM7	20:COM7	24:COM1	24:COM1	16:COM3	20:COM7
			0.000	0.000	-7.890	-7.254	-8.413	0.000
			-	-	18:COM5	18:COM5	26:COM1	-
	1132	-ve	21.974	14.134	5.932	5.580	6.120	0.000
			20:COM7	20:COM7	24:COM1	24:COM1	24:COM1	-
			0.000	0.000	-7.890	-7.254	-7.660	-7.695
			-	-	18:COM5	18:COM5	18:COM5	22:COM9
2395	301	+ve	23.605	24.110	6.244	7.141	8.482	38.519
			20:COM7	32:CVOL1	16:COM3	24:COM1	24:COM1	33:CVOL2
			0.000	0.000	-6.024	-7.235	-8.914	0.000
			-	-	26:COM1	18:COM5	18:COM5	-
	1133	-ve	23.605	13.189	6.244	7.141	6.387	0.000
			20:COM7	32:CVOL1	16:COM3	24:COM1	16:COM3	-
			0.000	0.000	-6.024	-7.235	-6.280	-8.145
			-	-	26:COM1	18:COM5	26:COM1	22:COM9
2396	302	+ve	22.094	23.786	5.820	6.735	8.710	37.869
			20:COM7	33:CVOL2	24:COM1	24:COM1	16:COM3	33:CVOL2
			0.000	0.000	-6.233	-7.106	-8.138	0.000
			-	-	18:COM5	18:COM5	26:COM1	-
	1134	-ve	22.094	12.865	5.820	6.735	6.122	0.000
			20:COM7	33:CVOL2	24:COM1	24:COM1	24:COM1	-
			0.000	0.000	-6.233	-7.106	-6.560	-7.639
			-	-	18:COM5	18:COM5	18:COM5	22:COM9

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
2397	303	+ve	23.578	24.064	6.020	6.767	8.613	37.984
			20:COM7	32:CVOL1	24:COM11	24:COM11	16:COM3	33:CVOL2
			0.000	0.000	-6.124	-6.934	-8.465	0.000
			-	-	18:COM5	18:COM5	26:COM13	-
	1135	-ve	23.578	13.143	6.020	6.767	6.286	0.000
			20:COM7	32:CVOL1	24:COM11	24:COM11	24:COM11	-
			0.000	0.000	-6.124	-6.934	-6.393	-8.147
			-	-	18:COM5	18:COM5	18:COM5	22:COM9
2398	304	+ve	24.008	24.158	5.976	6.963	7.512	41.097
			20:COM7	33:CVOL2	16:COM3	24:COM11	24:COM11	20:COM7
			0.000	0.000	-5.290	-7.300	-8.414	0.000
			-	-	26:COM13	18:COM5	18:COM5	-
	1136	-ve	24.008	13.635	5.976	6.963	6.231	0.000
			20:COM7	20:COM7	16:COM3	24:COM11	16:COM3	-
			0.000	0.000	-5.290	-7.300	-5.454	-8.437
			-	-	26:COM13	18:COM5	26:COM13	22:COM9
2399	271	+ve	31.679	27.551	1.500	10.920	5.550	53.968
			20:COM7	16:COM3	24:COM11	16:COM3	16:COM3	20:COM7
			-9.286	0.000	-3.369	-0.811	-2.416	0.000
			30:COM17	-	18:COM5	26:COM13	26:COM13	-
	1138	-ve	31.679	14.888	1.500	10.920	2.804	0.154
			20:COM7	16:COM3	24:COM11	16:COM3	28:COM15	28:COM15
			-9.286	0.000	-3.369	-0.811	-5.276	-16.180
			30:COM17	-	18:COM5	26:COM13	22:COM9	22:COM9
2400	1150	+ve	0.000	1.080	0.372	0.284	0.000	0.296
			-	20:COM7	20:COM7	20:COM7	-	20:COM7
			-6.397	-0.976	0.000	-0.188	-0.322	-0.229
			18:COM5	30:COM17	-	30:COM17	22:COM9	30:COM17
	1137	-ve	0.000	0.011	0.372	0.284	0.278	2.468
			-	28:COM15	20:COM7	20:COM7	20:COM7	20:COM7
			-6.397	-2.355	0.000	-0.188	0.000	-0.598
			18:COM5	22:COM9	-	30:COM17	-	30:COM17
2401	1137	+ve	0.000	4.330	0.043	0.165	0.146	5.658
			-	20:COM7	24:COM11	28:COM15	16:COM3	20:COM7
			-4.339	0.000	-0.137	-0.388	-0.015	-2.601
			18:COM5	-	18:COM5	22:COM9	26:COM13	30:COM17
	1383	-ve	0.000	2.446	0.043	0.165	0.091	0.000
			-	20:COM7	24:COM11	28:COM15	24:COM11	-
			-4.339	-1.084	-0.137	-0.388	-0.163	-2.947
			18:COM5	30:COM17	18:COM5	22:COM9	18:COM5	18:COM5
2402	1132	+ve	3.673	6.825	0.072	0.242	0.324	15.877
			24:COM11	20:COM7	28:COM15	16:COM3	20:COM7	20:COM7
			-11.228	0.000	-0.241	-0.076	-0.063	0.000
			18:COM5	-	22:COM9	26:COM13	30:COM17	-
	1385	-ve	3.673	5.130	0.072	0.242	0.083	4.652
			24:COM11	20:COM7	28:COM15	16:COM3	28:COM15	16:COM3
			-11.228	0.000	-0.241	-0.076	-0.153	-3.683
			18:COM5	-	22:COM9	26:COM13	22:COM9	26:COM13

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
2403	1133	+ve	0.000	6.588	0.073	0.234	0.330	13.642
			-	32:CVOL1	24:COM11	16:COM3	16:COM3	16:COM3
			-10.704	0.000	-0.235	-0.101	-0.080	0.000
			22:COM9	-	18:COM5	26:COM13	26:COM13	-
	1390	-ve	0.000	4.635	0.073	0.234	0.062	3.441
			-	34:CVOL3	24:COM11	16:COM3	24:COM11	16:COM3
			-10.704	0.000	-0.235	-0.101	-0.128	-1.085
			22:COM9	-	18:COM5	26:COM13	18:COM5	26:COM13
2404	1134	+ve	2.909	6.439	0.070	0.229	0.314	13.594
			28:COM15	33:CVOL2	24:COM11	16:COM3	16:COM3	16:COM3
			-11.570	0.000	-0.223	-0.094	-0.077	0.000
			22:COM9	-	18:COM5	26:COM13	26:COM13	-
	1395	-ve	2.909	4.468	0.070	0.229	0.060	3.517
			28:COM15	20:COM7	24:COM11	16:COM3	24:COM11	16:COM3
			-11.570	0.000	-0.223	-0.094	-0.120	-1.347
			22:COM9	-	18:COM5	26:COM13	18:COM5	26:COM13
2405	1135	+ve	0.566	6.601	0.098	0.219	0.344	13.890
			28:COM15	32:CVOL1	24:COM11	16:COM3	16:COM3	16:COM3
			-15.322	0.000	-0.234	-0.091	-0.100	0.000
			22:COM9	-	18:COM5	26:COM13	26:COM13	-
	1400	-ve	0.566	4.645	0.098	0.219	0.092	3.634
			28:COM15	34:CVOL3	24:COM11	16:COM3	24:COM11	16:COM3
			-15.322	0.000	-0.234	-0.091	-0.113	-1.450
			22:COM9	-	18:COM5	26:COM13	18:COM5	26:COM13
2406	1136	+ve	2.000	7.172	0.056	0.249	0.318	14.808
			24:COM17	20:COM7	28:COM15	20:COM7	16:COM3	20:COM7
			-7.981	0.000	-0.261	-0.103	-0.049	0.000
			18:COM5	-	22:COM9	30:COM17	26:COM13	-
	1405	-ve	2.000	5.381	0.056	0.249	0.081	2.093
			24:COM17	20:COM7	28:COM15	20:COM7	28:COM15	24:COM17
			-7.981	0.000	-0.261	-0.103	-0.235	-2.629
			18:COM5	-	22:COM9	30:COM17	22:COM9	18:COM5
2407	1152	+ve	0.000	25.804	4.450	21.597	1.448	5.235
			-	16:COM3	20:COM7	34:CVOL3	28:COM15	20:COM7
			-28.700	0.000	-1.593	0.000	-3.836	-3.777
			18:COM5	-	30:COM17	-	22:COM9	30:COM17
	1559	-ve	0.000	22.422	4.450	21.597	4.866	0.000
			-	16:COM3	20:COM7	34:CVOL3	20:COM7	-
			-28.700	0.000	-1.593	0.000	-1.669	-43.731
			18:COM5	-	30:COM17	-	30:COM17	18:COM5
2408	1143	+ve	0.256	4.999	0.475	0.316	0.055	14.857
			24:COM17	20:COM7	20:COM7	20:COM7	28:COM15	16:COM3
			-10.607	0.000	-0.050	-0.116	-0.552	-2.164
			18:COM5	-	30:COM17	30:COM17	22:COM9	26:COM13
	1478	-ve	0.256	3.370	0.475	0.316	0.391	9.098
			24:COM17	20:COM7	20:COM7	20:COM7	20:COM7	16:COM3
			-10.607	0.000	-0.050	-0.116	-0.045	-6.285
			18:COM5	-	30:COM17	30:COM17	30:COM17	26:COM13

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
2409	1144	+ve	0.000	5.026	0.373	0.438	0.000	19.596
			-	33:CVOL2	20:COM7	16:COM3	-	16:COM3
			-20.413	0.000	0.000	-0.076	-0.447	-0.446
			22:COM9	-	-	26:COM1	22:COM9	26:COM1
	1484	-ve	0.000	3.310	0.373	0.438	0.288	12.427
			-	16:COM3	20:COM7	16:COM3	20:COM7	16:COM3
			-20.413	0.000	0.000	-0.076	-0.007	-6.088
			22:COM9	-	-	26:COM1	30:COM1	26:COM1
2410	1145	+ve	0.000	7.496	0.344	0.246	0.000	13.965
			-	16:COM3	20:COM7	16:COM3	-	16:COM3
			-15.489	0.000	0.000	-0.047	-0.417	0.000
			22:COM9	-	-	26:COM1	22:COM9	-
	1487	-ve	0.000	5.877	0.344	0.246	0.320	7.707
			-	16:COM3	20:COM7	16:COM3	16:COM3	16:COM3
			-15.489	0.000	0.000	-0.047	-0.020	-1.391
			22:COM9	-	-	26:COM1	26:COM1	26:COM1
2411	1146	+ve	14.930	4.781	4.613	11.255	0.398	0.923
			20:COM7	24:COM11	16:COM3	24:COM1	24:COM11	28:COM1
			-8.191	-16.223	-2.719	-16.439	-1.154	-1.966
			30:COM1	18:COM5	26:COM1	18:COM5	18:COM5	22:COM9
	323	-ve	14.930	1.716	4.613	11.255	4.620	22.460
			20:COM7	24:COM11	16:COM3	24:COM1	16:COM3	16:COM3
			-8.191	-21.311	-2.719	-16.439	-3.007	-4.096
			30:COM1	18:COM5	26:COM1	18:COM5	26:COM1	26:COM1
2412	1145	+ve	17.925	0.000	7.015	12.054	1.755	0.000
			20:COM7	-	24:COM11	16:COM3	16:COM3	-
			0.000	-12.475	-7.551	-10.761	-1.524	-6.721
			-	18:COM5	18:COM5	26:COM1	26:COM1	22:COM9
	321	-ve	17.925	0.000	7.015	12.054	7.249	14.667
			20:COM7	-	24:COM11	16:COM3	24:COM11	20:COM7
			0.000	-18.103	-7.551	-10.761	-7.688	0.000
			-	18:COM5	18:COM5	26:COM1	18:COM5	-
2413	1144	+ve	19.653	0.000	6.132	15.844	1.268	0.000
			20:COM7	-	16:COM3	16:COM3	24:COM11	-
			0.000	-10.234	-5.744	-15.628	-1.393	-7.369
			-	33:CVOL2	26:COM1	26:COM1	18:COM5	22:COM9
	320	-ve	19.653	0.000	6.132	15.844	6.275	11.336
			20:COM7	-	16:COM3	16:COM3	16:COM3	20:COM7
			0.000	-16.281	-5.744	-15.628	-5.915	0.000
			-	35:CVOL4	26:COM1	26:COM1	26:COM1	-
2414	1143	+ve	14.539	1.344	8.684	21.599	0.704	0.000
			16:COM3	28:COM1	16:COM3	16:COM3	24:COM11	-
			0.000	-10.684	-4.457	-10.994	-1.116	-5.369
			-	22:COM9	26:COM1	26:COM1	18:COM5	18:COM5
	319	-ve	14.539	0.000	8.684	21.599	9.808	13.821
			16:COM3	-	16:COM3	16:COM3	16:COM3	20:COM7
			0.000	-16.312	-4.457	-10.994	-4.934	-2.533
			-	22:COM9	26:COM1	26:COM1	26:COM1	30:COM1

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
2415	1157	+ve	0.000	0.987	0.000	0.032	0.444	0.122
			-	34:CVOL3	-	24:COM1	34:CVOL3	16:COM3
			-1.334	0.000	-0.656	-0.148	0.000	-0.004
			34:CVOL3	-	34:CVOL3	18:COM5	-	26:COM1
	1158	-ve	0.000	0.000	0.000	0.032	0.000	2.295
			-	-	-	24:COM1	-	32:CVOL1
			-1.334	-3.855	-0.656	-0.148	-0.427	0.000
			34:CVOL3	32:CVOL1	34:CVOL3	18:COM5	34:CVOL3	-
2416	1158	+ve	0.809	9.367	0.003	0.600	0.024	2.651
			24:COM1	34:CVOL3	28:COM1	34:CVOL3	16:COM3	32:CVOL1
			-1.452	0.000	-0.002	0.000	-0.002	-0.138
			18:COM5	-	22:COM9	-	26:COM1	30:COM1
	1163	-ve	0.809	0.000	0.003	0.600	0.026	17.563
			24:COM1	-	28:COM1	34:CVOL3	16:COM3	34:CVOL3
			-1.452	-14.184	-0.002	0.000	0.000	0.000
			18:COM5	34:CVOL3	22:COM9	-	-	-
2417	323	+ve	66.198	114.827	9.692	5.869	8.944	208.971
			16:COM3	16:COM3	24:COM1	20:COM7	20:COM7	16:COM3
			-9.997	-86.379	-10.981	0.000	-7.957	-125.782
			26:COM1	26:COM1	18:COM5	-	30:COM1	26:COM1
	1489	-ve	66.198	112.157	9.692	5.869	10.902	32.317
			16:COM3	16:COM3	24:COM1	20:COM7	24:COM1	16:COM3
			-9.997	-88.382	-10.981	0.000	-12.086	0.000
			26:COM1	26:COM1	18:COM5	-	18:COM5	-
2419	271	+ve	22.236	35.338	3.875	9.608	0.229	100.795
			16:COM3	20:COM7	16:COM3	28:COM1	24:COM1	20:COM7
			-0.502	-0.152	-0.443	-16.574	-4.327	-23.075
			26:COM1	30:COM1	26:COM1	22:COM9	18:COM5	30:COM1
	6183	-ve	22.236	30.235	3.875	9.608	5.119	23.555
			16:COM3	20:COM7	16:COM3	28:COM1	16:COM3	20:COM7
			-0.502	-3.979	-0.443	-16.574	-1.118	-18.335
			26:COM1	30:COM1	26:COM1	22:COM9	26:COM1	30:COM1
2420	6175	+ve	19.196	6.460	0.053	0.210	0.109	12.878
			28:COM1	16:COM3	16:COM3	16:COM3	24:COM1	20:COM7
			-28.437	0.000	-0.038	-0.089	-0.125	-4.492
			22:COM9	-	26:COM1	26:COM1	18:COM5	30:COM1
	1138	-ve	19.196	0.000	0.053	0.210	0.110	10.784
			28:COM1	-	16:COM3	16:COM3	16:COM3	16:COM3
			-28.437	-7.339	-0.038	-0.089	-0.063	0.000
			22:COM9	18:COM5	26:COM1	26:COM1	26:COM1	-
2421	1163	+ve	3.575	18.011	0.091	0.451	0.011	15.976
			28:COM1	20:COM7	16:COM3	20:COM7	24:COM1	16:COM3
			-11.367	-8.465	-0.009	0.000	-0.156	0.000
			22:COM9	30:COM1	26:COM1	-	18:COM5	-
	6146	-ve	3.575	10.419	0.091	0.451	0.139	39.683
			28:COM1	28:COM1	16:COM3	20:COM7	20:COM7	20:COM7
			-11.367	-14.941	-0.009	0.000	-0.027	-30.581
			22:COM9	22:COM9	26:COM1	-	30:COM1	30:COM1

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
2422	1146	+ve	9.011	10.679	0.407	0.259	0.332	21.271
			28:COM15	16:COM3	20:COM7	16:COM3	28:COM15	16:COM3
			-18.795	-7.521	-0.353	-0.005	-0.377	-9.313
			22:COM9	26:COM13	30:COM17	26:COM13	22:COM9	26:COM13
	1556	-ve	9.011	9.298	0.407	0.259	0.315	6.819
			28:COM15	16:COM3	20:COM7	16:COM3	16:COM3	16:COM3
			-18.795	-8.558	-0.353	-0.005	-0.269	0.000
			22:COM9	26:COM13	30:COM17	26:COM13	26:COM13	-
2424	290	+ve	147.640	194.789	5.176	0.000	5.932	336.877
			16:COM3	16:COM3	28:COM15	-	20:COM7	16:COM3
			-108.712	-170.868	-6.086	-3.291	-4.650	-301.698
			26:COM13	26:COM13	22:COM9	18:COM5	30:COM17	26:COM13
	1283	-ve	147.640	191.879	5.176	0.000	4.249	14.503
			16:COM3	16:COM3	28:COM15	-	20:COM7	24:COM11
			-108.712	-173.050	-6.086	-3.291	-4.497	-15.276
			26:COM13	26:COM13	22:COM9	18:COM5	30:COM17	18:COM5
2425	286	+ve	57.766	54.141	12.495	12.775	2.244	189.339
			20:COM7	28:COM15	20:COM7	16:COM3	28:COM15	28:COM15
			-42.222	-60.427	-0.644	-4.161	-16.453	-264.675
			30:COM17	22:COM9	30:COM17	26:COM13	22:COM9	22:COM9
	1495	-ve	57.766	51.506	12.495	12.775	8.919	82.098
			20:COM7	28:COM15	20:COM7	16:COM3	20:COM7	28:COM15
			-42.222	-63.940	-0.644	-4.161	0.000	-138.428
			30:COM17	22:COM9	30:COM17	26:COM13	-	22:COM9
2428	1140	+ve	3.415	9.970	0.266	0.354	0.236	21.636
			28:COM15	16:COM3	20:COM7	20:COM7	28:COM15	16:COM3
			-6.030	0.000	-0.176	-0.266	-0.395	0.000
			22:COM9	-	30:COM17	30:COM17	22:COM9	-
	1497	-ve	3.415	8.237	0.266	0.354	0.097	5.396
			28:COM15	16:COM3	20:COM7	20:COM7	28:COM15	16:COM3
			-6.030	0.000	-0.176	-0.266	-0.092	-3.642
			22:COM9	-	30:COM17	30:COM17	22:COM9	26:COM13
2430	1170	+ve	4.195	4.905	0.137	0.243	0.124	17.547
			28:COM15	16:COM3	16:COM3	28:COM15	24:COM11	20:COM7
			-6.876	0.000	-0.092	-0.714	-0.174	-0.718
			22:COM9	-	26:COM13	22:COM9	18:COM5	30:COM17
	1500	-ve	4.195	2.888	0.137	0.243	0.162	8.530
			28:COM15	16:COM3	16:COM3	28:COM15	16:COM3	20:COM7
			-6.876	0.000	-0.092	-0.714	-0.103	-3.889
			22:COM9	-	26:COM13	22:COM9	26:COM13	30:COM17
2431	1165	+ve	12.680	40.857	0.197	1.066	0.443	72.303
			28:COM15	20:COM7	24:COM11	20:COM7	16:COM3	20:COM7
			-20.283	-0.987	-0.215	-0.482	-0.165	-3.193
			22:COM9	30:COM17	18:COM5	30:COM17	26:COM13	30:COM17
	1506	-ve	12.680	39.961	0.197	1.066	0.306	2.777
			28:COM15	20:COM7	24:COM11	20:COM7	20:COM7	24:COM11
			-20.283	-1.659	-0.215	-0.482	-0.062	-9.590
			22:COM9	30:COM17	18:COM5	30:COM17	30:COM17	18:COM5

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
2432	1171	+ve	5.715	0.000	18.539	7.589	1.472	0.000
			20:COM7	-	24:COM11	16:COM3	24:COM11	-
			0.000	-5.450	-18.828	-6.994	-1.507	-2.116
			-	22:COM9	18:COM5	26:COM13	18:COM5	22:COM9
	262	-ve	5.715	0.000	18.539	7.589	12.403	4.176
			20:COM7	-	24:COM11	16:COM3	24:COM11	20:COM7
			0.000	-8.648	-18.828	-6.994	-12.655	0.000
			-	32:CVOL1	18:COM5	26:COM13	18:COM5	-
2434	1173	+ve	5.254	0.000	19.163	7.501	1.425	0.000
			20:COM7	-	16:COM3	16:COM3	24:COM11	-
			0.000	-4.902	-17.752	-6.978	-1.499	-1.981
			-	22:COM9	26:COM13	26:COM13	18:COM5	22:COM9
	266	-ve	5.254	0.000	19.163	7.501	12.874	3.331
			20:COM7	-	16:COM3	16:COM3	16:COM3	20:COM7
			0.000	-8.087	-17.752	-6.978	-11.890	0.000
			-	32:CVOL1	26:COM13	26:COM13	26:COM13	-
2435	1171	+ve	0.062	3.183	0.115	0.042	0.000	4.473
			24:COM11	16:COM3	20:COM7	20:COM7	-	20:COM7
			-12.892	0.000	0.000	-0.037	-0.116	0.000
			18:COM5	-	-	30:COM17	22:COM9	-
	1579	-ve	0.062	0.754	0.115	0.042	0.111	2.368
			24:COM11	16:COM3	20:COM7	20:COM7	16:COM3	16:COM3
			-12.892	-0.941	0.000	-0.037	0.000	-0.763
			18:COM5	26:COM13	-	30:COM17	-	26:COM13
2437	242	+ve	30.292	44.315	5.577	23.332	10.970	80.602
			20:COM7	34:CVOL3	28:COM15	20:COM7	20:COM7	34:CVOL3
			0.000	0.000	-6.903	-13.164	-9.142	0.000
			-	-	22:COM9	30:COM17	30:COM17	-
	1164	-ve	30.292	32.599	5.577	23.332	3.977	0.000
			20:COM7	34:CVOL3	28:COM15	20:COM7	28:COM15	-
			0.000	0.000	-6.903	-13.164	-5.269	-11.533
			-	-	22:COM9	30:COM17	22:COM9	22:COM9
2439	249	+ve	31.067	47.070	3.371	17.132	7.367	85.673
			34:CVOL3	34:CVOL3	24:COM11	16:COM3	16:COM3	34:CVOL3
			0.000	0.000	-4.317	-12.952	-6.310	0.000
			-	-	18:COM5	26:COM13	26:COM13	-
	1166	-ve	31.067	35.371	3.371	17.132	1.617	0.000
			34:CVOL3	34:CVOL3	24:COM11	16:COM3	24:COM11	-
			0.000	0.000	-4.317	-12.952	-2.783	-11.148
			-	-	18:COM5	26:COM13	18:COM5	34:CVOL3
2441	1166	+ve	7.235	17.306	0.131	0.000	0.317	43.885
			24:COM11	34:CVOL3	24:COM11	-	16:COM3	34:CVOL3
			-8.373	0.000	-0.220	-0.433	-0.162	0.000
			18:COM5	-	18:COM5	35:CVOL4	26:COM13	-
	1509	-ve	7.235	15.414	0.131	0.000	0.103	14.829
			24:COM11	34:CVOL3	24:COM11	-	16:COM3	16:COM3
			-8.373	0.000	-0.220	-0.433	-0.121	-0.838
			18:COM5	-	18:COM5	35:CVOL4	26:COM13	26:COM13

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
2442	1175	+ve	135.625	98.953	4.191	16.465	9.843	42.127
			20:COM7	28:COM15	24:COM11	16:COM3	16:COM3	28:COM15
			-129.905	-129.644	-6.870	-3.851	-6.552	-79.635
			30:COM17	22:COM9	18:COM5	26:COM13	26:COM13	22:COM9
	260	-ve	135.625	92.427	4.191	16.465	7.207	363.977
			20:COM7	28:COM15	24:COM11	16:COM3	24:COM11	20:COM7
			-129.905	-139.920	-6.870	-3.851	-12.705	-273.257
			30:COM17	22:COM9	18:COM5	26:COM13	18:COM5	30:COM17
2443	1175	+ve	13.197	18.413	0.695	1.821	0.602	35.129
			28:COM15	20:COM7	20:COM7	20:COM7	20:COM7	34:CVOL3
			-16.084	0.000	-0.684	-1.442	-0.599	0.000
			22:COM9	-	30:COM17	30:COM17	30:COM17	-
	1512	-ve	13.197	17.582	0.695	1.821	0.653	9.147
			28:COM15	20:COM7	20:COM7	20:COM7	20:COM7	20:COM7
			-16.084	0.000	-0.684	-1.442	-0.631	-5.547
			22:COM9	-	30:COM17	30:COM17	30:COM17	30:COM17
2444	1181	+ve	95.634	94.958	8.251	1.453	0.000	205.969
			28:COM15	16:COM3	20:COM7	24:COM11	-	16:COM3
			-148.091	-19.121	0.000	-3.865	-10.986	-190.008
			22:COM9	26:COM13	-	18:COM5	22:COM9	26:COM13
	6196	-ve	95.634	92.120	8.251	1.453	0.000	132.293
			28:COM15	16:COM3	20:COM7	24:COM11	-	24:COM11
			-148.091	-21.249	0.000	-3.865	-3.742	-181.959
			22:COM9	26:COM13	-	18:COM5	18:COM5	18:COM5
2445	1164	+ve	12.280	14.655	0.098	0.000	0.167	37.507
			24:COM11	34:CVOL3	20:COM7	-	28:COM15	16:COM3
			-13.568	0.000	-0.080	-0.962	-0.138	0.000
			18:COM5	-	30:COM17	22:COM9	22:COM9	-
	1518	-ve	12.280	12.946	0.098	0.000	0.224	12.531
			24:COM11	16:COM3	20:COM7	-	16:COM3	16:COM3
			-13.568	0.000	-0.080	-0.962	-0.161	-5.306
			18:COM5	-	30:COM17	22:COM9	26:COM13	26:COM13
2447	1177	+ve	17.064	7.656	17.092	11.122	3.309	22.657
			28:COM15	28:COM15	20:COM7	28:COM15	20:COM7	20:COM7
			-28.807	-20.497	-11.445	-14.867	-2.373	-12.017
			22:COM9	22:COM9	30:COM17	22:COM9	30:COM17	30:COM17
	1165	-ve	17.064	7.548	17.092	11.122	3.228	29.113
			28:COM15	28:COM15	20:COM7	28:COM15	20:COM7	20:COM7
			-28.807	-20.642	-11.445	-14.867	-0.520	-14.402
			22:COM9	22:COM9	30:COM17	22:COM9	30:COM17	30:COM17
2448	1178	+ve	23.884	2.361	2.917	8.840	4.346	0.000
			24:COM11	28:COM15	24:COM11	20:COM7	16:COM3	-
			-37.736	-5.939	-12.862	-0.473	-1.511	-26.907
			18:COM5	22:COM9	18:COM5	30:COM17	26:COM13	22:COM9
	1521	-ve	23.884	2.157	2.917	8.840	0.247	0.000
			24:COM11	28:COM15	24:COM11	20:COM7	24:COM11	-
			-37.736	-6.211	-12.862	-0.473	-3.284	-24.850
			18:COM5	22:COM9	18:COM5	30:COM17	18:COM5	34:CVOL3

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
2449	1179	+ve	16.491	5.274	0.583	2.406	0.686	8.409
			24:COM1	28:COM1	24:COM1	20:COM7	16:COM3	20:COM7
			-18.836	-16.634	-1.079	-0.931	-0.378	-7.581
			18:COM5	22:COM9	18:COM5	30:COM1	26:COM1	30:COM1
	1617	-ve	16.491	4.793	0.583	2.406	0.434	19.136
			24:COM1	28:COM1	24:COM1	20:COM7	24:COM1	16:COM3
			-18.836	-17.274	-1.079	-0.931	-0.815	-1.747
			18:COM5	22:COM9	18:COM5	30:COM1	18:COM5	26:COM1
2451	1182	+ve	48.181	71.518	4.563	1.102	0.000	94.493
			28:COM1	16:COM3	16:COM3	28:COM1	-	28:COM1
			-142.339	-32.975	-0.669	-7.525	-4.509	-188.242
			22:COM9	26:COM1	26:COM1	22:COM9	18:COM5	22:COM9
	6186	-ve	48.181	69.393	4.563	1.102	0.000	59.353
			28:COM1	16:COM3	16:COM3	28:COM1	-	28:COM1
			-142.339	-34.569	-0.669	-7.525	-1.549	-177.680
			22:COM9	26:COM1	26:COM1	22:COM9	22:COM9	22:COM9
2452	1183	+ve	12.025	46.701	3.799	0.583	1.432	20.377
			28:COM1	24:COM1	16:COM3	28:COM1	24:COM1	28:COM1
			-118.548	-47.261	-2.003	-11.137	-4.480	-170.415
			22:COM9	18:COM5	26:COM1	22:COM9	18:COM5	22:COM9
	1184	-ve	12.025	42.021	3.799	0.583	2.995	0.000
			28:COM1	24:COM1	16:COM3	28:COM1	16:COM3	-
			-118.548	-53.501	-2.003	-11.137	-2.510	-132.443
			22:COM9	18:COM5	26:COM1	22:COM9	26:COM1	18:COM5
2453	1184	+ve	0.000	32.120	3.180	0.151	2.260	0.000
			-	24:COM1	20:COM7	28:COM1	28:COM1	-
			-80.934	-71.343	-2.508	-13.871	-3.952	-132.604
			22:COM9	18:COM5	30:COM1	22:COM9	22:COM9	22:COM9
	1185	-ve	0.000	27.440	3.180	0.151	2.418	80.640
			-	24:COM1	20:COM7	28:COM1	28:COM1	24:COM1
			-80.934	-77.582	-2.508	-13.871	-2.786	-146.111
			22:COM9	18:COM5	30:COM1	22:COM9	22:COM9	18:COM5
2454	1185	+ve	21.776	18.112	4.416	0.054	2.529	49.197
			24:COM1	24:COM1	20:COM7	28:COM1	28:COM1	24:COM1
			-58.897	-94.097	-2.491	-12.505	-3.265	-147.271
			18:COM5	18:COM5	30:COM1	22:COM9	22:COM9	18:COM5
	1186	-ve	21.776	13.432	4.416	0.054	5.729	211.989
			24:COM1	24:COM1	20:COM7	28:COM1	20:COM7	16:COM3
			-58.897	-100.337	-2.491	-12.505	-2.678	-149.822
			18:COM5	18:COM5	30:COM1	22:COM9	30:COM1	26:COM1
2455	1186	+ve	76.607	5.120	9.495	2.019	2.241	164.473
			16:COM3	24:COM1	16:COM3	28:COM1	28:COM1	16:COM3
			-36.310	-115.149	-2.875	-6.758	-7.197	-156.019
			26:COM1	18:COM5	26:COM1	22:COM9	22:COM9	26:COM1
	288	-ve	76.607	0.440	9.495	2.019	11.821	396.319
			16:COM3	24:COM1	16:COM3	28:COM1	16:COM3	16:COM3
			-36.310	-121.389	-2.875	-6.758	-3.753	-160.641
			26:COM1	18:COM5	26:COM1	22:COM9	26:COM1	26:COM1

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
2456	1187	+ve	128.733	90.440	2.664	4.762	2.104	240.754
			24:COM1	16:COM3	20:COM7	34:CVOL3	28:COM15	16:COM3
			-147.537	-3.300	-1.011	-0.037	-3.146	-165.733
			18:COM5	26:COM13	30:COM17	30:COM17	22:COM9	26:COM13
	1188	-ve	128.733	84.183	2.664	4.762	2.559	92.639
			24:COM1	16:COM3	20:COM7	34:CVOL3	16:COM3	24:COM1
			-147.537	-7.992	-1.011	-0.037	-0.339	-178.740
			18:COM5	26:COM13	30:COM17	30:COM17	26:COM13	18:COM5
2457	1188	+ve	88.511	67.796	3.249	6.125	0.692	120.661
			24:COM1	16:COM3	16:COM3	20:COM7	24:COM11	24:COM1
			-154.399	-16.892	-1.252	-1.193	-3.852	-174.219
			18:COM5	26:COM13	26:COM13	30:COM17	18:COM5	18:COM5
	1189	-ve	88.511	61.539	3.249	6.125	2.559	16.338
			24:COM1	16:COM3	16:COM3	20:COM7	16:COM3	24:COM1
			-154.399	-21.584	-1.252	-1.193	-1.778	-159.521
			18:COM5	26:COM13	26:COM13	30:COM17	26:COM13	18:COM5
2458	1189	+ve	51.409	43.840	2.513	3.714	1.691	42.248
			24:COM1	16:COM3	16:COM3	20:COM7	24:COM11	24:COM1
			-138.181	-30.804	-2.364	-2.856	-3.537	-171.046
			18:COM5	26:COM13	26:COM13	30:COM17	18:COM5	18:COM5
	1190	-ve	51.409	37.583	2.513	3.714	1.878	0.000
			24:COM1	16:COM3	16:COM3	20:COM7	24:COM11	-
			-138.181	-35.497	-2.364	-2.856	-3.429	-109.963
			18:COM5	26:COM13	26:COM13	30:COM17	18:COM5	18:COM5
2459	1190	+ve	23.970	27.044	1.718	1.406	2.139	0.000
			24:COM1	24:COM11	24:COM11	28:COM15	16:COM3	-
			-100.013	-52.305	-3.140	-5.863	-2.231	-136.297
			18:COM5	18:COM5	18:COM5	22:COM9	26:COM13	18:COM5
	1191	-ve	23.970	22.352	1.718	1.406	1.190	0.000
			24:COM1	24:COM11	24:COM11	28:COM15	24:COM11	-
			-100.013	-58.562	-3.140	-5.863	-4.087	-88.921
			18:COM5	18:COM5	18:COM5	22:COM9	18:COM5	18:COM5
2460	1191	+ve	9.229	12.758	0.901	0.064	1.893	0.000
			24:COM1	24:COM11	32:CVOL1	24:COM17	16:COM3	-
			-44.571	-75.479	-1.335	-7.524	-1.315	-86.039
			18:COM5	18:COM5	35:CVOL4	18:COM5	26:COM13	34:CVOL3
	1192	-ve	9.229	8.066	0.901	0.064	1.039	88.595
			24:COM1	24:COM11	32:CVOL1	24:COM17	32:CVOL1	16:COM3
			-44.571	-81.735	-1.335	-7.524	-1.203	-72.794
			18:COM5	18:COM5	35:CVOL4	18:COM5	35:CVOL4	26:COM13
2461	1192	+ve	34.965	0.000	7.945	0.421	0.000	50.775
			20:COM7	-	16:COM3	28:COM15	-	24:COM1
			-5.194	-97.519	-1.436	-4.934	-4.457	-80.124
			30:COM17	18:COM5	26:COM13	34:CVOL3	32:CVOL1	18:COM5
	289	-ve	34.965	0.000	7.945	0.421	11.566	242.169
			20:COM7	-	16:COM3	28:COM15	16:COM3	16:COM3
			-5.194	-103.776	-1.436	-4.934	-3.291	-66.108
			30:COM17	18:COM5	26:COM13	34:CVOL3	26:COM13	26:COM13

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
2462	1193	+ve	74.583	69.046	1.480	2.380	4.766	130.909
			20:COM7	16:COM3	28:COM15	28:COM15	20:COM7	16:COM3
			-50.265	-2.168	-4.474	-8.422	-2.277	-58.160
			30:COM17	26:COM13	22:COM9	22:COM9	30:COM17	26:COM13
	1194	-ve	74.583	62.862	1.480	2.380	1.229	11.503
			20:COM7	16:COM3	28:COM15	28:COM15	24:COM11	24:COM17
			-50.265	-6.806	-4.474	-8.422	-4.578	-58.615
			30:COM17	26:COM13	22:COM9	22:COM9	18:COM5	18:COM5
2463	1194	+ve	43.023	51.250	4.289	0.476	2.849	34.564
			28:COM15	16:COM3	16:COM3	28:COM15	24:COM11	24:COM17
			-49.673	-14.334	-2.664	-14.706	-3.750	-60.003
			22:COM9	26:COM13	26:COM13	22:COM9	18:COM5	18:COM5
	1195	-ve	43.023	45.065	4.289	0.476	4.615	0.000
			28:COM15	16:COM3	16:COM3	28:COM15	16:COM3	-
			-49.673	-18.972	-2.664	-14.706	-2.348	-63.972
			22:COM9	26:COM13	26:COM13	22:COM9	26:COM13	18:COM5
2464	1195	+ve	27.371	33.335	9.342	0.000	0.925	0.000
			28:COM15	16:COM3	16:COM3	-	24:COM11	-
			-44.574	-26.499	-0.084	-19.457	-8.067	-53.817
			22:COM9	26:COM13	26:COM13	22:COM9	18:COM5	18:COM5
	1196	-ve	27.371	27.150	9.342	0.000	10.169	19.651
			28:COM15	16:COM3	16:COM3	-	16:COM3	24:COM17
			-44.574	-31.137	-0.084	-19.457	0.000	-101.937
			22:COM9	26:COM13	26:COM13	22:COM9	-	18:COM5
2465	1196	+ve	34.019	16.899	16.090	0.000	0.000	0.839
			20:COM7	24:COM11	20:COM7	-	-	24:COM17
			-32.944	-43.826	0.000	-20.895	-11.905	-96.016
			30:COM17	18:COM5	-	22:COM9	18:COM5	18:COM5
	1197	-ve	34.019	12.260	16.090	0.000	20.397	81.882
			20:COM7	24:COM11	20:COM7	-	20:COM7	24:COM17
			-32.944	-50.010	0.000	-20.895	0.000	-113.999
			30:COM17	18:COM5	-	22:COM9	-	18:COM5
2466	1197	+ve	54.496	0.000	5.108	45.108	33.868	67.816
			16:COM3	-	28:COM15	20:COM7	20:COM7	24:COM17
			-15.096	-91.074	-36.778	-5.412	-5.526	-114.917
			26:COM13	18:COM5	22:COM9	30:COM17	30:COM17	18:COM5
	264	-ve	54.496	0.000	5.108	45.108	4.585	236.621
			16:COM3	-	28:COM15	20:COM7	28:COM15	16:COM3
			-15.096	-97.258	-36.778	-5.412	-38.001	-78.315
			26:COM13	18:COM5	22:COM9	30:COM17	22:COM9	26:COM13
2467	1198	+ve	100.404	52.583	1.088	20.789	15.173	80.931
			28:COM15	16:COM3	28:COM15	20:COM7	20:COM7	24:COM17
			-120.291	-19.689	-11.857	-2.208	-2.322	-148.827
			22:COM9	26:COM13	22:COM9	30:COM17	30:COM17	18:COM5
	1199	-ve	100.404	46.399	1.088	20.789	0.172	0.000
			28:COM15	16:COM3	28:COM15	20:COM7	28:COM15	-
			-120.291	-24.327	-11.857	-2.208	-8.321	-116.797
			22:COM9	26:COM13	22:COM9	30:COM17	22:COM9	18:COM5

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
2468	1199	+ve	80.096	33.723	1.807	18.390	8.160	14.639
			28:COM15	24:COM11	28:COM15	20:COM7	20:COM7	24:COM11
			-108.412	-34.112	-7.262	-5.354	-1.444	-130.079
			22:COM9	18:COM5	22:COM9	30:COM17	30:COM17	18:COM5
	1200	-ve	80.096	29.084	1.807	18.390	2.084	0.000
			28:COM15	24:COM11	28:COM15	20:COM7	28:COM15	-
			-108.412	-40.296	-7.262	-5.354	-6.004	-92.053
			22:COM9	18:COM5	22:COM9	30:COM17	22:COM9	22:COM9
2469	1200	+ve	69.501	21.524	4.076	13.036	3.292	0.000
			28:COM15	24:COM11	20:COM7	20:COM7	24:COM11	-
			-83.155	-51.735	-2.857	-6.444	-3.786	-102.739
			22:COM9	18:COM5	30:COM17	30:COM17	18:COM5	22:COM9
	1201	-ve	69.501	16.886	4.076	13.036	4.349	42.167
			28:COM15	24:COM11	20:COM7	20:COM7	20:COM7	24:COM11
			-83.155	-57.919	-2.857	-6.444	-2.467	-87.073
			22:COM9	18:COM5	30:COM17	30:COM17	30:COM17	18:COM5
2470	1201	+ve	77.032	9.404	7.899	6.369	1.017	17.992
			20:COM7	24:COM11	20:COM7	28:COM15	28:COM15	24:COM11
			-57.104	-69.463	-2.041	-7.240	-6.763	-86.426
			30:COM17	18:COM5	30:COM17	22:COM9	22:COM9	18:COM5
	1202	-ve	77.032	4.766	7.899	6.369	8.809	141.387
			20:COM7	24:COM11	20:COM7	28:COM15	20:COM7	16:COM3
			-57.104	-75.647	-2.041	-7.240	-3.131	-82.153
			30:COM17	18:COM5	30:COM17	22:COM9	30:COM17	26:COM13
2471	1202	+ve	93.263	0.000	9.060	0.747	0.779	112.537
			20:COM7	-	16:COM3	28:COM15	28:COM15	16:COM3
			-28.826	-87.674	-3.491	-13.407	-8.205	-84.473
			30:COM17	18:COM5	26:COM13	22:COM9	22:COM9	26:COM13
	262	-ve	93.263	0.000	9.060	0.747	11.140	286.417
			20:COM7	-	16:COM3	28:COM15	16:COM3	16:COM3
			-28.826	-93.859	-3.491	-13.407	-7.705	-73.885
			30:COM17	18:COM5	26:COM13	22:COM9	26:COM13	26:COM13
2472	1203	+ve	50.965	58.796	0.000	11.254	7.142	109.438
			16:COM3	16:COM3	-	34:CVOL3	20:COM7	16:COM3
			-41.409	-5.440	-6.369	0.000	0.000	-75.884
			26:COM13	26:COM13	18:COM5	-	-	26:COM13
	1204	-ve	50.965	52.612	0.000	11.254	0.634	12.586
			16:COM3	16:COM3	-	34:CVOL3	24:COM11	24:COM11
			-41.409	-10.079	-6.369	0.000	-5.545	-72.524
			26:COM13	26:COM13	18:COM5	-	18:COM5	18:COM5
2473	1204	+ve	34.323	35.585	1.051	8.986	6.697	29.345
			28:COM15	16:COM3	24:COM11	16:COM3	16:COM3	24:COM11
			-40.991	-20.748	-6.347	0.000	-0.468	-77.456
			22:COM9	26:COM13	18:COM5	-	26:COM13	18:COM5
	1205	-ve	34.323	29.400	1.051	8.986	1.584	0.000
			28:COM15	16:COM3	24:COM11	16:COM3	24:COM11	-
			-40.991	-25.386	-6.347	0.000	-5.683	-50.521
			22:COM9	26:COM13	18:COM5	-	18:COM5	22:COM9

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
2474	1205	+ve	34.399	21.029	3.408	4.673	3.000	0.000
			20:COM7	24:COM11	16:COM3	16:COM3	24:COM11	-
			-35.284	-35.800	-2.600	0.000	-3.142	-54.719
			30:COM17	18:COM5	26:COM13	-	18:COM5	22:COM9
	1206	-ve	34.399	16.391	3.408	4.673	3.508	30.669
			20:COM7	24:COM11	16:COM3	16:COM3	16:COM3	24:COM17
			-35.284	-41.985	-2.600	0.000	-2.074	-61.716
			30:COM17	18:COM5	26:COM13	-	26:COM13	18:COM5
2475	1206	+ve	53.723	9.077	5.499	0.109	0.398	11.013
			20:COM7	24:COM11	16:COM3	24:COM17	24:COM11	24:COM17
			-29.933	-53.290	0.000	-2.312	-5.630	-59.327
			30:COM17	18:COM5	-	18:COM5	18:COM5	18:COM5
	1207	-ve	53.723	4.439	5.499	0.109	5.722	111.767
			20:COM7	24:COM11	16:COM3	24:COM17	20:COM7	16:COM3
			-29.933	-60.255	0.000	-2.312	0.000	-62.551
			30:COM17	18:COM5	-	18:COM5	-	26:COM13
2476	1207	+ve	78.431	0.000	7.971	0.000	0.000	87.919
			16:COM3	-	16:COM3	-	-	16:COM3
			-17.357	-72.394	-1.789	-10.907	-5.231	-64.809
			26:COM13	18:COM5	26:COM13	18:COM5	18:COM5	26:COM13
	266	-ve	78.431	0.000	7.971	0.000	10.396	234.668
			16:COM3	-	16:COM3	-	16:COM3	16:COM3
			-17.357	-78.579	-1.789	-10.907	-5.409	-56.335
			26:COM13	18:COM5	26:COM13	18:COM5	26:COM13	26:COM13
2477	1208	+ve	63.693	75.151	0.772	10.324	9.475	142.721
			20:COM7	16:COM3	28:COM15	20:COM7	20:COM7	16:COM3
			-47.301	-6.725	-8.244	-6.802	-1.806	-85.265
			30:COM17	26:COM13	22:COM9	30:COM17	30:COM17	26:COM13
	1209	-ve	63.693	68.966	0.772	10.324	0.000	14.412
			20:COM7	16:COM3	28:COM15	20:COM7	-	24:COM17
			-47.301	-11.363	-8.244	-6.802	-6.811	-79.834
			30:COM17	26:COM13	22:COM9	30:COM17	18:COM5	18:COM5
2478	1209	+ve	34.659	57.454	1.901	8.805	4.851	41.174
			28:COM15	16:COM3	24:COM11	28:COM15	16:COM3	24:COM17
			-52.622	-18.930	-4.657	-12.140	-1.342	-82.526
			22:COM9	26:COM13	18:COM5	22:COM9	26:COM13	18:COM5
	1210	-ve	34.659	51.269	1.901	8.805	2.367	0.000
			28:COM15	16:COM3	24:COM11	28:COM15	24:COM11	-
			-52.622	-23.568	-4.657	-12.140	-4.233	-75.324
			22:COM9	26:COM13	18:COM5	22:COM9	18:COM5	22:COM9
2479	1210	+ve	26.660	39.687	5.527	7.732	2.371	0.000
			28:COM15	16:COM3	16:COM3	28:COM15	24:COM11	-
			-60.114	-31.284	-1.942	-16.850	-4.597	-69.940
			22:COM9	26:COM13	26:COM13	22:COM9	18:COM5	18:COM5
	1211	-ve	26.660	33.503	5.527	7.732	6.529	17.584
			28:COM15	16:COM3	16:COM3	28:COM15	20:COM7	24:COM17
			-60.114	-35.922	-1.942	-16.850	-1.765	-118.506
			22:COM9	26:COM13	26:COM13	22:COM9	30:COM17	18:COM5

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
2480	1211	+ve	43.794	23.402	9.023	4.229	0.102	0.809
			24:COM1	24:COM11	20:COM7	28:COM1	24:COM11	24:COM1
			-68.853	-47.958	-1.275	-19.194	-6.774	-107.663
			18:COM5	18:COM5	30:COM1	22:COM9	18:COM5	18:COM5
	1212	-ve	43.794	18.764	9.023	4.229	11.682	89.453
			24:COM1	24:COM11	20:COM7	28:COM1	20:COM7	24:COM1
			-68.853	-54.142	-1.275	-19.194	-3.244	-137.872
			18:COM5	18:COM5	30:COM1	22:COM9	30:COM1	18:COM5
2481	1212	+ve	66.588	4.259	11.869	10.360	13.247	71.516
			16:COM3	24:COM11	28:COM1	28:COM1	20:COM7	24:COM1
			-69.387	-68.777	-14.759	-13.818	-12.451	-126.232
			26:COM1	18:COM5	22:COM9	22:COM9	30:COM1	18:COM5
	268	-ve	66.588	0.000	11.869	10.360	10.871	198.591
			16:COM3	-	28:COM1	28:COM1	28:COM1	16:COM3
			-69.387	-74.961	-14.759	-13.818	-15.711	-116.946
			26:COM1	18:COM5	22:COM9	22:COM9	22:COM9	26:COM1
2482	5720	+ve	126.765	173.052	3.116	6.603	3.075	155.647
			24:COM1	20:COM7	20:COM7	20:COM7	28:COM1	20:COM7
			-161.918	-108.411	-3.011	-5.312	-3.339	-62.873
			18:COM5	30:COM1	30:COM1	30:COM1	22:COM9	30:COM1
	295	-ve	126.765	167.003	3.116	6.603	2.767	148.707
			24:COM1	20:COM7	20:COM7	20:COM7	20:COM7	28:COM1
			-161.918	-112.947	-3.011	-5.312	-2.828	-169.113
			18:COM5	30:COM1	30:COM1	30:COM1	30:COM1	22:COM9
2484	1227	+ve	542.165	300.546	17.127	8.981	14.280	541.056
			20:COM7	28:COM1	24:COM11	20:COM7	16:COM3	20:COM7
			-532.600	-330.945	-19.258	-7.998	-12.055	-493.567
			30:COM1	22:COM9	18:COM5	30:COM1	26:COM1	30:COM1
	5726	-ve	542.165	298.810	17.127	8.981	0.882	783.467
			20:COM7	28:COM1	24:COM11	20:COM7	20:COM7	20:COM7
			-532.600	-333.260	-19.258	-7.998	-0.212	-712.308
			30:COM1	22:COM9	18:COM5	30:COM1	30:COM1	30:COM1
2485	1228	+ve	203.025	248.190	5.449	12.155	6.774	199.397
			20:COM7	28:COM1	16:COM3	20:COM7	16:COM3	20:COM7
			-137.363	-307.942	-4.971	-11.680	-7.286	-181.218
			30:COM1	22:COM9	26:COM1	30:COM1	26:COM1	30:COM1
	287	-ve	203.025	243.450	5.449	12.155	3.925	819.087
			20:COM7	28:COM1	16:COM3	20:COM7	16:COM3	20:COM7
			-137.363	-314.262	-4.971	-11.680	-3.484	-670.818
			30:COM1	22:COM9	26:COM1	30:COM1	26:COM1	30:COM1
2486	1229	+ve	51.585	261.698	11.422	8.359	12.847	217.776
			16:COM3	28:COM1	28:COM1	28:COM1	20:COM7	28:COM1
			-23.855	-287.275	-12.403	-10.533	-12.706	-235.693
			26:COM1	22:COM9	22:COM9	22:COM9	30:COM1	22:COM9
	1228	-ve	51.585	256.958	11.422	8.359	10.149	343.397
			16:COM3	28:COM1	28:COM1	28:COM1	24:COM11	20:COM7
			-23.855	-293.595	-12.403	-10.533	-11.961	-299.325
			26:COM1	22:COM9	22:COM9	22:COM9	18:COM5	30:COM1

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
2497	1273	+ve	347.762	333.750	8.204	4.154	6.210	585.961
			24:COM1	16:COM3	24:COM1	16:COM3	16:COM3	16:COM3
			-359.198	-289.106	-13.610	-3.832	-3.889	-491.397
			18:COM5	26:COM1	18:COM5	26:COM1	26:COM1	26:COM1
	256	-ve	347.762	329.678	8.204	4.154	6.739	160.596
			24:COM1	16:COM3	24:COM1	16:COM3	24:COM1	16:COM3
			-359.198	-292.160	-13.610	-3.832	-11.361	-118.781
			18:COM5	26:COM1	18:COM5	26:COM1	18:COM5	26:COM1
2498	1274	+ve	255.035	389.106	7.142	7.289	2.702	671.298
			16:COM3	24:COM1	16:COM3	28:COM1	24:COM1	16:COM3
			-192.237	-453.892	-2.902	-8.966	-6.923	-633.341
			26:COM1	18:COM5	26:COM1	22:COM9	18:COM5	26:COM1
	5374	-ve	255.035	386.966	7.142	7.289	1.047	1.08E+3
			16:COM3	24:COM1	16:COM3	28:COM1	28:COM1	16:COM3
			-192.237	-456.746	-2.902	-8.966	-1.451	-982.496
			26:COM1	18:COM5	26:COM1	22:COM9	22:COM9	26:COM1
2499	1275	+ve	143.679	401.038	5.756	4.939	3.580	95.748
			16:COM3	24:COM1	20:COM7	20:COM7	28:COM1	24:COM1
			-108.203	-427.397	-2.159	-5.322	-6.361	-101.741
			26:COM1	18:COM5	30:COM1	30:COM1	22:COM9	18:COM5
	1274	-ve	143.679	396.341	5.756	4.939	7.156	749.149
			16:COM3	24:COM1	20:COM7	20:COM7	16:COM3	16:COM3
			-108.203	-433.661	-2.159	-5.322	-2.835	-692.264
			26:COM1	18:COM5	30:COM1	30:COM1	26:COM1	26:COM1
2500	1276	+ve	56.708	48.698	3.548	6.690	1.950	14.260
			24:COM1	24:COM1	16:COM3	24:COM1	20:COM7	24:COM1
			-93.608	-83.859	-3.214	-7.265	-2.202	-41.663
			18:COM5	18:COM5	26:COM1	18:COM5	30:COM1	18:COM5
	257	-ve	56.708	43.852	3.548	6.690	5.216	183.486
			24:COM1	24:COM1	16:COM3	24:COM1	16:COM3	16:COM3
			-93.608	-90.319	-3.214	-7.265	-4.787	-127.747
			18:COM5	18:COM5	26:COM1	18:COM5	26:COM1	26:COM1
2501	1277	+ve	98.770	117.770	5.364	3.736	5.160	148.352
			24:COM1	16:COM3	16:COM3	24:COM1	16:COM3	16:COM3
			-151.234	-92.771	-4.025	-6.171	-5.634	-113.052
			18:COM5	26:COM1	26:COM1	18:COM5	26:COM1	26:COM1
	1276	-ve	98.770	111.519	5.364	3.736	5.007	75.263
			24:COM1	16:COM3	16:COM3	24:COM1	16:COM3	24:COM1
			-151.234	-97.460	-4.025	-6.171	-2.842	-78.455
			18:COM5	26:COM1	26:COM1	18:COM5	26:COM1	18:COM5
2502	1174	+ve	36.160	69.725	6.047	2.866	11.938	31.657
			28:COM1	28:COM1	16:COM3	24:COM1	16:COM3	28:COM1
			-59.861	-78.004	-6.102	-14.864	-11.259	-57.157
			22:COM9	22:COM9	26:COM1	18:COM5	26:COM1	22:COM9
	268	-ve	36.160	62.239	6.047	2.866	11.606	258.650
			28:COM1	28:COM1	16:COM3	24:COM1	16:COM3	20:COM7
			-59.861	-89.792	-6.102	-14.864	-11.135	-216.729
			22:COM9	22:COM9	26:COM1	18:COM5	26:COM1	30:COM1

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
2503	1279	+ve	32.305	122.296	12.979	8.034	14.444	62.304
			20:COM7	16:COM3	28:COM15	28:COM15	20:COM7	16:COM3
			-17.947	-66.258	-15.693	-15.955	-11.895	-32.757
			30:COM17	26:COM13	22:COM9	22:COM9	30:COM17	26:COM13
	260	-ve	32.305	115.421	12.979	8.034	16.319	117.425
			20:COM7	16:COM3	28:COM15	28:COM15	28:COM15	24:COM11
			-17.947	-71.414	-15.693	-15.955	-19.653	-196.310
			30:COM17	26:COM13	22:COM9	22:COM9	22:COM9	18:COM5
2504	1280	+ve	114.590	138.926	4.290	5.203	3.128	286.929
			16:COM3	16:COM3	20:COM7	16:COM3	28:COM15	16:COM3
			-48.027	-49.996	-3.529	-4.698	-6.243	-114.384
			26:COM13	26:COM13	30:COM17	26:COM13	22:COM9	26:COM13
	1279	-ve	114.590	132.051	4.290	5.203	3.568	8.572
			16:COM3	16:COM3	20:COM7	16:COM3	28:COM15	28:COM15
			-48.027	-55.153	-3.529	-4.698	-5.035	-15.759
			26:COM13	26:COM13	30:COM17	26:COM13	22:COM9	22:COM9
2505	1289	+ve	54.361	85.886	5.594	14.845	9.435	139.118
			20:COM7	16:COM3	28:COM15	16:COM3	16:COM3	16:COM3
			-40.416	0.000	-7.650	-8.524	-6.691	-28.327
			30:COM17	-	22:COM9	26:COM13	26:COM13	26:COM13
	1290	-ve	54.361	79.937	5.594	14.845	4.738	13.678
			20:COM7	16:COM3	28:COM15	16:COM3	28:COM15	28:COM15
			-40.416	0.000	-7.650	-8.524	-5.850	-63.035
			30:COM17	-	22:COM9	26:COM13	22:COM9	22:COM9
2506	1290	+ve	37.024	65.987	4.131	17.849	4.899	25.930
			28:COM15	16:COM3	28:COM15	16:COM3	20:COM7	24:COM11
			-70.032	-7.737	-6.214	-9.554	-4.034	-42.433
			22:COM9	26:COM13	22:COM9	26:COM13	30:COM17	18:COM5
	1291	-ve	37.024	60.038	4.131	17.849	3.716	0.751
			28:COM15	16:COM3	28:COM15	16:COM3	28:COM15	28:COM15
			-70.032	-12.199	-6.214	-9.554	-6.758	-116.757
			22:COM9	26:COM13	22:COM9	26:COM13	22:COM9	22:COM9
2507	1291	+ve	29.177	46.237	5.040	14.295	5.734	4.947
			28:COM15	16:COM3	24:COM11	16:COM3	16:COM3	28:COM15
			-89.268	-19.758	-10.145	-7.229	-2.507	-101.917
			22:COM9	26:COM13	18:COM5	26:COM13	26:COM13	22:COM9
	244	-ve	29.177	40.288	5.040	14.295	7.036	34.873
			28:COM15	16:COM3	24:COM11	16:COM3	24:COM11	24:COM11
			-89.268	-24.220	-10.145	-7.229	-13.387	-171.748
			22:COM9	26:COM13	18:COM5	26:COM13	18:COM5	18:COM5
2508	1295	+ve	36.411	19.288	0.445	1.342	0.429	11.922
			20:COM7	28:COM15	16:COM3	28:COM15	28:COM15	24:COM11
			-32.059	-21.813	-0.349	-1.586	-0.678	-23.389
			30:COM17	22:COM9	26:COM13	22:COM9	22:COM9	18:COM5
	268	-ve	36.411	16.629	0.445	1.342	1.316	70.851
			20:COM7	28:COM15	16:COM3	28:COM15	16:COM3	20:COM7
			-32.059	-25.357	-0.349	-1.586	-1.198	-60.703
			30:COM17	22:COM9	26:COM13	22:COM9	26:COM13	30:COM17

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
2509	1299	+ve	76.132	100.989	3.909	9.711	0.926	14.004
			28:COM15	28:COM15	20:COM7	28:COM15	28:COM15	24:COM17
			-161.266	-102.885	-0.638	-14.005	-4.653	-133.010
			22:COM9	22:COM9	30:COM17	22:COM9	22:COM9	18:COM5
	1300	-ve	76.132	96.499	3.909	9.711	2.783	104.651
			28:COM15	28:COM15	20:COM7	28:COM15	20:COM7	28:COM15
			-161.266	-108.873	-0.638	-14.005	-0.334	-210.187
			22:COM9	22:COM9	30:COM17	22:COM9	30:COM17	22:COM9
2510	1300	+ve	145.514	85.917	0.000	9.520	3.741	57.826
			28:COM15	28:COM15	-	20:COM7	16:COM3	28:COM15
			-217.747	-116.867	-1.825	-8.895	-0.669	-169.800
			22:COM9	22:COM9	18:COM5	30:COM17	26:COM13	22:COM9
	1301	-ve	145.514	81.427	0.000	9.520	2.037	265.496
			28:COM15	28:COM15	-	20:COM7	24:COM11	28:COM15
			-217.747	-122.854	-1.825	-8.895	-2.923	-309.158
			22:COM9	22:COM9	18:COM5	30:COM17	18:COM5	22:COM9
2511	1301	+ve	228.508	67.132	0.000	8.071	9.861	209.918
			28:COM15	28:COM15	-	20:COM7	16:COM3	28:COM15
			-265.241	-123.333	-9.463	-1.867	0.000	-274.676
			22:COM9	22:COM9	35:CVOL4	30:COM17	-	22:COM9
	1302	-ve	228.508	62.642	0.000	8.071	0.000	432.717
			28:COM15	28:COM15	-	20:COM7	-	20:COM7
			-265.241	-129.320	-9.463	-1.867	-8.911	-381.496
			22:COM9	22:COM9	35:CVOL4	30:COM17	22:COM9	30:COM17
2512	1302	+ve	246.078	57.305	0.000	18.059	13.384	420.019
			28:COM15	28:COM15	-	20:COM7	20:COM7	20:COM7
			-267.606	-138.565	-18.840	-1.333	-1.163	-374.346
			22:COM9	22:COM9	18:COM5	30:COM17	30:COM17	30:COM17
	291	-ve	246.078	56.065	0.000	18.059	7.918	492.686
			28:COM15	28:COM15	-	20:COM7	24:COM11	20:COM7
			-267.606	-140.219	-18.840	-1.333	-7.195	-403.895
			22:COM9	22:COM9	18:COM5	30:COM17	18:COM5	30:COM17
2513	1303	+ve	13.768	41.160	1.954	3.516	3.302	49.940
			24:COM17	16:COM3	24:COM11	20:COM7	16:COM3	16:COM3
			-29.156	-7.858	-3.698	-0.781	-1.416	-43.514
			18:COM5	26:COM13	18:COM5	30:COM17	26:COM13	26:COM13
	1304	-ve	13.768	38.282	1.954	3.516	2.132	0.000
			24:COM17	16:COM3	24:COM11	20:COM7	24:COM11	-
			-29.156	-10.017	-3.698	-0.781	-3.411	-44.779
			18:COM5	26:COM13	18:COM5	30:COM17	18:COM5	18:COM5
2514	1304	+ve	4.368	23.553	4.841	1.283	2.700	0.000
			28:COM15	20:COM7	16:COM3	16:COM3	24:COM11	-
			-35.570	-17.836	-2.611	-0.474	-3.583	-45.324
			22:COM9	30:COM17	26:COM13	26:COM13	18:COM5	18:COM5
	1305	-ve	4.368	20.674	4.841	1.283	5.205	15.695
			28:COM15	20:COM7	16:COM3	16:COM3	16:COM3	28:COM15
			-35.570	-19.995	-2.611	-0.474	-2.041	-68.758
			22:COM9	30:COM17	26:COM13	26:COM13	26:COM13	22:COM9

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
2515	1305	+ve	27.124	12.531	5.835	0.827	0.000	11.866
			28:COM15	28:COM15	20:COM7	24:COM17	-	28:COM15
			-46.939	-35.470	0.000	-2.679	-5.805	-66.852
			22:COM9	22:COM9	-	18:COM5	22:COM9	22:COM9
	1306	-ve	27.124	10.372	5.835	0.827	5.640	65.478
			28:COM15	28:COM15	20:COM7	24:COM17	16:COM3	28:COM15
			-46.939	-38.348	0.000	-2.679	0.000	-74.255
			22:COM9	22:COM9	-	18:COM5	-	22:COM9
2516	1306	+ve	72.012	2.744	4.773	0.000	0.000	59.494
			20:COM7	28:COM15	20:COM7	-	-	28:COM15
			-50.380	-54.786	0.000	-8.812	-5.842	-74.860
			30:COM17	22:COM9	-	18:COM5	22:COM9	22:COM9
	246	-ve	72.012	0.434	4.773	0.000	3.456	164.035
			20:COM7	28:COM15	20:COM7	-	20:COM7	20:COM7
			-50.380	-57.866	0.000	-8.812	0.000	-73.077
			30:COM17	22:COM9	-	18:COM5	-	30:COM17
2517	1317	+ve	26.177	17.252	4.471	9.538	0.001	22.799
			28:COM15	28:COM15	20:COM7	20:COM7	24:COM11	28:COM15
			-69.891	-22.191	0.000	-4.543	-5.908	-38.062
			22:COM9	22:COM9	-	30:COM17	18:COM5	22:COM9
	291	-ve	26.177	11.987	4.471	9.538	6.299	88.469
			28:COM15	28:COM15	20:COM7	20:COM7	20:COM7	20:COM7
			-69.891	-30.482	0.000	-4.543	0.000	-72.726
			22:COM9	22:COM9	-	30:COM17	-	30:COM17
2518	1318	+ve	16.711	29.438	2.719	3.972	0.212	23.618
			28:COM15	20:COM7	20:COM7	28:COM15	28:COM15	16:COM3
			-34.493	-12.908	-0.549	-4.791	-3.161	-20.591
			22:COM9	30:COM17	30:COM17	22:COM9	22:COM9	26:COM13
	1317	-ve	16.711	21.148	2.719	3.972	4.085	24.503
			28:COM15	20:COM7	20:COM7	28:COM15	20:COM7	28:COM15
			-34.493	-18.173	-0.549	-4.791	-1.289	-47.286
			22:COM9	30:COM17	30:COM17	22:COM9	30:COM17	22:COM9
2519	1450	+ve	0.000	8.101	0.005	0.100	0.005	6.291
			-	35:CVOL4	16:COM3	20:COM7	24:COM11	35:CVOL4
			-12.377	0.000	0.000	0.000	-0.008	0.000
			22:COM9	-	-	-	18:COM5	-
	1181	-ve	0.000	0.000	0.005	0.100	0.021	13.561
			-	-	16:COM3	20:COM7	16:COM3	34:CVOL3
			-12.377	-10.463	0.000	0.000	0.000	0.000
			22:COM9	34:CVOL3	-	-	-	-
2520	1449	+ve	0.000	7.628	0.003	0.076	0.027	5.001
			-	35:CVOL4	28:COM15	16:COM3	20:COM7	20:COM7
			-7.307	0.000	-0.007	0.000	-0.009	0.000
			22:COM9	-	22:COM9	-	30:COM17	-
	1182	-ve	0.000	0.000	0.003	0.076	0.011	14.853
			-	-	28:COM15	16:COM3	28:COM15	34:CVOL3
			-7.307	-10.942	-0.007	0.000	-0.015	0.000
			22:COM9	34:CVOL3	22:COM9	-	22:COM9	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
2521	1448	+ve	0.359	7.407	0.004	0.051	0.019	4.157
			28:COM1	35:CVOL4	28:COM1	16:COM3	20:COM7	20:COM7
			-4.739	0.000	-0.006	-0.016	-0.012	0.000
			22:COM9	-	22:COM9	26:COM1	30:COM1	-
	1183	-ve	0.359	0.000	0.004	0.051	0.011	15.418
			28:COM1	-	28:COM1	16:COM3	28:COM1	34:CVOL3
			-4.739	-11.168	-0.006	-0.016	-0.018	0.000
			22:COM9	34:CVOL3	22:COM9	26:COM1	22:COM9	-
2522	1447	+ve	0.627	7.521	0.003	0.017	0.018	4.184
			28:COM1	35:CVOL4	28:COM1	24:COM1	20:COM7	20:COM7
			-3.178	0.000	-0.007	-0.053	-0.012	0.000
			22:COM9	-	22:COM9	18:COM5	30:COM1	-
	1184	-ve	0.627	0.000	0.003	0.017	0.009	14.961
			28:COM1	-	28:COM1	24:COM1	28:COM1	34:CVOL3
			-3.178	-11.055	-0.007	-0.053	-0.026	0.000
			22:COM9	34:CVOL3	22:COM9	18:COM5	22:COM9	-
2523	1446	+ve	0.323	7.956	0.003	0.000	0.015	5.356
			28:COM1	35:CVOL4	28:COM1	-	20:COM7	35:CVOL4
			-3.371	0.000	-0.007	-0.076	-0.012	0.000
			22:COM9	-	22:COM9	18:COM5	30:COM1	-
	1185	-ve	0.323	0.000	0.003	0.000	0.007	13.518
			28:COM1	-	28:COM1	-	28:COM1	34:CVOL3
			-3.371	-10.610	-0.007	-0.076	-0.030	0.000
			22:COM9	34:CVOL3	22:COM9	18:COM5	22:COM9	-
2524	1445	+ve	0.000	8.577	0.002	0.000	0.000	7.300
			-	35:CVOL4	28:COM1	-	-	35:CVOL4
			-6.949	0.000	-0.001	-0.081	-0.010	0.000
			22:COM9	-	22:COM9	22:COM9	22:COM9	-
	1186	-ve	0.000	0.000	0.002	0.000	0.003	11.591
			-	-	28:COM1	-	28:COM1	34:CVOL3
			-6.949	-9.970	-0.001	-0.081	-0.013	0.000
			22:COM9	34:CVOL3	22:COM9	22:COM9	22:COM9	-
2525	1456	+ve	0.000	8.671	0.000	0.062	0.018	7.486
			-	35:CVOL4	28:COM1	20:COM7	20:COM7	35:CVOL4
			-5.665	0.000	-0.003	0.000	0.000	0.000
			22:COM9	-	22:COM9	-	-	-
	1187	-ve	0.000	0.000	0.000	0.062	0.004	11.289
			-	-	28:COM1	20:COM7	20:COM7	34:CVOL3
			-5.665	-9.896	-0.003	0.000	-0.003	0.000
			22:COM9	34:CVOL3	22:COM9	-	30:COM1	-
2526	1455	+ve	0.190	8.151	0.002	0.080	0.007	5.746
			16:COM3	35:CVOL4	20:COM7	16:COM3	20:COM7	35:CVOL4
			-1.784	0.000	-0.002	0.000	0.000	0.000
			32:CVOL1	-	30:COM1	-	-	-
	1188	-ve	0.190	0.000	0.002	0.080	0.014	12.888
			16:COM3	-	20:COM7	16:COM3	20:COM7	34:CVOL3
			-1.784	-10.455	-0.002	0.000	-0.004	0.000
			32:CVOL1	34:CVOL3	30:COM1	-	30:COM1	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
2527	1454	+ve	0.929	7.822	0.001	0.061	0.007	4.705
			35:CVOL4	35:CVOL4	28:COM15	16:COM3	20:COM7	35:CVOL4
			-1.141	0.000	-0.002	-0.027	-0.001	0.000
			32:CVOL1	-	22:COM9	26:COM13	30:COM17	-
	1189	-ve	0.929	0.000	0.001	0.061	0.009	13.967
			35:CVOL4	-	28:COM15	16:COM3	20:COM7	34:CVOL3
			-1.141	-10.810	-0.002	-0.027	-0.007	0.000
			32:CVOL1	34:CVOL3	22:COM9	26:COM13	30:COM17	-
2528	1453	+ve	0.699	7.817	0.000	0.020	0.010	4.703
			35:CVOL4	35:CVOL4	28:COM15	24:COM11	20:COM7	35:CVOL4
			-1.347	0.000	-0.004	-0.051	-0.001	0.000
			32:CVOL1	-	22:COM9	18:COM5	30:COM17	-
	1190	-ve	0.699	0.000	0.000	0.020	0.001	14.002
			35:CVOL4	-	28:COM15	24:COM11	28:COM15	34:CVOL3
			-1.347	-10.816	-0.004	-0.051	-0.014	0.000
			32:CVOL1	34:CVOL3	22:COM9	18:COM5	22:COM9	-
2529	1452	+ve	0.562	8.145	0.000	0.000	0.011	5.976
			28:COM15	35:CVOL4	-	-	16:COM3	16:COM3
			-2.796	0.000	-0.005	-0.057	-0.003	0.000
			22:COM9	-	22:COM9	35:CVOL4	26:COM13	-
	1191	-ve	0.562	0.000	0.000	0.000	0.000	12.947
			28:COM15	-	-	-	-	34:CVOL3
			-2.796	-10.463	-0.005	-0.057	-0.019	0.000
			22:COM9	34:CVOL3	22:COM9	35:CVOL4	34:CVOL3	-
2530	1451	+ve	1.266	8.686	0.005	0.024	0.014	7.541
			28:COM15	35:CVOL4	24:COM11	24:COM11	24:COM11	35:CVOL4
			-8.237	0.000	-0.006	-0.099	-0.021	0.000
			22:COM9	-	18:COM5	18:COM5	18:COM5	-
	1192	-ve	1.266	0.000	0.005	0.024	0.008	11.244
			28:COM15	-	24:COM11	24:COM11	24:COM11	34:CVOL3
			-8.237	-9.878	-0.006	-0.099	-0.022	0.000
			22:COM9	34:CVOL3	18:COM5	18:COM5	18:COM5	-
2531	1198	+ve	0.962	8.832	0.004	0.017	0.019	11.963
			28:COM15	34:CVOL3	24:COM11	28:COM15	16:COM3	20:COM7
			-16.197	0.000	-0.005	-0.033	-0.009	0.000
			22:COM9	-	18:COM5	22:COM9	26:COM13	-
	1418	-ve	0.962	0.000	0.004	0.017	0.017	8.976
			28:COM15	-	24:COM11	28:COM15	24:COM11	35:CVOL4
			-16.197	-8.204	-0.005	-0.033	-0.013	0.000
			22:COM9	35:CVOL4	18:COM5	22:COM9	18:COM5	-
2532	1199	+ve	1.798	8.762	0.009	0.004	0.023	11.272
			28:COM15	34:CVOL3	20:COM7	28:COM15	28:COM15	20:COM7
			-6.442	0.000	-0.006	-0.022	-0.029	0.000
			22:COM9	-	30:COM17	22:COM9	22:COM9	-
	1417	-ve	1.798	0.000	0.009	0.004	0.032	8.967
			28:COM15	-	20:COM7	28:COM15	20:COM7	35:CVOL4
			-6.442	-8.263	-0.006	-0.022	-0.020	0.000
			22:COM9	35:CVOL4	30:COM17	22:COM9	30:COM17	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
2533	1200	+ve	1.681	8.671	0.009	0.015	0.024	10.353
			28:COM15	34:CVOL3	20:COM7	24:COM11	28:COM15	20:COM7
			-2.736	0.000	-0.007	-0.019	-0.033	0.000
			22:COM9	-	30:COM17	18:COM5	22:COM9	-
	1416	-ve	1.681	0.000	0.009	0.015	0.028	9.100
			28:COM15	-	20:COM7	24:COM11	20:COM7	35:CVOL4
			-2.736	-8.336	-0.007	-0.019	-0.023	0.000
			22:COM9	35:CVOL4	30:COM17	18:COM5	30:COM17	-
2534	1201	+ve	1.085	8.589	0.008	0.022	0.022	9.946
			28:COM15	34:CVOL3	20:COM7	16:COM3	28:COM15	34:CVOL3
			-2.335	0.000	-0.007	-0.011	-0.031	0.000
			22:COM9	-	30:COM17	26:COM13	22:COM9	-
	1415	-ve	1.085	0.000	0.008	0.022	0.021	9.286
			28:COM15	-	20:COM7	16:COM3	20:COM7	35:CVOL4
			-2.335	-8.404	-0.007	-0.011	-0.024	0.000
			22:COM9	35:CVOL4	30:COM17	26:COM13	30:COM17	-
2535	1202	+ve	0.000	8.509	0.003	0.021	0.009	9.719
			-	34:CVOL3	20:COM7	20:COM7	28:COM15	34:CVOL3
			-5.010	0.000	-0.003	-0.004	-0.016	0.000
			22:COM9	-	30:COM17	30:COM17	22:COM9	-
	1414	-ve	0.000	0.000	0.003	0.021	0.007	9.577
			-	-	20:COM7	20:COM7	28:COM15	35:CVOL4
			-5.010	-8.472	-0.003	-0.004	-0.014	0.000
			22:COM9	35:CVOL4	30:COM17	30:COM17	22:COM9	-
2536	1193	+ve	0.000	8.547	0.002	0.000	0.014	9.909
			-	34:CVOL3	24:COM11	-	16:COM3	34:CVOL3
			-4.779	0.000	-0.003	-0.016	-0.002	0.000
			22:COM9	-	18:COM5	22:COM9	26:COM13	-
	1423	-ve	0.000	0.000	0.002	0.000	0.010	9.505
			-	-	24:COM11	-	20:COM7	34:CVOL3
			-4.779	-8.429	-0.003	-0.016	-0.006	0.000
			22:COM9	35:CVOL4	18:COM5	22:COM9	30:COM17	-
2537	1194	+ve	0.461	8.683	0.001	0.008	0.020	10.390
			28:COM15	34:CVOL3	24:COM11	24:COM11	20:COM7	34:CVOL3
			-2.186	0.000	-0.004	-0.018	-0.001	0.000
			22:COM9	-	18:COM5	18:COM5	30:COM17	-
	1422	-ve	0.461	0.000	0.001	0.008	0.008	9.076
			28:COM15	-	24:COM11	24:COM11	24:COM11	35:CVOL4
			-2.186	-8.297	-0.004	-0.018	-0.012	0.000
			22:COM9	35:CVOL4	18:COM5	18:COM5	18:COM5	-
2538	1195	+ve	0.476	8.833	0.000	0.019	0.021	11.024
			28:COM15	34:CVOL3	28:COM15	16:COM3	20:COM7	34:CVOL3
			-2.685	0.000	-0.005	-0.013	-0.001	0.000
			22:COM9	-	22:COM9	26:COM13	30:COM17	-
	1421	-ve	0.476	0.000	0.000	0.019	0.004	8.710
			28:COM15	-	28:COM15	16:COM3	24:COM11	35:CVOL4
			-2.685	-8.152	-0.005	-0.013	-0.018	0.000
			22:COM9	35:CVOL4	22:COM9	26:COM13	18:COM5	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
2539	1196	+ve	0.000	8.995	0.000	0.023	0.014	11.773
			-	34:CVOL3	24:COM11	16:COM3	20:COM7	34:CVOL3
			-6.809	0.000	-0.005	-0.004	-0.002	0.000
			22:COM9	-	18:COM5	26:COM13	30:COM17	-
	1420	-ve	0.000	0.000	0.000	0.023	0.002	8.373
			-	-	24:COM11	16:COM3	24:COM11	35:CVOL4
			-6.809	-7.994	-0.005	-0.004	-0.022	0.000
			22:COM9	35:CVOL4	18:COM5	26:COM13	18:COM5	-
2540	1197	+ve	0.000	9.115	0.006	0.017	0.000	12.472
			-	34:CVOL3	20:COM7	16:COM3	-	34:CVOL3
			-17.482	0.000	-0.000	0.000	-0.028	0.000
			22:COM9	-	30:COM17	-	22:COM9	-
	1419	-ve	0.000	0.000	0.006	0.017	0.015	8.273
			-	-	20:COM7	16:COM3	20:COM7	35:CVOL4
			-17.482	-7.878	-0.000	0.000	-0.003	0.000
			22:COM9	35:CVOL4	30:COM17	-	30:COM17	-
2541	1203	+ve	0.000	8.731	0.001	0.000	0.013	10.719
			-	34:CVOL3	28:COM15	-	20:COM7	34:CVOL3
			-10.956	0.000	-0.003	-0.018	-0.001	0.000
			22:COM9	-	22:COM9	18:COM5	30:COM17	-
	1428	-ve	0.000	0.000	0.001	0.000	0.005	9.076
			-	-	28:COM15	-	28:COM15	35:CVOL4
			-10.956	-8.247	-0.003	-0.018	-0.006	0.000
			22:COM9	35:CVOL4	22:COM9	18:COM5	22:COM9	-
2542	1204	+ve	0.000	8.701	0.002	0.005	0.003	10.421
			-	34:CVOL3	16:COM3	24:COM11	24:COM11	34:CVOL3
			-3.711	0.000	-0.000	-0.024	-0.003	0.000
			22:COM9	-	26:COM13	18:COM5	18:COM5	-
	1427	-ve	0.000	0.000	0.002	0.005	0.010	8.983
			-	-	16:COM3	24:COM11	16:COM3	35:CVOL4
			-3.711	-8.277	-0.000	-0.024	-0.002	0.000
			22:COM9	35:CVOL4	26:COM13	18:COM5	26:COM13	-
2543	1205	+ve	0.506	8.628	0.001	0.015	0.003	10.066
			20:COM7	34:CVOL3	20:COM7	24:COM11	24:COM11	34:CVOL3
			-1.041	0.000	-0.001	-0.017	-0.006	0.000
			30:COM17	-	30:COM17	18:COM5	18:COM5	-
	1426	-ve	0.506	0.000	0.001	0.015	0.006	9.113
			20:COM7	-	20:COM7	24:COM11	16:COM3	35:CVOL4
			-1.041	-8.348	-0.001	-0.017	-0.004	0.000
			30:COM17	35:CVOL4	30:COM17	18:COM5	26:COM13	-
2544	1206	+ve	0.479	8.557	0.001	0.021	0.002	9.784
			20:COM7	34:CVOL3	24:COM11	16:COM3	24:COM11	34:CVOL3
			-1.269	0.000	-0.001	-0.006	-0.005	0.000
			30:COM17	-	18:COM5	26:COM13	18:COM5	-
	1425	-ve	0.479	0.000	0.001	0.021	0.002	9.313
			20:COM7	-	24:COM11	16:COM3	24:COM11	35:CVOL4
			-1.269	-8.419	-0.001	-0.006	-0.010	0.000
			30:COM17	35:CVOL4	18:COM5	26:COM13	18:COM5	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
2545	1207	+ve	0.000	8.482	0.002	0.017	0.004	9.596
			-	34:CVOL3	28:COM15	16:COM3	28:COM15	34:CVOL3
			-4.569	0.000	-0.002	0.000	-0.009	0.000
			22:COM9	-	22:COM9	-	22:COM9	-
	1424	-ve	0.000	0.000	0.002	0.017	0.003	9.627
			-	-	28:COM15	16:COM3	28:COM15	34:CVOL3
			-4.569	-8.492	-0.002	0.000	-0.012	0.000
			22:COM9	35:CVOL4	22:COM9	-	22:COM9	-
2546	1208	+ve	0.000	8.466	0.004	0.000	0.011	9.517
			-	34:CVOL3	20:COM7	28:COM15	20:COM7	34:CVOL3
			-4.644	0.000	-0.002	-0.018	-0.010	0.000
			22:COM9	-	30:COM17	22:COM9	30:COM17	-
	1433	-ve	0.000	0.000	0.004	0.000	0.016	9.658
			-	-	20:COM7	28:COM15	16:COM3	34:CVOL3
			-4.644	-8.510	-0.002	-0.018	-0.002	0.000
			22:COM9	35:CVOL4	30:COM17	22:COM9	26:COM13	-
2547	1209	+ve	1.294	8.529	0.007	0.005	0.024	9.653
			20:COM7	34:CVOL3	20:COM7	24:COM11	20:COM7	34:CVOL3
			-1.833	0.000	-0.005	-0.017	-0.024	0.000
			30:COM17	-	30:COM17	18:COM5	30:COM17	-
	1432	-ve	1.294	0.000	0.007	0.005	0.025	9.375
			20:COM7	-	20:COM7	24:COM11	20:COM7	35:CVOL4
			-1.833	-8.453	-0.005	-0.017	-0.014	0.000
			30:COM17	35:CVOL4	30:COM17	18:COM5	30:COM17	-
2548	1210	+ve	2.138	8.587	0.007	0.016	0.025	9.871
			20:COM7	34:CVOL3	28:COM15	16:COM3	20:COM7	34:CVOL3
			-2.367	0.000	-0.006	-0.011	-0.026	0.000
			30:COM17	-	22:COM9	26:COM13	30:COM17	-
	1431	-ve	2.138	0.000	0.007	0.016	0.022	9.223
			20:COM7	-	28:COM15	16:COM3	28:COM15	35:CVOL4
			-2.367	-8.405	-0.006	-0.011	-0.019	0.000
			30:COM17	35:CVOL4	22:COM9	26:COM13	22:COM9	-
2549	1211	+ve	2.821	8.636	0.007	0.024	0.019	10.541
			28:COM15	34:CVOL3	28:COM15	16:COM3	20:COM7	20:COM7
			-6.353	0.000	-0.006	-0.001	-0.025	0.000
			22:COM9	-	22:COM9	26:COM13	30:COM17	-
	1430	-ve	2.821	0.000	0.007	0.024	0.021	9.173
			28:COM15	-	28:COM15	16:COM3	28:COM15	35:CVOL4
			-6.353	-8.368	-0.006	-0.001	-0.022	0.000
			22:COM9	35:CVOL4	22:COM9	26:COM13	22:COM9	-
2550	1212	+ve	3.846	8.656	0.004	0.023	0.005	11.211
			28:COM15	34:CVOL3	16:COM3	20:COM7	24:COM11	20:COM7
			-16.739	0.000	-0.003	0.000	-0.014	0.000
			22:COM9	-	26:COM13	-	18:COM5	-
	1429	-ve	3.846	0.000	0.004	0.023	0.010	9.300
			28:COM15	-	16:COM3	20:COM7	24:COM11	35:CVOL4
			-16.739	-8.354	-0.003	0.000	-0.013	0.000
			22:COM9	35:CVOL4	26:COM13	-	18:COM5	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
2563	1439	+ve	1.053	8.726	0.021	0.123	0.029	8.865
			28:COM15	34:CVOL3	20:COM7	20:COM7	28:COM15	34:CVOL3
			-8.726	0.000	-0.009	-0.036	-0.053	0.000
			22:COM9	-	30:COM17	30:COM17	22:COM9	-
	5720	-ve	1.053	0.000	0.021	0.123	0.064	8.104
			28:COM15	-	20:COM7	20:COM7	20:COM7	35:CVOL4
			-8.726	-8.452	-0.009	-0.036	-0.022	0.000
			22:COM9	35:CVOL4	30:COM17	30:COM17	30:COM17	-
2564	1438	+ve	0.000	8.224	0.033	0.204	0.058	7.537
			-	34:CVOL3	20:COM7	20:COM7	28:COM15	16:COM3
			-5.444	0.000	-0.018	-0.063	-0.094	0.000
			22:COM9	-	30:COM17	30:COM17	22:COM9	-
	295	-ve	0.000	0.000	0.033	0.204	0.093	9.854
			-	-	20:COM7	20:COM7	20:COM7	16:COM3
			-5.444	-8.960	-0.018	-0.063	-0.045	0.000
			22:COM9	35:CVOL4	30:COM17	30:COM17	30:COM17	-
2565	1437	+ve	0.000	7.867	0.034	0.160	0.066	8.655
			-	20:COM7	20:COM7	20:COM7	28:COM15	20:COM7
			-5.160	0.000	-0.020	-0.071	-0.101	-0.784
			22:COM9	-	30:COM17	30:COM17	22:COM9	30:COM17
	1227	-ve	0.000	0.000	0.034	0.160	0.090	13.876
			-	-	20:COM7	20:COM7	20:COM7	20:COM7
			-5.160	-9.460	-0.020	-0.071	-0.048	0.000
			22:COM9	35:CVOL4	30:COM17	30:COM17	30:COM17	-
2566	1436	+ve	0.461	8.247	0.012	0.014	0.013	9.524
			24:COM17	20:COM7	20:COM7	28:COM15	28:COM15	20:COM7
			-7.764	0.000	-0.002	-0.027	-0.042	-2.505
			18:COM5	-	30:COM17	22:COM9	22:COM9	30:COM17
	1226	-ve	0.461	0.000	0.012	0.014	0.025	16.418
			24:COM17	-	20:COM7	28:COM15	20:COM7	20:COM7
			-7.764	-10.159	-0.002	-0.027	0.000	-1.286
			18:COM5	22:COM9	30:COM17	22:COM9	-	30:COM17
2567	1435	+ve	0.629	8.136	0.026	0.033	0.076	9.158
			24:COM17	20:COM7	20:COM7	24:COM17	28:COM15	20:COM7
			-8.670	0.000	-0.023	-0.136	-0.091	-1.058
			18:COM5	-	30:COM17	18:COM5	22:COM9	30:COM17
	1229	-ve	0.629	0.000	0.026	0.033	0.059	14.757
			24:COM17	-	20:COM7	24:COM17	28:COM15	20:COM7
			-8.670	-9.642	-0.023	-0.136	-0.055	-0.112
			18:COM5	22:COM9	30:COM17	18:COM5	22:COM9	30:COM17
2568	1434	+ve	0.000	8.597	0.022	0.053	0.068	8.764
			-	35:CVOL4	28:COM15	24:COM17	28:COM15	20:COM7
			-9.538	0.000	-0.022	-0.186	-0.076	0.000
			18:COM5	-	22:COM9	18:COM5	22:COM9	-
	1228	-ve	0.000	0.000	0.022	0.053	0.055	11.558
			-	-	28:COM15	24:COM17	28:COM15	20:COM7
			-9.538	-9.399	-0.022	-0.186	-0.062	0.000
			18:COM5	34:CVOL3	22:COM9	18:COM5	22:COM9	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
2569	5720	+ve	18.873	9.131	0.004	0.000	0.049	12.127
			28:COM15	34:CVOL3	24:COM11	-	16:COM3	20:COM7
			-21.756	0.000	-0.022	-0.314	-0.011	0.000
			22:COM9	-	18:COM5	18:COM5	26:COM13	-
	1512	-ve	18.873	0.000	0.004	0.000	0.009	1.411
			28:COM15	-	24:COM11	-	24:COM11	20:COM7
			-21.756	-5.001	-0.022	-0.314	-0.052	-1.166
			22:COM9	35:CVOL4	18:COM5	18:COM5	18:COM5	30:COM17
2573	1229	+ve	1.673	10.525	0.083	0.321	0.109	14.331
			28:COM15	34:CVOL3	20:COM7	16:COM3	28:COM15	34:CVOL3
			-9.052	0.000	-0.059	-0.011	-0.163	0.000
			22:COM9	-	30:COM17	26:COM13	22:COM9	-
	1520	-ve	1.673	0.000	0.083	0.321	0.213	0.000
			28:COM15	-	20:COM7	16:COM3	20:COM7	-
			-9.052	-3.596	-0.059	-0.011	-0.159	-2.255
			22:COM9	35:CVOL4	30:COM17	26:COM13	30:COM17	34:CVOL3
2574	1228	+ve	0.000	8.793	0.074	0.343	0.091	9.789
			-	34:CVOL3	20:COM7	16:COM3	28:COM15	34:CVOL3
			-4.505	0.000	-0.053	0.000	-0.138	0.000
			34:CVOL3	-	30:COM17	-	22:COM9	-
	1519	-ve	0.000	0.000	0.074	0.343	0.183	0.468
			-	-	20:COM7	16:COM3	20:COM7	20:COM7
			-4.505	-4.548	-0.053	0.000	-0.140	-0.218
			34:CVOL3	35:CVOL4	30:COM17	-	30:COM17	30:COM17
2575	1522	+ve	0.000	2.707	0.000	0.051	0.142	0.213
			-	34:CVOL3	-	20:COM7	20:COM7	20:COM7
			-5.669	0.000	-0.088	-0.021	0.000	-0.177
			22:COM9	-	22:COM9	30:COM17	-	30:COM17
	1439	-ve	0.000	0.000	0.000	0.051	0.000	6.236
			-	-	-	20:COM7	-	35:CVOL4
			-5.669	-6.669	-0.088	-0.021	-0.126	0.000
			22:COM9	35:CVOL4	22:COM9	30:COM17	22:COM9	-
2576	1523	+ve	0.000	2.261	0.009	0.079	0.115	0.000
			-	34:CVOL3	28:COM15	20:COM7	20:COM7	-
			-6.022	0.000	-0.074	0.000	-0.006	-0.738
			22:COM9	-	22:COM9	-	30:COM17	22:COM9
	1438	-ve	0.000	0.000	0.009	0.079	0.021	6.922
			-	-	28:COM15	20:COM7	28:COM15	35:CVOL4
			-6.022	-7.134	-0.074	0.000	-0.112	0.000
			22:COM9	35:CVOL4	22:COM9	-	22:COM9	-
2577	1524	+ve	0.000	1.913	0.034	0.053	0.086	0.000
			-	34:CVOL3	28:COM15	16:COM3	20:COM7	-
			-6.803	0.000	-0.061	0.000	-0.042	-1.104
			22:COM9	-	22:COM9	-	30:COM17	22:COM9
	1437	-ve	0.000	0.000	0.034	0.053	0.062	7.503
			-	-	28:COM15	16:COM3	28:COM15	35:CVOL4
			-6.803	-7.450	-0.061	0.000	-0.099	0.000
			22:COM9	35:CVOL4	22:COM9	-	22:COM9	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
2578	1525	+ve	0.000	1.805	0.052	0.023	0.063	0.000
			-	20:COM7	20:COM7	24:COM1	28:COM1	-
			-7.581	0.000	-0.042	-0.059	-0.079	-1.331
			22:COM9	-	30:COM1	18:COM5	22:COM9	22:COM9
	1436	-ve	0.000	0.000	0.052	0.023	0.080	7.762
			-	-	20:COM7	24:COM1	20:COM7	20:COM7
			-7.581	-7.537	-0.042	-0.059	-0.066	0.000
			22:COM9	35:CVOL4	30:COM1	18:COM5	30:COM1	-
2579	1526	+ve	0.000	2.253	0.107	0.000	0.098	0.000
			-	20:COM7	20:COM7	-	28:COM1	-
			-7.438	-0.040	-0.069	-0.127	-0.164	-1.396
			22:COM9	30:COM1	30:COM1	18:COM5	22:COM9	22:COM9
	1435	-ve	0.000	0.000	0.107	0.000	0.164	7.907
			-	-	20:COM7	-	20:COM7	20:COM7
			-7.438	-7.324	-0.069	-0.127	-0.113	0.000
			22:COM9	35:CVOL4	30:COM1	18:COM5	30:COM1	-
2580	1527	+ve	0.877	2.940	0.078	0.000	0.042	0.521
			28:COM1	20:COM7	20:COM7	-	28:COM1	28:COM1
			-6.240	0.000	-0.032	-0.143	-0.121	-1.025
			22:COM9	-	30:COM1	18:COM5	22:COM9	22:COM9
	1434	-ve	0.877	0.000	0.078	0.000	0.117	6.880
			28:COM1	-	20:COM7	-	20:COM7	20:COM7
			-6.240	-6.686	-0.032	-0.143	-0.057	0.000
			22:COM9	35:CVOL4	30:COM1	18:COM5	30:COM1	-
2597	1188	+ve	0.000	9.586	0.021	0.000	0.030	12.379
			-	34:CVOL3	16:COM3	-	24:COM1	34:CVOL3
			-7.758	0.000	-0.015	-0.290	-0.035	0.000
			34:CVOL3	-	26:COM1	34:CVOL3	18:COM5	-
	1508	-ve	0.000	0.000	0.021	0.000	0.053	0.000
			-	-	16:COM3	-	16:COM3	-
			-7.758	-3.526	-0.015	-0.290	-0.033	-1.310
			34:CVOL3	35:CVOL4	26:COM1	34:CVOL3	26:COM1	34:CVOL3
2598	1189	+ve	0.000	10.597	0.022	0.000	0.049	15.342
			-	34:CVOL3	24:COM1	-	16:COM3	34:CVOL3
			-12.268	0.000	-0.025	-0.180	-0.041	0.000
			34:CVOL3	-	18:COM5	22:COM9	26:COM1	-
	1539	-ve	0.000	0.000	0.022	0.000	0.051	0.000
			-	-	24:COM1	-	24:COM1	-
			-12.268	-2.770	-0.025	-0.180	-0.054	-2.536
			34:CVOL3	35:CVOL4	18:COM5	22:COM9	18:COM5	34:CVOL3
2599	1190	+ve	0.000	10.934	0.022	0.085	0.066	16.325
			-	34:CVOL3	24:COM1	20:COM7	16:COM3	34:CVOL3
			-13.898	0.000	-0.035	-0.065	-0.041	0.000
			34:CVOL3	-	18:COM5	30:COM1	26:COM1	-
	1540	-ve	0.000	0.000	0.022	0.085	0.049	0.000
			-	-	24:COM1	20:COM7	24:COM1	-
			-13.898	-2.481	-0.035	-0.065	-0.078	-2.954
			34:CVOL3	35:CVOL4	18:COM5	30:COM1	18:COM5	34:CVOL3

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
2600	1191	+ve	0.000	10.566	0.022	0.232	0.081	15.113
			-	34:CVOL3	24:COM11	20:COM7	16:COM3	34:CVOL3
			-13.195	0.000	-0.044	-0.001	-0.043	0.000
			22:COM9	-	18:COM5	30:COM17	26:COM13	-
	1541	-ve	0.000	0.000	0.022	0.232	0.046	0.000
			-	-	24:COM11	20:COM7	24:COM11	-
			-13.195	-2.695	-0.044	-0.001	-0.099	-2.651
			22:COM9	35:CVOL4	18:COM5	30:COM17	18:COM5	34:CVOL3
2601	1192	+ve	8.233	9.854	0.023	0.320	0.069	12.407
			28:COM15	34:CVOL3	24:COM11	20:COM7	16:COM3	34:CVOL3
			-17.285	0.000	-0.040	0.000	-0.045	0.000
			22:COM9	-	18:COM5	-	26:COM13	-
	1542	-ve	8.233	0.000	0.023	0.320	0.051	1.806
			28:COM15	-	24:COM11	20:COM7	24:COM11	28:COM15
			-17.285	-3.229	-0.040	0.000	-0.094	-4.676
			22:COM9	35:CVOL4	18:COM5	-	18:COM5	22:COM9
2610	1181	+ve	0.528	8.022	0.000	0.000	0.016	8.035
			28:COM15	34:CVOL3	-	-	20:COM7	34:CVOL3
			-11.939	0.000	-0.006	-0.484	0.000	0.000
			22:COM9	-	22:COM9	22:COM9	-	-
	1506	-ve	0.528	0.000	0.000	0.000	0.005	1.709
			28:COM15	-	-	-	28:COM15	20:COM7
			-11.939	-4.831	-0.006	-0.484	-0.015	-0.639
			22:COM9	35:CVOL4	22:COM9	22:COM9	22:COM9	30:COM17
2611	1182	+ve	1.171	9.681	0.008	0.000	0.057	13.014
			28:COM15	34:CVOL3	24:COM11	-	16:COM3	34:CVOL3
			-25.942	0.000	-0.025	-0.298	-0.010	0.000
			22:COM9	-	18:COM5	22:COM9	26:COM13	-
	1505	-ve	1.171	0.000	0.008	0.000	0.023	0.494
			28:COM15	-	24:COM11	-	24:COM11	28:COM15
			-25.942	-3.437	-0.025	-0.298	-0.049	-1.527
			22:COM9	35:CVOL4	18:COM5	22:COM9	18:COM5	22:COM9
2612	1183	+ve	0.000	10.827	0.021	0.028	0.062	16.087
			-	34:CVOL3	24:COM11	28:COM15	16:COM3	20:COM7
			-16.901	0.000	-0.031	-0.067	-0.036	0.000
			22:COM9	-	18:COM5	22:COM9	26:COM13	-
	1504	-ve	0.000	0.184	0.021	0.028	0.052	0.000
			-	28:COM15	24:COM11	28:COM15	24:COM11	-
			-16.901	-2.447	-0.031	-0.067	-0.067	-3.046
			22:COM9	22:COM9	18:COM5	22:COM9	18:COM5	22:COM9
2613	1187	+ve	0.452	8.128	0.005	0.000	0.009	8.349
			28:COM15	34:CVOL3	20:COM7	-	20:COM7	34:CVOL3
			-5.461	0.000	-0.003	-0.270	-0.005	0.000
			22:COM9	-	30:COM17	34:CVOL3	30:COM17	-
	1509	-ve	0.452	0.000	0.005	0.000	0.019	1.046
			28:COM15	-	20:COM7	-	20:COM7	20:COM7
			-5.461	-4.627	-0.003	-0.270	-0.006	-0.117
			22:COM9	35:CVOL4	30:COM17	34:CVOL3	30:COM17	30:COM17

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
2614	1462	+ve	2.455	8.461	0.034	0.218	0.102	8.271
			28:COM15	35:CVOL4	16:COM3	16:COM3	24:COM11	16:COM3
			-9.285	0.000	-0.030	-0.087	-0.110	0.000
			22:COM9	-	26:COM13	26:COM13	18:COM5	-
	1275	-ve	2.455	0.000	0.034	0.218	0.094	11.867
			28:COM15	-	16:COM3	16:COM3	16:COM3	16:COM3
			-9.285	-9.680	-0.030	-0.087	-0.076	0.000
			22:COM9	34:CVOL3	26:COM13	26:COM13	26:COM13	-
2615	1461	+ve	1.211	7.909	0.017	0.148	0.034	8.011
			20:COM7	16:COM3	16:COM3	16:COM3	24:COM11	16:COM3
			-3.263	0.000	-0.009	-0.019	-0.056	-2.174
			30:COM17	-	26:COM13	26:COM13	18:COM5	26:COM13
	1274	-ve	1.211	0.000	0.017	0.148	0.045	15.377
			20:COM7	-	16:COM3	16:COM3	16:COM3	16:COM3
			-3.263	-10.194	-0.009	-0.019	-0.016	0.000
			30:COM17	34:CVOL3	26:COM13	26:COM13	26:COM13	-
2616	1460	+ve	1.908	7.359	0.024	0.087	0.069	6.441
			20:COM7	16:COM3	16:COM3	16:COM3	24:COM11	16:COM3
			-1.019	0.000	-0.021	-0.035	-0.076	-2.784
			30:COM17	-	26:COM13	26:COM13	18:COM5	26:COM13
	1273	-ve	1.908	0.000	0.024	0.087	0.061	16.157
			20:COM7	-	16:COM3	16:COM3	16:COM3	16:COM3
			-1.019	-10.472	-0.021	-0.035	-0.051	0.000
			30:COM17	35:CVOL4	26:COM13	26:COM13	26:COM13	-
2617	1459	+ve	1.829	6.757	0.020	0.080	0.078	4.632
			16:COM3	34:CVOL3	24:COM11	24:COM11	16:COM3	16:COM3
			-1.080	0.000	-0.026	-0.128	-0.062	-1.318
			26:COM13	-	18:COM5	18:COM5	26:COM13	26:COM13
	1277	-ve	1.829	0.000	0.020	0.080	0.053	14.419
			16:COM3	-	24:COM11	24:COM11	24:COM11	16:COM3
			-1.080	-10.399	-0.026	-0.128	-0.069	0.000
			26:COM13	35:CVOL4	18:COM5	18:COM5	18:COM5	-
2618	1458	+ve	3.353	7.216	0.018	0.051	0.067	4.281
			16:COM3	34:CVOL3	24:COM11	24:COM11	16:COM3	16:COM3
			-2.469	0.000	-0.024	-0.175	-0.054	0.000
			26:COM13	-	18:COM5	18:COM5	26:COM13	-
	1276	-ve	3.353	0.000	0.018	0.051	0.050	11.711
			16:COM3	-	24:COM11	24:COM11	24:COM11	35:CVOL4
			-2.469	-9.939	-0.024	-0.175	-0.068	0.000
			26:COM13	35:CVOL4	18:COM5	18:COM5	18:COM5	-
2619	1457	+ve	2.192	7.896	0.005	0.021	0.027	6.021
			20:COM7	34:CVOL3	28:COM15	24:COM11	20:COM7	34:CVOL3
			-3.171	0.000	-0.010	-0.160	-0.017	0.000
			30:COM17	-	22:COM9	18:COM5	30:COM17	-
	257	-ve	2.192	0.000	0.005	0.021	0.014	9.865
			20:COM7	-	28:COM15	24:COM11	28:COM15	35:CVOL4
			-3.171	-9.256	-0.010	-0.160	-0.032	0.000
			30:COM17	35:CVOL4	22:COM9	18:COM5	22:COM9	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
2623	1533	+ve	0.000	0.381	0.185	0.027	0.058	0.000
			-	34:CVOL3	16:COM3	16:COM3	24:COM11	-
			-3.319	-0.245	-0.129	-0.013	-0.099	-0.388
			18:COM5	33:CVOL2	26:COM13	26:COM13	18:COM5	32:CVOL1
	1459	-ve	0.000	0.000	0.185	0.027	0.133	1.586
			-	-	16:COM3	16:COM3	16:COM3	35:CVOL4
			-3.319	-3.415	-0.129	-0.013	-0.104	0.000
			18:COM5	35:CVOL4	26:COM13	26:COM13	26:COM13	-
2624	1535	+ve	0.000	0.165	0.305	0.060	0.028	0.000
			-	16:COM3	16:COM3	16:COM3	24:COM11	-
			-3.398	-0.601	-0.065	-0.042	-0.181	-0.392
			18:COM5	26:COM13	26:COM13	26:COM13	18:COM5	32:CVOL1
	1458	-ve	0.000	0.000	0.305	0.060	0.200	2.204
			-	-	16:COM3	16:COM3	16:COM3	16:COM3
			-3.398	-3.817	-0.065	-0.042	-0.053	0.000
			18:COM5	35:CVOL4	26:COM13	26:COM13	26:COM13	-
2625	1537	+ve	0.000	0.333	0.236	0.089	0.000	0.020
			-	24:COM11	20:COM7	16:COM3	-	24:COM1
			-3.451	-1.258	0.000	-0.073	-0.147	-0.692
			18:COM5	18:COM5	-	26:COM13	22:COM9	18:COM5
	1457	-ve	0.000	0.000	0.236	0.089	0.149	2.881
			-	-	20:COM7	16:COM3	20:COM7	16:COM3
			-3.451	-4.452	0.000	-0.073	0.000	0.000
			18:COM5	18:COM5	-	26:COM13	-	-
2636	257	+ve	6.558	8.731	0.014	0.117	0.024	12.056
			24:COM1	20:COM7	20:COM7	16:COM3	28:COM15	20:COM7
			-8.624	0.000	-0.010	-0.102	-0.036	-2.777
			18:COM5	-	30:COM17	26:COM13	22:COM9	30:COM17
	6142	-ve	6.558	0.000	0.014	0.117	0.040	10.184
			24:COM1	-	20:COM7	16:COM3	20:COM7	20:COM7
			-8.624	-8.758	-0.010	-0.102	-0.029	-0.700
			18:COM5	22:COM9	30:COM17	26:COM13	30:COM17	30:COM17
2637	1276	+ve	5.441	9.429	0.010	0.125	0.021	13.827
			28:COM15	20:COM7	20:COM7	16:COM3	28:COM15	20:COM7
			-7.823	0.000	-0.008	-0.107	-0.029	-2.314
			22:COM9	-	30:COM17	26:COM13	22:COM9	30:COM17
	6143	-ve	5.441	0.000	0.010	0.125	0.033	11.770
			28:COM15	-	20:COM7	16:COM3	20:COM7	20:COM7
			-7.823	-9.363	-0.008	-0.107	-0.026	-0.463
			22:COM9	22:COM9	30:COM17	26:COM13	30:COM17	30:COM17
2638	1260	+ve	4.563	5.259	0.023	0.121	0.072	3.082
			16:COM3	20:COM7	28:COM15	24:COM1	20:COM7	28:COM15
			-2.414	-0.836	-0.034	-0.167	-0.052	-6.758
			26:COM13	30:COM17	22:COM9	18:COM5	30:COM17	22:COM9
	6144	-ve	4.563	0.000	0.023	0.121	0.046	13.990
			16:COM3	-	28:COM15	24:COM1	28:COM15	20:COM7
			-2.414	-10.313	-0.034	-0.167	-0.073	-1.249
			26:COM13	22:COM9	22:COM9	18:COM5	22:COM9	30:COM17

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
2639	1273	+ve	16.762	6.901	0.040	0.234	0.074	7.129
			28:COM1	34:CVOL3	16:COM3	20:COM7	24:COM11	20:COM7
			-19.709	0.000	-0.037	-0.206	-0.077	-0.141
			22:COM9	-	26:COM13	30:COM17	18:COM5	30:COM17
	1295	-ve	16.762	0.000	0.040	0.234	0.096	6.110
			28:COM1	-	16:COM3	20:COM7	16:COM3	20:COM7
			-19.709	-6.105	-0.037	-0.206	-0.086	-1.433
			22:COM9	35:CVOL4	26:COM13	30:COM17	26:COM13	30:COM17
2640	1274	+ve	5.383	11.313	0.009	0.052	0.036	17.931
			28:COM1	35:CVOL4	24:COM11	28:COM1	16:COM3	20:COM7
			-6.871	0.000	-0.011	-0.058	-0.032	-0.158
			22:COM9	-	18:COM5	22:COM9	26:COM13	30:COM17
	268	-ve	5.383	0.000	0.009	0.052	0.038	16.614
			28:COM1	-	24:COM11	28:COM1	24:COM11	20:COM7
			-6.871	-11.255	-0.011	-0.058	-0.042	0.000
			22:COM9	34:CVOL3	18:COM5	22:COM9	18:COM5	-
2641	1275	+ve	21.580	7.271	0.050	0.281	0.110	8.848
			28:COM1	16:COM3	24:COM11	16:COM3	16:COM3	16:COM3
			-28.840	0.000	-0.057	-0.205	-0.098	-2.565
			22:COM9	-	18:COM5	26:COM13	26:COM13	26:COM13
	1174	-ve	21.580	0.000	0.050	0.281	0.117	7.692
			28:COM1	-	24:COM11	16:COM3	24:COM11	16:COM3
			-28.840	-7.125	-0.057	-0.205	-0.132	-1.912
			22:COM9	18:COM5	18:COM5	26:COM13	18:COM5	26:COM13
2642	1279	+ve	4.053	8.489	0.006	0.087	0.010	10.116
			28:COM1	34:CVOL3	16:COM3	20:COM7	24:COM11	20:COM7
			-14.762	0.000	-0.004	-0.058	-0.019	0.000
			22:COM9	-	26:COM13	30:COM17	18:COM5	-
	6153	-ve	4.053	0.000	0.006	0.087	0.022	9.453
			28:COM1	-	16:COM3	20:COM7	16:COM3	34:CVOL3
			-14.762	-8.322	-0.004	-0.058	-0.015	0.000
			22:COM9	35:CVOL4	26:COM13	30:COM17	26:COM13	-
2645	1489	+ve	3.647	9.277	0.010	0.010	0.041	9.294
			24:COM17	34:CVOL3	16:COM3	24:COM17	24:COM11	34:CVOL3
			-7.111	0.000	-0.010	-0.012	-0.042	0.000
			18:COM5	-	26:COM13	18:COM5	18:COM5	-
	1283	-ve	3.647	0.000	0.010	0.010	0.021	9.185
			24:COM17	-	16:COM3	24:COM17	16:COM3	35:CVOL4
			-7.111	-9.240	-0.010	-0.012	-0.021	0.000
			18:COM5	35:CVOL4	26:COM13	18:COM5	26:COM13	-
2646	5465	+ve	80.059	30.133	4.552	29.373	1.262	36.868
			28:COM1	28:COM1	20:COM7	16:COM3	24:COM11	28:COM1
			-157.259	-35.225	-1.022	-11.618	-4.709	-50.177
			22:COM9	22:COM9	30:COM17	26:COM13	18:COM5	22:COM9
	5498	-ve	80.059	25.353	4.552	29.373	4.435	26.272
			28:COM1	28:COM1	20:COM7	16:COM3	20:COM7	20:COM7
			-157.259	-43.158	-1.022	-11.618	-1.000	-17.256
			22:COM9	22:COM9	30:COM17	26:COM13	30:COM17	30:COM17

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
2649	1469	+ve	6.721	12.649	0.002	0.000	0.013	14.092
			20:COM7	34:CVOL3	28:COM15	-	28:COM15	34:CVOL3
			-6.326	0.000	-0.005	-0.469	-0.013	0.000
			30:COM17	-	22:COM9	22:COM9	22:COM9	-
	1287	-ve	6.721	0.000	0.002	0.000	0.002	12.083
			20:COM7	-	28:COM15	-	24:COM11	20:COM7
			-6.326	-11.440	-0.005	-0.469	-0.022	0.000
			30:COM17	35:CVOL4	22:COM9	22:COM9	18:COM5	-
2650	1470	+ve	6.831	10.103	0.002	0.000	0.002	11.945
			28:COM15	34:CVOL3	16:COM3	-	24:COM11	34:CVOL3
			-9.721	0.000	-0.002	-0.314	-0.013	0.000
			22:COM9	-	26:COM13	22:COM9	18:COM5	-
	1288	-ve	6.831	0.000	0.002	0.000	0.004	8.491
			28:COM15	-	16:COM3	-	24:COM11	20:COM7
			-9.721	-8.523	-0.002	-0.314	-0.011	-0.026
			22:COM9	35:CVOL4	26:COM13	22:COM9	18:COM5	30:COM17
2653	1528	+ve	0.000	2.898	0.009	0.039	0.103	0.228
			-	35:CVOL4	28:COM15	24:COM17	20:COM7	24:COM17
			-4.275	0.000	-0.062	-0.096	-0.018	-0.466
			22:COM9	-	22:COM9	18:COM5	30:COM17	18:COM5
	1442	-ve	0.000	0.000	0.009	0.039	0.010	5.330
			-	-	28:COM15	24:COM17	28:COM15	20:COM7
			-4.275	-6.399	-0.062	-0.096	-0.086	0.000
			22:COM9	34:CVOL3	22:COM9	18:COM5	22:COM9	-
2654	1529	+ve	0.000	2.703	0.049	0.049	0.113	0.000
			-	35:CVOL4	28:COM15	24:COM17	20:COM7	-
			-2.979	0.000	-0.070	-0.115	-0.080	-0.402
			18:COM5	-	22:COM9	18:COM5	30:COM17	18:COM5
	1441	-ve	0.000	0.000	0.049	0.049	0.070	5.613
			-	-	28:COM15	24:COM17	28:COM15	34:CVOL3
			-2.979	-6.585	-0.070	-0.115	-0.099	0.000
			18:COM5	34:CVOL3	22:COM9	18:COM5	22:COM9	-
2655	1530	+ve	0.134	3.062	0.040	0.025	0.057	0.287
			28:COM15	35:CVOL4	20:COM7	24:COM17	28:COM15	16:COM3
			-2.331	0.000	-0.035	-0.094	-0.067	-0.126
			22:COM9	-	30:COM17	18:COM5	22:COM9	26:COM13
	1440	-ve	0.134	0.000	0.040	0.025	0.054	4.972
			28:COM15	-	20:COM7	24:COM17	20:COM7	34:CVOL3
			-2.331	-6.209	-0.035	-0.094	-0.051	0.000
			22:COM9	34:CVOL3	30:COM17	18:COM5	30:COM17	-
2656	1442	+ve	0.000	9.084	0.000	0.057	0.022	9.009
			-	35:CVOL4	-	24:COM17	20:COM7	35:CVOL4
			-5.487	0.000	-0.006	-0.116	0.000	0.000
			22:COM9	-	22:COM9	18:COM5	-	-
	1289	-ve	0.000	0.000	0.000	0.057	0.001	9.429
			-	-	-	24:COM17	28:COM15	34:CVOL3
			-5.487	-9.217	-0.006	-0.116	-0.017	0.000
			22:COM9	34:CVOL3	22:COM9	18:COM5	22:COM9	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
2657	1441	+ve	0.000	9.015	0.005	0.088	0.032	8.817
			-	35:CVOL4	24:COM11	28:COM15	16:COM3	35:CVOL4
			-2.145	0.000	-0.011	-0.168	-0.010	0.000
			32:CVOL1	-	18:COM5	22:COM9	26:COM13	-
	1290	-ve	0.000	0.000	0.005	0.088	0.022	9.000
			-	-	24:COM11	28:COM15	24:COM11	34:CVOL3
			-2.145	-9.066	-0.011	-0.168	-0.033	0.000
			32:CVOL1	34:CVOL3	18:COM5	22:COM9	18:COM5	-
2658	1440	+ve	0.271	9.087	0.005	0.068	0.030	9.379
			28:COM15	35:CVOL4	24:COM11	28:COM15	16:COM3	20:COM7
			-2.181	0.000	-0.011	-0.150	-0.011	0.000
			22:COM9	-	18:COM5	22:COM9	26:COM13	-
	1291	-ve	0.271	0.000	0.005	0.068	0.019	8.659
			28:COM15	-	24:COM11	28:COM15	24:COM11	20:COM7
			-2.181	-8.771	-0.011	-0.150	-0.033	0.000
			22:COM9	34:CVOL3	18:COM5	22:COM9	18:COM5	-
2659	1295	+ve	9.393	11.763	0.021	0.251	0.057	10.441
			28:COM15	20:COM7	28:COM15	28:COM15	20:COM7	20:COM7
			-14.974	-7.596	-0.040	-0.300	-0.036	-9.537
			22:COM9	30:COM17	22:COM9	22:COM9	30:COM17	30:COM17
	6145	-ve	9.393	6.749	0.021	0.251	0.024	16.907
			28:COM15	28:COM15	28:COM15	28:COM15	28:COM15	20:COM7
			-14.974	-13.063	-0.040	-0.300	-0.055	-13.096
			22:COM9	22:COM9	22:COM9	22:COM9	22:COM9	30:COM17
2660	1289	+ve	3.723	7.672	0.036	0.023	0.030	6.739
			16:COM3	34:CVOL3	16:COM3	28:COM15	24:COM11	34:CVOL3
			-3.766	0.000	-0.017	-0.137	-0.063	0.000
			26:COM13	-	26:COM13	22:COM9	18:COM5	-
	1518	-ve	3.723	0.000	0.036	0.023	0.087	1.600
			16:COM3	-	16:COM3	28:COM15	16:COM3	16:COM3
			-3.766	-5.015	-0.017	-0.137	-0.040	-0.237
			26:COM13	35:CVOL4	26:COM13	22:COM9	26:COM13	26:COM13
2661	1290	+ve	2.699	8.194	0.050	0.053	0.041	7.913
			16:COM3	34:CVOL3	16:COM3	24:COM11	24:COM11	34:CVOL3
			-1.761	0.000	-0.020	-0.151	-0.097	0.000
			26:COM13	-	26:COM13	18:COM5	18:COM5	-
	1517	-ve	2.699	0.000	0.050	0.053	0.112	0.641
			16:COM3	-	16:COM3	24:COM11	16:COM3	16:COM3
			-1.761	-4.616	-0.020	-0.151	-0.042	-0.437
			26:COM13	35:CVOL4	26:COM13	18:COM5	26:COM13	26:COM13
2663	244	+ve	24.295	33.406	0.923	13.307	2.892	91.130
			20:COM7	20:COM7	24:COM11	16:COM3	16:COM3	20:COM7
			-10.166	0.000	-1.109	-10.287	-2.441	0.000
			30:COM17	-	18:COM5	26:COM13	26:COM13	-
	1515	-ve	24.295	14.543	0.923	13.307	1.559	2.568
			20:COM7	20:COM7	24:COM11	16:COM3	28:COM15	28:COM15
			-10.166	-5.168	-1.109	-10.287	-1.887	-9.358
			30:COM17	30:COM17	18:COM5	26:COM13	22:COM9	22:COM9

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
2664	1303	+ve	4.111	9.566	0.002	0.062	0.006	10.193
			20:COM7	35:CVOL4	24:COM11	16:COM3	16:COM3	16:COM3
			-4.394	0.000	-0.004	-0.016	-0.002	0.000
			30:COM17	-	18:COM5	26:COM13	26:COM13	-
	1299	-ve	4.111	0.000	0.002	0.062	0.014	9.857
			20:COM7	-	24:COM11	16:COM3	24:COM11	20:COM7
			-4.394	-9.350	-0.004	-0.016	-0.018	0.000
			30:COM17	34:CVOL3	18:COM5	26:COM13	18:COM5	-
2665	1304	+ve	4.710	10.037	0.003	0.056	0.005	10.715
			20:COM7	35:CVOL4	20:COM7	20:COM7	28:COM15	20:COM7
			-3.841	0.000	-0.004	-0.024	-0.005	0.000
			30:COM17	-	30:COM17	30:COM17	22:COM9	-
	1300	-ve	4.710	0.000	0.003	0.056	0.017	11.619
			20:COM7	-	20:COM7	20:COM7	28:COM15	20:COM7
			-3.841	-10.178	-0.004	-0.024	-0.022	0.000
			30:COM17	34:CVOL3	30:COM17	30:COM17	22:COM9	-
2666	1305	+ve	3.710	10.640	0.004	0.042	0.000	11.989
			20:COM7	35:CVOL4	20:COM7	28:COM15	-	34:CVOL3
			-3.481	0.000	-0.001	-0.048	-0.011	0.000
			30:COM17	-	30:COM17	22:COM9	22:COM9	-
	1301	-ve	3.710	0.000	0.004	0.042	0.015	13.221
			20:COM7	-	20:COM7	28:COM15	20:COM7	20:COM7
			-3.481	-10.876	-0.001	-0.048	-0.009	0.000
			30:COM17	34:CVOL3	30:COM17	22:COM9	30:COM17	-
2667	1306	+ve	2.190	11.338	0.005	0.024	0.007	13.857
			20:COM7	35:CVOL4	20:COM7	28:COM15	24:COM11	35:CVOL4
			-1.975	0.000	-0.002	-0.054	-0.025	0.000
			30:COM17	-	30:COM17	22:COM9	18:COM5	-
	1302	-ve	2.190	0.000	0.005	0.024	0.017	14.474
			20:COM7	-	20:COM7	28:COM15	20:COM7	20:COM7
			-1.975	-11.478	-0.002	-0.054	-0.007	0.000
			30:COM17	34:CVOL3	30:COM17	22:COM9	30:COM17	-
2670	1531	+ve	0.000	1.886	0.047	0.035	0.031	0.000
			-	35:CVOL4	16:COM3	20:COM7	24:COM11	-
			-6.026	0.000	-0.019	-0.015	-0.075	-1.025
			34:CVOL3	-	26:COM13	30:COM17	18:COM5	34:CVOL3
	1305	-ve	0.000	0.000	0.047	0.035	0.072	8.054
			-	-	16:COM3	20:COM7	16:COM3	34:CVOL3
			-6.026	-7.658	-0.019	-0.015	-0.028	0.000
			34:CVOL3	34:CVOL3	26:COM13	30:COM17	26:COM13	-
2671	1532	+ve	0.000	2.295	0.035	0.002	0.000	0.000
			-	34:CVOL3	16:COM3	24:COM17	-	-
			-5.241	0.000	0.000	-0.041	-0.054	-0.773
			18:COM5	-	-	18:COM5	18:COM5	22:COM9
	1306	-ve	0.000	0.000	0.035	0.002	0.056	7.418
			-	-	16:COM3	24:COM17	16:COM3	35:CVOL4
			-5.241	-7.343	0.000	-0.041	0.000	0.000
			18:COM5	35:CVOL4	-	18:COM5	-	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
2672	1299	+ve	0.000	6.819	0.047	0.217	0.075	6.359
			-	34:CVOL3	20:COM7	20:COM7	28:COM15	20:COM7
			-1.327	0.000	-0.045	-0.151	-0.078	0.000
			32:CVOL1	-	30:COM17	30:COM17	22:COM9	-
	1514	-ve	0.000	0.000	0.047	0.217	0.095	1.654
			-	-	20:COM7	20:COM7	20:COM7	20:COM7
			-1.327	-4.429	-0.045	-0.151	-0.089	-0.298
			32:CVOL1	35:CVOL4	30:COM17	30:COM17	30:COM17	30:COM17
2673	1300	+ve	0.000	7.756	0.088	0.187	0.147	8.741
			-	20:COM7	28:COM15	20:COM7	20:COM7	20:COM7
			-8.853	-2.087	-0.101	-0.116	-0.127	-5.300
			22:COM9	30:COM17	22:COM9	30:COM17	30:COM17	30:COM17
	1513	-ve	0.000	1.689	0.088	0.187	0.151	9.142
			-	28:COM15	28:COM15	20:COM7	28:COM15	20:COM7
			-8.853	-8.215	-0.101	-0.116	-0.170	-4.352
			22:COM9	22:COM9	22:COM9	30:COM17	22:COM9	30:COM17
2674	1301	+ve	0.000	9.748	0.222	0.271	0.245	8.725
			-	20:COM7	28:COM15	16:COM3	28:COM15	20:COM7
			-19.116	-8.780	-0.257	-0.210	-0.242	-9.141
			18:COM5	30:COM17	22:COM9	26:COM13	22:COM9	30:COM17
	1507	-ve	0.000	6.420	0.222	0.271	0.225	14.178
			-	28:COM15	28:COM15	16:COM3	28:COM15	16:COM3
			-19.116	-13.601	-0.257	-0.210	-0.297	-8.055
			18:COM5	22:COM9	22:COM9	26:COM13	22:COM9	26:COM13
2677	1291	+ve	0.728	8.060	0.038	0.099	0.032	7.712
			35:CVOL4	34:CVOL3	16:COM3	16:COM3	24:COM11	34:CVOL3
			-0.878	0.000	-0.015	-0.105	-0.075	0.000
			32:CVOL1	-	26:COM13	26:COM13	18:COM5	-
	1516	-ve	0.728	0.000	0.038	0.099	0.082	0.775
			35:CVOL4	-	16:COM3	16:COM3	16:COM3	20:COM7
			-0.878	-4.776	-0.015	-0.105	-0.033	-0.064
			32:CVOL1	35:CVOL4	26:COM13	26:COM13	26:COM13	30:COM17
2678	1443	+ve	6.040	5.964	0.028	0.136	0.024	4.027
			28:COM15	35:CVOL4	20:COM7	20:COM7	28:COM15	35:CVOL4
			-16.462	0.000	-0.013	-0.067	-0.057	0.000
			22:COM9	-	30:COM17	30:COM17	22:COM9	-
	1317	-ve	6.040	0.000	0.028	0.136	0.055	5.918
			28:COM15	-	20:COM7	20:COM7	20:COM7	20:COM7
			-16.462	-6.194	-0.013	-0.067	-0.028	-0.079
			22:COM9	34:CVOL3	30:COM17	30:COM17	30:COM17	30:COM17
2679	1444	+ve	7.233	4.248	0.104	0.176	0.041	1.672
			28:COM15	20:COM7	20:COM7	20:COM7	28:COM15	16:COM3
			-16.995	-0.601	-0.046	-0.096	-0.094	0.000
			22:COM9	30:COM17	30:COM17	30:COM17	22:COM9	-
	1318	-ve	7.233	0.563	0.104	0.176	0.105	4.776
			28:COM15	28:COM15	20:COM7	20:COM7	20:COM7	20:COM7
			-16.995	-4.286	-0.046	-0.096	-0.047	-2.487
			22:COM9	22:COM9	30:COM17	30:COM17	30:COM17	30:COM17

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
2683	1280	+ve	0.000	8.428	0.010	0.087	0.000	10.017
			-	35:CVOL4	16:COM3	20:COM7	-	34:CVOL3
			-9.157	0.000	0.000	-0.066	-0.030	0.000
			22:COM9	-	-	30:COM1	18:COM5	-
	6154	-ve	0.000	0.000	0.010	0.087	0.035	9.301
			-	-	16:COM3	20:COM7	16:COM3	34:CVOL3
			-9.157	-8.211	0.000	-0.066	-0.001	0.000
			22:COM9	34:CVOL3	-	30:COM1	26:COM1	-
2688	1383	+ve	4.613	1.591	0.221	0.173	0.152	0.000
			20:COM7	28:COM1	16:COM3	28:COM1	28:COM1	-
			-5.445	-1.802	-0.147	-0.478	-0.289	-3.038
			30:COM1	22:COM9	26:COM1	22:COM9	22:COM9	18:COM5
	1384	-ve	4.613	0.178	0.221	0.173	0.190	3.545
			20:COM7	28:COM1	16:COM3	28:COM1	16:COM3	28:COM1
			-5.445	-3.685	-0.147	-0.478	-0.168	-3.039
			30:COM1	22:COM9	26:COM1	22:COM9	26:COM1	22:COM9
2689	1384	+ve	4.818	0.000	0.200	0.183	0.007	3.438
			24:COM1	-	20:COM7	28:COM1	28:COM1	28:COM1
			-13.280	-5.429	0.000	-0.297	-0.218	-3.029
			18:COM5	22:COM9	-	22:COM9	22:COM9	22:COM9
	1132	-ve	4.818	0.000	0.200	0.183	0.234	17.018
			24:COM1	-	20:COM7	28:COM1	16:COM3	20:COM7
			-13.280	-7.312	0.000	-0.297	-0.000	-0.916
			18:COM5	22:COM9	-	22:COM9	26:COM1	30:COM1
2690	1385	+ve	11.883	4.089	0.384	0.234	0.098	4.714
			16:COM3	16:COM3	16:COM3	16:COM3	24:COM1	16:COM3
			-10.849	0.000	-0.133	0.000	-0.363	-3.653
			26:COM1	-	26:COM1	-	18:COM5	26:COM1
	1386	-ve	11.883	2.394	0.384	0.234	0.387	0.000
			16:COM3	16:COM3	16:COM3	16:COM3	16:COM3	-
			-10.849	0.000	-0.133	0.000	-0.162	-6.320
			26:COM1	-	26:COM1	-	26:COM1	18:COM5
2691	1386	+ve	11.807	2.499	0.382	0.182	0.204	0.000
			16:COM3	16:COM3	16:COM3	16:COM3	24:COM1	-
			-7.249	0.000	-0.242	-0.023	-0.397	-6.272
			26:COM1	-	26:COM1	26:COM1	18:COM5	18:COM5
	1387	-ve	11.807	0.806	0.382	0.182	0.347	0.000
			16:COM3	24:COM1	16:COM3	16:COM3	16:COM3	-
			-7.249	-1.160	-0.242	-0.023	-0.269	-5.800
			26:COM1	18:COM5	26:COM1	26:COM1	26:COM1	22:COM9
2692	1387	+ve	9.115	0.996	0.235	0.031	0.314	0.000
			20:COM7	24:COM1	24:COM1	24:COM1	16:COM3	-
			-5.821	-0.868	-0.358	-0.175	-0.251	-5.803
			30:COM1	18:COM5	18:COM5	18:COM5	26:COM1	22:COM9
	1388	-ve	9.115	0.000	0.235	0.031	0.207	0.000
			20:COM7	-	24:COM1	24:COM1	24:COM1	-
			-5.821	-2.563	-0.358	-0.175	-0.384	-5.088
			30:COM1	18:COM5	18:COM5	18:COM5	18:COM5	18:COM5

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
2693	1388	+ve	4.870	0.000	0.073	0.000	0.355	0.000
			28:COM15	-	24:COM11	-	16:COM3	-
			-6.551	-2.384	-0.360	-0.239	-0.102	-5.138
			22:COM9	18:COM5	18:COM5	18:COM5	26:COM13	18:COM5
	1389	-ve	4.870	0.000	0.073	0.000	0.041	3.991
			28:COM15	-	24:COM11	-	24:COM11	16:COM3
			-6.551	-4.079	-0.360	-0.239	-0.347	-1.721
			22:COM9	18:COM5	18:COM5	18:COM5	18:COM5	26:COM13
2694	1389	+ve	0.092	0.000	0.221	0.098	0.083	3.926
			28:COM15	-	16:COM3	24:COM11	24:COM11	16:COM3
			-11.314	-4.699	-0.099	-0.229	-0.106	-1.744
			22:COM9	22:COM9	26:COM13	18:COM5	18:COM5	26:COM13
	1133	-ve	0.092	0.000	0.221	0.098	0.325	14.614
			28:COM15	-	16:COM3	24:COM11	16:COM3	16:COM3
			-11.314	-6.601	-0.099	-0.229	-0.110	0.000
			22:COM9	32:CVOL1	26:COM13	18:COM5	26:COM13	-
2695	1390	+ve	5.492	3.801	0.298	0.234	0.024	3.503
			20:COM7	16:COM3	16:COM3	16:COM3	24:COM11	16:COM3
			-5.930	0.000	-0.063	0.000	-0.289	-1.059
			30:COM17	-	26:COM13	-	18:COM5	26:COM13
	1391	-ve	5.492	2.105	0.298	0.234	0.294	0.000
			20:COM7	16:COM3	16:COM3	16:COM3	16:COM3	-
			-5.930	0.000	-0.063	0.000	-0.100	-4.873
			30:COM17	-	26:COM13	-	26:COM13	18:COM5
2696	1391	+ve	9.218	2.248	0.278	0.164	0.188	0.000
			20:COM7	16:COM3	16:COM3	16:COM3	24:COM11	-
			-4.118	0.000	-0.223	-0.041	-0.305	-4.822
			30:COM17	-	26:COM13	26:COM13	18:COM5	18:COM5
	1392	-ve	9.218	0.553	0.278	0.164	0.249	0.000
			20:COM7	16:COM3	16:COM3	16:COM3	24:COM11	-
			-4.118	-0.767	-0.223	-0.041	-0.259	-5.352
			30:COM17	26:COM13	26:COM13	26:COM13	18:COM5	22:COM9
2697	1392	+ve	10.932	0.788	0.180	0.016	0.332	0.000
			20:COM7	24:COM11	24:COM11	24:COM11	16:COM3	-
			-4.184	-0.573	-0.373	-0.199	-0.205	-5.353
			30:COM17	18:COM5	18:COM5	18:COM5	26:COM13	22:COM9
	1393	-ve	10.932	0.000	0.180	0.016	0.145	0.000
			20:COM7	-	24:COM11	24:COM11	24:COM11	-
			-4.184	-2.268	-0.373	-0.199	-0.395	-4.875
			30:COM17	18:COM5	18:COM5	18:COM5	18:COM5	18:COM5
2698	1393	+ve	9.670	0.000	0.065	0.000	0.327	0.000
			20:COM7	-	24:COM11	-	16:COM3	-
			-6.360	-2.057	-0.319	-0.223	-0.094	-4.926
			30:COM17	18:COM5	18:COM5	18:COM5	26:COM13	18:COM5
	1394	-ve	9.670	0.000	0.065	0.000	0.032	3.435
			20:COM7	-	24:COM11	-	24:COM11	16:COM3
			-6.360	-3.753	-0.319	-0.223	-0.296	-1.361
			30:COM17	18:COM5	18:COM5	18:COM5	18:COM5	26:COM13

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
2699	1394	+ve	2.393	0.000	0.238	0.099	0.054	3.370
			28:COM15	-	16:COM3	24:COM11	24:COM11	16:COM3
			-10.917	-4.460	-0.062	-0.218	-0.143	-1.385
			22:COM9	22:COM9	26:COM13	18:COM5	18:COM5	26:COM13
	1134	-ve	2.393	0.000	0.238	0.099	0.323	13.418
			28:COM15	-	16:COM3	24:COM11	16:COM3	16:COM3
			-10.917	-6.426	-0.062	-0.218	-0.069	0.000
			22:COM9	33:CVOL2	26:COM13	18:COM5	26:COM13	-
2700	1395	+ve	8.198	3.780	0.324	0.225	0.016	3.583
			20:COM7	16:COM3	16:COM3	16:COM3	24:COM11	16:COM3
			-7.414	0.000	-0.050	0.000	-0.308	-1.323
			30:COM17	-	26:COM13	-	18:COM5	26:COM13
	1396	-ve	8.198	2.085	0.324	0.225	0.323	0.000
			20:COM7	16:COM3	16:COM3	16:COM3	16:COM3	-
			-7.414	0.000	-0.050	0.000	-0.081	-4.872
			30:COM17	-	26:COM13	-	26:COM13	18:COM5
2701	1396	+ve	10.092	2.300	0.342	0.180	0.148	0.000
			20:COM7	16:COM3	16:COM3	16:COM3	24:COM11	-
			-6.399	0.000	-0.181	-0.023	-0.366	-4.822
			30:COM17	-	26:COM13	26:COM13	18:COM5	18:COM5
	1397	-ve	10.092	0.605	0.342	0.180	0.301	0.000
			20:COM7	16:COM3	16:COM3	16:COM3	16:COM3	-
			-6.399	-0.801	-0.181	-0.023	-0.206	-5.317
			30:COM17	26:COM13	26:COM13	26:COM13	26:COM13	33:CVOL2
2702	1397	+ve	8.869	0.808	0.198	0.027	0.260	0.000
			20:COM7	24:COM11	24:COM11	24:COM11	16:COM3	-
			-7.103	-0.560	-0.301	-0.172	-0.220	-5.316
			30:COM17	18:COM5	18:COM5	18:COM5	26:COM13	33:CVOL2
	1398	-ve	8.869	0.000	0.198	0.027	0.166	0.000
			20:COM7	-	24:COM11	24:COM11	24:COM11	-
			-7.103	-2.255	-0.301	-0.172	-0.326	-4.877
			30:COM17	18:COM5	18:COM5	18:COM5	18:COM5	18:COM5
2703	1398	+ve	5.917	0.000	0.051	0.000	0.309	0.000
			28:COM15	-	24:COM11	-	16:COM3	-
			-9.982	-2.107	-0.314	-0.235	-0.080	-4.928
			22:COM9	18:COM5	18:COM5	18:COM5	26:COM13	18:COM5
	1399	-ve	5.917	0.000	0.051	0.000	0.020	3.543
			28:COM15	-	24:COM11	-	24:COM11	16:COM3
			-9.982	-3.803	-0.314	-0.235	-0.303	-1.228
			22:COM9	18:COM5	18:COM5	18:COM5	18:COM5	26:COM13
2704	1399	+ve	0.718	0.000	0.219	0.089	0.064	3.480
			28:COM15	-	16:COM3	24:COM11	24:COM11	16:COM3
			-15.874	-4.572	-0.064	-0.223	-0.113	-1.253
			22:COM9	34:CVOL3	26:COM13	18:COM5	18:COM5	26:COM13
	1135	-ve	0.718	0.000	0.219	0.089	0.313	13.681
			28:COM15	-	16:COM3	24:COM11	16:COM3	16:COM3
			-15.874	-6.542	-0.064	-0.223	-0.062	0.000
			22:COM9	32:CVOL1	26:COM13	18:COM5	26:COM13	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
2705	1400	+ve	5.186	3.872	0.355	0.227	0.000	3.691
			28:COM15	16:COM3	16:COM3	16:COM3	-	16:COM3
			-8.958	0.000	-0.022	0.000	-0.338	-1.426
			22:COM9	-	26:COM13	-	18:COM5	26:COM13
	1401	-ve	5.186	2.177	0.355	0.227	0.354	0.000
			28:COM15	16:COM3	16:COM3	16:COM3	16:COM3	-
			-8.958	0.000	-0.022	0.000	-0.054	-5.316
			22:COM9	-	26:COM13	-	26:COM13	18:COM5
2706	1401	+ve	7.571	2.358	0.360	0.161	0.146	0.000
			20:COM7	16:COM3	16:COM3	16:COM3	24:COM11	-
			-5.286	0.000	-0.175	-0.050	-0.383	-5.268
			30:COM17	-	26:COM13	26:COM13	18:COM5	18:COM5
	1402	-ve	7.571	0.663	0.360	0.161	0.318	0.000
			20:COM7	16:COM3	16:COM3	16:COM3	16:COM3	-
			-5.286	-0.732	-0.175	-0.050	-0.195	-5.727
			30:COM17	26:COM13	26:COM13	26:COM13	26:COM13	32:CVOL1
2707	1402	+ve	9.106	0.898	0.231	0.013	0.274	0.000
			20:COM7	16:COM3	24:COM11	24:COM11	16:COM3	-
			-4.523	-0.531	-0.310	-0.203	-0.256	-5.733
			30:COM17	26:COM13	18:COM5	18:COM5	26:COM13	32:CVOL1
	1403	-ve	9.106	0.000	0.231	0.013	0.194	0.000
			20:COM7	-	24:COM11	24:COM11	24:COM11	-
			-4.523	-2.211	-0.310	-0.203	-0.331	-5.264
			30:COM17	18:COM5	18:COM5	18:COM5	18:COM5	18:COM5
2708	1403	+ve	7.214	0.000	0.110	0.000	0.333	0.000
			20:COM7	-	24:COM11	-	16:COM3	-
			-5.310	-2.141	-0.339	-0.233	-0.141	-5.318
			30:COM17	22:COM9	18:COM5	33:CVOL2	26:COM13	18:COM5
	1404	-ve	7.214	0.000	0.110	0.000	0.073	2.843
			20:COM7	-	24:COM11	-	24:COM11	16:COM3
			-5.310	-3.836	-0.339	-0.233	-0.329	-1.828
			30:COM17	22:COM9	18:COM5	33:CVOL2	18:COM5	26:COM13
2709	1404	+ve	0.000	0.000	0.196	0.101	0.044	2.776
			-	-	16:COM3	24:COM11	28:COM15	16:COM3
			-6.035	-4.842	-0.049	-0.228	-0.099	-1.853
			22:COM9	22:COM9	26:COM13	18:COM5	22:COM9	26:COM13
	1136	-ve	0.000	0.000	0.196	0.101	0.293	13.551
			-	-	16:COM3	24:COM11	16:COM3	20:COM7
			-6.035	-6.537	-0.049	-0.228	-0.060	0.000
			22:COM9	22:COM9	26:COM13	18:COM5	26:COM13	-
2710	1405	+ve	5.023	4.456	0.323	0.398	0.249	2.160
			20:COM7	16:COM3	16:COM3	20:COM7	24:COM11	24:COM11
			-1.256	0.000	-0.288	-0.119	-0.337	-2.584
			30:COM17	-	26:COM13	30:COM17	18:COM5	18:COM5
	1406	-ve	5.023	2.665	0.323	0.398	0.333	0.000
			20:COM7	16:COM3	16:COM3	20:COM7	24:COM11	-
			-1.256	0.000	-0.288	-0.119	-0.349	-6.346
			30:COM17	-	26:COM13	30:COM17	18:COM5	22:COM9

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
2711	1406	+ve	7.429	2.306	0.346	0.234	0.440	0.000
			16:COM3	16:COM3	24:COM11	28:COM15	16:COM3	-
			-1.292	-0.332	-0.470	-0.370	-0.372	-6.379
			26:COM13	26:COM13	18:COM5	22:COM9	26:COM13	22:COM9
	1407	-ve	7.429	0.661	0.346	0.234	0.341	0.000
			16:COM3	24:COM11	24:COM11	28:COM15	24:COM11	-
			-1.292	-1.821	-0.470	-0.370	-0.529	-8.359
			26:COM13	18:COM5	18:COM5	22:COM9	18:COM5	18:COM5
2712	1407	+ve	8.179	0.219	0.252	0.033	0.541	0.000
			16:COM3	24:COM11	24:COM11	28:COM15	16:COM3	-
			-3.966	-2.663	-0.536	-0.582	-0.281	-8.419
			26:COM13	18:COM5	18:COM5	22:COM9	26:COM13	18:COM5
	1408	-ve	8.179	0.000	0.252	0.033	0.239	3.915
			16:COM3	-	24:COM11	28:COM15	24:COM11	24:COM11
			-3.966	-4.454	-0.536	-0.582	-0.563	-5.806
			26:COM13	18:COM5	18:COM5	22:COM9	18:COM5	18:COM5
2713	1408	+ve	8.955	0.000	0.182	0.043	0.207	3.840
			20:COM7	-	20:COM7	28:COM15	20:COM7	24:COM11
			-8.484	-6.157	-0.125	-0.415	-0.174	-5.893
			30:COM17	18:COM5	30:COM17	22:COM9	30:COM17	18:COM5
	1138	-ve	8.955	0.000	0.182	0.043	0.213	17.872
			20:COM7	-	20:COM7	28:COM15	20:COM7	16:COM3
			-8.484	-7.947	-0.125	-0.415	-0.063	0.000
			30:COM17	18:COM5	30:COM17	22:COM9	30:COM17	-
2714	1409	+ve	5.244	1.167	0.000	0.000	0.130	1.963
			24:COM11	16:COM3	-	-	16:COM3	16:COM3
			-14.426	-0.452	-0.127	-0.057	0.000	-0.892
			18:COM5	26:COM13	18:COM5	18:COM5	-	26:COM13
	1173	-ve	5.244	0.000	0.000	0.000	0.000	3.034
			24:COM11	-	-	-	-	20:COM7
			-14.426	-2.767	-0.127	-0.057	-0.118	0.000
			18:COM5	18:COM5	18:COM5	18:COM5	18:COM5	-
2715	1410	+ve	10.372	1.298	0.020	0.004	0.079	0.911
			16:COM3	16:COM3	24:COM11	24:COM11	16:COM3	16:COM3
			-5.691	0.000	-0.073	-0.031	-0.013	-0.591
			26:COM13	-	18:COM5	18:COM5	26:COM13	26:COM13
	1409	-ve	10.372	0.000	0.020	0.004	0.027	1.915
			16:COM3	-	24:COM11	24:COM11	24:COM11	16:COM3
			-5.691	-1.736	-0.073	-0.031	-0.064	-0.870
			26:COM13	18:COM5	18:COM5	18:COM5	18:COM5	26:COM13
2716	1411	+ve	9.773	1.917	0.002	0.047	0.114	1.119
			16:COM3	16:COM3	24:COM11	16:COM3	16:COM3	20:COM7
			0.000	0.000	-0.099	0.000	0.000	0.000
			-	-	18:COM5	-	-	-
	1410	-ve	9.773	0.000	0.002	0.047	0.011	0.876
			16:COM3	-	24:COM11	16:COM3	24:COM11	16:COM3
			0.000	-1.235	-0.099	0.000	-0.079	-0.566
			-	18:COM5	18:COM5	-	18:COM5	26:COM13

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
2717	1412	+ve	7.959	2.461	0.000	0.254	0.168	3.493
			16:COM3	16:COM3	-	34:CVOL3	20:COM7	16:COM3
			0.000	0.000	-0.161	0.000	0.000	0.000
			-	-	22:COM9	-	-	-
	1411	-ve	7.959	0.032	0.000	0.254	0.000	1.219
			16:COM3	16:COM3	-	34:CVOL3	-	20:COM7
			0.000	-0.802	-0.161	0.000	-0.147	0.000
			-	26:COM13	22:COM9	-	18:COM5	-
2719	1413	+ve	0.000	0.000	0.000	0.000	0.015	11.444
			-	-	-	-	24:COM11	20:COM7
			-66.655	-5.614	-0.176	-0.131	-0.055	0.000
			34:CVOL3	18:COM5	18:COM5	22:COM9	18:COM5	-
	1203	-ve	0.000	0.000	0.000	0.000	0.000	15.205
			-	-	-	-	-	34:CVOL3
			-66.655	-7.320	-0.176	-0.131	-0.135	0.000
			34:CVOL3	18:COM5	18:COM5	22:COM9	18:COM5	-
2720	1412	+ve	0.000	0.000	0.000	0.000	0.411	0.000
			-	-	-	-	16:COM3	-
			-11.268	-8.287	-0.975	-0.242	0.000	-0.938
			22:COM9	34:CVOL3	18:COM5	34:CVOL3	-	34:CVOL3
	1204	-ve	0.000	0.000	0.000	0.000	0.000	5.984
			-	-	-	-	-	34:CVOL3
			-11.268	-10.173	-0.975	-0.242	-0.321	0.000
			22:COM9	34:CVOL3	18:COM5	34:CVOL3	18:COM5	-
2721	1411	+ve	0.000	0.000	0.206	0.000	0.225	0.000
			-	-	24:COM11	-	16:COM3	-
			-4.923	-2.359	-0.496	-0.084	-0.050	-0.562
			22:COM9	33:CVOL2	18:COM5	18:COM5	26:COM13	32:CVOL1
	1205	-ve	0.000	0.000	0.206	0.000	0.106	1.823
			-	-	24:COM11	-	24:COM11	33:CVOL2
			-4.923	-3.999	-0.496	-0.084	-0.148	0.000
			22:COM9	33:CVOL2	18:COM5	18:COM5	18:COM5	-
2722	1410	+ve	0.000	0.000	0.435	0.008	0.095	0.000
			-	-	16:COM3	24:COM11	24:COM11	-
			-4.053	-2.315	-0.226	-0.030	-0.141	-0.564
			32:CVOL1	33:CVOL2	26:COM13	18:COM5	18:COM5	32:CVOL1
	1206	-ve	0.000	0.000	0.435	0.008	0.185	1.789
			-	-	16:COM3	24:COM11	16:COM3	33:CVOL2
			-4.053	-3.955	-0.226	-0.030	-0.074	0.000
			32:CVOL1	33:CVOL2	26:COM13	18:COM5	26:COM13	-
2723	1409	+ve	0.000	0.000	0.408	0.000	0.049	0.000
			-	-	16:COM3	-	24:COM11	-
			-4.545	-2.895	-0.087	-0.017	-0.153	-0.653
			18:COM5	18:COM5	26:COM13	18:COM5	18:COM5	18:COM5
	1207	-ve	0.000	0.000	0.408	0.000	0.153	2.158
			-	-	16:COM3	-	16:COM3	16:COM3
			-4.545	-4.601	-0.087	-0.017	-0.016	0.000
			18:COM5	18:COM5	26:COM13	18:COM5	26:COM13	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
2724	1414	+ve	76.612	0.000	5.920	7.816	6.358	74.612
			16:COM3	-	24:COM11	16:COM3	16:COM3	16:COM3
			-36.014	-66.180	-7.958	0.000	-2.494	-64.942
			26:COM13	18:COM5	18:COM5	-	26:COM13	26:COM13
	301	-ve	76.612	0.000	5.920	7.816	9.078	207.532
			16:COM3	-	24:COM11	16:COM3	24:COM11	16:COM3
			-36.014	-70.396	-7.958	0.000	-9.188	-56.584
			26:COM13	18:COM5	18:COM5	-	18:COM5	26:COM13
2725	1415	+ve	27.542	7.793	0.000	2.878	4.294	5.249
			24:COM11	24:COM11	-	16:COM3	20:COM7	24:COM11
			-41.626	-49.234	-3.880	-0.348	-0.234	-64.517
			18:COM5	18:COM5	22:COM9	26:COM13	30:COM17	18:COM5
	1414	-ve	27.542	4.630	0.000	2.878	0.000	92.176
			24:COM11	24:COM11	-	16:COM3	-	16:COM3
			-41.626	-53.451	-3.880	-0.348	-3.475	-63.438
			18:COM5	18:COM5	22:COM9	26:COM13	18:COM5	26:COM13
2726	1416	+ve	0.000	18.907	2.604	1.635	3.082	0.000
			-	24:COM11	28:COM15	16:COM3	28:COM15	-
			-40.179	-31.682	-3.616	-1.006	-3.291	-61.821
			18:COM5	18:COM5	22:COM9	26:COM13	22:COM9	22:COM9
	1415	-ve	0.000	15.744	2.604	1.635	1.973	16.691
			-	24:COM11	28:COM15	16:COM3	24:COM11	24:COM11
			-40.179	-35.899	-3.616	-1.006	-4.155	-64.877
			18:COM5	18:COM5	22:COM9	26:COM13	18:COM5	18:COM5
2727	1417	+ve	0.000	33.826	5.568	1.385	1.452	27.792
			-	16:COM3	20:COM7	16:COM3	28:COM15	24:COM11
			-40.592	-17.512	-1.883	-0.776	-6.148	-83.589
			18:COM5	26:COM13	30:COM17	26:COM13	22:COM9	18:COM5
	1416	-ve	0.000	29.609	5.568	1.385	4.824	0.000
			-	16:COM3	20:COM7	16:COM3	16:COM3	-
			-40.592	-20.675	-1.883	-0.776	-2.333	-56.274
			18:COM5	26:COM13	30:COM17	26:COM13	26:COM13	22:COM9
2728	1418	+ve	27.088	51.445	4.765	0.401	0.968	98.701
			24:COM11	16:COM3	16:COM3	24:COM11	24:COM11	16:COM3
			-40.262	-6.510	-0.952	-2.500	-4.369	-85.358
			18:COM5	26:COM13	26:COM13	18:COM5	18:COM5	26:COM13
	1417	-ve	27.088	47.229	4.765	0.401	5.140	16.407
			24:COM11	16:COM3	16:COM3	24:COM11	16:COM3	24:COM11
			-40.262	-9.673	-0.952	-2.500	-1.105	-83.493
			18:COM5	26:COM13	26:COM13	18:COM5	26:COM13	18:COM5
2729	1419	+ve	67.523	0.000	5.653	8.163	3.180	66.197
			16:COM3	-	16:COM3	16:COM3	24:COM11	16:COM3
			-28.822	-58.774	-5.207	0.000	-3.197	-60.033
			26:COM13	18:COM5	26:COM13	-	18:COM5	26:COM13
	302	-ve	67.523	0.000	5.653	8.163	7.948	184.903
			16:COM3	-	16:COM3	16:COM3	16:COM3	16:COM3
			-28.822	-62.991	-5.207	0.000	-7.094	-46.055
			26:COM13	18:COM5	26:COM13	-	26:COM13	26:COM13

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
2730	1420	+ve	34.253	4.530	0.604	2.797	4.890	5.227
			16:COM3	24:COM11	24:COM11	16:COM3	16:COM3	24:COM1
			-33.271	-42.304	-3.429	-0.291	-0.734	-66.782
			26:COM1	18:COM5	18:COM5	26:COM1	26:COM1	18:COM5
	1419	-ve	34.253	1.367	0.604	2.797	0.529	78.490
			16:COM3	24:COM11	24:COM11	16:COM3	24:COM11	16:COM3
			-33.271	-46.520	-3.429	-0.291	-1.882	-59.192
			26:COM1	18:COM5	18:COM5	26:COM1	18:COM5	26:COM1
2731	1421	+ve	11.131	15.464	0.799	0.675	6.154	0.000
			28:COM1	24:COM11	24:COM11	24:COM1	16:COM3	-
			-48.969	-24.981	-7.062	-1.828	-1.290	-48.381
			22:COM9	18:COM5	18:COM5	18:COM5	26:COM1	22:COM9
	1420	-ve	11.131	12.302	0.799	0.675	0.268	16.273
			28:COM1	24:COM11	24:COM11	24:COM1	24:COM11	24:COM1
			-48.969	-29.198	-7.062	-1.828	-7.619	-64.290
			22:COM9	18:COM5	18:COM5	18:COM5	18:COM5	18:COM5
2732	1422	+ve	10.894	30.694	2.279	0.837	2.892	16.480
			28:COM1	16:COM3	24:COM11	24:COM1	16:COM3	24:COM1
			-52.725	-11.405	-3.953	-1.850	-2.679	-58.434
			22:COM9	26:COM1	18:COM5	18:COM5	26:COM1	18:COM5
	1421	-ve	10.894	26.477	2.279	0.837	1.765	0.000
			28:COM1	16:COM3	24:COM11	24:COM1	24:COM11	-
			-52.725	-14.567	-3.953	-1.850	-4.818	-48.892
			22:COM9	26:COM1	18:COM5	18:COM5	18:COM5	18:COM5
2733	1423	+ve	28.404	48.176	2.529	0.220	0.000	86.077
			28:COM1	16:COM3	16:COM3	24:COM1	-	16:COM3
			-41.236	-0.406	0.000	-2.806	-2.674	-52.172
			22:COM9	26:COM1	-	18:COM5	22:COM9	26:COM1
	1422	-ve	28.404	43.959	2.529	0.220	2.564	7.047
			28:COM1	16:COM3	16:COM3	24:COM1	16:COM3	24:COM1
			-41.236	-3.569	0.000	-2.806	-0.753	-59.099
			22:COM9	26:COM1	-	18:COM5	26:COM1	18:COM5
2734	1424	+ve	67.498	0.000	4.787	7.942	4.614	68.285
			16:COM3	-	24:COM11	16:COM3	16:COM3	16:COM3
			-34.669	-60.336	-6.086	0.000	-1.638	-57.255
			26:COM1	18:COM5	18:COM5	-	26:COM1	26:COM1
	303	-ve	67.498	0.000	4.787	7.942	7.704	190.052
			16:COM3	-	24:COM11	16:COM3	24:COM11	16:COM3
			-34.669	-64.553	-6.086	0.000	-7.260	-42.518
			26:COM1	18:COM5	18:COM5	-	18:COM5	26:COM1
2735	1425	+ve	27.067	4.400	0.000	2.674	3.583	6.506
			24:COM1	24:COM11	-	16:COM3	16:COM3	24:COM1
			-44.978	-43.380	-3.585	-0.242	-0.364	-60.989
			18:COM5	18:COM5	18:COM5	26:COM1	26:COM1	18:COM5
	1424	-ve	27.067	1.238	0.000	2.674	0.000	83.705
			24:COM1	24:COM11	-	16:COM3	-	16:COM3
			-44.978	-47.597	-3.585	-0.242	-3.509	-54.983
			18:COM5	18:COM5	18:COM5	26:COM1	18:COM5	26:COM1

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
2736	1426	+ve	9.113	15.457	2.634	1.475	2.318	0.000
			28:COM15	24:COM11	16:COM3	16:COM3	24:COM11	-
			-55.503	-25.767	-2.838	-1.013	-3.398	-47.601
			22:COM9	18:COM5	26:COM13	26:COM13	18:COM5	18:COM5
	1425	-ve	9.113	12.295	2.634	1.475	1.972	16.375
			28:COM15	24:COM11	16:COM3	16:COM3	24:COM11	24:COM11
			-55.503	-29.983	-2.838	-1.013	-3.451	-60.940
			22:COM9	18:COM5	26:COM13	26:COM13	18:COM5	18:COM5
2737	1427	+ve	11.938	30.777	5.608	1.361	0.540	17.519
			28:COM15	16:COM3	16:COM3	16:COM3	24:COM11	24:COM11
			-53.916	-12.005	-1.106	-0.966	-6.127	-61.514
			22:COM9	26:COM13	26:COM13	26:COM13	18:COM5	18:COM5
	1426	-ve	11.938	26.561	5.608	1.361	4.810	0.000
			28:COM15	16:COM3	16:COM3	16:COM3	16:COM3	-
			-53.916	-15.167	-1.106	-0.966	-1.618	-47.789
			22:COM9	26:COM13	26:COM13	26:COM13	26:COM13	35:CVOL4
2738	1428	+ve	32.463	48.330	4.020	0.243	0.000	85.070
			20:COM7	16:COM3	16:COM3	24:COM11	-	16:COM3
			-38.859	-0.951	0.000	-2.773	-3.368	-56.278
			30:COM17	26:COM13	-	18:COM5	22:COM9	26:COM13
	1427	-ve	32.463	44.113	4.020	0.243	4.578	6.595
			20:COM7	16:COM3	16:COM3	24:COM11	16:COM3	24:COM11
			-38.859	-4.114	0.000	-2.773	0.000	-62.997
			30:COM17	26:COM13	-	18:COM5	-	18:COM5
2739	1429	+ve	48.640	0.000	4.244	8.015	6.005	56.942
			16:COM3	-	24:COM11	20:COM7	20:COM7	24:COM11
			-30.591	-58.608	-6.038	0.000	-2.597	-70.252
			26:COM13	18:COM5	18:COM5	-	30:COM17	18:COM5
	304	-ve	48.640	0.000	4.244	8.015	7.337	172.024
			16:COM3	-	24:COM11	20:COM7	24:COM11	16:COM3
			-30.591	-62.824	-6.038	0.000	-7.426	-56.104
			26:COM13	18:COM5	18:COM5	-	18:COM5	26:COM13
2740	1430	+ve	12.646	6.248	1.428	2.611	5.010	0.000
			24:COM11	24:COM11	24:COM11	16:COM3	16:COM3	-
			-40.292	-41.676	-5.146	-0.673	-1.670	-72.737
			18:COM5	18:COM5	18:COM5	26:COM13	26:COM13	18:COM5
	1429	-ve	12.646	3.085	1.428	2.611	1.216	68.884
			24:COM11	24:COM11	24:COM11	16:COM3	24:COM11	24:COM11
			-40.292	-45.892	-5.146	-0.673	-5.126	-66.264
			18:COM5	18:COM5	18:COM5	26:COM13	18:COM5	18:COM5
2741	1431	+ve	0.000	17.260	2.256	0.731	3.758	0.000
			-	24:COM11	24:COM11	28:COM15	16:COM3	-
			-45.161	-24.038	-4.444	-1.430	-2.655	-55.987
			22:COM9	18:COM5	18:COM5	22:COM9	26:COM13	18:COM5
	1430	-ve	0.000	14.098	2.256	0.731	1.747	8.915
			-	24:COM11	24:COM11	28:COM15	24:COM11	24:COM11
			-45.161	-28.255	-4.444	-1.430	-4.910	-72.454
			22:COM9	18:COM5	18:COM5	22:COM9	18:COM5	18:COM5

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
2742	1432	+ve	0.000	33.295	3.985	0.708	1.141	17.771
			-	16:COM3	16:COM3	28:COM1	24:COM1	24:COM1
			-52.396	-10.927	-1.683	-1.654	-4.546	-65.868
			22:COM9	26:COM1	26:COM1	22:COM9	18:COM5	18:COM5
	1431	-ve	0.000	29.078	3.985	0.708	3.229	0.000
			-	16:COM3	16:COM3	28:COM1	16:COM3	-
			-52.396	-14.090	-1.683	-1.654	-2.145	-55.254
			22:COM9	26:COM1	26:COM1	22:COM9	26:COM1	34:CVOL
2743	1433	+ve	23.621	50.908	3.957	0.000	0.000	90.121
			24:COM1	16:COM3	16:COM3	-	-	16:COM3
			-44.880	0.000	0.000	-2.791	-4.280	-57.536
			18:COM5	-	-	18:COM5	22:COM9	26:COM1
	1432	-ve	23.621	46.692	3.957	0.000	4.286	7.430
			24:COM1	16:COM3	16:COM3	-	16:COM3	24:COM1
			-44.880	-2.955	0.000	-2.791	0.000	-67.326
			18:COM5	26:COM1	-	18:COM5	-	18:COM5
2744	1434	+ve	55.055	0.000	0.000	5.085	8.209	47.846
			20:COM7	-	-	24:COM1	16:COM3	20:COM7
			-28.585	-55.405	-7.454	-3.809	-2.937	-40.571
			30:COM1	22:COM9	18:COM5	18:COM5	26:COM1	30:COM1
	317	-ve	55.055	0.000	0.000	5.085	1.003	160.813
			20:COM7	-	-	24:COM1	28:COM1	20:COM7
			-28.585	-58.549	-7.454	-3.809	-10.998	-26.258
			30:COM1	22:COM9	18:COM5	18:COM5	22:COM9	30:COM1
2745	1435	+ve	12.402	1.431	13.555	6.311	14.492	0.000
			28:COM1	28:COM1	20:COM7	16:COM3	28:COM1	-
			-31.276	-37.745	-13.796	-0.848	-14.158	-58.482
			22:COM9	22:COM9	30:COM1	26:COM1	22:COM9	18:COM5
	1434	-ve	12.402	0.000	13.555	6.311	12.727	54.844
			28:COM1	-	20:COM7	16:COM3	20:COM7	20:COM7
			-31.276	-40.890	-13.796	-0.848	-12.871	-40.800
			22:COM9	22:COM9	30:COM1	26:COM1	30:COM1	30:COM1
2746	1436	+ve	0.000	8.268	11.255	4.270	9.441	0.000
			-	28:COM1	20:COM7	16:COM3	28:COM1	-
			-32.678	-19.524	-10.752	-0.416	-9.347	-65.580
			35:CVOL	22:COM9	30:COM1	26:COM1	22:COM9	35:CVOL
	1435	-ve	0.000	5.910	11.255	4.270	12.977	0.000
			-	28:COM1	20:COM7	16:COM3	20:COM7	-
			-32.678	-22.669	-10.752	-0.416	-11.885	-58.815
			35:CVOL	22:COM9	30:COM1	26:COM1	30:COM1	18:COM5
2747	1437	+ve	0.000	17.932	2.783	0.874	6.735	0.000
			-	20:COM7	24:COM1	16:COM3	20:COM7	-
			-37.410	-4.347	-3.249	-0.937	-5.416	-64.037
			22:COM9	30:COM1	18:COM5	26:COM1	30:COM1	22:COM9
	1436	-ve	0.000	14.787	2.783	0.874	1.243	0.000
			-	20:COM7	24:COM1	16:COM3	20:COM7	-
			-37.410	-6.706	-3.249	-0.937	-0.849	-65.648
			22:COM9	30:COM1	18:COM5	26:COM1	30:COM1	35:CVOL

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
2748	1438	+ve	18.838	32.178	9.648	0.659	11.420	35.873
			28:COM15	20:COM7	28:COM15	28:COM15	20:COM7	28:COM15
			-20.818	0.000	-11.959	-3.707	-8.376	-37.108
			22:COM9	-	22:COM9	22:COM9	30:COM17	22:COM9
	1437	-ve	18.838	29.033	9.648	0.659	10.762	0.000
			28:COM15	20:COM7	28:COM15	28:COM15	28:COM15	-
			-20.818	0.000	-11.959	-3.707	-12.302	-66.378
			22:COM9	-	22:COM9	22:COM9	22:COM9	22:COM9
2749	1439	+ve	65.825	47.643	4.772	2.063	7.228	118.200
			20:COM7	20:COM7	28:COM15	28:COM15	20:COM7	20:COM7
			0.000	0.000	-8.084	-5.029	-3.367	-8.684
			-	-	22:COM9	22:COM9	30:COM17	30:COM17
	1438	-ve	65.825	44.497	4.772	2.063	6.115	31.162
			20:COM7	20:COM7	28:COM15	28:COM15	28:COM15	28:COM15
			0.000	0.000	-8.084	-5.029	-8.824	-42.923
			-	-	22:COM9	22:COM9	22:COM9	22:COM9
2750	1440	+ve	47.227	26.933	2.618	2.038	0.023	61.133
			20:COM7	28:COM15	20:COM7	28:COM15	28:COM15	20:COM7
			-24.936	-65.048	0.000	-4.284	-2.540	-57.623
			30:COM17	22:COM9	-	22:COM9	22:COM9	30:COM17
	245	-ve	47.227	24.699	2.618	2.038	3.751	186.110
			20:COM7	28:COM15	20:COM7	28:COM15	20:COM7	20:COM7
			-24.936	-68.027	0.000	-4.284	-1.277	-106.101
			30:COM17	22:COM9	-	22:COM9	30:COM17	30:COM17
2751	1441	+ve	10.233	35.207	2.073	5.799	2.774	4.104
			24:COM17	28:COM15	28:COM15	20:COM7	20:COM7	28:COM15
			-13.396	-48.486	-2.434	-3.170	-2.051	-26.399
			18:COM5	22:COM9	22:COM9	30:COM17	30:COM17	22:COM9
	1440	-ve	10.233	32.973	2.073	5.799	1.872	67.731
			24:COM17	28:COM15	28:COM15	20:COM7	20:COM7	20:COM7
			-13.396	-51.465	-2.434	-3.170	-1.828	-60.184
			18:COM5	22:COM9	22:COM9	30:COM17	30:COM17	30:COM17
2752	1442	+ve	27.581	47.641	0.603	8.747	2.955	80.153
			28:COM15	20:COM7	28:COM15	20:COM7	16:COM3	28:COM15
			-33.891	-35.694	-2.849	-2.522	-0.260	-84.268
			22:COM9	30:COM17	22:COM9	30:COM17	26:COM13	22:COM9
	1441	-ve	27.581	44.662	0.603	8.747	1.307	0.000
			28:COM15	20:COM7	28:COM15	20:COM7	28:COM15	-
			-33.891	-37.928	-2.849	-2.522	-2.833	-21.095
			22:COM9	30:COM17	22:COM9	30:COM17	22:COM9	18:COM5
2753	1443	+ve	39.916	56.526	3.310	1.715	5.981	37.033
			28:COM15	20:COM7	24:COM11	28:COM15	20:COM7	28:COM15
			-49.882	-43.596	-7.183	-5.355	-1.534	-52.539
			22:COM9	30:COM17	18:COM5	22:COM9	30:COM17	22:COM9
	319	-ve	39.916	53.413	3.310	1.715	5.213	124.874
			28:COM15	20:COM7	24:COM11	28:COM15	24:COM11	28:COM15
			-49.882	-45.931	-7.183	-5.355	-8.369	-160.418
			22:COM9	30:COM17	18:COM5	22:COM9	18:COM5	22:COM9

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
2754	1444	+ve	19.692	66.359	0.408	2.331	3.838	67.733
			16:COM3	20:COM7	28:COM15	28:COM15	20:COM7	20:COM7
			-9.856	-37.248	-3.018	-2.663	-0.698	-34.625
			26:COM13	30:COM17	22:COM9	22:COM9	30:COM17	30:COM17
	1443	-ve	19.692	63.214	0.408	2.331	0.273	41.699
			16:COM3	20:COM7	28:COM15	28:COM15	24:COM11	28:COM15
			-9.856	-39.607	-3.018	-2.663	-2.311	-60.879
			26:COM13	30:COM17	22:COM9	22:COM9	18:COM5	22:COM9
2755	1445	+ve	60.333	0.000	3.255	0.000	4.073	72.116
			16:COM3	-	24:COM11	-	16:COM3	16:COM3
			-18.937	-53.632	-6.860	-9.824	-2.346	-42.422
			26:COM13	18:COM5	18:COM5	35:CVOL4	26:COM13	26:COM13
	320	-ve	60.333	0.000	3.255	0.000	4.056	179.958
			16:COM3	-	24:COM11	-	24:COM11	16:COM3
			-18.937	-56.731	-6.860	-9.824	-9.375	-24.490
			26:COM13	18:COM5	18:COM5	35:CVOL4	18:COM5	26:COM13
2756	1446	+ve	22.830	0.000	3.359	0.000	1.696	13.829
			24:COM11	-	20:COM7	-	28:COM15	24:COM11
			-30.414	-37.432	-0.999	-4.691	-3.332	-58.395
			18:COM5	18:COM5	30:COM17	22:COM9	22:COM9	18:COM5
	1445	-ve	22.830	0.000	3.359	0.000	3.409	78.103
			24:COM11	-	20:COM7	-	16:COM3	16:COM3
			-30.414	-40.533	-0.999	-4.691	-0.432	-40.830
			18:COM5	18:COM5	30:COM17	22:COM9	26:COM13	26:COM13
2757	1447	+ve	0.000	5.052	3.521	0.336	3.025	0.000
			-	24:COM11	16:COM3	28:COM15	28:COM15	-
			-37.413	-23.344	-2.681	-2.405	-3.038	-60.323
			18:COM5	18:COM5	26:COM13	22:COM9	22:COM9	18:COM5
	1446	-ve	0.000	2.727	3.521	0.336	3.863	17.534
			-	24:COM11	16:COM3	28:COM15	16:COM3	24:COM11
			-37.413	-26.444	-2.681	-2.405	-2.233	-57.330
			18:COM5	18:COM5	26:COM13	22:COM9	26:COM13	18:COM5
2758	1448	+ve	0.000	12.271	2.521	0.484	4.998	0.000
			-	16:COM3	24:COM11	28:COM15	16:COM3	-
			-38.144	-10.889	-4.476	-0.679	-2.171	-63.169
			22:COM9	26:COM13	18:COM5	22:COM9	26:COM13	18:COM5
	1447	-ve	0.000	9.794	2.521	0.484	2.760	0.000
			-	24:COM11	24:COM11	28:COM15	24:COM11	-
			-38.144	-13.838	-4.476	-0.679	-3.755	-61.597
			22:COM9	18:COM5	18:COM5	22:COM9	18:COM5	18:COM5
2759	1449	+ve	6.437	24.804	1.272	1.790	7.203	14.143
			24:COM11	16:COM3	24:COM11	16:COM3	16:COM3	24:COM11
			-44.217	-3.849	-6.497	-0.301	-0.899	-62.043
			18:COM5	26:COM13	18:COM5	26:COM13	26:COM13	18:COM5
	1448	-ve	6.437	21.703	1.272	1.790	1.589	0.000
			24:COM11	16:COM3	24:COM11	16:COM3	24:COM11	-
			-44.217	-6.175	-6.497	-0.301	-5.503	-62.005
			18:COM5	26:COM13	18:COM5	26:COM13	18:COM5	18:COM5

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
2760	1450	+ve	33.094	38.803	0.704	4.314	3.608	69.103
			16:COM3	16:COM3	24:COM11	20:COM7	16:COM3	16:COM3
			-35.087	0.000	-4.223	-0.063	-0.627	-46.232
			26:COM13	-	18:COM5	30:COM17	26:COM13	26:COM13
	1449	-ve	33.094	35.703	0.704	4.314	0.760	9.993
			16:COM3	16:COM3	24:COM11	20:COM7	24:COM11	24:COM17
			-35.087	0.000	-4.223	-0.063	-4.659	-63.501
			26:COM13	-	18:COM5	30:COM17	18:COM5	18:COM5
2761	1451	+ve	64.510	0.000	2.289	0.000	2.492	85.382
			16:COM3	-	20:COM7	-	28:COM15	16:COM3
			-15.418	-55.532	-3.236	-10.408	-3.056	-53.690
			26:COM13	18:COM5	30:COM17	35:CVOL4	22:COM9	26:COM13
	321	-ve	64.510	0.000	2.289	0.000	2.517	197.972
			16:COM3	-	20:COM7	-	24:COM11	16:COM3
			-15.418	-58.659	-3.236	-10.408	-4.950	-40.270
			26:COM13	18:COM5	30:COM17	35:CVOL4	18:COM5	26:COM13
2762	1452	+ve	26.985	0.993	5.143	0.000	1.360	21.400
			16:COM3	24:COM11	16:COM3	-	24:COM11	24:COM17
			-26.435	-39.448	-1.212	-5.467	-4.532	-63.461
			26:COM13	18:COM5	26:COM13	18:COM5	18:COM5	18:COM5
	1451	-ve	26.985	0.000	5.143	0.000	5.654	91.157
			16:COM3	-	16:COM3	-	16:COM3	16:COM3
			-26.435	-42.576	-1.212	-5.467	-1.071	-51.949
			26:COM13	18:COM5	26:COM13	18:COM5	26:COM13	26:COM13
2763	1453	+ve	0.000	7.855	3.739	0.234	1.867	0.000
			-	24:COM11	16:COM3	24:COM17	24:COM11	-
			-33.370	-25.165	-1.551	-2.794	-3.384	-59.488
			18:COM5	18:COM5	26:COM13	18:COM5	18:COM5	18:COM5
	1452	-ve	0.000	5.509	3.739	0.234	4.004	25.690
			-	24:COM11	16:COM3	24:COM17	16:COM3	24:COM17
			-33.370	-28.294	-1.551	-2.794	-1.204	-62.409
			18:COM5	18:COM5	26:COM13	18:COM5	26:COM13	18:COM5
2764	1454	+ve	0.000	15.315	2.270	0.476	3.058	0.000
			-	16:COM3	24:COM11	24:COM17	16:COM3	-
			-39.292	-12.517	-2.669	-0.640	-2.018	-59.823
			18:COM5	26:COM13	18:COM5	18:COM5	26:COM13	18:COM5
	1453	-ve	0.000	12.591	2.270	0.476	2.530	0.000
			-	24:COM11	24:COM11	24:COM17	16:COM3	-
			-39.292	-15.268	-2.669	-0.640	-2.278	-60.889
			18:COM5	18:COM5	18:COM5	18:COM5	26:COM13	18:COM5
2765	1455	+ve	11.898	28.053	1.048	2.103	4.490	24.457
			24:COM17	16:COM3	24:COM11	35:CVOL4	16:COM3	24:COM17
			-48.858	-5.141	-4.167	0.000	-0.693	-60.331
			18:COM5	26:COM13	18:COM5	-	26:COM13	18:COM5
	1454	-ve	11.898	24.925	1.048	2.103	1.380	0.000
			24:COM17	16:COM3	24:COM11	35:CVOL4	24:COM11	-
			-48.858	-7.487	-4.167	0.000	-3.736	-58.087
			18:COM5	26:COM13	18:COM5	-	18:COM5	18:COM5

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
2766	1456	+ve	38.190	42.252	0.000	4.954	4.166	89.588
			24:COM1	16:COM3	-	35:CVOL4	35:CVOL4	16:COM3
			-43.372	0.000	-4.005	0.000	0.000	-48.794
			18:COM5	-	18:COM5	-	-	26:COM1
	1455	-ve	38.190	39.123	0.000	4.954	0.000	20.334
			24:COM1	16:COM3	-	35:CVOL4	-	24:COM1
			-43.372	-0.485	-4.005	0.000	-3.817	-61.171
			18:COM5	26:COM1	18:COM5	-	18:COM5	18:COM5
2767	1457	+ve	63.177	0.000	4.901	3.223	2.518	28.879
			20:COM7	-	20:COM7	24:COM1	28:COM1	20:COM7
			-16.300	-40.603	-3.636	-8.813	-4.408	-8.105
			30:COM1	34:CVOL3	30:COM1	18:COM5	22:COM9	30:COM1
	323	-ve	63.177	0.000	4.901	3.223	5.339	109.468
			20:COM7	-	20:COM7	24:COM1	20:COM7	20:COM7
			-16.300	-43.729	-3.636	-8.813	-4.736	0.000
			30:COM1	34:CVOL3	30:COM1	18:COM5	30:COM1	-
2768	1458	+ve	30.824	0.000	3.923	4.040	3.019	0.000
			28:COM1	-	16:COM3	24:COM1	24:COM1	-
			-29.352	-25.618	-1.121	-5.688	-5.223	-39.188
			22:COM9	22:COM9	26:COM1	18:COM5	18:COM5	22:COM9
	1457	-ve	30.824	0.000	3.923	4.040	2.871	34.305
			28:COM1	-	16:COM3	24:COM1	16:COM3	20:COM7
			-29.352	-28.744	-1.121	-5.688	0.000	-6.438
			22:COM9	22:COM9	26:COM1	18:COM5	-	30:COM1
2769	1459	+ve	13.390	0.000	8.064	2.667	8.084	0.000
			28:COM1	-	16:COM3	24:COM1	16:COM3	-
			-43.670	-13.132	-7.336	-3.333	-7.872	-54.447
			22:COM9	22:COM9	26:COM1	18:COM5	26:COM1	35:CVOL4
	1458	-ve	13.390	0.000	8.064	2.667	8.037	0.000
			28:COM1	-	16:COM3	24:COM1	16:COM3	-
			-43.670	-16.258	-7.336	-3.333	-6.390	-37.085
			22:COM9	22:COM9	26:COM1	18:COM5	26:COM1	22:COM9
2770	1460	+ve	5.855	6.437	9.662	0.373	11.091	0.000
			24:COM1	16:COM3	24:COM1	28:COM1	16:COM3	-
			-44.305	-2.661	-10.175	-1.112	-10.347	-52.906
			18:COM5	26:COM1	18:COM5	22:COM9	26:COM1	18:COM5
	1459	-ve	5.855	3.465	9.662	0.373	8.704	0.000
			24:COM1	24:COM1	24:COM1	28:COM1	24:COM1	-
			-44.305	-5.159	-10.175	-1.112	-8.973	-53.572
			18:COM5	18:COM5	18:COM5	22:COM9	18:COM5	35:CVOL4
2771	1461	+ve	14.408	19.936	1.453	2.533	2.835	3.666
			24:COM1	16:COM3	16:COM3	16:COM3	16:COM3	24:COM1
			-40.857	0.000	-0.973	-2.774	-3.061	-39.055
			18:COM5	-	26:COM1	26:COM1	26:COM1	18:COM5
	1460	-ve	14.408	16.811	1.453	2.533	5.147	0.000
			24:COM1	16:COM3	16:COM3	16:COM3	16:COM3	-
			-40.857	0.000	-0.973	-2.774	-4.427	-53.401
			18:COM5	-	26:COM1	26:COM1	26:COM1	35:CVOL4

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
2772	1462	+ve	30.559	34.878	13.990	5.540	15.586	55.903
			16:COM3	16:COM3	24:COM11	16:COM3	16:COM3	16:COM3
			-26.119	0.000	-13.522	-3.371	-15.368	-16.283
			26:COM13	-	18:COM5	26:COM13	26:COM13	26:COM13
	1461	-ve	30.559	31.752	13.990	5.540	12.278	0.870
			16:COM3	16:COM3	24:COM11	16:COM3	16:COM3	24:COM11
			-26.119	0.000	-13.522	-3.371	-11.135	-41.076
			26:COM13	-	18:COM5	26:COM13	26:COM13	18:COM5
2773	6179	+ve	89.243	11.293	6.975	4.664	5.627	96.802
			16:COM3	24:COM11	20:COM7	28:COM15	20:COM7	16:COM3
			-68.413	-61.397	-5.762	-7.401	-5.214	-93.356
			26:COM13	18:COM5	30:COM17	22:COM9	30:COM17	26:COM13
	271	-ve	89.243	7.965	6.975	4.664	9.609	227.139
			16:COM3	24:COM11	20:COM7	28:COM15	20:COM7	16:COM3
			-68.413	-65.834	-5.762	-7.401	-6.708	-112.920
			26:COM13	18:COM5	30:COM17	22:COM9	30:COM17	26:COM13
2774	6178	+ve	44.346	20.474	3.597	4.764	5.866	22.589
			24:COM11	24:COM11	24:COM11	28:COM15	16:COM3	24:COM11
			-59.724	-46.487	-6.085	-8.706	-4.014	-68.110
			18:COM5	18:COM5	18:COM5	22:COM9	26:COM13	18:COM5
	6179	-ve	44.346	17.119	3.597	4.764	3.449	113.579
			24:COM11	24:COM11	24:COM11	28:COM15	24:COM11	16:COM3
			-59.724	-50.960	-6.085	-8.706	-6.744	-97.189
			18:COM5	18:COM5	18:COM5	22:COM9	18:COM5	26:COM13
2775	6177	+ve	7.091	30.581	3.845	5.046	4.976	0.000
			24:COM11	24:COM11	24:COM11	28:COM15	16:COM3	-
			-37.528	-30.484	-5.642	-7.278	-4.099	-40.312
			18:COM5	18:COM5	18:COM5	22:COM9	26:COM13	18:COM5
	6178	-ve	7.091	27.229	3.845	5.046	3.864	36.081
			24:COM11	24:COM11	24:COM11	28:COM15	24:COM11	24:COM11
			-37.528	-34.954	-5.642	-7.278	-6.703	-76.114
			18:COM5	18:COM5	18:COM5	22:COM9	18:COM5	18:COM5
2776	6176	+ve	7.158	46.880	2.464	4.613	1.964	62.959
			24:COM11	16:COM3	24:COM11	28:COM15	24:COM11	24:COM11
			-29.028	-19.541	-2.766	-6.452	-2.838	-65.124
			18:COM5	26:COM13	18:COM5	22:COM9	18:COM5	18:COM5
	6177	-ve	7.158	42.414	2.464	4.613	2.507	0.000
			24:COM11	16:COM3	24:COM11	28:COM15	24:COM11	-
			-29.028	-22.891	-2.766	-6.452	-4.005	-33.556
			18:COM5	26:COM13	18:COM5	22:COM9	18:COM5	35:CVOL4
2777	6153	+ve	51.481	11.830	3.461	9.642	0.000	49.111
			16:COM3	24:COM11	16:COM3	20:COM7	-	28:COM15
			-29.701	-35.332	-0.368	-7.885	-4.012	-43.408
			26:COM13	18:COM5	26:COM13	30:COM17	18:COM5	22:COM9
	300	-ve	51.481	8.316	3.461	9.642	6.141	127.551
			16:COM3	24:COM11	16:COM3	20:COM7	24:COM11	16:COM3
			-29.701	-40.017	-0.368	-7.885	-3.780	-62.044
			26:COM13	18:COM5	26:COM13	30:COM17	18:COM5	26:COM13

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
2778	6154	+ve	26.920	23.381	10.271	4.610	2.362	14.610
			16:COM3	16:COM3	16:COM3	28:COM15	24:COM11	20:COM7
			-18.148	-19.614	-2.743	-10.827	-12.308	-5.144
			26:COM13	26:COM13	26:COM13	22:COM9	18:COM5	30:COM17
	6153	-ve	26.920	18.732	10.271	4.610	9.951	55.772
			16:COM3	24:COM11	16:COM3	28:COM15	16:COM3	28:COM15
			-18.148	-23.164	-2.743	-10.827	-3.586	-45.586
			26:COM13	18:COM5	26:COM13	22:COM9	26:COM13	22:COM9
2779	1469	+ve	67.459	45.785	2.975	29.827	0.087	123.740
			34:CVOL3	34:CVOL3	16:COM3	34:CVOL3	28:COM15	34:CVOL3
			0.000	0.000	-0.236	0.000	-3.865	0.000
			-	-	26:COM13	-	22:COM9	-
	1561	-ve	67.459	42.717	2.975	29.827	2.087	38.125
			34:CVOL3	34:CVOL3	16:COM3	34:CVOL3	16:COM3	34:CVOL3
			0.000	0.000	-0.236	0.000	-0.567	0.000
			-	-	26:COM13	-	26:COM13	-
2780	1470	+ve	121.641	68.179	4.913	23.993	0.096	224.723
			34:CVOL3	34:CVOL3	16:COM3	34:CVOL3	24:COM11	34:CVOL3
			0.000	0.000	0.000	0.000	-3.263	0.000
			-	-	-	-	18:COM5	-
	1469	-ve	121.641	65.589	4.913	23.993	4.771	115.508
			34:CVOL3	34:CVOL3	16:COM3	34:CVOL3	16:COM3	34:CVOL3
			0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
2781	1288	+ve	94.578	13.551	5.004	48.537	9.061	102.053
			20:COM7	28:COM15	28:COM15	20:COM7	20:COM7	20:COM7
			-50.651	-68.935	-12.611	-3.389	-2.240	-62.182
			30:COM17	22:COM9	22:COM9	30:COM17	30:COM17	30:COM17
	286	-ve	94.578	11.427	5.004	48.537	5.952	216.680
			20:COM7	28:COM15	28:COM15	20:COM7	28:COM15	20:COM7
			-50.651	-71.767	-12.611	-3.389	-11.584	-82.087
			30:COM17	22:COM9	22:COM9	30:COM17	22:COM9	30:COM17
2782	1287	+ve	52.745	5.827	0.000	34.694	9.664	35.236
			28:COM15	28:COM15	-	20:COM7	20:COM7	28:COM15
			-60.520	-48.648	-12.379	0.000	-0.068	-58.702
			22:COM9	22:COM9	22:COM9	-	30:COM17	22:COM9
	1288	-ve	52.745	3.709	0.000	34.694	0.000	110.781
			28:COM15	28:COM15	-	20:COM7	-	20:COM7
			-60.520	-51.472	-12.379	0.000	-10.556	-60.291
			22:COM9	22:COM9	22:COM9	-	22:COM9	30:COM17
2783	1473	+ve	0.000	0.000	0.000	0.062	0.319	10.578
			-	-	-	24:COM17	16:COM3	16:COM3
			-19.145	-3.964	-0.404	-0.408	-0.002	-4.822
			18:COM5	18:COM5	18:COM5	18:COM5	26:COM13	26:COM13
	1144	-ve	0.000	0.000	0.000	0.062	0.000	17.276
			-	-	-	24:COM17	-	16:COM3
			-19.145	-5.569	-0.404	-0.408	-0.471	0.000
			18:COM5	18:COM5	18:COM5	18:COM5	18:COM5	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
2784	1474	+ve	5.036	0.000	0.120	0.000	0.037	3.258
			24:COM1	-	16:COM3	-	24:COM1	24:COM1
			-5.956	-3.486	-0.018	-0.354	-0.123	-8.070
			18:COM5	18:COM5	26:COM1	22:COM9	18:COM5	18:COM5
	1473	-ve	5.036	0.000	0.120	0.000	0.113	10.475
			24:COM1	-	16:COM3	-	16:COM3	16:COM3
			-5.956	-5.091	-0.018	-0.354	0.000	-4.864
			18:COM5	18:COM5	26:COM1	22:COM9	-	26:COM1
2785	1475	+ve	11.594	1.110	0.203	0.033	0.106	0.000
			16:COM3	24:COM1	16:COM3	24:COM1	24:COM1	-
			0.000	-2.760	-0.088	-0.227	-0.179	-8.651
			-	18:COM5	26:COM1	18:COM5	18:COM5	18:COM5
	1474	-ve	11.594	0.000	0.203	0.033	0.218	3.188
			16:COM3	-	16:COM3	24:COM1	16:COM3	24:COM1
			0.000	-4.364	-0.088	-0.227	-0.067	-8.105
			-	18:COM5	26:COM1	18:COM5	26:COM1	18:COM5
2786	1476	+ve	14.246	2.477	0.134	0.060	0.196	0.000
			20:COM7	16:COM3	24:COM1	24:COM1	16:COM3	-
			0.000	-1.263	-0.169	-0.065	-0.116	-8.868
			-	26:COM1	18:COM5	18:COM5	26:COM1	18:COM5
	1475	-ve	14.246	1.109	0.134	0.060	0.147	0.000
			20:COM7	24:COM1	24:COM1	24:COM1	16:COM3	-
			0.000	-2.703	-0.169	-0.065	-0.134	-8.644
			-	18:COM5	18:COM5	18:COM5	26:COM1	18:COM5
2787	1477	+ve	14.406	4.117	0.071	0.210	0.275	2.691
			20:COM7	16:COM3	24:COM1	16:COM3	16:COM3	24:COM1
			0.000	-0.097	-0.248	-0.032	-0.051	-8.834
			-	26:COM1	18:COM5	26:COM1	26:COM1	18:COM5
	1476	-ve	14.406	2.513	0.071	0.210	0.087	0.000
			20:COM7	16:COM3	24:COM1	16:COM3	24:COM1	-
			0.000	-1.300	-0.248	-0.032	-0.210	-8.868
			-	26:COM1	18:COM5	26:COM1	18:COM5	18:COM5
2788	1478	+ve	9.877	4.683	0.022	0.342	0.120	8.998
			16:COM3	16:COM3	24:COM1	16:COM3	16:COM3	16:COM3
			-2.683	0.000	-0.132	0.000	-0.010	-6.305
			26:COM1	-	18:COM5	-	26:COM1	26:COM1
	1477	-ve	9.877	3.079	0.022	0.342	0.035	2.763
			16:COM3	16:COM3	24:COM1	16:COM3	24:COM1	24:COM1
			-2.683	-0.016	-0.132	0.000	-0.140	-8.795
			26:COM1	26:COM1	18:COM5	-	18:COM5	18:COM5
2789	1479	+ve	2.062	0.000	0.020	0.000	0.260	12.969
			24:COM1	-	28:COM1	-	20:COM7	16:COM3
			-19.768	-3.420	-0.315	-0.365	-0.028	-6.865
			18:COM5	34:CVOL3	22:COM9	18:COM5	30:COM1	26:COM1
	1145	-ve	2.062	0.000	0.020	0.000	0.013	21.193
			24:COM1	-	28:COM1	-	28:COM1	16:COM3
			-19.768	-5.101	-0.315	-0.365	-0.364	-1.966
			18:COM5	32:CVOL1	22:COM9	18:COM5	22:COM9	26:COM1

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
2790	1480	+ve	11.016	0.090	0.174	0.001	0.065	4.602
			16:COM3	24:COM11	16:COM3	24:COM1	24:COM11	24:COM1
			-10.691	-3.839	-0.048	-0.412	-0.173	-8.847
			26:COM1	18:COM5	26:COM1	18:COM5	18:COM5	18:COM5
	1479	-ve	11.016	0.000	0.174	0.001	0.173	12.833
			16:COM3	-	16:COM3	24:COM1	16:COM3	16:COM3
			-10.691	-5.459	-0.048	-0.412	-0.032	-6.886
			26:COM1	18:COM5	26:COM1	18:COM5	26:COM1	26:COM1
2791	1481	+ve	13.970	1.521	0.215	0.044	0.109	0.000
			16:COM3	24:COM11	16:COM3	24:COM1	24:COM11	-
			-4.109	-2.962	-0.091	-0.262	-0.198	-8.519
			26:COM1	18:COM5	26:COM1	18:COM5	18:COM5	18:COM5
	1480	-ve	13.970	0.305	0.215	0.044	0.226	4.521
			16:COM3	24:COM11	16:COM3	24:COM1	16:COM3	24:COM1
			-4.109	-4.582	-0.091	-0.262	-0.071	-8.876
			26:COM1	18:COM5	26:COM1	18:COM5	26:COM1	18:COM5
2792	1482	+ve	11.562	2.932	0.136	0.064	0.180	0.000
			16:COM3	16:COM3	24:COM11	24:COM1	16:COM3	-
			0.000	-1.482	-0.158	-0.072	-0.121	-8.082
			-	26:COM1	18:COM5	18:COM5	26:COM1	18:COM5
	1481	-ve	11.562	1.510	0.136	0.064	0.153	0.000
			16:COM3	24:COM11	24:COM11	24:COM1	16:COM3	-
			0.000	-2.896	-0.158	-0.072	-0.137	-8.507
			-	18:COM5	18:COM5	18:COM5	26:COM1	18:COM5
2793	1483	+ve	8.079	4.624	0.070	0.216	0.248	4.220
			16:COM3	16:COM3	24:COM11	16:COM3	16:COM3	24:COM1
			0.000	-0.281	-0.234	-0.016	-0.051	-8.381
			-	26:COM1	18:COM5	26:COM1	26:COM1	18:COM5
	1482	-ve	8.079	3.003	0.070	0.216	0.087	0.000
			16:COM3	16:COM3	24:COM11	16:COM3	24:COM11	-
			0.000	-1.496	-0.234	-0.016	-0.215	-8.087
			-	26:COM1	18:COM5	26:COM1	18:COM5	18:COM5
2794	1484	+ve	4.020	5.345	0.001	0.350	0.137	12.321
			24:COM1	16:COM3	24:COM11	35:CVOL4	16:COM3	16:COM3
			-6.721	0.000	-0.145	0.000	0.000	-6.139
			18:COM5	-	18:COM5	-	-	26:COM1
	1483	-ve	4.020	3.725	0.001	0.350	0.024	4.289
			24:COM1	16:COM3	24:COM11	35:CVOL4	24:COM11	24:COM1
			-6.721	0.000	-0.145	0.000	-0.152	-8.336
			18:COM5	-	18:COM5	-	18:COM5	18:COM5
2797	1487	+ve	3.647	4.543	0.168	0.397	0.276	7.523
			16:COM3	35:CVOL4	24:COM11	16:COM3	16:COM3	16:COM3
			-1.762	0.000	-0.237	-0.200	-0.195	-1.290
			26:COM1	-	18:COM5	26:COM1	26:COM1	26:COM1
	1486	-ve	3.647	2.924	0.168	0.397	0.137	1.773
			16:COM3	35:CVOL4	24:COM11	16:COM3	24:COM11	24:COM1
			-1.762	0.000	-0.237	-0.200	-0.192	-6.282
			26:COM1	-	18:COM5	26:COM1	18:COM5	18:COM5

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
2799	1489	+ve	77.240	101.911	3.814	0.812	6.297	32.710
			16:COM3	16:COM3	16:COM3	24:COM1	24:COM1	20:COM7
			-27.060	-94.008	-2.787	-4.257	-6.443	0.000
			26:COM1	26:COM1	26:COM1	18:COM5	18:COM5	-
	5465	-ve	77.240	98.713	3.814	0.812	4.241	211.049
			16:COM3	16:COM3	16:COM3	24:COM1	20:COM7	16:COM3
			-27.060	-96.407	-2.787	-4.257	-2.316	-181.171
			26:COM1	26:COM1	26:COM1	18:COM5	30:COM1	26:COM1
2803	1283	+ve	73.535	179.185	4.825	5.477	6.407	50.158
			16:COM3	24:COM1	28:COM1	20:COM7	20:COM7	24:COM1
			-48.303	-180.010	-6.370	-2.581	-5.071	-49.090
			26:COM1	18:COM5	22:COM9	30:COM1	30:COM1	18:COM5
	5479	-ve	73.535	176.569	4.825	5.477	4.736	318.554
			16:COM3	24:COM1	28:COM1	20:COM7	28:COM1	16:COM3
			-48.303	-183.498	-6.370	-2.581	-6.515	-309.667
			26:COM1	18:COM5	22:COM9	30:COM1	22:COM9	26:COM1
2804	1494	+ve	33.586	59.904	4.776	4.703	8.037	44.974
			20:COM7	28:COM1	28:COM1	24:COM1	20:COM7	20:COM7
			0.000	-98.210	-7.905	-13.182	-5.846	-37.568
			-	22:COM9	22:COM9	18:COM5	30:COM1	30:COM1
	258	-ve	33.586	55.187	4.776	4.703	5.486	286.492
			20:COM7	28:COM1	28:COM1	24:COM1	28:COM1	20:COM7
			0.000	-105.636	-7.905	-13.182	-10.714	-173.885
			-	22:COM9	22:COM9	18:COM5	22:COM9	30:COM1
2805	1495	+ve	51.661	60.175	2.549	7.876	4.548	84.031
			20:COM7	28:COM1	28:COM1	16:COM3	20:COM7	28:COM1
			-17.424	-80.535	-2.334	-7.602	-2.848	-137.720
			30:COM1	22:COM9	22:COM9	26:COM1	30:COM1	22:COM9
	1494	-ve	51.661	55.917	2.549	7.876	3.071	42.499
			20:COM7	28:COM1	28:COM1	16:COM3	20:COM7	28:COM1
			-17.424	-87.240	-2.334	-7.602	-0.912	-40.874
			30:COM1	22:COM9	22:COM9	26:COM1	30:COM1	22:COM9
2806	1496	+ve	4.350	3.330	0.360	0.082	0.299	0.000
			20:COM7	16:COM3	20:COM7	28:COM1	20:COM7	-
			-2.808	-0.526	-0.297	-0.199	-0.282	-9.447
			30:COM1	26:COM1	30:COM1	22:COM9	30:COM1	22:COM9
	1531	-ve	4.350	1.602	0.360	0.082	0.371	0.000
			20:COM7	16:COM3	20:COM7	28:COM1	16:COM3	-
			-2.808	-1.821	-0.297	-0.199	-0.239	-12.485
			30:COM1	26:COM1	30:COM1	22:COM9	26:COM1	22:COM9
2807	1497	+ve	4.322	6.439	0.160	0.000	0.415	5.427
			20:COM7	16:COM3	24:COM1	-	20:COM7	16:COM3
			-3.877	0.000	-0.441	-0.220	-0.119	-3.601
			30:COM1	-	18:COM5	18:COM5	30:COM1	26:COM1
	1496	-ve	4.322	4.710	0.160	0.000	0.172	0.000
			20:COM7	16:COM3	24:COM1	-	24:COM1	-
			-3.877	0.000	-0.441	-0.220	-0.384	-9.495
			30:COM1	-	18:COM5	18:COM5	18:COM5	22:COM9

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
2808	1498	+ve	0.000	3.941	0.034	0.228	0.380	5.720
			-	28:COM15	28:COM15	16:COM3	20:COM7	20:COM7
			-8.267	-4.105	-0.397	-0.106	-0.052	-5.137
			18:COM5	22:COM9	22:COM9	26:COM13	30:COM17	30:COM17
	1143	-ve	0.000	2.754	0.034	0.228	0.023	15.114
			-	28:COM15	28:COM15	16:COM3	24:COM11	20:COM7
			-8.267	-5.688	-0.397	-0.106	-0.396	-11.546
			18:COM5	22:COM9	22:COM9	26:COM13	18:COM5	30:COM17
2809	1499	+ve	5.285	4.538	0.198	0.595	0.481	2.431
			20:COM7	20:COM7	28:COM15	16:COM3	20:COM7	20:COM7
			-3.774	-3.160	-0.427	-0.300	-0.216	-1.802
			30:COM17	30:COM17	22:COM9	26:COM13	30:COM17	30:COM17
	1498	-ve	5.285	3.142	0.198	0.595	0.172	5.709
			20:COM7	28:COM15	28:COM15	16:COM3	28:COM15	20:COM7
			-3.774	-4.577	-0.427	-0.300	-0.356	-5.023
			30:COM17	22:COM9	22:COM9	26:COM13	22:COM9	30:COM17
2810	1500	+ve	4.276	4.054	0.062	0.181	0.104	8.746
			16:COM3	20:COM7	28:COM15	28:COM15	20:COM7	20:COM7
			-1.447	-0.571	-0.133	-0.297	-0.038	-4.007
			26:COM13	30:COM17	22:COM9	22:COM9	30:COM17	30:COM17
	1499	-ve	4.276	2.487	0.062	0.181	0.093	2.505
			16:COM3	20:COM7	28:COM15	28:COM15	28:COM15	20:COM7
			-1.447	-1.746	-0.133	-0.297	-0.162	-1.798
			26:COM13	30:COM17	22:COM9	22:COM9	22:COM9	30:COM17
2817	1507	+ve	17.651	66.166	9.388	0.000	10.631	106.827
			20:COM7	20:COM7	16:COM3	-	24:COM11	20:COM7
			0.000	-4.576	-8.186	-51.482	-10.530	-24.887
			-	30:COM17	26:COM13	18:COM5	18:COM5	30:COM17
	1165	-ve	17.651	60.935	9.388	0.000	3.263	14.455
			20:COM7	20:COM7	16:COM3	-	16:COM3	28:COM15
			0.000	-7.971	-8.186	-51.482	-1.398	-16.551
			-	30:COM17	26:COM13	18:COM5	26:COM13	22:COM9
2818	1508	+ve	12.701	6.114	0.574	1.008	0.184	0.819
			16:COM3	34:CVOL3	16:COM3	34:CVOL3	24:COM11	24:COM17
			-5.150	0.000	-0.214	0.000	-0.604	-9.310
			26:COM13	-	26:COM13	-	18:COM5	18:COM5
	1539	-ve	12.701	4.435	0.574	1.008	0.528	0.000
			16:COM3	16:COM3	16:COM3	34:CVOL3	16:COM3	-
			-5.150	0.000	-0.214	0.000	-0.238	-17.803
			26:COM13	-	26:COM13	-	26:COM13	34:CVOL3
2819	1509	+ve	12.368	10.976	0.468	1.154	0.095	15.021
			16:COM3	34:CVOL3	16:COM3	34:CVOL3	24:COM11	16:COM3
			-5.625	0.000	-0.116	0.000	-0.436	-0.726
			26:COM13	-	26:COM13	-	18:COM5	26:COM13
	1508	-ve	12.368	9.083	0.468	1.154	0.487	0.685
			16:COM3	34:CVOL3	16:COM3	34:CVOL3	16:COM3	24:COM17
			-5.625	0.000	-0.116	0.000	-0.134	-9.509
			26:COM13	-	26:COM13	-	26:COM13	18:COM5

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
2820	1510	+ve	16.321	0.595	1.929	0.000	0.000	2.939
			16:COM3	32:CVOL1	20:COM7	-	-	28:COM1
			-11.625	-1.774	0.000	-3.518	-1.403	-21.704
			26:COM1	35:CVOL4	-	22:COM9	22:COM9	22:COM9
	1178	-ve	16.321	0.112	1.929	0.000	1.299	3.839
			16:COM3	24:COM11	20:COM7	-	20:COM7	28:COM1
			-11.625	-2.416	0.000	-3.518	0.000	-20.501
			26:COM1	35:CVOL4	-	22:COM9	-	22:COM9
2821	1511	+ve	9.547	2.925	0.697	1.974	0.655	5.271
			24:COM1	34:CVOL3	20:COM7	20:COM7	20:COM7	28:COM1
			-11.459	0.000	-0.711	-0.450	-0.614	-18.771
			18:COM5	-	30:COM1	30:COM1	30:COM1	22:COM9
	1510	-ve	9.547	1.997	0.697	1.974	0.794	2.758
			24:COM1	34:CVOL3	20:COM7	20:COM7	20:COM7	28:COM1
			-11.459	0.000	-0.711	-0.450	-0.779	-21.638
			18:COM5	-	30:COM1	30:COM1	30:COM1	22:COM9
2822	1512	+ve	10.618	8.016	0.267	0.377	0.212	9.610
			28:COM1	20:COM7	24:COM1	28:COM1	16:COM3	20:COM7
			-17.955	0.000	-0.264	-0.462	-0.188	-5.359
			22:COM9	-	18:COM5	22:COM9	26:COM1	30:COM1
	1511	-ve	10.618	7.115	0.267	0.377	0.338	5.057
			28:COM1	20:COM7	24:COM1	28:COM1	16:COM3	28:COM1
			-17.955	0.000	-0.264	-0.462	-0.308	-19.067
			22:COM9	-	18:COM5	22:COM9	26:COM1	22:COM9
2823	1513	+ve	22.277	7.803	19.047	11.111	0.360	16.093
			28:COM1	28:COM1	20:COM7	20:COM7	28:COM1	20:COM7
			-23.830	-20.302	-6.111	-4.153	-4.896	-12.573
			22:COM9	22:COM9	30:COM1	30:COM1	22:COM9	30:COM1
	1177	-ve	22.277	7.656	19.047	11.111	3.309	24.717
			28:COM1	28:COM1	20:COM7	20:COM7	20:COM7	20:COM7
			-23.830	-20.497	-6.111	-4.153	-2.373	-15.839
			22:COM9	22:COM9	30:COM1	30:COM1	30:COM1	30:COM1
2824	1514	+ve	15.552	6.759	0.769	0.646	0.738	0.000
			20:COM7	28:COM1	28:COM1	20:COM7	20:COM7	-
			-5.151	-11.227	-0.841	0.000	-0.695	-5.883
			30:COM1	22:COM9	22:COM9	-	30:COM1	22:COM9
	1513	-ve	15.552	6.114	0.769	0.646	0.740	16.283
			20:COM7	28:COM1	28:COM1	20:COM7	28:COM1	20:COM7
			-5.151	-12.088	-0.841	0.000	-0.832	-12.683
			30:COM1	22:COM9	22:COM9	-	22:COM9	30:COM1
2825	1515	+ve	8.783	9.379	0.033	0.302	0.335	13.772
			20:COM7	20:COM7	28:COM1	28:COM1	20:COM7	28:COM1
			0.000	-6.864	-0.167	-1.097	-0.226	-16.646
			-	30:COM1	22:COM9	22:COM9	30:COM1	22:COM9
	1514	-ve	8.783	8.567	0.033	0.302	0.168	0.000
			20:COM7	20:COM7	28:COM1	28:COM1	24:COM1	-
			0.000	-7.473	-0.167	-1.097	-0.295	-5.714
			-	30:COM1	22:COM9	22:COM9	18:COM5	22:COM9

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
2826	1516	+ve	11.194	0.382	0.394	1.121	0.062	0.342
			16:COM3	24:COM11	20:COM7	16:COM3	24:COM11	28:COM15
			-1.517	-5.745	-0.064	-0.070	-0.429	-11.474
			26:COM13	18:COM5	30:COM17	26:COM13	18:COM5	22:COM9
	1515	-ve	11.194	0.000	0.394	1.121	0.371	7.944
			16:COM3	-	20:COM7	16:COM3	20:COM7	20:COM7
			-1.517	-6.601	-0.064	-0.070	-0.126	-7.733
			26:COM13	18:COM5	30:COM17	26:COM13	30:COM17	30:COM17
2827	1517	+ve	15.158	3.485	0.870	0.540	0.306	1.025
			16:COM3	16:COM3	16:COM3	16:COM3	24:COM11	24:COM17
			-5.134	-1.399	-0.329	-0.223	-0.870	-9.671
			26:COM13	26:COM13	26:COM13	26:COM13	18:COM5	18:COM5
	1516	-ve	15.158	2.620	0.870	0.540	0.762	0.340
			16:COM3	16:COM3	16:COM3	16:COM3	16:COM3	28:COM15
			-5.134	-2.048	-0.329	-0.223	-0.311	-11.478
			26:COM13	26:COM13	26:COM13	26:COM13	26:COM13	22:COM9
2828	1518	+ve	14.966	8.396	0.889	0.396	0.396	12.631
			16:COM3	16:COM3	16:COM3	20:COM7	24:COM11	16:COM3
			-7.923	0.000	-0.429	-0.142	-0.808	-5.290
			26:COM13	-	26:COM13	30:COM17	18:COM5	26:COM13
	1517	-ve	14.966	7.531	0.889	0.396	0.862	0.927
			16:COM3	16:COM3	16:COM3	20:COM7	16:COM3	24:COM17
			-7.923	0.000	-0.429	-0.142	-0.411	-9.666
			26:COM13	-	26:COM13	30:COM17	26:COM13	18:COM5
2829	1519	+ve	16.528	0.000	0.464	0.637	0.424	15.485
			24:COM17	-	20:COM7	16:COM3	28:COM15	20:COM7
			-19.961	-16.047	-0.170	-0.455	-0.662	-6.473
			18:COM5	34:CVOL3	30:COM17	26:COM13	22:COM9	30:COM17
	1164	-ve	16.528	0.000	0.464	0.637	0.287	47.992
			24:COM17	-	20:COM7	16:COM3	34:CVOL3	20:COM7
			-19.961	-17.944	-0.170	-0.455	0.000	0.000
			18:COM5	34:CVOL3	30:COM17	26:COM13	-	-
2830	1520	+ve	19.446	0.000	1.414	0.296	1.384	0.000
			16:COM3	-	20:COM7	24:COM17	28:COM15	-
			-19.331	-11.297	-1.365	-1.219	-1.467	-13.975
			26:COM13	22:COM9	30:COM17	18:COM5	22:COM9	34:CVOL3
	1519	-ve	19.446	0.000	1.414	0.296	1.338	15.715
			16:COM3	-	20:COM7	24:COM17	28:COM15	20:COM7
			-19.331	-12.212	-1.365	-1.219	-1.325	-6.343
			26:COM13	22:COM9	30:COM17	18:COM5	22:COM9	30:COM17
2831	1521	+ve	19.878	1.424	1.256	1.313	1.042	0.000
			24:COM17	28:COM15	20:COM7	20:COM7	28:COM15	-
			-22.930	-7.715	-1.172	-0.629	-1.188	-24.938
			18:COM5	22:COM9	30:COM17	30:COM17	22:COM9	34:CVOL3
	1520	-ve	19.878	0.738	1.256	1.313	1.303	0.000
			24:COM17	28:COM15	20:COM7	20:COM7	20:COM7	-
			-22.930	-8.630	-1.172	-0.629	-1.283	-13.712
			18:COM5	22:COM9	30:COM17	30:COM17	30:COM17	34:CVOL3

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
2832	1418	+ve	0.000	5.202	0.062	0.000	0.006	4.932
			-	34:CVOL3	16:COM3	-	24:COM11	16:COM3
			-6.607	0.000	-0.002	-0.073	-0.070	0.000
			22:COM9	-	26:COM13	18:COM5	18:COM5	-
	1385	-ve	0.000	0.000	0.062	0.000	0.082	0.000
			-	-	16:COM3	-	16:COM3	-
			-6.607	-1.250	-0.002	-0.073	0.000	-0.890
			22:COM9	22:COM9	26:COM13	18:COM5	-	22:COM9
2833	1417	+ve	0.000	6.118	0.088	0.000	0.043	6.158
			-	34:CVOL3	16:COM3	-	24:COM11	34:CVOL3
			-8.511	0.000	-0.037	-0.052	-0.103	0.000
			22:COM9	-	26:COM13	22:COM9	18:COM5	-
	1386	-ve	0.000	0.370	0.088	0.000	0.114	0.000
			-	28:COM15	16:COM3	-	16:COM3	-
			-8.511	-0.247	-0.037	-0.052	-0.049	-1.403
			22:COM9	22:COM9	26:COM13	22:COM9	26:COM13	22:COM9
2834	1416	+ve	0.000	6.325	0.067	0.013	0.077	6.545
			-	35:CVOL4	16:COM3	24:COM11	24:COM11	35:CVOL4
			-8.256	0.000	-0.067	-0.014	-0.078	0.000
			22:COM9	-	26:COM13	18:COM5	18:COM5	-
	1387	-ve	0.000	0.395	0.067	0.013	0.085	0.000
			-	33:CVOL2	16:COM3	24:COM11	16:COM3	-
			-8.256	0.000	-0.067	-0.014	-0.087	-1.416
			22:COM9	-	26:COM13	18:COM5	26:COM13	22:COM9
2835	1415	+ve	0.000	5.995	0.036	0.052	0.102	6.050
			-	35:CVOL4	24:COM11	16:COM3	16:COM3	16:COM3
			-7.080	0.000	-0.089	0.000	-0.043	0.000
			18:COM5	-	18:COM5	-	26:COM13	-
	1388	-ve	0.000	0.312	0.036	0.052	0.047	0.000
			-	24:COM11	24:COM11	16:COM3	24:COM11	-
			-7.080	-0.356	-0.089	0.000	-0.116	-1.234
			18:COM5	18:COM5	18:COM5	-	18:COM5	18:COM5
2836	1414	+ve	0.000	5.078	0.000	0.074	0.068	4.825
			-	35:CVOL4	-	16:COM3	16:COM3	16:COM3
			-4.517	0.000	-0.061	0.000	0.000	0.000
			22:COM9	-	18:COM5	-	-	-
	1389	-ve	0.000	0.000	0.000	0.074	0.000	0.000
			-	-	-	16:COM3	-	-
			-4.517	-1.348	-0.061	0.000	-0.083	-0.655
			22:COM9	18:COM5	18:COM5	-	18:COM5	18:COM5
2837	1423	+ve	0.000	5.057	0.052	0.000	0.000	4.767
			-	34:CVOL3	20:COM7	-	-	16:COM3
			-4.661	0.000	0.000	-0.073	-0.058	0.000
			22:COM9	-	-	18:COM5	22:COM9	-
	1390	-ve	0.000	0.000	0.052	0.000	0.070	0.000
			-	-	20:COM7	-	20:COM7	-
			-4.661	-1.357	0.000	-0.073	0.000	-0.632
			22:COM9	18:COM5	-	18:COM5	-	18:COM5

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
2838	1422	+ve	0.000	5.959	0.072	0.000	0.037	5.977
			-	34:CVOL3	16:COM3	-	24:COM11	16:COM3
			-6.837	0.000	-0.030	-0.050	-0.081	0.000
			34:CVOL3	-	26:COM13	18:COM5	18:COM5	-
	1391	-ve	0.000	0.281	0.072	0.000	0.095	0.000
			-	24:COM11	16:COM3	-	16:COM3	-
			-6.837	-0.375	-0.030	-0.050	-0.037	-1.202
			34:CVOL3	18:COM5	26:COM13	18:COM5	26:COM13	18:COM5
2839	1421	+ve	0.000	6.287	0.052	0.018	0.077	6.463
			-	34:CVOL3	24:COM11	16:COM3	16:COM3	35:CVOL4
			-8.078	0.000	-0.064	-0.012	-0.059	0.000
			34:CVOL3	-	18:COM5	26:COM13	26:COM13	-
	1392	-ve	0.000	0.364	0.052	0.018	0.068	0.000
			-	32:CVOL1	24:COM11	16:COM3	24:COM11	-
			-8.078	0.000	-0.064	-0.012	-0.079	-1.393
			34:CVOL3	-	18:COM5	26:COM13	18:COM5	34:CVOL3
2840	1420	+ve	0.000	6.091	0.023	0.054	0.103	6.087
			-	34:CVOL3	24:COM11	16:COM3	16:COM3	16:COM3
			-8.065	0.000	-0.086	0.000	-0.026	0.000
			34:CVOL3	-	18:COM5	-	26:COM13	-
	1393	-ve	0.000	0.315	0.023	0.054	0.030	0.000
			-	24:COM11	24:COM11	16:COM3	24:COM11	-
			-8.065	-0.225	-0.086	0.000	-0.108	-1.302
			34:CVOL3	18:COM5	18:COM5	-	18:COM5	18:COM5
2841	1419	+ve	0.000	5.124	0.000	0.071	0.038	4.826
			-	34:CVOL3	-	16:COM3	20:COM7	16:COM3
			-5.316	0.000	-0.037	0.000	0.000	0.000
			22:COM9	-	22:COM9	-	-	-
	1394	-ve	0.000	0.000	0.000	0.071	0.000	0.000
			-	-	-	16:COM3	-	-
			-5.316	-1.281	-0.037	0.000	-0.054	-0.701
			22:COM9	18:COM5	22:COM9	-	22:COM9	18:COM5
2842	1428	+ve	0.000	5.147	0.044	0.000	0.000	4.875
			-	34:CVOL3	20:COM7	-	-	16:COM3
			-5.219	0.000	0.000	-0.072	-0.048	0.000
			22:COM9	-	-	18:COM5	22:COM9	-
	1395	-ve	0.000	0.000	0.044	0.000	0.060	0.000
			-	-	20:COM7	-	20:COM7	-
			-5.219	-1.270	0.000	-0.072	0.000	-0.705
			22:COM9	18:COM5	-	18:COM5	-	22:COM9
2843	1427	+ve	0.000	6.077	0.077	0.000	0.027	6.108
			-	34:CVOL3	16:COM3	-	24:COM11	16:COM3
			-7.726	0.000	-0.023	-0.051	-0.090	0.000
			22:COM9	-	26:COM13	18:COM5	18:COM5	-
	1396	-ve	0.000	0.325	0.077	0.000	0.098	0.000
			-	24:COM11	16:COM3	-	16:COM3	-
			-7.726	-0.260	-0.023	-0.051	-0.030	-1.288
			22:COM9	18:COM5	26:COM13	18:COM5	26:COM13	18:COM5

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
2844	1426	+ve	0.000	6.299	0.053	0.013	0.060	6.495
			-	34:CVOL3	16:COM3	24:COM11	24:COM11	34:CVOL3
			-8.085	0.000	-0.052	-0.014	-0.063	0.000
			34:CVOL3	-	26:COM13	18:COM5	18:COM5	-
	1397	-ve	0.000	0.372	0.053	0.013	0.066	0.000
			-	32:CVOL1	16:COM3	24:COM11	16:COM3	-
			-8.085	0.000	-0.052	-0.014	-0.067	-1.390
			34:CVOL3	-	26:COM13	18:COM5	26:COM13	34:CVOL3
2845	1425	+ve	0.000	5.978	0.022	0.051	0.085	5.992
			-	35:CVOL4	24:COM11	16:COM3	16:COM3	16:COM3
			-6.966	0.000	-0.075	0.000	-0.027	0.000
			18:COM5	-	18:COM5	-	26:COM13	-
	1398	-ve	0.000	0.282	0.022	0.051	0.027	0.000
			-	24:COM11	24:COM11	16:COM3	24:COM11	-
			-6.966	-0.348	-0.075	0.000	-0.097	-1.211
			18:COM5	18:COM5	18:COM5	-	18:COM5	18:COM5
2846	1424	+ve	0.000	5.068	0.000	0.072	0.060	4.772
			-	35:CVOL4	-	16:COM3	20:COM7	16:COM3
			-4.878	0.000	-0.054	0.000	0.000	0.000
			22:COM9	-	22:COM9	-	-	-
	1399	-ve	0.000	0.000	0.000	0.072	0.000	0.000
			-	-	-	16:COM3	-	-
			-4.878	-1.339	-0.054	0.000	-0.071	-0.653
			22:COM9	18:COM5	22:COM9	-	22:COM9	18:COM5
2847	1433	+ve	0.000	5.109	0.062	0.000	0.000	4.849
			-	34:CVOL3	16:COM3	-	-	16:COM3
			-4.776	0.000	0.000	-0.068	-0.069	0.000
			22:COM9	-	-	18:COM5	18:COM5	-
	1400	-ve	0.000	0.000	0.062	0.000	0.084	0.000
			-	-	16:COM3	-	16:COM3	-
			-4.776	-1.309	0.000	-0.068	0.000	-0.665
			22:COM9	18:COM5	-	18:COM5	-	18:COM5
2848	1432	+ve	0.000	6.003	0.092	0.000	0.028	6.047
			-	34:CVOL3	16:COM3	-	24:COM11	16:COM3
			-7.019	0.000	-0.024	-0.049	-0.105	0.000
			34:CVOL3	-	26:COM13	18:COM5	18:COM5	-
	1401	-ve	0.000	0.304	0.092	0.000	0.119	0.000
			-	24:COM11	16:COM3	-	16:COM3	-
			-7.019	-0.336	-0.024	-0.049	-0.030	-1.226
			34:CVOL3	18:COM5	26:COM13	18:COM5	26:COM13	18:COM5
2849	1431	+ve	0.000	6.294	0.068	0.019	0.060	6.485
			-	34:CVOL3	16:COM3	16:COM3	24:COM11	34:CVOL3
			-8.085	0.000	-0.051	-0.011	-0.078	0.000
			22:COM9	-	26:COM13	26:COM13	18:COM5	-
	1402	-ve	0.000	0.370	0.068	0.019	0.088	0.000
			-	32:CVOL1	16:COM3	16:COM3	16:COM3	-
			-8.085	0.000	-0.051	-0.011	-0.065	-1.388
			22:COM9	-	26:COM13	26:COM13	26:COM13	34:CVOL3

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
2850	1430	+ve	0.000	6.027	0.037	0.054	0.083	6.009
			-	34:CVOL3	24:COM11	16:COM3	16:COM3	16:COM3
			-8.085	0.000	-0.071	0.000	-0.044	0.000
			22:COM9	-	18:COM5	-	26:COM13	-
	1403	-ve	0.000	0.292	0.037	0.054	0.047	0.000
			-	24:COM11	24:COM11	16:COM3	24:COM11	-
			-8.085	-0.293	-0.071	0.000	-0.091	-1.305
			22:COM9	18:COM5	18:COM5	-	18:COM5	22:COM9
2851	1429	+ve	0.000	5.093	0.000	0.076	0.061	4.781
			-	34:CVOL3	-	16:COM3	16:COM3	16:COM3
			-5.631	0.000	-0.053	0.000	0.000	0.000
			22:COM9	-	18:COM5	-	-	-
	1404	-ve	0.000	0.000	0.000	0.076	0.000	0.000
			-	-	-	16:COM3	-	-
			-5.631	-1.321	-0.053	0.000	-0.069	-0.718
			22:COM9	18:COM5	18:COM5	-	18:COM5	22:COM9
2853	1478	+ve	0.000	0.722	0.000	0.000	0.164	0.085
			-	24:COM11	-	-	16:COM3	24:COM11
			-7.326	-3.038	-0.264	-0.070	0.000	-1.362
			22:COM9	18:COM5	18:COM5	34:CVOL3	-	18:COM5
	1450	-ve	0.000	0.000	0.000	0.000	0.000	4.437
			-	-	-	-	-	16:COM3
			-7.326	-6.233	-0.264	-0.070	-0.166	0.000
			22:COM9	18:COM5	18:COM5	34:CVOL3	18:COM5	-
2855	1477	+ve	0.000	0.177	0.016	0.004	0.230	0.000
			-	24:COM11	24:COM11	24:COM11	16:COM3	-
			-4.937	-1.135	-0.379	-0.060	-0.009	-0.633
			18:COM5	18:COM5	18:COM5	18:COM5	26:COM13	22:COM9
	1449	-ve	0.000	0.000	0.016	0.004	0.011	2.792
			-	-	24:COM11	24:COM11	24:COM11	16:COM3
			-4.937	-4.329	-0.379	-0.060	-0.244	0.000
			18:COM5	18:COM5	18:COM5	18:COM5	18:COM5	-
2857	1476	+ve	0.000	0.381	0.109	0.006	0.137	0.000
			-	35:CVOL4	24:COM11	24:COM11	16:COM3	-
			-2.971	-0.289	-0.227	-0.022	-0.068	-0.349
			18:COM5	26:COM13	18:COM5	18:COM5	26:COM13	32:CVOL1
	1448	-ve	0.000	0.000	0.109	0.006	0.068	1.666
			-	-	24:COM11	24:COM11	24:COM11	16:COM3
			-2.971	-3.417	-0.227	-0.022	-0.147	0.000
			18:COM5	34:CVOL3	18:COM5	18:COM5	18:COM5	-
2859	1475	+ve	0.000	0.417	0.217	0.026	0.062	0.000
			-	35:CVOL4	16:COM3	20:COM7	24:COM11	-
			-2.891	-0.271	-0.105	-0.008	-0.137	-0.340
			18:COM5	26:COM13	26:COM13	30:COM17	18:COM5	32:CVOL1
	1447	-ve	0.000	0.000	0.217	0.026	0.133	1.658
			-	-	16:COM3	20:COM7	16:COM3	16:COM3
			-2.891	-3.384	-0.105	-0.008	-0.070	0.000
			18:COM5	34:CVOL3	26:COM13	30:COM17	26:COM13	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
2861	1474	+ve	0.000	0.456	0.333	0.063	0.001	0.000
			-	16:COM3	16:COM3	20:COM7	24:COM11	-
			-4.068	-0.983	-0.009	-0.007	-0.210	-0.489
			18:COM5	26:COM13	26:COM13	30:COM17	18:COM5	18:COM5
	1446	-ve	0.000	0.000	0.333	0.063	0.206	2.638
			-	-	16:COM3	20:COM7	16:COM3	16:COM3
			-4.068	-4.098	-0.009	-0.007	-0.010	0.000
			18:COM5	18:COM5	26:COM13	30:COM17	26:COM13	-
2863	1473	+ve	0.008	1.130	0.321	0.076	0.000	0.233
			24:COM17	24:COM11	35:CVOL4	35:CVOL4	-	24:COM17
			-5.391	-2.463	0.000	0.000	-0.201	-1.064
			18:COM5	18:COM5	-	-	35:CVOL4	18:COM5
	1445	-ve	0.008	0.000	0.321	0.076	0.201	4.016
			24:COM17	-	35:CVOL4	35:CVOL4	35:CVOL4	16:COM3
			-5.391	-5.658	0.000	0.000	0.000	-0.153
			18:COM5	18:COM5	-	-	-	26:COM13
2865	1484	+ve	0.000	0.995	0.000	0.000	0.215	0.169
			-	24:COM11	-	-	35:CVOL4	24:COM17
			-5.545	-2.520	-0.350	-0.082	0.000	-1.086
			18:COM5	18:COM5	35:CVOL4	35:CVOL4	-	18:COM5
	1456	-ve	0.000	0.000	0.000	0.000	0.000	4.064
			-	-	-	-	-	16:COM3
			-5.545	-5.714	-0.350	-0.082	-0.222	-0.048
			18:COM5	18:COM5	35:CVOL4	35:CVOL4	35:CVOL4	26:COM13
2867	1482	+ve	0.000	0.425	0.118	0.004	0.159	0.000
			-	35:CVOL4	24:COM11	24:COM17	16:COM3	-
			-2.890	-0.260	-0.252	-0.021	-0.074	-0.331
			18:COM5	26:COM13	18:COM5	18:COM5	26:COM13	32:CVOL1
	1454	-ve	0.000	0.000	0.118	0.004	0.073	1.634
			-	-	24:COM11	24:COM17	24:COM11	16:COM3
			-2.890	-3.382	-0.252	-0.021	-0.156	0.000
			18:COM5	34:CVOL3	18:COM5	18:COM5	18:COM5	-
2869	1481	+ve	0.000	0.425	0.231	0.028	0.088	0.000
			-	35:CVOL4	16:COM3	16:COM3	24:COM11	-
			-2.888	-0.264	-0.140	-0.005	-0.147	-0.334
			18:COM5	26:COM13	26:COM13	26:COM13	18:COM5	32:CVOL1
	1453	-ve	0.000	0.000	0.231	0.028	0.142	1.676
			-	-	16:COM3	16:COM3	16:COM3	16:COM3
			-2.888	-3.383	-0.140	-0.005	-0.087	0.000
			18:COM5	34:CVOL3	26:COM13	26:COM13	26:COM13	-
2871	1480	+ve	0.000	0.300	0.347	0.072	0.029	0.000
			-	16:COM3	16:COM3	16:COM3	24:COM11	-
			-3.600	-0.829	-0.047	-0.006	-0.220	-0.391
			18:COM5	26:COM13	26:COM13	26:COM13	18:COM5	18:COM5
	1452	-ve	0.000	0.000	0.347	0.072	0.214	2.541
			-	-	16:COM3	16:COM3	16:COM3	16:COM3
			-3.600	-3.939	-0.047	-0.006	-0.030	0.000
			18:COM5	18:COM5	26:COM13	26:COM13	26:COM13	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
2873	1479	+ve	0.000	0.757	0.369	0.086	0.000	0.054
			-	24:COM11	16:COM3	35:CVOL4	-	24:COM11
			-4.742	-2.109	0.000	0.000	-0.224	-0.888
			18:COM5	18:COM5	-	-	18:COM5	18:COM5
	1451	-ve	0.000	0.000	0.369	0.086	0.237	3.758
			-	-	16:COM3	35:CVOL4	16:COM3	16:COM3
			-4.742	-5.304	0.000	0.000	0.000	0.000
			18:COM5	18:COM5	-	-	-	-
2875	1483	+ve	0.000	0.396	0.014	0.000	0.230	0.000
			-	16:COM3	24:COM11	-	16:COM3	-
			-4.081	-0.971	-0.366	-0.058	-0.008	-0.491
			18:COM5	26:COM13	18:COM5	35:CVOL4	26:COM13	18:COM5
	1455	-ve	0.000	0.000	0.014	0.000	0.010	2.632
			-	-	24:COM11	-	24:COM11	16:COM3
			-4.081	-4.095	-0.366	-0.058	-0.228	0.000
			18:COM5	18:COM5	18:COM5	35:CVOL4	18:COM5	-
2897	1487	+ve	3.133	1.927	0.320	0.059	0.361	0.622
			24:COM11	24:COM11	24:COM11	24:COM11	16:COM3	24:COM11
			-7.778	-2.905	-0.639	-0.094	-0.159	-1.317
			18:COM5	18:COM5	18:COM5	18:COM5	26:COM13	18:COM5
	1462	-ve	3.133	0.281	0.320	0.059	0.241	4.314
			24:COM11	24:COM11	24:COM11	24:COM11	24:COM11	16:COM3
			-7.778	-6.100	-0.639	-0.094	-0.437	-0.759
			18:COM5	18:COM5	18:COM5	18:COM5	18:COM5	26:COM13
2899	1486	+ve	0.000	0.419	0.169	0.066	0.231	0.000
			-	16:COM3	24:COM11	24:COM11	16:COM3	-
			-3.375	-0.877	-0.387	-0.080	-0.083	-0.445
			18:COM5	26:COM13	18:COM5	18:COM5	26:COM13	18:COM5
	1461	-ve	0.000	0.000	0.169	0.066	0.128	2.678
			-	-	24:COM11	24:COM11	24:COM11	16:COM3
			-3.375	-3.966	-0.387	-0.080	-0.253	0.000
			18:COM5	18:COM5	18:COM5	18:COM5	18:COM5	-
2901	1485	+ve	0.000	0.351	0.191	0.032	0.142	0.000
			-	35:CVOL4	24:COM11	24:COM11	16:COM3	-
			-3.027	-0.262	-0.275	-0.025	-0.087	-0.517
			34:CVOL3	32:CVOL1	18:COM5	18:COM5	26:COM13	18:COM5
	1460	-ve	0.000	0.000	0.191	0.032	0.153	1.724
			-	-	24:COM11	24:COM11	24:COM11	16:COM3
			-3.027	-3.444	-0.275	-0.025	-0.201	0.000
			34:CVOL3	34:CVOL3	18:COM5	18:COM5	18:COM5	-
2905	6176	+ve	0.000	5.263	0.052	0.001	0.030	5.045
			-	34:CVOL3	16:COM3	28:COM15	24:COM11	16:COM3
			-5.944	0.000	-0.024	-0.118	-0.061	0.000
			22:COM9	-	26:COM13	22:COM9	18:COM5	-
	1405	-ve	0.000	0.000	0.052	0.001	0.073	0.000
			-	-	16:COM3	28:COM15	16:COM3	-
			-5.944	-1.461	-0.024	-0.118	-0.031	-0.943
			22:COM9	18:COM5	26:COM13	22:COM9	26:COM13	22:COM9

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
2906	6177	+ve	0.000	6.064	0.061	0.047	0.088	6.020
			-	34:CVOL3	24:COM11	28:COM15	16:COM3	34:CVOL3
			-6.735	0.000	-0.069	-0.095	-0.076	0.000
			18:COM5	-	18:COM5	22:COM9	26:COM13	-
	1406	-ve	0.000	0.000	0.061	0.047	0.088	0.000
			-	-	24:COM11	28:COM15	24:COM11	-
			-6.735	-0.733	-0.069	-0.095	-0.095	-1.300
			18:COM5	18:COM5	18:COM5	22:COM9	18:COM5	18:COM5
2907	6178	+ve	0.000	5.996	0.053	0.117	0.109	5.905
			-	35:CVOL4	24:COM11	20:COM7	16:COM3	35:CVOL4
			-5.484	0.000	-0.083	-0.038	-0.070	0.000
			18:COM5	-	18:COM5	30:COM17	26:COM13	-
	1407	-ve	0.000	0.000	0.053	0.117	0.077	0.000
			-	-	24:COM11	20:COM7	24:COM11	-
			-5.484	-1.003	-0.083	-0.038	-0.121	-1.061
			18:COM5	34:CVOL3	18:COM5	30:COM17	18:COM5	22:COM9
2908	6179	+ve	0.000	5.260	0.027	0.154	0.083	4.634
			-	35:CVOL4	24:COM11	20:COM7	16:COM3	16:COM3
			-3.200	0.000	-0.062	0.000	-0.037	0.000
			18:COM5	-	18:COM5	-	26:COM13	-
	1408	-ve	0.000	0.000	0.027	0.154	0.041	0.000
			-	-	24:COM11	20:COM7	24:COM11	-
			-3.200	-2.010	-0.062	0.000	-0.095	-0.350
			18:COM5	34:CVOL3	18:COM5	-	18:COM5	22:COM9
2914	286	+ve	9.066	9.891	0.002	0.095	0.007	14.724
			20:COM7	20:COM7	24:COM11	24:COM11	24:COM11	20:COM7
			-5.363	0.000	-0.003	-0.149	-0.006	-5.883
			30:COM17	-	18:COM5	18:COM5	18:COM5	30:COM17
	1280	-ve	9.066	0.000	0.002	0.095	0.009	17.300
			20:COM7	-	24:COM11	24:COM11	28:COM15	20:COM7
			-5.363	-11.087	-0.003	-0.149	-0.012	-2.386
			30:COM17	22:COM9	18:COM5	18:COM5	22:COM9	30:COM17
2915	1287	+ve	5.650	8.629	0.000	0.032	0.092	11.736
			28:COM15	20:COM7	28:COM15	28:COM15	20:COM7	20:COM7
			-22.432	-5.590	-0.074	-0.390	0.000	-8.912
			22:COM9	30:COM17	22:COM9	22:COM9	-	30:COM17
	1494	-ve	5.650	3.994	0.000	0.032	0.003	12.066
			28:COM15	28:COM15	28:COM15	28:COM15	28:COM15	20:COM7
			-22.432	-10.977	-0.074	-0.390	-0.101	-4.137
			22:COM9	22:COM9	22:COM9	22:COM9	22:COM9	30:COM17
2916	6213	+ve	19.995	11.877	0.029	0.368	0.082	11.517
			28:COM15	20:COM7	28:COM15	20:COM7	20:COM7	20:COM7
			-33.308	-9.066	-0.058	-0.341	-0.046	-11.563
			22:COM9	30:COM17	22:COM9	30:COM17	30:COM17	30:COM17
	1279	-ve	19.995	6.752	0.029	0.368	0.039	22.398
			28:COM15	28:COM15	28:COM15	20:COM7	28:COM15	20:COM7
			-33.308	-15.216	-0.058	-0.341	-0.087	-14.209
			22:COM9	22:COM9	22:COM9	30:COM17	22:COM9	30:COM17

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
2917	1288	+ve	14.998	10.361	0.175	0.218	0.456	10.316
			28:COM15	28:COM15	28:COM15	28:COM15	20:COM7	20:COM7
			-24.945	-13.405	-0.735	-0.752	-0.122	-10.273
			22:COM9	22:COM9	22:COM9	22:COM9	30:COM17	30:COM17
	1495	-ve	14.998	8.701	0.175	0.218	0.100	8.971
			28:COM15	28:COM15	28:COM15	28:COM15	28:COM15	20:COM7
			-24.945	-16.627	-0.735	-0.752	-0.471	-2.010
			22:COM9	22:COM9	22:COM9	22:COM9	22:COM9	30:COM17
2923	1497	+ve	0.000	2.641	0.006	0.089	0.058	0.213
			-	35:CVOL4	24:COM11	20:COM7	16:COM3	28:COM15
			-3.428	0.000	-0.033	-0.000	-0.008	-0.544
			18:COM5	-	18:COM5	30:COM17	26:COM13	22:COM9
	1303	-ve	0.000	0.000	0.006	0.089	0.009	6.132
			-	-	24:COM11	20:COM7	24:COM11	34:CVOL3
			-3.428	-6.732	-0.033	-0.000	-0.043	0.000
			18:COM5	34:CVOL3	18:COM5	30:COM17	18:COM5	-
2924	1496	+ve	0.000	2.024	0.027	0.065	0.060	0.000
			-	35:CVOL4	24:COM11	16:COM3	16:COM3	-
			-5.720	0.000	-0.036	0.000	-0.042	-1.023
			18:COM5	-	18:COM5	-	26:COM13	22:COM9
	1304	-ve	0.000	0.000	0.027	0.065	0.040	7.566
			-	-	24:COM11	16:COM3	24:COM11	34:CVOL3
			-5.720	-7.438	-0.036	0.000	-0.051	0.000
			18:COM5	34:CVOL3	18:COM5	-	18:COM5	-
2931	1499	+ve	0.162	1.528	0.089	0.035	0.172	0.338
			28:COM15	20:COM7	28:COM15	24:COM11	20:COM7	28:COM15
			-7.402	-2.165	-0.178	-0.097	-0.087	-1.835
			22:COM9	30:COM17	22:COM9	18:COM5	30:COM17	22:COM9
	1444	-ve	0.162	0.000	0.089	0.035	0.077	6.317
			28:COM15	-	28:COM15	24:COM11	28:COM15	20:COM7
			-7.402	-6.777	-0.178	-0.097	-0.156	-0.062
			22:COM9	22:COM9	22:COM9	18:COM5	22:COM9	30:COM17
2933	1498	+ve	0.319	0.146	0.130	0.051	0.152	0.135
			28:COM15	16:COM3	24:COM11	24:COM11	16:COM3	24:COM11
			-6.555	-1.419	-0.193	-0.145	-0.104	-0.898
			22:COM9	26:COM13	18:COM5	18:COM5	26:COM13	18:COM5
	1443	-ve	0.319	0.000	0.130	0.051	0.097	2.470
			28:COM15	-	24:COM11	24:COM11	24:COM11	16:COM3
			-6.555	-2.963	-0.193	-0.145	-0.147	0.000
			22:COM9	18:COM5	18:COM5	18:COM5	18:COM5	-
2934	1500	+ve	0.127	1.496	0.088	0.227	0.066	0.172
			24:COM11	20:COM7	16:COM3	20:COM7	24:COM11	28:COM15
			-7.233	-1.784	-0.061	-0.124	-0.093	-1.955
			18:COM5	30:COM17	26:COM13	30:COM17	18:COM5	22:COM9
	246	-ve	0.127	0.000	0.088	0.227	0.094	7.030
			24:COM11	-	16:COM3	20:COM7	16:COM3	20:COM7
			-7.233	-6.948	-0.061	-0.124	-0.064	0.000
			18:COM5	22:COM9	26:COM13	30:COM17	26:COM13	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
2937	1283	+ve	11.498	6.434	0.040	0.157	0.076	7.201
			24:COM1	20:COM7	16:COM3	28:COM1	24:COM1	20:COM7
			-12.626	0.000	-0.039	-0.167	-0.078	-1.879
			18:COM5	-	26:COM1	22:COM9	18:COM5	30:COM1
	6147	-ve	11.498	0.000	0.040	0.157	0.083	5.167
			24:COM1	-	16:COM3	28:COM1	16:COM3	16:COM3
			-12.626	-6.215	-0.039	-0.167	-0.080	-0.461
			18:COM5	22:COM9	26:COM1	22:COM9	26:COM1	26:COM1
2939	5479	+ve	43.761	77.567	0.642	19.945	4.653	38.202
			28:COM1	28:COM1	24:COM1	16:COM3	16:COM3	28:COM1
			-98.648	-78.786	-3.546	-10.845	-1.076	-40.184
			22:COM9	22:COM9	18:COM5	26:COM1	26:COM1	22:COM9
	5531	-ve	43.761	73.155	0.642	19.945	0.124	108.314
			28:COM1	28:COM1	24:COM1	16:COM3	24:COM1	20:COM7
			-98.648	-86.109	-3.546	-10.845	-1.774	-97.539
			22:COM9	22:COM9	18:COM5	26:COM1	18:COM5	30:COM1
2940	1522	+ve	1.257	10.830	0.000	0.000	0.550	23.024
			24:COM1	20:COM7	-	-	20:COM7	20:COM7
			-6.798	0.000	-0.552	-0.146	0.000	0.000
			18:COM5	-	22:COM9	33:CVOL2	-	-
	1523	-ve	1.257	8.939	0.000	0.000	0.000	3.628
			24:COM1	20:COM7	-	-	-	28:COM1
			-6.798	0.000	-0.552	-0.146	-0.547	-4.172
			18:COM5	-	22:COM9	33:CVOL2	22:COM9	22:COM9
2941	1523	+ve	6.688	7.054	0.108	0.000	0.536	3.688
			16:COM3	20:COM7	28:COM1	-	20:COM7	28:COM1
			-5.196	0.000	-0.516	-0.217	-0.064	-4.138
			26:COM1	-	22:COM9	18:COM5	30:COM1	22:COM9
	1524	-ve	6.688	5.163	0.108	0.000	0.150	0.000
			16:COM3	20:COM7	28:COM1	-	28:COM1	-
			-5.196	0.000	-0.516	-0.217	-0.487	-11.811
			26:COM1	-	22:COM9	18:COM5	22:COM9	35:CVOL4
2942	1524	+ve	12.178	3.463	0.003	0.118	0.172	0.000
			16:COM3	20:COM7	28:COM1	24:COM1	20:COM7	-
			-7.819	0.000	-0.080	-0.150	-0.026	-11.774
			26:COM1	-	22:COM9	18:COM5	30:COM1	35:CVOL4
	1525	-ve	12.178	1.572	0.003	0.118	0.112	0.000
			16:COM3	20:COM7	28:COM1	24:COM1	28:COM1	-
			-7.819	-0.837	-0.080	-0.150	-0.118	-14.687
			26:COM1	30:COM1	22:COM9	18:COM5	22:COM9	35:CVOL4
2943	1525	+ve	11.932	0.330	0.627	0.395	0.363	0.000
			16:COM3	24:COM1	20:COM7	16:COM3	28:COM1	-
			-8.713	-1.488	-0.388	-0.046	-0.538	-14.710
			26:COM1	18:COM5	30:COM1	26:COM1	22:COM9	35:CVOL4
	1526	-ve	11.932	0.000	0.627	0.395	0.706	0.000
			16:COM3	-	20:COM7	16:COM3	20:COM7	-
			-8.713	-3.378	-0.388	-0.046	-0.407	-12.085
			26:COM1	18:COM5	30:COM1	26:COM1	30:COM1	18:COM5

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
2944	1526	+ve	8.716	0.000	0.740	0.505	0.403	0.000
			24:COM1	-	20:COM7	16:COM3	28:COM1	-
			-11.450	-5.042	-0.366	0.000	-0.753	-12.218
			18:COM5	35:CVOL4	30:COM1	-	22:COM9	18:COM5
	1527	-ve	8.716	0.000	0.740	0.505	0.715	4.072
			24:COM1	-	20:COM7	16:COM3	20:COM7	16:COM3
			-11.450	-6.932	-0.366	0.000	-0.324	-2.614
			18:COM5	35:CVOL4	30:COM1	-	30:COM1	26:COM1
2945	1527	+ve	2.979	0.000	0.010	0.434	0.179	3.989
			24:COM1	-	28:COM1	20:COM7	16:COM3	16:COM3
			-18.112	-9.514	-0.302	-0.120	-0.066	-2.712
			18:COM5	35:CVOL4	22:COM9	30:COM1	26:COM1	26:COM1
	1141	-ve	2.979	0.000	0.010	0.434	0.072	22.090
			24:COM1	-	28:COM1	20:COM7	28:COM1	16:COM3
			-18.112	-11.402	-0.302	-0.120	-0.537	0.000
			18:COM5	35:CVOL4	22:COM9	30:COM1	22:COM9	-
2946	1528	+ve	3.641	6.035	0.453	0.433	0.513	7.866
			24:COM1	20:COM7	28:COM1	16:COM3	20:COM7	20:COM7
			-12.544	-1.987	-0.544	-0.169	-0.378	-7.850
			18:COM5	30:COM1	22:COM9	26:COM1	30:COM1	30:COM1
	1529	-ve	3.641	4.243	0.453	0.433	0.475	0.000
			24:COM1	20:COM7	28:COM1	16:COM3	28:COM1	-
			-12.544	-3.331	-0.544	-0.169	-0.511	-4.485
			18:COM5	30:COM1	22:COM9	26:COM1	22:COM9	18:COM5
2947	1529	+ve	2.513	2.786	0.536	0.383	0.450	0.000
			24:COM1	28:COM1	20:COM7	16:COM3	28:COM1	-
			-6.947	-5.203	-0.438	-0.172	-0.494	-4.464
			18:COM5	22:COM9	30:COM1	26:COM1	22:COM9	18:COM5
	1530	-ve	2.513	1.443	0.536	0.383	0.515	7.644
			24:COM1	28:COM1	20:COM7	16:COM3	20:COM7	20:COM7
			-6.947	-6.994	-0.438	-0.172	-0.375	-4.873
			18:COM5	22:COM9	30:COM1	26:COM1	30:COM1	30:COM1
2948	1530	+ve	0.005	0.000	0.124	0.164	0.129	7.555
			28:COM1	-	24:COM1	28:COM1	16:COM3	20:COM7
			-3.430	-9.380	-0.193	-0.440	-0.086	-4.872
			22:COM9	22:COM9	18:COM5	22:COM9	26:COM1	30:COM1
	1140	-ve	0.005	0.000	0.124	0.164	0.228	26.784
			28:COM1	-	24:COM1	28:COM1	28:COM1	20:COM7
			-3.430	-11.167	-0.193	-0.440	-0.315	-3.577
			22:COM9	22:COM9	18:COM5	22:COM9	22:COM9	30:COM1
2949	1531	+ve	4.092	0.837	0.433	0.128	0.090	0.000
			20:COM7	24:COM1	16:COM3	20:COM7	24:COM1	-
			-1.201	-3.241	-0.038	-0.051	-0.404	-12.491
			30:COM1	18:COM5	26:COM1	30:COM1	18:COM5	22:COM9
	1532	-ve	4.092	0.000	0.433	0.128	0.382	5.122
			20:COM7	-	16:COM3	20:COM7	16:COM3	28:COM1
			-1.201	-4.972	-0.038	-0.051	0.000	-10.562
			30:COM1	18:COM5	26:COM1	30:COM1	-	22:COM9

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
2950	1532	+ve	4.073	0.000	0.101	0.117	0.022	5.110
			16:COM3	-	16:COM3	24:COM1	24:COM1	28:COM1
			-1.861	-6.668	-0.055	-0.223	-0.144	-10.590
			26:COM1	18:COM5	26:COM1	18:COM5	18:COM5	22:COM9
	1170	-ve	4.073	0.000	0.101	0.117	0.079	20.087
			16:COM3	-	16:COM3	24:COM1	16:COM3	20:COM7
			-1.861	-8.772	-0.055	-0.223	-0.100	-3.466
			26:COM1	18:COM5	26:COM1	18:COM5	26:COM1	30:COM1
2960	1179	+ve	0.000	9.456	0.144	0.000	0.398	8.487
			-	28:COM1	24:COM1	-	16:COM3	28:COM1
			-16.171	-9.599	-0.198	-2.184	-0.305	-12.409
			18:COM5	22:COM9	18:COM5	34:CVOL	26:COM1	22:COM9
	1547	-ve	0.000	4.480	0.144	0.000	0.336	49.552
			-	28:COM1	24:COM1	-	24:COM1	20:COM7
			-16.171	-18.357	-0.198	-2.184	-0.479	-22.456
			18:COM5	22:COM9	18:COM5	34:CVOL	18:COM5	30:COM1
2961	1178	+ve	1.774	4.898	0.211	0.973	0.003	0.000
			24:COM1	20:COM7	20:COM7	28:COM1	28:COM1	-
			-17.516	-3.393	0.000	-1.152	-0.484	-18.350
			18:COM5	30:COM1	-	22:COM9	22:COM9	22:COM9
	1545	-ve	1.774	0.000	0.211	0.973	0.434	13.689
			24:COM1	-	20:COM7	28:COM1	20:COM7	20:COM7
			-17.516	-11.665	0.000	-1.152	0.000	-10.563
			18:COM5	22:COM9	-	22:COM9	-	30:COM1
2962	1539	+ve	14.002	2.480	0.385	0.543	0.333	0.000
			16:COM3	16:COM3	16:COM3	20:COM7	24:COM1	-
			-7.879	-0.012	-0.368	-0.156	-0.431	-17.638
			26:COM1	26:COM1	26:COM1	30:COM1	18:COM5	34:CVOL
	1540	-ve	14.002	1.569	0.385	0.543	0.346	0.000
			16:COM3	16:COM3	16:COM3	20:COM7	24:COM1	-
			-7.879	-0.694	-0.368	-0.156	-0.409	-20.261
			26:COM1	26:COM1	26:COM1	30:COM1	18:COM5	34:CVOL
2963	1540	+ve	16.062	0.532	0.274	0.260	0.575	0.000
			16:COM3	24:COM1	24:COM1	28:COM1	16:COM3	-
			-12.291	-2.056	-0.630	-0.866	-0.299	-20.285
			26:COM1	18:COM5	18:COM5	22:COM9	26:COM1	34:CVOL
	1541	-ve	16.062	0.000	0.274	0.260	0.242	0.000
			16:COM3	-	24:COM1	28:COM1	24:COM1	-
			-12.291	-3.107	-0.630	-0.866	-0.669	-16.023
			26:COM1	34:CVOL	18:COM5	22:COM9	18:COM5	34:CVOL
2964	1541	+ve	15.954	0.000	0.311	0.643	0.720	0.000
			24:COM1	-	24:COM1	28:COM1	16:COM3	-
			-17.299	-5.060	-0.739	-2.265	-0.311	-16.228
			18:COM5	34:CVOL	18:COM5	22:COM9	26:COM1	34:CVOL
	1542	-ve	15.954	0.000	0.311	0.643	0.302	2.125
			24:COM1	-	24:COM1	28:COM1	24:COM1	24:COM1
			-17.299	-6.953	-0.739	-2.265	-0.737	-8.239
			18:COM5	34:CVOL	18:COM5	22:COM9	18:COM5	18:COM5

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
2965	1542	+ve	17.766	0.000	7.374	4.694	0.000	2.024
			24:COM1	-	16:COM3	28:COM1	-	24:COM1
			-32.743	-9.606	0.000	-7.828	-1.723	-8.497
			18:COM5	34:CVOL3	-	22:COM9	18:COM5	18:COM5
	1179	-ve	17.766	0.000	7.374	4.694	2.626	5.277
			24:COM1	-	16:COM3	28:COM1	16:COM3	16:COM3
			-32.743	-10.166	0.000	-7.828	0.000	-5.178
			18:COM5	34:CVOL3	-	22:COM9	-	26:COM1
2966	1543	+ve	0.000	0.000	1.302	1.258	0.000	21.623
			-	-	34:CVOL3	34:CVOL3	-	34:CVOL3
			-11.074	-11.463	0.000	0.000	-1.080	0.000
			34:CVOL3	34:CVOL3	-	-	34:CVOL3	-
	1544	-ve	0.000	0.000	1.302	1.258	1.046	41.612
			-	-	34:CVOL3	34:CVOL3	34:CVOL3	34:CVOL3
			-11.074	-13.020	0.000	0.000	0.000	0.000
			34:CVOL3	34:CVOL3	-	-	-	-
2967	1544	+ve	0.000	0.000	0.135	0.619	0.088	41.302
			-	-	28:COM1	32:CVOL1	28:COM1	34:CVOL3
			-16.574	-15.408	-0.335	0.000	-0.243	0.000
			18:COM5	34:CVOL3	22:COM9	-	22:COM9	-
	1142	-ve	0.000	0.000	0.135	0.619	0.026	67.658
			-	-	28:COM1	32:CVOL1	28:COM1	34:CVOL3
			-16.574	-16.960	-0.335	0.000	-0.506	0.000
			18:COM5	34:CVOL3	22:COM9	-	22:COM9	-
2968	1543	+ve	0.000	2.088	0.071	0.000	0.000	0.088
			-	35:CVOL4	20:COM7	-	-	28:COM1
			-5.356	0.000	0.000	-0.383	-0.114	-0.761
			22:COM9	-	-	34:CVOL3	34:CVOL3	22:COM9
	1469	-ve	0.000	0.000	0.071	0.000	0.102	7.322
			-	-	20:COM7	-	20:COM7	34:CVOL3
			-5.356	-7.155	0.000	-0.383	0.000	0.000
			22:COM9	34:CVOL3	-	34:CVOL3	-	-
2969	1544	+ve	0.000	2.388	0.047	0.000	0.000	0.420
			-	34:CVOL3	35:CVOL4	-	-	20:COM7
			-4.631	0.000	0.000	-0.318	-0.081	-0.366
			22:COM9	-	-	34:CVOL3	34:CVOL3	30:COM1
	1470	-ve	0.000	0.000	0.047	0.000	0.062	6.952
			-	-	35:CVOL4	-	35:CVOL4	34:CVOL3
			-4.631	-6.876	0.000	-0.318	0.000	0.000
			22:COM9	35:CVOL4	-	34:CVOL3	-	-
2970	1545	+ve	0.000	0.000	0.926	0.368	0.640	15.578
			-	-	20:COM7	28:COM1	28:COM1	20:COM7
			-25.527	-19.758	-1.003	-1.402	-0.873	-11.554
			22:COM9	22:COM9	30:COM1	22:COM9	22:COM9	30:COM1
	1546	-ve	0.000	0.000	0.926	0.368	0.698	48.889
			-	-	20:COM7	28:COM1	28:COM1	20:COM7
			-25.527	-20.708	-1.003	-1.402	-1.058	-9.249
			22:COM9	22:COM9	30:COM1	22:COM9	22:COM9	30:COM1

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
2971	1511	+ve	14.828	3.697	0.108	0.177	0.025	1.543
			20:COM7	20:COM7	20:COM7	20:COM7	28:COM15	28:COM15
			0.000	-1.755	-0.012	-0.024	-0.148	-7.437
			-	30:COM17	30:COM17	30:COM17	22:COM9	22:COM9
	1545	-ve	14.828	0.000	0.108	0.177	0.151	5.187
			20:COM7	-	20:COM7	20:COM7	20:COM7	20:COM7
			0.000	-8.095	-0.012	-0.024	-0.009	-1.611
			-	22:COM9	30:COM17	30:COM17	30:COM17	30:COM17
2972	1512	+ve	1.399	6.022	0.018	0.255	0.000	3.539
			28:COM15	20:COM7	20:COM7	16:COM3	-	20:COM7
			-9.164	-0.457	-0.001	0.000	-0.046	-3.572
			22:COM9	30:COM17	30:COM17	-	22:COM9	30:COM17
	1198	-ve	1.399	0.000	0.018	0.255	0.031	14.261
			28:COM15	-	20:COM7	16:COM3	20:COM7	20:COM7
			-9.164	-9.592	-0.001	0.000	-0.007	-2.229
			22:COM9	22:COM9	30:COM17	-	30:COM17	30:COM17
2973	1546	+ve	2.243	0.000	0.449	0.630	0.747	46.977
			28:COM15	-	28:COM15	28:COM15	20:COM7	20:COM7
			-17.593	-18.498	-2.088	-4.202	-0.309	-8.990
			22:COM9	22:COM9	22:COM9	22:COM9	30:COM17	30:COM17
	1198	-ve	2.243	0.000	0.449	0.630	0.062	61.743
			28:COM15	-	28:COM15	28:COM15	24:COM11	20:COM7
			-17.593	-18.952	-2.088	-4.202	-0.917	-6.161
			22:COM9	22:COM9	22:COM9	22:COM9	18:COM5	30:COM17
2974	1546	+ve	11.832	1.663	0.342	0.956	0.000	0.337
			20:COM7	28:COM15	16:COM3	20:COM7	-	28:COM15
			0.000	-2.214	0.000	-0.170	-0.273	-3.261
			-	22:COM9	-	30:COM17	18:COM5	22:COM9
	1552	-ve	11.832	0.069	0.342	0.956	0.313	2.443
			20:COM7	28:COM15	16:COM3	20:COM7	16:COM3	20:COM7
			0.000	-4.340	0.000	-0.170	0.000	-1.254
			-	22:COM9	-	30:COM17	-	30:COM17
2975	1547	+ve	0.829	2.345	2.567	3.646	1.073	47.090
			24:COM17	28:COM15	16:COM3	20:COM7	16:COM3	20:COM7
			-30.340	-15.431	-1.914	-2.120	-0.896	-21.695
			18:COM5	22:COM9	26:COM13	30:COM17	26:COM13	30:COM17
	1212	-ve	0.829	1.031	2.567	3.646	1.161	60.005
			24:COM17	28:COM15	16:COM3	20:COM7	16:COM3	20:COM7
			-30.340	-17.559	-1.914	-2.120	-0.472	-23.008
			18:COM5	22:COM9	26:COM13	30:COM17	26:COM13	30:COM17
2976	1173	+ve	6.240	2.596	0.143	0.107	0.000	4.051
			24:COM17	20:COM7	16:COM3	20:COM7	-	20:COM7
			-16.347	0.000	0.000	-0.028	-0.136	-0.200
			18:COM5	-	-	30:COM17	18:COM5	30:COM17
	1548	-ve	6.240	0.323	0.143	0.107	0.144	2.477
			24:COM17	28:COM15	16:COM3	20:COM7	16:COM3	16:COM3
			-16.347	-1.126	0.000	-0.028	0.000	-1.206
			18:COM5	22:COM9	-	30:COM17	-	26:COM13

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
2977	1548	+ve	12.011	1.946	0.065	0.095	0.053	2.435
			16:COM3	16:COM3	16:COM3	20:COM7	24:COM11	16:COM3
			-6.866	0.000	-0.053	-0.069	-0.061	-1.202
			26:COM13	-	26:COM13	30:COM17	18:COM5	26:COM13
	1549	-ve	12.011	0.000	0.065	0.095	0.065	1.011
			16:COM3	-	16:COM3	20:COM7	16:COM3	16:COM3
			-6.866	-1.317	-0.053	-0.069	-0.050	-0.806
			26:COM13	18:COM5	26:COM13	30:COM17	26:COM13	26:COM13
2978	1549	+ve	13.681	1.632	0.034	0.085	0.094	0.968
			16:COM3	16:COM3	24:COM11	28:COM15	16:COM3	16:COM3
			-0.677	0.000	-0.098	-0.132	-0.035	-0.797
			26:COM13	-	18:COM5	22:COM9	26:COM13	26:COM13
	1550	-ve	13.681	0.000	0.034	0.085	0.032	0.358
			16:COM3	-	24:COM11	28:COM15	24:COM11	20:COM7
			-0.677	-1.485	-0.098	-0.132	-0.097	-0.446
			26:COM13	18:COM5	18:COM5	22:COM9	18:COM5	30:COM17
2979	1550	+ve	18.334	1.485	0.000	0.125	0.187	0.394
			20:COM7	20:COM7	-	28:COM15	16:COM3	20:COM7
			-3.670	0.000	-0.213	-0.292	-0.004	-0.468
			30:COM17	-	18:COM5	22:COM9	26:COM13	30:COM17
	1551	-ve	18.334	0.000	0.000	0.125	0.000	1.173
			20:COM7	-	-	28:COM15	-	20:COM7
			-3.670	-1.641	-0.213	-0.292	-0.228	-1.025
			30:COM17	22:COM9	18:COM5	22:COM9	18:COM5	30:COM17
2980	1551	+ve	16.809	5.077	0.000	0.424	0.466	1.357
			20:COM7	20:COM7	-	28:COM15	16:COM3	20:COM7
			-9.478	-0.530	-0.505	-0.877	0.000	-1.132
			30:COM17	30:COM17	18:COM5	22:COM9	-	30:COM17
	1547	-ve	16.809	2.931	0.000	0.424	0.000	1.246
			20:COM7	20:COM7	-	28:COM15	-	28:COM15
			-9.478	-2.140	-0.505	-0.877	-0.406	-5.620
			30:COM17	30:COM17	18:COM5	22:COM9	18:COM5	22:COM9
2981	1548	+ve	0.000	0.000	0.134	0.063	0.201	0.000
			-	-	24:COM11	20:COM7	16:COM3	-
			-4.348	-2.908	-0.544	-0.040	-0.059	-0.615
			18:COM5	18:COM5	18:COM5	30:COM17	26:COM13	18:COM5
	1208	-ve	0.000	0.000	0.134	0.063	0.042	2.207
			-	-	24:COM11	20:COM7	24:COM11	16:COM3
			-4.348	-4.614	-0.544	-0.040	-0.207	0.000
			18:COM5	18:COM5	18:COM5	30:COM17	18:COM5	-
2982	1549	+ve	0.000	0.000	0.295	0.083	0.248	0.000
			-	-	28:COM15	20:COM7	16:COM3	-
			-3.763	-2.620	-0.730	-0.051	-0.097	-0.523
			32:CVOL1	33:CVOL2	22:COM9	30:COM17	26:COM13	32:CVOL1
	1209	-ve	0.000	0.000	0.295	0.083	0.125	2.058
			-	-	28:COM15	20:COM7	28:COM15	33:CVOL2
			-3.763	-4.260	-0.730	-0.051	-0.300	0.000
			32:CVOL1	33:CVOL2	22:COM9	30:COM17	22:COM9	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
2983	1550	+ve	0.000	0.000	0.314	0.130	0.236	0.000
			-	-	24:COM11	20:COM7	16:COM3	-
			-3.624	-2.689	-0.657	-0.063	-0.101	-0.474
			22:COM9	32:CVOL1	18:COM5	30:COM17	26:COM13	18:COM5
	1210	-ve	0.000	0.000	0.314	0.130	0.140	2.171
			-	-	24:COM11	20:COM7	28:COM15	32:CVOL1
			-3.624	-4.329	-0.657	-0.063	-0.263	0.000
			22:COM9	32:CVOL1	18:COM5	30:COM17	22:COM9	-
2984	1551	+ve	0.792	0.000	0.181	0.253	0.237	0.000
			28:COM15	-	24:COM11	20:COM7	16:COM3	-
			-8.270	-6.667	-0.524	-0.124	-0.039	-0.670
			22:COM9	22:COM9	18:COM5	30:COM17	26:COM13	22:COM9
	1211	-ve	0.792	0.000	0.181	0.253	0.097	4.984
			28:COM15	-	24:COM11	20:COM7	24:COM11	20:COM7
			-8.270	-8.373	-0.524	-0.124	-0.157	0.000
			22:COM9	22:COM9	18:COM5	30:COM17	18:COM5	-
2985	1552	+ve	15.731	1.938	0.134	0.305	0.000	2.219
			20:COM7	20:COM7	16:COM3	20:COM7	-	20:COM7
			0.000	0.000	0.000	-0.079	-0.141	-1.197
			-	-	-	30:COM17	18:COM5	30:COM17
	1553	-ve	15.731	0.000	0.134	0.305	0.121	0.872
			20:COM7	-	16:COM3	20:COM7	16:COM3	20:COM7
			0.000	-1.205	0.000	-0.079	0.000	-0.945
			-	22:COM9	-	30:COM17	-	30:COM17
2986	1553	+ve	17.302	1.554	0.077	0.137	0.023	0.814
			16:COM3	16:COM3	16:COM3	20:COM7	24:COM11	20:COM7
			-2.634	0.000	-0.024	-0.066	-0.073	-0.913
			26:COM13	-	26:COM13	30:COM17	18:COM5	30:COM17
	1554	-ve	17.302	0.000	0.077	0.137	0.077	0.976
			16:COM3	-	16:COM3	20:COM7	16:COM3	16:COM3
			-2.634	-1.635	-0.024	-0.066	-0.024	-0.909
			26:COM13	18:COM5	26:COM13	30:COM17	26:COM13	26:COM13
2987	1554	+ve	15.846	1.244	0.046	0.067	0.056	1.013
			16:COM3	16:COM3	24:COM11	28:COM15	16:COM3	16:COM3
			-11.117	0.000	-0.055	-0.067	-0.045	-0.915
			26:COM13	-	18:COM5	22:COM9	26:COM13	26:COM13
	1555	-ve	15.846	0.000	0.046	0.067	0.044	2.432
			16:COM3	-	24:COM11	28:COM15	24:COM11	16:COM3
			-11.117	-1.965	-0.055	-0.067	-0.052	-1.159
			26:COM13	18:COM5	18:COM5	22:COM9	18:COM5	26:COM13
2988	1555	+ve	9.636	0.741	0.000	0.026	0.134	2.468
			24:COM17	16:COM3	-	28:COM15	16:COM3	16:COM3
			-21.464	-0.352	-0.135	-0.086	0.000	-1.165
			18:COM5	26:COM13	18:COM5	22:COM9	-	26:COM13
	1171	-ve	9.636	0.000	0.000	0.026	0.000	3.979
			24:COM17	-	-	28:COM15	-	20:COM7
			-21.464	-2.736	-0.135	-0.086	-0.128	0.000
			18:COM5	18:COM5	18:COM5	22:COM9	18:COM5	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
2989	1552	+ve	0.000	0.000	0.405	0.060	0.055	0.000
			-	-	16:COM3	28:COM1	24:COM1	-
			-8.341	-6.210	-0.208	-0.255	-0.163	-0.626
			22:COM9	22:COM9	26:COM1	22:COM9	18:COM5	22:COM9
	1199	-ve	0.000	0.000	0.405	0.060	0.145	4.694
			-	-	16:COM3	28:COM1	16:COM3	20:COM7
			-8.341	-7.916	-0.208	-0.255	-0.105	0.000
			22:COM9	22:COM9	26:COM1	22:COM9	26:COM1	-
2990	1553	+ve	0.000	0.000	0.636	0.037	0.075	0.000
			-	-	16:COM3	28:COM1	24:COM1	-
			-3.833	-2.478	-0.240	-0.122	-0.213	-0.477
			22:COM9	33:CVOL2	26:COM1	22:COM9	18:COM5	33:CVOL2
	1200	-ve	0.000	0.000	0.636	0.037	0.266	1.997
			-	-	16:COM3	28:COM1	16:COM3	33:CVOL2
			-3.833	-4.118	-0.240	-0.122	-0.106	0.000
			22:COM9	33:CVOL2	26:COM1	22:COM9	26:COM1	-
2991	1554	+ve	0.000	0.000	0.736	0.027	0.071	0.000
			-	-	16:COM3	28:COM1	24:COM1	-
			-3.940	-2.568	-0.203	-0.076	-0.252	-0.533
			22:COM9	33:CVOL2	26:COM1	22:COM9	18:COM5	33:CVOL2
	1201	-ve	0.000	0.000	0.736	0.027	0.300	2.008
			-	-	16:COM3	28:COM1	16:COM3	33:CVOL2
			-3.940	-4.208	-0.203	-0.076	-0.082	0.000
			22:COM9	33:CVOL2	26:COM1	22:COM9	26:COM1	-
2992	1555	+ve	0.000	0.000	0.557	0.017	0.040	0.000
			-	-	16:COM3	28:COM1	24:COM1	-
			-3.946	-2.691	-0.076	-0.058	-0.204	-0.549
			18:COM5	18:COM5	26:COM1	22:COM9	18:COM5	18:COM5
	1202	-ve	0.000	0.000	0.557	0.017	0.214	2.110
			-	-	16:COM3	28:COM1	16:COM3	16:COM3
			-3.946	-4.397	-0.076	-0.058	-0.018	0.000
			18:COM5	18:COM5	26:COM1	22:COM9	26:COM1	-
2993	1556	+ve	1.787	8.560	0.000	0.125	0.234	6.897
			24:COM1	24:COM1	-	24:COM1	16:COM3	16:COM3
			-16.151	-8.620	-0.205	-0.227	-0.044	0.000
			18:COM5	18:COM5	18:COM5	18:COM5	26:COM1	-
	5497	-ve	1.787	7.318	0.000	0.125	0.000	25.571
			24:COM1	24:COM1	-	24:COM1	-	16:COM3
			-16.151	-10.276	-0.205	-0.227	-0.211	-13.888
			18:COM5	18:COM5	18:COM5	18:COM5	22:COM9	26:COM1
2995	1556	+ve	0.799	0.840	0.500	0.022	0.311	0.201
			24:COM1	20:COM7	24:COM1	24:COM1	16:COM3	28:COM1
			-3.307	-0.041	-0.539	-0.054	-0.285	-0.220
			18:COM5	30:COM1	18:COM5	18:COM5	26:COM1	22:COM9
	1489	-ve	0.799	0.000	0.500	0.022	0.340	1.607
			24:COM1	-	24:COM1	24:COM1	24:COM1	35:CVOL4
			-3.307	-3.222	-0.539	-0.054	-0.363	0.000
			18:COM5	35:CVOL4	18:COM5	18:COM5	18:COM5	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
2996	5497	+ve	10.555	6.718	11.957	22.012	0.062	0.483
			16:COM3	24:COM11	16:COM3	16:COM3	24:COM11	24:COM1
			-1.492	-15.826	-2.632	-9.021	-2.430	-1.544
			26:COM1	18:COM5	26:COM1	26:COM1	18:COM5	18:COM5
	5465	-ve	10.555	3.668	11.957	22.012	12.487	21.332
			16:COM3	24:COM11	16:COM3	16:COM3	16:COM3	16:COM3
			-1.492	-20.889	-2.632	-9.021	-3.250	-6.010
			26:COM1	18:COM5	26:COM1	26:COM1	26:COM1	26:COM1
2999	1559	+ve	13.839	14.476	0.880	23.755	4.396	0.000
			28:COM1	20:COM7	28:COM1	34:CVOL	20:COM7	-
			-49.721	-7.519	-6.768	0.000	-0.550	-39.929
			22:COM9	30:COM1	22:COM9	-	30:COM1	18:COM5
	1560	-ve	13.839	11.094	0.880	23.755	1.186	0.816
			28:COM1	20:COM7	28:COM1	34:CVOL	28:COM1	28:COM1
			-49.721	-10.056	-6.768	0.000	-8.851	-60.637
			22:COM9	30:COM1	22:COM9	-	22:COM9	22:COM9
3000	1560	+ve	20.692	8.028	0.000	22.582	7.950	0.000
			24:COM1	28:COM1	-	34:CVOL	20:COM7	-
			-64.731	-26.149	-7.313	0.000	0.000	-57.596
			18:COM5	22:COM9	34:CVOL	-	-	22:COM9
	1287	-ve	20.692	5.490	0.000	22.582	0.000	41.474
			24:COM1	28:COM1	-	34:CVOL	-	28:COM1
			-64.731	-29.532	-7.313	0.000	-6.660	-58.655
			18:COM5	22:COM9	34:CVOL	-	34:CVOL	22:COM9
3001	1561	+ve	30.000	26.534	1.383	32.031	0.663	43.909
			34:CVOL	34:CVOL	20:COM7	20:COM7	24:COM11	34:CVOL
			0.000	0.000	-0.594	0.000	-1.085	0.000
			-	-	30:COM1	-	18:COM5	-
	1562	-ve	30.000	23.434	1.383	32.031	1.689	0.000
			34:CVOL	34:CVOL	20:COM7	20:COM7	20:COM7	-
			0.000	0.000	-0.594	0.000	-0.569	-8.433
			-	-	30:COM1	-	30:COM1	35:CVOL
3002	1561	+ve	2.461	9.256	0.000	0.000	0.034	9.372
			28:COM1	35:CVOL	-	-	16:COM3	35:CVOL
			-5.853	0.000	-0.013	-0.571	0.000	0.000
			22:COM9	-	18:COM5	22:COM9	-	-
	1560	-ve	2.461	0.000	0.000	0.000	0.000	10.952
			28:COM1	-	-	-	-	20:COM7
			-5.853	-9.562	-0.013	-0.571	-0.046	0.000
			22:COM9	34:CVOL	18:COM5	22:COM9	18:COM5	-
3003	1562	+ve	5.765	11.047	3.212	32.091	1.229	1.529
			20:COM7	32:CVOL1	28:COM1	34:CVOL	28:COM1	32:CVOL1
			-0.784	0.000	-4.221	0.000	-1.905	-5.575
			30:COM1	-	22:COM9	-	22:COM9	35:CVOL
	1151	-ve	5.765	9.596	3.212	32.091	0.643	0.000
			20:COM7	32:CVOL1	28:COM1	34:CVOL	28:COM1	-
			-0.784	0.000	-4.221	0.000	-2.110	-7.661
			30:COM1	-	22:COM9	-	22:COM9	34:CVOL

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
3004	1562	+ve	0.333	8.418	0.000	0.000	0.033	7.070
			28:COM1	35:CVOL4	-	-	20:COM7	35:CVOL4
			-7.835	0.000	-0.011	-0.618	0.000	0.000
			22:COM9	-	22:COM9	22:COM9	-	-
	1559	-ve	0.333	0.000	0.000	0.000	0.000	14.340
			28:COM1	-	-	-	-	34:CVOL3
			-7.835	-10.695	-0.011	-0.618	-0.038	0.000
			22:COM9	34:CVOL3	22:COM9	22:COM9	22:COM9	-
3005	1563	+ve	36.309	32.699	0.000	3.122	4.339	84.014
			34:CVOL3	34:CVOL3	-	20:COM7	16:COM3	34:CVOL3
			0.000	0.000	-4.123	-0.541	0.000	0.000
			-	-	34:CVOL3	30:COM1	-	-
	1564	-ve	36.309	29.570	0.000	3.122	0.000	22.585
			34:CVOL3	34:CVOL3	-	20:COM7	-	34:CVOL3
			0.000	0.000	-4.123	-0.541	-3.839	0.000
			-	-	34:CVOL3	30:COM1	34:CVOL3	-
3006	1564	+ve	10.914	16.292	0.000	0.559	1.667	26.825
			34:CVOL3	34:CVOL3	-	28:COM1	34:CVOL3	34:CVOL3
			0.000	0.000	-1.667	-2.072	0.000	0.000
			-	-	34:CVOL3	22:COM9	-	-
	1158	-ve	10.914	13.163	0.000	0.559	0.000	0.000
			34:CVOL3	34:CVOL3	-	28:COM1	-	-
			0.000	0.000	-1.667	-2.072	-1.621	-2.242
			-	-	34:CVOL3	22:COM9	34:CVOL3	32:CVOL1
3007	1565	+ve	22.175	39.757	7.580	0.000	0.000	61.384
			20:COM7	20:COM7	20:COM7	-	-	20:COM7
			0.000	0.000	0.000	-13.995	-6.405	0.000
			-	-	-	22:COM9	22:COM9	-
	1163	-ve	22.175	36.777	7.580	0.000	6.686	2.012
			20:COM7	20:COM7	20:COM7	-	20:COM7	28:COM1
			0.000	0.000	0.000	-13.995	0.000	-4.554
			-	-	-	22:COM9	-	22:COM9
3008	1563	+ve	3.945	9.259	0.002	0.079	0.015	8.768
			16:COM3	34:CVOL3	28:COM1	20:COM7	16:COM3	35:CVOL4
			-2.458	0.000	-0.004	0.000	-0.005	0.000
			26:COM1	-	22:COM9	-	26:COM1	-
	1565	-ve	3.945	0.000	0.002	0.079	0.009	9.094
			16:COM3	-	28:COM1	20:COM7	20:COM7	35:CVOL4
			-2.458	-9.356	-0.004	0.000	-0.009	0.000
			26:COM1	35:CVOL4	22:COM9	-	30:COM1	-
3009	1564	+ve	5.924	9.081	0.004	0.122	0.000	7.925
			34:CVOL3	35:CVOL4	34:CVOL3	20:COM7	-	35:CVOL4
			0.000	0.000	0.000	0.000	-0.008	0.000
			-	-	-	-	18:COM5	-
	1163	-ve	5.924	0.000	0.004	0.122	0.018	9.445
			34:CVOL3	-	34:CVOL3	20:COM7	34:CVOL3	35:CVOL4
			0.000	-9.597	0.000	0.000	0.000	0.000
			-	34:CVOL3	-	-	-	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
3010	1566	+ve	0.000	0.000	0.666	1.831	0.000	0.000
			-	-	34:CVOL3	20:COM7	-	-
			-3.555	-3.501	0.000	0.000	-0.600	-2.791
			22:COM9	34:CVOL3	-	-	34:CVOL3	22:COM9
	1567	-ve	0.000	0.000	0.666	1.831	0.702	6.090
			-	-	34:CVOL3	20:COM7	34:CVOL3	34:CVOL3
			-3.555	-5.365	0.000	0.000	0.000	0.000
			22:COM9	34:CVOL3	-	-	-	-
3011	1567	+ve	0.000	0.000	0.946	1.537	0.000	5.696
			-	-	34:CVOL3	20:COM7	-	34:CVOL3
			-9.571	-7.545	0.000	0.000	-0.868	0.000
			34:CVOL3	34:CVOL3	-	-	34:CVOL3	-
	1543	-ve	0.000	0.000	0.946	1.537	0.954	21.996
			-	-	34:CVOL3	20:COM7	34:CVOL3	34:CVOL3
			-9.571	-9.381	0.000	0.000	0.000	0.000
			34:CVOL3	34:CVOL3	-	-	-	-
3012	1566	+ve	0.000	3.310	0.035	0.000	0.000	1.109
			-	35:CVOL4	20:COM7	-	-	35:CVOL4
			-6.140	0.000	0.000	-0.409	-0.050	0.000
			34:CVOL3	-	-	22:COM9	22:COM9	-
	1562	-ve	0.000	0.000	0.035	0.000	0.056	5.496
			-	-	20:COM7	-	20:COM7	34:CVOL3
			-6.140	-6.083	0.000	-0.409	0.000	0.000
			34:CVOL3	34:CVOL3	-	22:COM9	-	-
3013	1567	+ve	0.000	2.268	0.046	0.000	0.000	0.000
			-	35:CVOL4	34:CVOL3	-	-	-
			-4.926	0.000	0.000	-0.419	-0.075	-0.640
			22:COM9	-	-	22:COM9	34:CVOL3	22:COM9
	1561	-ve	0.000	0.000	0.046	0.000	0.064	6.940
			-	-	34:CVOL3	-	16:COM3	34:CVOL3
			-4.926	-7.038	0.000	-0.419	0.000	0.000
			22:COM9	34:CVOL3	-	22:COM9	-	-
3014	1568	+ve	0.000	4.480	0.000	0.228	0.170	11.460
			-	16:COM3	-	34:CVOL3	34:CVOL3	34:CVOL3
			-10.756	0.000	-0.191	0.000	0.000	0.000
			34:CVOL3	-	34:CVOL3	-	-	-
	1569	-ve	0.000	2.832	0.000	0.228	0.000	4.813
			-	16:COM3	-	34:CVOL3	-	34:CVOL3
			-10.756	0.000	-0.191	0.000	-0.213	0.000
			34:CVOL3	-	34:CVOL3	-	34:CVOL3	-
3015	1569	+ve	0.000	2.947	0.000	0.165	0.212	4.732
			-	34:CVOL3	-	16:COM3	34:CVOL3	34:CVOL3
			-2.987	0.000	-0.168	-0.015	0.000	0.000
			34:CVOL3	-	34:CVOL3	26:COM1	-	-
	1157	-ve	0.000	0.987	0.000	0.165	0.000	0.097
			-	34:CVOL3	-	16:COM3	-	16:COM3
			-2.987	0.000	-0.168	-0.015	-0.190	-0.029
			34:CVOL3	-	34:CVOL3	26:COM1	34:CVOL3	26:COM1

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
3016	1568	+ve	0.000	0.232	0.000	0.022	0.161	0.032
			-	24:COM11	-	24:COM1	16:COM3	24:COM1
			-4.590	-2.585	-0.270	-0.047	0.000	-1.067
			18:COM5	18:COM5	18:COM5	18:COM5	-	18:COM5
	1563	-ve	0.000	0.000	0.000	0.022	0.000	4.116
			-	-	-	24:COM1	-	16:COM3
			-4.590	-5.758	-0.270	-0.047	-0.173	0.000
			18:COM5	18:COM5	18:COM5	18:COM5	18:COM5	-
3017	1569	+ve	0.000	0.273	0.000	0.007	0.181	0.012
			-	24:COM11	-	24:COM1	34:CVOL3	24:COM1
			-3.461	-1.211	-0.280	-0.049	0.000	-0.481
			18:COM5	18:COM5	34:CVOL3	18:COM5	-	18:COM5
	1564	-ve	0.000	0.000	0.000	0.007	0.000	2.982
			-	-	-	24:COM1	-	16:COM3
			-3.461	-4.376	-0.280	-0.049	-0.166	0.000
			18:COM5	18:COM5	34:CVOL3	18:COM5	34:CVOL3	-
3019	1565	+ve	10.274	6.709	0.023	0.231	0.000	4.380
			28:COM15	20:COM7	16:COM3	20:COM7	-	16:COM3
			-13.989	0.000	0.000	-0.077	-0.037	0.000
			22:COM9	-	-	30:COM1	22:COM9	-
	6148	-ve	10.274	0.457	0.023	0.231	0.034	6.684
			28:COM15	28:COM15	16:COM3	20:COM7	16:COM3	20:COM7
			-13.989	-5.258	0.000	-0.077	0.000	-5.025
			22:COM9	22:COM9	-	30:COM1	-	30:COM1
3023	6146	+ve	18.789	14.037	0.067	0.642	0.135	22.702
			28:COM15	20:COM7	20:COM7	20:COM7	28:COM15	20:COM7
			-27.174	-9.583	-0.056	-0.488	-0.166	-22.141
			22:COM9	30:COM1	30:COM1	30:COM1	22:COM9	30:COM1
	6175	-ve	18.789	7.048	0.067	0.642	0.125	36.201
			28:COM15	28:COM15	20:COM7	20:COM7	20:COM7	20:COM7
			-27.174	-17.904	-0.056	-0.488	-0.110	-21.647
			22:COM9	22:COM9	30:COM1	30:COM1	30:COM1	30:COM1
3026	1560	+ve	0.000	8.412	0.032	0.129	0.109	12.028
			-	20:COM7	28:COM15	28:COM15	20:COM7	20:COM7
			-28.031	-1.360	-0.054	-0.226	-0.069	-3.832
			22:COM9	30:COM1	22:COM9	22:COM9	30:COM1	30:COM1
	258	-ve	0.000	0.738	0.032	0.129	0.061	15.296
			-	28:COM15	28:COM15	28:COM15	28:COM15	20:COM7
			-28.031	-9.222	-0.054	-0.226	-0.109	-4.227
			22:COM9	22:COM9	22:COM9	22:COM9	22:COM9	30:COM1
3027	1577	+ve	123.751	0.000	0.000	41.418	17.100	135.670
			16:COM3	-	-	20:COM7	20:COM7	34:CVOL3
			0.000	-86.698	-18.544	-1.660	-1.400	0.000
			-	34:CVOL3	22:COM9	30:COM1	30:COM1	-
	258	-ve	123.751	0.000	0.000	41.418	0.000	357.491
			16:COM3	-	-	20:COM7	-	34:CVOL3
			0.000	-94.465	-18.544	-1.660	-28.990	0.000
			-	34:CVOL3	22:COM9	30:COM1	18:COM5	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
3028	1559	+ve	0.000	8.589	0.193	0.200	0.051	11.869
			-	20:COM7	20:COM7	28:COM15	28:COM15	20:COM7
			-27.820	-3.664	-0.038	-0.264	-0.237	-3.102
			34:CVOL3	30:COM17	30:COM17	22:COM9	22:COM9	30:COM17
	1577	-ve	0.000	3.323	0.193	0.200	0.277	13.826
			-	28:COM15	20:COM7	28:COM15	20:COM7	20:COM7
			-27.820	-8.731	-0.038	-0.264	-0.049	-4.414
			34:CVOL3	22:COM9	30:COM17	22:COM9	30:COM17	30:COM17
3029	6151	+ve	14.188	0.000	0.846	12.556	0.855	0.000
			32:CVOL1	-	16:COM3	20:COM7	28:COM15	-
			0.000	-20.007	-0.525	-2.586	-1.620	-7.398
			-	34:CVOL3	26:COM13	30:COM17	22:COM9	22:COM9
	6152	-ve	14.188	0.000	0.846	12.556	1.412	49.835
			32:CVOL1	-	16:COM3	20:COM7	16:COM3	32:CVOL1
			0.000	-25.795	-0.525	-2.586	-1.398	0.000
			-	32:CVOL1	26:COM13	30:COM17	26:COM13	-
3030	1577	+ve	0.000	8.753	0.010	0.061	0.000	11.817
			-	34:CVOL3	20:COM7	28:COM15	-	34:CVOL3
			-12.625	0.000	0.000	-0.099	-0.044	0.000
			22:COM9	-	-	22:COM9	22:COM9	-
	6151	-ve	0.000	0.000	0.010	0.061	0.024	8.888
			-	-	20:COM7	28:COM15	20:COM7	20:COM7
			-12.625	-7.817	0.000	-0.099	-0.005	0.000
			22:COM9	35:CVOL4	-	22:COM9	30:COM17	-
3031	1579	+ve	5.214	1.899	0.037	0.020	0.063	2.340
			16:COM3	16:COM3	24:COM11	28:COM15	16:COM3	16:COM3
			-3.094	0.000	-0.065	-0.100	-0.039	-0.732
			26:COM13	-	18:COM5	22:COM9	26:COM13	26:COM13
	1580	-ve	5.214	0.000	0.037	0.020	0.034	1.006
			16:COM3	-	24:COM11	28:COM15	24:COM11	16:COM3
			-3.094	-1.167	-0.065	-0.100	-0.064	-0.571
			26:COM13	18:COM5	18:COM5	22:COM9	18:COM5	26:COM13
3032	1580	+ve	10.093	1.582	0.000	0.004	0.127	0.975
			20:COM7	16:COM3	-	28:COM15	16:COM3	16:COM3
			0.000	0.000	-0.139	-0.168	0.000	-0.546
			-	-	18:COM5	22:COM9	-	26:COM13
	1581	-ve	10.093	0.000	0.000	0.004	0.000	0.468
			20:COM7	-	-	28:COM15	-	20:COM7
			0.000	-1.525	-0.139	-0.168	-0.145	-0.161
			-	18:COM5	18:COM5	22:COM9	18:COM5	30:COM17
3033	1581	+ve	14.428	1.206	0.000	0.000	0.300	0.503
			20:COM7	16:COM3	-	-	20:COM7	20:COM7
			-0.881	0.000	-0.350	-0.304	0.000	-0.170
			30:COM17	-	22:COM9	22:COM9	-	30:COM17
	1582	-ve	14.428	0.000	0.000	0.000	0.000	1.669
			20:COM7	-	-	-	-	16:COM3
			-0.881	-1.915	-0.350	-0.304	-0.383	-0.254
			30:COM17	18:COM5	22:COM9	22:COM9	22:COM9	26:COM13

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
3034	1582	+ve	10.295	4.241	0.000	0.000	0.684	1.780
			16:COM3	20:COM7	-	-	20:COM7	16:COM3
			-6.925	0.000	-0.672	-0.730	0.000	-0.249
			26:COM1	-	22:COM9	22:COM9	-	26:COM1
	6185	-ve	10.295	1.925	0.000	0.000	0.000	1.638
			16:COM3	20:COM7	-	-	-	28:COM1
			-6.925	-1.553	-0.672	-0.730	-0.564	-4.564
			26:COM1	30:COM1	22:COM9	22:COM9	22:COM9	22:COM9
3035	6185	+ve	5.248	0.000	0.106	0.120	0.032	0.515
			24:COM1	-	16:COM3	28:COM1	24:COM1	28:COM1
			-8.131	-8.516	-0.009	-0.190	-0.081	-12.724
			18:COM5	22:COM9	26:COM1	22:COM9	18:COM5	22:COM9
	6218	-ve	5.248	0.000	0.106	0.120	0.136	7.288
			24:COM1	-	16:COM3	28:COM1	16:COM3	20:COM7
			-8.131	-11.059	-0.009	-0.190	0.000	0.000
			18:COM5	22:COM9	26:COM1	22:COM9	-	-
3036	1579	+ve	0.000	0.000	0.036	0.080	0.197	0.000
			-	-	24:COM1	20:COM7	16:COM3	-
			-4.449	-2.765	-0.539	-0.000	-0.032	-0.614
			18:COM5	18:COM5	18:COM5	30:COM1	26:COM1	18:COM5
	1193	-ve	0.000	0.000	0.036	0.080	0.000	2.100
			-	-	24:COM1	20:COM7	-	16:COM3
			-4.449	-4.471	-0.539	-0.000	-0.207	0.000
			18:COM5	18:COM5	18:COM5	30:COM1	18:COM5	-
3037	1580	+ve	0.000	0.000	0.088	0.096	0.262	0.000
			-	-	24:COM1	20:COM7	16:COM3	-
			-3.504	-2.528	-0.747	-0.003	-0.039	-0.481
			32:CVOL1	33:CVOL2	18:COM5	30:COM1	26:COM1	33:CVOL2
	1194	-ve	0.000	0.000	0.088	0.096	0.027	2.030
			-	-	24:COM1	20:COM7	24:COM1	33:CVOL2
			-3.504	-4.168	-0.747	-0.003	-0.298	0.000
			32:CVOL1	33:CVOL2	18:COM5	30:COM1	18:COM5	-
3038	1581	+ve	0.000	0.000	0.084	0.137	0.299	0.000
			-	-	24:COM1	20:COM7	16:COM3	-
			-2.734	-2.475	-0.793	-0.004	-0.024	-0.329
			33:CVOL2	33:CVOL2	18:COM5	30:COM1	26:COM1	33:CVOL2
	1195	-ve	0.000	0.000	0.084	0.137	0.039	2.142
			-	-	24:COM1	20:COM7	24:COM1	33:CVOL2
			-2.734	-4.115	-0.793	-0.004	-0.296	0.000
			33:CVOL2	33:CVOL2	18:COM5	30:COM1	18:COM5	-
3039	1582	+ve	0.000	0.000	0.023	0.239	0.407	0.000
			-	-	24:COM1	20:COM7	16:COM3	-
			-4.977	-5.776	-0.867	0.000	0.000	-0.395
			22:COM9	22:COM9	18:COM5	-	-	18:COM5
	1196	-ve	0.000	0.000	0.023	0.239	0.048	4.651
			-	-	24:COM1	20:COM7	24:COM1	20:COM7
			-4.977	-7.482	-0.867	0.000	-0.243	0.000
			22:COM9	22:COM9	18:COM5	-	18:COM5	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
3198	1184	+ve	0.000	10.676	0.022	0.253	0.060	15.521
			-	34:CVOL3	24:COM11	20:COM7	16:COM3	34:CVOL3
			-13.979	0.000	-0.032	-0.003	-0.041	0.000
			22:COM9	-	18:COM5	30:COM17	26:COM13	-
	1614	-ve	0.000	0.000	0.022	0.253	0.050	0.000
			-	-	24:COM11	20:COM7	24:COM11	-
			-13.979	-2.434	-0.032	-0.003	-0.074	-2.791
			22:COM9	22:COM9	18:COM5	30:COM17	18:COM5	22:COM9
3199	1185	+ve	0.000	9.678	0.016	0.368	0.053	12.616
			-	34:CVOL3	24:COM11	20:COM7	16:COM3	34:CVOL3
			-9.304	0.000	-0.030	0.000	-0.031	0.000
			22:COM9	-	18:COM5	-	26:COM13	-
	1615	-ve	0.000	0.000	0.016	0.368	0.036	0.000
			-	-	24:COM11	20:COM7	24:COM11	-
			-9.304	-3.278	-0.030	0.000	-0.072	-1.479
			22:COM9	35:CVOL4	18:COM5	-	18:COM5	22:COM9
3200	1186	+ve	0.260	8.175	0.008	0.322	0.015	8.457
			24:COM11	34:CVOL3	20:COM7	20:COM7	28:COM15	34:CVOL3
			-6.370	0.000	-0.010	0.000	-0.016	0.000
			18:COM5	-	30:COM17	-	22:COM9	-
	1616	-ve	0.260	0.000	0.008	0.322	0.019	0.973
			24:COM11	-	20:COM7	20:COM7	28:COM15	16:COM3
			-6.370	-4.541	-0.010	0.000	-0.027	-0.132
			18:COM5	35:CVOL4	30:COM17	-	22:COM9	26:COM13
3203	1617	+ve	15.367	0.194	0.694	0.000	0.691	18.579
			24:COM11	28:COM15	28:COM15	-	20:COM7	16:COM3
			-21.144	-10.694	-0.857	-1.133	-0.548	-1.838
			18:COM5	22:COM9	22:COM9	22:COM9	30:COM17	26:COM13
	1174	-ve	15.367	0.000	0.694	0.000	0.605	35.530
			24:COM11	-	28:COM15	-	28:COM15	20:COM7
			-21.144	-11.460	-0.857	-1.133	-0.733	-0.240
			18:COM5	22:COM9	22:COM9	22:COM9	22:COM9	30:COM17
3204	251	+ve	21.012	12.555	0.139	0.634	0.024	17.565
			28:COM15	20:COM7	16:COM3	16:COM3	24:COM11	20:COM7
			-31.227	-1.588	-0.011	-0.005	-0.173	-6.736
			22:COM9	30:COM17	26:COM13	26:COM13	18:COM5	30:COM17
	1617	-ve	21.012	6.624	0.139	0.634	0.155	0.499
			28:COM15	20:COM7	16:COM3	16:COM3	20:COM7	28:COM15
			-31.227	-4.643	-0.011	-0.005	-0.007	-4.701
			22:COM9	30:COM17	26:COM13	26:COM13	30:COM17	22:COM9
3210	1504	+ve	17.332	1.236	0.311	0.196	0.501	0.000
			20:COM7	28:COM15	24:COM11	28:COM15	16:COM3	-
			-1.651	-4.063	-0.550	-0.688	-0.346	-26.535
			30:COM17	22:COM9	18:COM5	22:COM9	26:COM13	22:COM9
	1614	-ve	17.332	0.540	0.311	0.196	0.281	0.000
			20:COM7	28:COM15	24:COM11	28:COM15	24:COM11	-
			-1.651	-4.992	-0.550	-0.688	-0.606	-20.091
			30:COM17	22:COM9	18:COM5	22:COM9	18:COM5	34:CVOL3

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
3212	1614	+ve	16.517	0.000	0.219	0.000	0.707	0.000
			16:COM3	-	24:COM11	-	16:COM3	-
			-2.475	-6.096	-0.748	-1.374	-0.247	-20.266
			26:COM13	22:COM9	18:COM5	22:COM9	26:COM13	34:CVOL3
	1615	-ve	16.517	0.000	0.219	0.000	0.185	0.000
			16:COM3	-	24:COM11	-	24:COM11	-
			-2.475	-7.007	-0.748	-1.374	-0.771	-9.203
			26:COM13	22:COM9	18:COM5	22:COM9	18:COM5	18:COM5
3214	1615	+ve	13.307	0.000	0.152	0.000	0.593	0.000
			16:COM3	-	24:COM11	-	16:COM3	-
			-3.329	-9.852	-0.543	-1.434	-0.166	-9.425
			26:COM13	34:CVOL3	18:COM5	22:COM9	26:COM13	18:COM5
	1616	-ve	13.307	0.000	0.152	0.000	0.134	16.222
			16:COM3	-	24:COM11	-	24:COM11	16:COM3
			-3.329	-11.747	-0.543	-1.434	-0.481	-0.114
			26:COM13	34:CVOL3	18:COM5	22:COM9	18:COM5	26:COM13
3216	1616	+ve	6.852	0.000	0.254	0.381	0.033	15.948
			16:COM3	-	16:COM3	20:COM7	24:COM11	16:COM3
			-6.527	-16.169	-0.068	-0.262	-0.119	-0.226
			26:COM13	34:CVOL3	26:COM13	30:COM17	18:COM5	26:COM13
	1166	-ve	6.852	0.000	0.254	0.381	0.384	46.063
			16:COM3	-	16:COM3	20:COM7	16:COM3	34:CVOL3
			-6.527	-18.065	-0.068	-0.262	-0.103	0.000
			26:COM13	34:CVOL3	26:COM13	30:COM17	26:COM13	-
3228	1486	+ve	10.694	3.397	0.000	0.267	0.169	1.661
			16:COM3	16:COM3	-	16:COM3	16:COM3	24:COM11
			0.000	0.000	-0.099	-0.202	-0.038	-6.218
			-	-	18:COM5	26:COM13	26:COM13	18:COM5
	1485	-ve	10.694	1.778	0.000	0.267	0.007	0.000
			16:COM3	16:COM3	-	16:COM3	24:COM11	-
			0.000	-0.119	-0.099	-0.202	-0.078	-8.771
			-	26:COM13	18:COM5	26:COM13	18:COM5	18:COM5
3230	1485	+ve	12.816	1.689	0.107	0.050	0.156	0.000
			20:COM7	16:COM3	24:COM11	24:COM11	16:COM3	-
			0.000	0.000	-0.119	-0.095	-0.111	-8.783
			-	-	18:COM5	18:COM5	26:COM13	18:COM5
	1533	-ve	12.816	0.203	0.107	0.050	0.105	0.000
			20:COM7	24:COM11	24:COM11	24:COM11	16:COM3	-
			0.000	-1.343	-0.119	-0.095	-0.083	-8.041
			-	18:COM5	18:COM5	18:COM5	26:COM13	18:COM5
3232	1533	+ve	13.035	0.302	0.181	0.076	0.082	0.000
			16:COM3	24:COM11	16:COM3	24:COM11	24:COM11	-
			0.000	-1.445	-0.069	-0.186	-0.157	-8.048
			-	18:COM5	26:COM13	18:COM5	18:COM5	18:COM5
	1535	-ve	13.035	0.000	0.181	0.076	0.200	0.000
			16:COM3	-	16:COM3	24:COM11	16:COM3	-
			0.000	-3.064	-0.069	-0.186	-0.054	-5.198
			-	18:COM5	26:COM13	18:COM5	26:COM13	22:COM9

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
3234	1535	+ve	10.354	0.000	0.118	0.195	0.022	0.000
			20:COM7	-	16:COM3	24:COM1	24:COM1	-
			-3.997	-2.780	0.000	-0.360	-0.143	-5.130
			30:COM1	22:COM9	-	18:COM5	18:COM5	22:COM9
	1537	-ve	10.354	0.000	0.118	0.195	0.100	4.724
			20:COM7	-	16:COM3	24:COM1	20:COM7	20:COM7
			-3.997	-4.399	0.000	-0.360	0.000	-1.001
			30:COM1	22:COM9	-	18:COM5	-	30:COM1
3236	1537	+ve	12.274	0.000	0.120	0.353	0.192	4.736
			28:COM1	-	28:COM1	24:COM1	20:COM7	20:COM7
			-15.770	-4.085	-0.254	-0.450	-0.082	-0.954
			22:COM9	22:COM9	22:COM9	18:COM5	30:COM1	30:COM1
	1146	-ve	12.274	0.000	0.120	0.353	0.155	14.238
			28:COM1	-	28:COM1	24:COM1	28:COM1	20:COM7
			-15.770	-5.705	-0.254	-0.450	-0.311	0.000
			22:COM9	22:COM9	22:COM9	18:COM5	22:COM9	-
3260	1637	+ve	36.688	82.684	32.622	7.049	0.394	160.050
			34:CVOL3	20:COM7	16:COM3	24:COM1	24:COM1	20:COM7
			0.000	-8.731	-1.381	-43.346	-24.019	-31.204
			-	30:COM1	26:COM1	18:COM5	18:COM5	30:COM1
	1507	-ve	36.688	79.541	32.622	7.049	5.956	88.602
			34:CVOL3	20:COM7	16:COM3	24:COM1	16:COM3	20:COM7
			0.000	-10.771	-1.381	-43.346	-2.037	-22.670
			-	30:COM1	26:COM1	18:COM5	26:COM1	30:COM1
3474	1666	+ve	11.359	42.864	0.592	0.000	3.764	129.685
			20:COM7	16:COM3	28:COM1	-	20:COM7	16:COM3
			-10.427	0.000	-3.770	-6.038	-0.643	-17.396
			30:COM1	-	22:COM9	18:COM5	30:COM1	26:COM1
	1847	-ve	11.359	40.615	0.592	0.000	0.520	48.306
			20:COM7	16:COM3	28:COM1	-	28:COM1	16:COM3
			-10.427	0.000	-3.770	-6.038	-3.595	-31.840
			30:COM1	-	22:COM9	18:COM5	22:COM9	26:COM1
3475	1667	+ve	12.060	44.519	0.000	0.318	2.511	133.946
			28:COM1	16:COM3	-	24:COM1	20:COM7	16:COM3
			-17.751	0.000	-2.313	-6.767	0.000	-14.167
			22:COM9	-	22:COM9	18:COM5	-	26:COM1
	1852	-ve	12.060	42.270	0.000	0.318	0.000	49.359
			28:COM1	16:COM3	-	24:COM1	-	16:COM3
			-17.751	0.000	-2.313	-6.767	-2.042	-30.529
			22:COM9	-	22:COM9	18:COM5	22:COM9	26:COM1
3476	1668	+ve	12.971	44.426	0.000	0.110	2.099	133.405
			28:COM1	16:COM3	-	24:COM1	16:COM3	16:COM3
			-18.183	0.000	-1.838	-6.623	0.000	-14.181
			22:COM9	-	22:COM9	18:COM5	-	26:COM1
	1857	-ve	12.971	42.177	0.000	0.110	0.000	48.999
			28:COM1	16:COM3	-	24:COM1	-	16:COM3
			-18.183	0.000	-1.838	-6.623	-1.623	-30.660
			22:COM9	-	22:COM9	18:COM5	22:COM9	26:COM1

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
3477	1669	+ve	11.967	44.300	0.000	0.227	3.009	134.033
			28:COM1	16:COM3	-	24:COM1	16:COM3	16:COM3
			-19.010	0.000	-2.709	-7.703	0.000	-19.383
			22:COM9	-	18:COM5	18:COM5	-	26:COM1
	1862	-ve	11.967	42.051	0.000	0.227	0.000	49.847
			28:COM1	16:COM3	-	24:COM1	-	16:COM3
			-19.010	0.000	-2.709	-7.703	-2.394	-33.083
			22:COM9	-	18:COM5	18:COM5	22:COM9	26:COM1
3478	1649	+ve	0.000	55.893	0.888	20.082	0.253	146.969
			-	16:COM3	20:COM7	28:COM1	28:COM1	16:COM3
			-8.193	-14.867	-0.264	-21.946	-0.967	-65.636
			18:COM5	26:COM1	30:COM1	22:COM9	22:COM9	26:COM1
	1790	-ve	0.000	53.394	0.888	20.082	0.966	33.728
			-	16:COM3	20:COM7	28:COM1	20:COM7	24:COM1
			-8.193	-16.742	-0.264	-21.946	-0.329	-36.585
			18:COM5	26:COM1	30:COM1	22:COM9	30:COM1	18:COM5
3479	1651	+ve	13.735	60.514	2.986	15.386	1.461	141.666
			28:COM1	20:COM7	20:COM7	28:COM1	28:COM1	16:COM3
			-25.129	0.000	-1.447	-25.951	-3.179	-2.444
			22:COM9	-	30:COM1	22:COM9	22:COM9	26:COM1
	1753	-ve	13.735	58.265	2.986	15.386	2.664	37.738
			28:COM1	20:COM7	20:COM7	28:COM1	20:COM7	24:COM1
			-25.129	0.000	-1.447	-25.951	-1.381	-43.502
			22:COM9	-	30:COM1	22:COM9	30:COM1	18:COM5
3480	1652	+ve	11.477	41.254	2.925	11.058	0.000	124.113
			20:COM7	16:COM3	16:COM3	20:COM7	-	16:COM3
			-7.190	0.000	0.000	0.000	-3.251	-21.383
			30:COM1	-	-	-	18:COM5	26:COM1
	1748	-ve	11.477	39.005	2.925	11.058	2.456	45.953
			20:COM7	16:COM3	16:COM3	20:COM7	16:COM3	16:COM3
			-7.190	0.000	0.000	0.000	0.000	-29.718
			30:COM1	-	-	-	-	26:COM1
3481	1653	+ve	9.420	41.261	3.142	11.149	0.000	122.600
			20:COM7	16:COM3	16:COM3	20:COM7	-	16:COM3
			-7.508	0.000	0.000	0.000	-3.459	-22.155
			30:COM1	-	-	-	18:COM5	26:COM1
	1758	-ve	9.420	39.012	3.142	11.149	2.681	44.380
			20:COM7	16:COM3	16:COM3	20:COM7	20:COM7	16:COM3
			-7.508	0.000	0.000	0.000	0.000	-30.580
			30:COM1	-	-	-	-	26:COM1
3482	1654	+ve	23.939	42.704	2.739	12.132	0.000	130.150
			16:COM3	16:COM3	16:COM3	20:COM7	-	16:COM3
			-12.763	0.000	0.000	-0.755	-2.951	-19.312
			26:COM1	-	-	30:COM1	18:COM5	26:COM1
	1763	-ve	23.939	40.455	2.739	12.132	2.477	49.084
			16:COM3	16:COM3	16:COM3	20:COM7	20:COM7	16:COM3
			-12.763	0.000	0.000	-0.755	0.000	-30.153
			26:COM1	-	-	30:COM1	-	26:COM1

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
3484	1649	+ve	7.840	78.198	0.462	0.050	0.976	144.117
			28:COM15	28:COM15	28:COM15	28:COM15	20:COM7	28:COM15
			-8.858	-88.052	-0.542	-2.379	-1.003	-157.034
			22:COM9	22:COM9	22:COM9	22:COM9	30:COM17	22:COM9
	1650	-ve	7.840	70.855	0.462	0.050	0.694	188.205
			28:COM15	28:COM15	28:COM15	28:COM15	28:COM15	20:COM7
			-8.858	-100.045	-0.542	-2.379	-1.014	-129.476
			22:COM9	22:COM9	22:COM9	22:COM9	22:COM9	30:COM17
3485	1651	+ve	3.640	179.323	5.821	35.542	4.683	163.961
			28:COM15	20:COM7	24:COM11	16:COM3	16:COM3	20:COM7
			-112.730	-148.306	-5.901	-23.432	-4.591	-130.696
			22:COM9	30:COM17	18:COM5	26:COM13	26:COM13	30:COM17
	1689	-ve	3.640	174.491	5.821	35.542	4.731	109.158
			28:COM15	20:COM7	24:COM11	16:COM3	24:COM11	28:COM15
			-112.730	-151.450	-5.901	-23.432	-4.768	-119.139
			22:COM9	30:COM17	18:COM5	26:COM13	18:COM5	22:COM9
3486	1652	+ve	0.000	35.189	3.234	14.033	2.638	19.583
			-	28:COM15	24:COM11	16:COM3	16:COM3	28:COM15
			-75.573	-43.725	-3.394	-14.100	-2.578	-27.003
			22:COM9	22:COM9	18:COM5	26:COM13	26:COM13	22:COM9
	1690	-ve	0.000	32.322	3.234	14.033	2.597	46.531
			-	28:COM15	24:COM11	16:COM3	24:COM11	20:COM7
			-75.573	-48.188	-3.394	-14.100	-2.793	-34.428
			22:COM9	22:COM9	18:COM5	26:COM13	18:COM5	30:COM17
3487	1653	+ve	15.812	40.083	2.986	14.638	2.417	28.236
			28:COM15	20:COM7	16:COM3	16:COM3	16:COM3	20:COM7
			-69.570	-37.576	-2.883	-13.388	-2.387	-20.826
			22:COM9	30:COM17	26:COM13	26:COM13	26:COM13	30:COM17
	1691	-ve	15.812	36.502	2.986	14.638	2.410	43.702
			28:COM15	28:COM15	16:COM3	16:COM3	16:COM3	20:COM7
			-69.570	-41.324	-2.883	-13.388	-2.217	-34.440
			22:COM9	22:COM9	26:COM13	26:COM13	26:COM13	30:COM17
3488	1654	+ve	0.000	29.840	3.505	15.293	2.405	16.088
			-	28:COM15	16:COM3	16:COM3	24:COM11	28:COM15
			-80.281	-43.495	-3.045	-13.361	-2.855	-28.133
			22:COM9	22:COM9	26:COM13	26:COM13	18:COM5	22:COM9
	1692	-ve	0.000	26.973	3.505	15.293	2.755	45.034
			-	28:COM15	16:COM3	16:COM3	16:COM3	20:COM7
			-80.281	-47.958	-3.045	-13.361	-2.468	-29.366
			22:COM9	22:COM9	26:COM13	26:COM13	26:COM13	30:COM17
3489	1655	+ve	2.455	157.068	2.580	26.198	2.887	148.807
			28:COM15	20:COM7	24:COM11	24:COM17	16:COM3	20:COM7
			-119.047	-146.299	-3.485	-29.089	-1.682	-135.521
			22:COM9	30:COM17	18:COM5	18:COM5	26:COM13	30:COM17
	1693	-ve	2.455	152.236	2.580	26.198	2.483	101.160
			28:COM15	20:COM7	24:COM11	24:COM17	24:COM11	20:COM7
			-119.047	-149.443	-3.485	-29.089	-2.725	-98.725
			22:COM9	30:COM17	18:COM5	18:COM5	18:COM5	30:COM17

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
3490	1675	+ve	16.505	48.160	5.949	0.000	0.000	56.632
			24:COM1	20:COM7	34:CVOL3	-	-	20:COM7
			-50.156	0.000	0.000	-32.955	-6.687	0.000
			18:COM5	-	-	34:CVOL3	34:CVOL3	-
	1677	-ve	16.505	41.725	5.949	0.000	4.914	2.157
			24:COM1	20:COM7	34:CVOL3	-	34:CVOL3	28:COM1
			-50.156	0.000	0.000	-32.955	0.000	-31.551
			18:COM5	-	-	34:CVOL3	-	22:COM9
3491	1638	+ve	65.461	93.630	4.617	4.158	0.000	228.041
			20:COM7	20:COM7	20:COM7	28:COM1	-	28:COM1
			-58.723	-86.510	-0.731	-21.005	-4.667	-237.843
			30:COM1	30:COM1	30:COM1	22:COM9	18:COM5	22:COM9
	6214	-ve	65.461	88.468	4.617	4.158	4.882	44.167
			20:COM7	20:COM7	20:COM7	28:COM1	20:COM7	28:COM1
			-58.723	-89.827	-0.731	-21.005	-1.961	-59.881
			30:COM1	30:COM1	30:COM1	22:COM9	30:COM1	22:COM9
3492	1671	+ve	10.214	59.412	1.062	10.478	0.939	54.238
			28:COM1	20:COM7	20:COM7	28:COM1	28:COM1	20:COM7
			-100.425	-15.640	-1.098	-16.189	-0.909	-9.561
			22:COM9	30:COM1	30:COM1	22:COM9	22:COM9	30:COM1
	1678	-ve	10.214	53.427	1.062	10.478	1.167	24.191
			28:COM1	20:COM7	20:COM7	28:COM1	20:COM7	28:COM1
			-100.425	-18.959	-1.098	-16.189	-1.208	-55.796
			22:COM9	30:COM1	30:COM1	22:COM9	30:COM1	22:COM9
3493	1641	+ve	3.728	49.549	0.044	1.157	0.435	129.343
			20:COM7	20:COM7	28:COM1	16:COM3	20:COM7	20:COM7
			-2.064	-16.433	-0.153	-0.678	-0.121	-54.542
			30:COM1	30:COM1	22:COM9	26:COM1	30:COM1	30:COM1
	1640	-ve	3.728	29.599	0.044	1.157	0.137	71.598
			20:COM7	28:COM1	28:COM1	16:COM3	28:COM1	28:COM1
			-2.064	-29.358	-0.153	-0.678	-0.456	-93.580
			30:COM1	22:COM9	22:COM9	26:COM1	22:COM9	22:COM9
3494	1672	+ve	11.843	35.229	1.165	18.537	0.031	25.951
			28:COM1	20:COM7	16:COM3	16:COM3	24:COM1	28:COM1
			-115.574	-26.440	0.000	-6.128	-1.138	-22.366
			22:COM9	30:COM1	-	26:COM1	18:COM5	22:COM9
	1679	-ve	11.843	30.859	1.165	18.537	1.444	32.991
			28:COM1	28:COM1	16:COM3	16:COM3	16:COM3	20:COM7
			-115.574	-31.374	0.000	-6.128	-0.252	-37.472
			22:COM9	22:COM9	-	26:COM1	26:COM1	30:COM1
3495	1673	+ve	2.436	30.445	0.445	9.073	0.338	22.237
			28:COM1	20:COM7	16:COM3	16:COM3	24:COM1	28:COM1
			-119.613	-21.663	-0.239	-8.529	-0.508	-18.407
			22:COM9	30:COM1	26:COM1	26:COM1	18:COM5	22:COM9
	1680	-ve	2.436	26.393	0.445	9.073	0.661	28.242
			28:COM1	28:COM1	16:COM3	16:COM3	16:COM3	20:COM7
			-119.613	-26.914	-0.239	-8.529	-0.430	-32.467
			22:COM9	22:COM9	26:COM1	26:COM1	26:COM1	30:COM1

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
3496	1674	+ve	27.675	38.745	0.716	7.653	0.907	30.920
			28:COM15	20:COM7	24:COM11	24:COM11	16:COM3	20:COM7
			-127.233	-23.099	-1.127	-8.331	-0.465	-19.423
			22:COM9	30:COM17	18:COM5	18:COM5	26:COM13	30:COM17
	1681	-ve	27.675	32.759	0.716	7.653	0.947	28.915
			28:COM15	20:COM7	24:COM11	24:COM11	24:COM11	28:COM15
			-127.233	-26.418	-1.127	-8.331	-1.304	-38.855
			22:COM9	30:COM17	18:COM5	18:COM5	18:COM5	22:COM9
3497	1658	+ve	12.501	133.176	8.619	8.787	5.139	100.946
			28:COM15	20:COM7	20:COM7	28:COM15	28:COM15	20:COM7
			-60.255	-100.002	-6.604	-20.799	-6.879	-68.884
			22:COM9	30:COM17	30:COM17	22:COM9	22:COM9	30:COM17
	1638	-ve	12.501	128.660	8.619	8.787	8.608	113.538
			28:COM15	20:COM7	20:COM7	28:COM15	20:COM7	28:COM15
			-60.255	-102.904	-6.604	-20.799	-6.727	-134.405
			22:COM9	30:COM17	30:COM17	22:COM9	30:COM17	22:COM9
3498	1659	+ve	0.000	0.000	2.800	16.211	2.833	2.535
			-	-	24:COM11	20:COM7	16:COM3	24:COM11
			-65.789	-24.688	-3.616	-14.222	-2.405	-20.955
			22:COM9	18:COM5	18:COM5	30:COM17	26:COM13	18:COM5
	1639	-ve	0.000	0.000	2.800	16.211	2.628	33.770
			-	-	24:COM11	20:COM7	24:COM11	34:CVOL3
			-65.789	-30.502	-3.616	-14.222	-3.666	0.000
			22:COM9	34:CVOL3	18:COM5	30:COM17	18:COM5	-
3499	1660	+ve	0.000	0.000	2.620	6.320	1.623	0.000
			-	-	16:COM3	16:COM3	24:COM11	-
			-95.946	-31.572	-2.615	-6.016	-1.637	-21.288
			22:COM9	34:CVOL3	26:COM13	26:COM13	18:COM5	22:COM9
	1643	-ve	0.000	0.000	2.620	6.320	3.070	41.236
			-	-	16:COM3	16:COM3	16:COM3	34:CVOL3
			-95.946	-37.674	-2.615	-6.016	-3.074	0.000
			22:COM9	34:CVOL3	26:COM13	26:COM13	26:COM13	-
3500	1661	+ve	0.000	51.556	3.840	14.485	3.990	33.809
			-	28:COM15	24:COM11	24:COM11	16:COM3	28:COM15
			-77.426	-63.602	-4.437	-20.757	-3.303	-42.567
			18:COM5	22:COM9	18:COM5	18:COM5	26:COM13	22:COM9
	1644	-ve	0.000	48.273	3.840	14.485	3.601	76.762
			-	28:COM15	24:COM11	24:COM11	24:COM11	20:COM7
			-77.426	-69.057	-4.437	-20.757	-3.986	-56.036
			18:COM5	22:COM9	18:COM5	18:COM5	18:COM5	30:COM17
3501	1676	+ve	22.029	13.900	1.198	13.970	0.793	12.574
			28:COM15	20:COM7	16:COM3	24:COM11	24:COM11	20:COM7
			-46.480	-3.596	-0.792	-21.410	-1.378	-3.184
			22:COM9	30:COM17	26:COM13	18:COM5	18:COM5	30:COM17
	1682	-ve	22.029	8.256	1.198	13.970	0.961	7.918
			28:COM15	28:COM15	16:COM3	24:COM11	16:COM3	20:COM7
			-46.480	-8.043	-0.792	-21.410	-0.756	-8.783
			22:COM9	22:COM9	26:COM13	18:COM5	26:COM13	30:COM17

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
3502	1662	+ve	162.266	335.281	26.350	56.755	16.119	85.885
			28:COM15	20:COM7	16:COM3	16:COM3	24:COM11	20:COM7
			-217.034	-288.586	-25.535	-38.788	-17.578	-70.058
			22:COM9	30:COM17	26:COM13	26:COM13	18:COM5	30:COM17
	1645	-ve	162.266	325.683	26.350	56.755	30.300	454.078
			28:COM15	20:COM7	16:COM3	16:COM3	24:COM11	28:COM15
			-217.034	-294.976	-25.535	-38.788	-30.293	-507.763
			22:COM9	30:COM17	26:COM13	26:COM13	18:COM5	22:COM9
3503	1659	+ve	28.950	59.314	0.499	11.700	4.438	163.004
			16:COM3	20:COM7	28:COM15	16:COM3	20:COM7	20:COM7
			-9.699	-8.215	-4.496	0.000	-0.868	-62.009
			26:COM13	30:COM17	22:COM9	-	30:COM17	30:COM17
	1795	-ve	28.950	56.719	0.499	11.700	0.072	55.729
			16:COM3	20:COM7	28:COM15	16:COM3	28:COM15	16:COM3
			-9.699	-10.161	-4.496	0.000	-4.000	-46.325
			26:COM13	30:COM17	22:COM9	-	22:COM9	26:COM13
3504	1663	+ve	0.000	17.911	3.046	9.614	1.604	23.135
			-	28:COM15	16:COM3	16:COM3	24:COM11	28:COM15
			-69.566	-64.178	-2.413	-4.694	-2.198	-56.618
			22:COM9	22:COM9	26:COM13	26:COM13	18:COM5	22:COM9
	2002	-ve	0.000	15.258	3.046	9.614	3.405	65.293
			-	28:COM15	16:COM3	16:COM3	16:COM3	20:COM7
			-69.566	-68.377	-2.413	-4.694	-2.835	-7.397
			22:COM9	22:COM9	26:COM13	26:COM13	26:COM13	30:COM17
3505	1640	+ve	8.101	57.110	0.402	15.167	0.364	142.013
			20:COM7	20:COM7	16:COM3	16:COM3	24:COM11	16:COM3
			-4.507	-16.402	-0.330	-7.080	-0.612	-82.430
			30:COM17	30:COM17	26:COM13	26:COM13	18:COM5	26:COM13
	1799	-ve	8.101	54.498	0.402	15.167	0.190	44.959
			20:COM7	20:COM7	16:COM3	16:COM3	24:COM11	24:COM11
			-4.507	-18.361	-0.330	-7.080	-0.301	-57.905
			30:COM17	30:COM17	26:COM13	26:COM13	18:COM5	18:COM5
3506	1642	+ve	3.343	34.646	0.385	1.833	0.092	97.055
			28:COM15	20:COM7	16:COM3	28:COM15	24:COM11	20:COM7
			-11.449	-8.038	0.000	-6.151	-0.454	-41.035
			22:COM9	30:COM17	-	22:COM9	18:COM5	30:COM17
	1809	-ve	3.343	29.166	0.385	1.833	0.542	20.507
			28:COM15	20:COM7	16:COM3	28:COM15	20:COM7	20:COM7
			-11.449	-11.500	0.000	-6.151	0.000	-17.611
			22:COM9	30:COM17	-	22:COM9	-	30:COM17
3507	1675	+ve	31.886	49.111	1.923	1.454	1.430	155.214
			34:CVOL3	34:CVOL3	28:COM15	28:COM15	24:COM11	20:COM7
			0.000	0.000	-1.332	-4.645	-2.351	0.000
			-	-	22:COM9	22:COM9	18:COM5	-
	1868	-ve	31.886	46.825	1.923	1.454	1.589	68.195
			34:CVOL3	34:CVOL3	28:COM15	28:COM15	28:COM15	20:COM7
			0.000	0.000	-1.332	-4.645	-1.339	0.000
			-	-	22:COM9	22:COM9	22:COM9	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
3508	1671	+ve	6.128	47.846	4.256	4.909	0.000	132.673
			28:COM15	20:COM7	16:COM3	20:COM7	-	20:COM7
			-8.964	-16.570	0.000	-3.083	-4.085	-86.358
			22:COM9	30:COM17	-	30:COM17	18:COM5	30:COM17
	1871	-ve	6.128	45.680	4.256	4.909	3.957	46.870
			28:COM15	20:COM7	16:COM3	20:COM7	16:COM3	28:COM15
			-8.964	-18.195	0.000	-3.083	0.000	-55.754
			22:COM9	30:COM17	-	30:COM17	-	22:COM9
3509	1641	+ve	3.994	53.086	0.279	13.297	0.112	133.530
			28:COM15	16:COM3	16:COM3	20:COM7	24:COM11	16:COM3
			-9.536	0.000	-0.028	-11.359	-0.291	-28.535
			22:COM9	-	26:COM13	30:COM17	18:COM5	26:COM13
	1803	-ve	3.994	50.993	0.279	13.297	0.259	40.078
			28:COM15	16:COM3	16:COM3	20:COM7	20:COM7	20:COM7
			-9.536	0.000	-0.028	-11.359	0.000	-36.250
			22:COM9	-	26:COM13	30:COM17	-	30:COM17
3510	1642	+ve	3.889	54.231	2.016	0.563	0.761	140.316
			20:COM7	20:COM7	20:COM7	16:COM3	28:COM15	20:COM7
			-6.142	-18.768	-0.783	-1.372	-1.807	-61.141
			30:COM17	30:COM17	30:COM17	26:COM13	22:COM9	30:COM17
	1873	-ve	3.889	52.157	2.016	0.563	1.821	44.627
			20:COM7	20:COM7	20:COM7	16:COM3	20:COM7	20:COM7
			-6.142	-20.324	-0.783	-1.372	-0.648	-25.981
			30:COM17	30:COM17	30:COM17	26:COM13	30:COM17	30:COM17
3511	1672	+ve	14.535	42.305	4.625	8.413	0.000	124.050
			20:COM7	16:COM3	20:COM7	16:COM3	-	16:COM3
			-8.317	0.000	0.000	0.000	-5.096	-0.792
			30:COM17	-	-	-	22:COM9	26:COM13
	1879	-ve	14.535	40.026	4.625	8.413	4.135	42.909
			20:COM7	16:COM3	20:COM7	16:COM3	20:COM7	16:COM3
			-8.317	0.000	0.000	0.000	0.000	-18.606
			30:COM17	-	-	-	-	26:COM13
3512	1663	+ve	19.216	66.189	0.242	15.898	5.925	206.944
			20:COM7	16:COM3	28:COM15	34:CVOL3	20:COM7	16:COM3
			-5.360	0.000	-5.588	0.000	-0.410	0.000
			30:COM17	-	22:COM9	-	30:COM17	-
	1736	-ve	19.216	63.466	0.242	15.898	0.069	79.498
			20:COM7	16:COM3	28:COM15	34:CVOL3	28:COM15	16:COM3
			-5.360	0.000	-5.588	0.000	-5.073	-24.878
			30:COM17	-	22:COM9	-	22:COM9	26:COM13
3513	1660	+ve	34.767	61.358	0.371	5.510	4.453	201.332
			16:COM3	16:COM3	28:COM15	32:CVOL1	16:COM3	16:COM3
			-14.287	0.000	-4.416	-1.209	-0.636	0.000
			26:COM13	-	22:COM9	35:CVOL4	26:COM13	-
	1742	-ve	34.767	58.628	0.371	5.510	0.174	82.997
			16:COM3	16:COM3	28:COM15	32:CVOL1	28:COM15	16:COM3
			-14.287	0.000	-4.416	-1.209	-4.338	-30.429
			26:COM13	-	22:COM9	35:CVOL4	22:COM9	26:COM13

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
3514	1673	+ve	9.582	42.460	4.937	10.354	0.000	132.402
			16:COM3	16:COM3	20:COM7	16:COM3	-	16:COM3
			-6.114	0.000	0.000	0.000	-5.244	-7.253
			26:COM1	-	-	-	22:COM9	26:COM1
	1885	-ve	9.582	40.183	4.937	10.354	4.533	50.851
			16:COM3	16:COM3	20:COM7	16:COM3	20:COM7	16:COM3
			-6.114	0.000	0.000	0.000	0.000	-22.219
			26:COM1	-	-	-	-	26:COM1
3515	1661	+ve	175.794	150.480	4.237	10.439	5.531	379.866
			16:COM3	16:COM3	28:COM1	28:COM1	20:COM7	16:COM3
			-153.641	-130.259	-6.106	-14.853	-4.119	-355.870
			26:COM1	26:COM1	22:COM9	22:COM9	30:COM1	26:COM1
	1785	-ve	175.794	147.063	4.237	10.439	4.252	89.172
			16:COM3	16:COM3	28:COM1	28:COM1	28:COM1	24:COM1
			-153.641	-132.821	-6.106	-14.853	-6.532	-99.206
			26:COM1	26:COM1	22:COM9	22:COM9	22:COM9	18:COM5
3516	1647	+ve	0.000	19.486	12.994	6.253	3.977	23.770
			-	16:COM3	20:COM7	24:COM1	24:COM1	16:COM3
			-35.007	-13.587	-7.768	-6.211	-4.752	-20.534
			18:COM5	26:COM1	30:COM1	18:COM5	18:COM5	26:COM1
	1787	-ve	0.000	18.293	12.994	6.253	5.295	10.939
			-	16:COM3	20:COM7	24:COM1	20:COM7	24:COM1
			-35.007	-14.481	-7.768	-6.211	-2.467	-11.051
			18:COM5	26:COM1	30:COM1	18:COM5	30:COM1	18:COM5
3517	1644	+ve	30.145	69.130	1.022	26.161	2.005	175.932
			20:COM7	20:COM7	24:COM1	16:COM3	16:COM3	20:COM7
			-26.878	-48.392	-1.968	-10.540	-0.901	-165.537
			30:COM1	30:COM1	18:COM5	26:COM1	26:COM1	30:COM1
	1731	-ve	30.145	65.180	1.022	26.161	2.088	0.000
			20:COM7	20:COM7	24:COM1	16:COM3	24:COM1	-
			-26.878	-51.354	-1.968	-10.540	-3.684	-34.006
			30:COM1	30:COM1	18:COM5	26:COM1	18:COM5	22:COM9
3518	1648	+ve	28.304	83.969	6.700	3.340	5.310	84.439
			28:COM1	16:COM3	20:COM7	28:COM1	28:COM1	16:COM3
			-54.466	-72.506	-6.231	-4.282	-5.934	-61.749
			22:COM9	26:COM1	30:COM1	22:COM9	22:COM9	26:COM1
	1662	-ve	28.304	80.583	6.700	3.340	7.202	84.939
			28:COM1	16:COM3	20:COM7	28:COM1	20:COM7	16:COM3
			-54.466	-75.046	-6.231	-4.282	-6.909	-78.887
			22:COM9	26:COM1	30:COM1	22:COM9	30:COM1	26:COM1
3519	1647	+ve	7.260	20.551	1.403	6.679	1.694	16.314
			24:COM1	28:COM1	16:COM3	20:COM7	16:COM3	28:COM1
			-29.406	-22.864	-1.332	-5.969	-1.724	-17.997
			18:COM5	22:COM9	26:COM1	30:COM1	26:COM1	22:COM9
	1646	-ve	7.260	18.994	1.403	6.679	1.448	35.793
			24:COM1	28:COM1	16:COM3	20:COM7	16:COM3	20:COM7
			-29.406	-24.940	-1.332	-5.969	-1.318	-28.183
			18:COM5	22:COM9	26:COM1	30:COM1	26:COM1	30:COM1

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
3522	1646	+ve	34.434	48.143	0.867	2.664	1.008	119.169
			16:COM3	16:COM3	24:COM11	28:COM15	20:COM7	16:COM3
			-30.895	-34.321	-1.038	-4.605	-0.789	-102.909
			26:COM13	26:COM13	18:COM5	22:COM9	30:COM17	26:COM13
	1798	-ve	34.434	45.845	0.867	2.664	1.391	5.693
			16:COM3	16:COM3	24:COM11	28:COM15	24:COM11	24:COM11
			-30.895	-36.044	-1.038	-4.605	-1.598	-18.844
			26:COM13	26:COM13	18:COM5	22:COM9	18:COM5	18:COM5
3523	1658	+ve	15.445	63.289	1.727	9.001	2.799	111.736
			28:COM15	16:COM3	28:COM15	20:COM7	20:COM7	20:COM7
			-42.121	-39.976	-2.798	0.000	-1.690	-49.444
			22:COM9	26:COM13	22:COM9	-	30:COM17	30:COM17
	5721	-ve	15.445	59.766	1.727	9.001	1.899	48.731
			28:COM15	16:COM3	28:COM15	20:COM7	28:COM15	16:COM3
			-42.121	-42.618	-2.798	0.000	-2.972	-27.639
			22:COM9	26:COM13	22:COM9	-	22:COM9	26:COM13
3524	1664	+ve	26.007	46.732	0.398	3.327	0.639	34.775
			24:COM11	28:COM15	24:COM11	16:COM3	16:COM3	28:COM15
			-58.830	-59.156	-0.768	-0.261	-0.045	-40.794
			18:COM5	22:COM9	18:COM5	26:COM13	26:COM13	22:COM9
	1770	-ve	26.007	44.060	0.398	3.327	1.220	84.738
			24:COM11	28:COM15	24:COM11	16:COM3	24:COM11	20:COM7
			-58.830	-62.719	-0.768	-0.261	-1.389	-58.747
			18:COM5	22:COM9	18:COM5	26:COM13	18:COM5	30:COM17
3525	1769	+ve	25.974	89.467	2.444	2.600	0.792	153.205
			16:COM3	20:COM7	20:COM7	20:COM7	28:COM15	28:COM15
			-25.300	-66.088	-1.446	-2.288	-2.468	-154.283
			26:COM13	30:COM17	30:COM17	30:COM17	22:COM9	22:COM9
	1772	-ve	25.974	86.028	2.444	2.600	2.390	0.000
			16:COM3	20:COM7	20:COM7	20:COM7	20:COM7	-
			-25.300	-68.667	-1.446	-2.288	-2.083	-31.696
			26:COM13	30:COM17	30:COM17	30:COM17	30:COM17	22:COM9
3527	1674	+ve	16.226	39.228	4.870	5.664	0.026	109.362
			16:COM3	16:COM3	20:COM7	16:COM3	28:COM15	16:COM3
			-9.452	0.000	-0.009	-3.187	-5.163	-1.178
			26:COM13	-	30:COM17	26:COM13	22:COM9	26:COM13
	1891	-ve	16.226	36.953	4.870	5.664	4.900	34.268
			16:COM3	16:COM3	20:COM7	16:COM3	16:COM3	16:COM3
			-9.452	0.000	-0.009	-3.187	-0.451	-10.262
			26:COM13	-	30:COM17	26:COM13	26:COM13	26:COM13
3531	1677	+ve	4.400	25.536	0.000	0.384	1.732	28.215
			24:COM11	20:COM7	-	24:COM11	20:COM7	20:COM7
			-62.206	-3.377	-0.418	-0.912	0.000	-3.536
			18:COM5	30:COM17	34:CVOL3	18:COM5	-	30:COM17
	1683	-ve	4.400	17.287	0.000	0.384	0.892	10.882
			24:COM11	20:COM7	-	24:COM11	20:COM7	28:COM15
			-62.206	-8.064	-0.418	-0.912	-0.012	-25.432
			18:COM5	30:COM17	34:CVOL3	18:COM5	30:COM17	22:COM9

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
3532	1678	+ve	0.000	47.660	0.306	6.382	0.418	57.883
			-	28:COM15	20:COM7	16:COM3	28:COM15	28:COM15
			-47.915	-67.344	-0.202	-3.813	-0.404	-87.320
			22:COM9	22:COM9	30:COM17	26:COM13	22:COM9	22:COM9
	1684	-ve	0.000	43.405	0.306	6.382	0.389	90.635
			-	28:COM15	20:COM7	16:COM3	20:COM7	20:COM7
			-47.915	-75.017	-0.202	-3.813	-0.114	-55.952
			22:COM9	22:COM9	30:COM17	26:COM13	30:COM17	30:COM17
3533	1679	+ve	0.000	49.099	0.967	2.590	0.339	59.992
			-	28:COM15	16:COM3	28:COM15	24:COM11	28:COM15
			-63.680	-61.715	-0.667	-5.372	-1.020	-82.330
			22:COM9	22:COM9	26:COM13	22:COM9	18:COM5	22:COM9
	1685	-ve	0.000	44.844	0.967	2.590	1.430	81.552
			-	28:COM15	16:COM3	28:COM15	24:COM11	20:COM7
			-63.680	-69.388	-0.667	-5.372	-1.364	-57.440
			22:COM9	22:COM9	26:COM13	22:COM9	18:COM5	30:COM17
3534	1680	+ve	0.000	40.234	0.543	2.841	0.274	47.348
			-	28:COM15	16:COM3	16:COM3	24:COM11	28:COM15
			-66.511	-55.323	-0.501	-2.774	-0.382	-74.199
			22:COM9	22:COM9	26:COM13	26:COM13	18:COM5	22:COM9
	1686	-ve	0.000	35.979	0.543	2.841	0.995	73.706
			-	28:COM15	16:COM3	16:COM3	16:COM3	20:COM7
			-66.511	-62.996	-0.501	-2.774	-0.997	-47.922
			22:COM9	22:COM9	26:COM13	26:COM13	26:COM13	30:COM17
3535	1681	+ve	1.916	40.786	0.173	5.810	0.296	48.300
			28:COM15	28:COM15	24:COM11	24:COM11	16:COM3	28:COM15
			-73.042	-56.258	-0.090	-7.016	-0.291	-75.758
			22:COM9	22:COM9	18:COM5	18:COM5	26:COM13	22:COM9
	1687	-ve	1.916	36.531	0.173	5.810	0.314	74.500
			28:COM15	28:COM15	24:COM11	24:COM11	20:COM7	20:COM7
			-73.042	-63.932	-0.090	-7.016	-0.104	-48.367
			22:COM9	22:COM9	18:COM5	18:COM5	30:COM17	30:COM17
3536	1682	+ve	15.313	13.733	0.233	0.496	0.560	12.116
			24:COM11	20:COM7	20:COM7	28:COM15	16:COM3	20:COM7
			-48.750	-5.329	-0.184	-1.048	-0.455	-6.624
			18:COM5	30:COM17	30:COM17	22:COM9	26:COM13	30:COM17
	1688	-ve	15.313	6.940	0.233	0.496	0.692	13.012
			24:COM11	28:COM15	20:COM7	28:COM15	20:COM7	20:COM7
			-48.750	-11.472	-0.184	-1.048	-0.466	-12.361
			18:COM5	22:COM9	30:COM17	22:COM9	30:COM17	30:COM17
3537	1683	+ve	0.000	65.409	5.697	20.380	4.503	37.243
			-	20:COM7	16:COM3	20:COM7	24:COM11	20:COM7
			-58.930	-38.295	-4.250	-9.348	-4.944	-20.433
			18:COM5	30:COM17	26:COM13	30:COM17	18:COM5	30:COM17
	1658	-ve	0.000	59.964	5.697	20.380	4.521	45.356
			-	20:COM7	16:COM3	20:COM7	16:COM3	28:COM15
			-58.930	-41.389	-4.250	-9.348	-2.574	-66.240
			18:COM5	30:COM17	26:COM13	30:COM17	26:COM13	22:COM9

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
3538	1684	+ve	0.000	32.236	6.202	17.391	4.297	38.688
			-	28:COM15	20:COM7	28:COM15	28:COM15	20:COM7
			-64.533	-34.086	-5.019	-19.950	-5.558	-37.096
			22:COM9	22:COM9	30:COM17	22:COM9	22:COM9	30:COM17
	1659	-ve	0.000	29.428	6.202	17.391	4.677	25.466
			-	28:COM15	20:COM7	28:COM15	20:COM7	16:COM3
			-64.533	-39.150	-5.019	-19.950	-3.985	-14.327
			22:COM9	22:COM9	30:COM17	22:COM9	30:COM17	26:COM13
3539	1685	+ve	0.000	48.996	4.899	6.687	5.648	44.615
			-	28:COM15	24:COM11	24:COM11	16:COM3	28:COM15
			-76.815	-68.815	-5.862	-13.376	-4.844	-57.407
			22:COM9	22:COM9	18:COM5	18:COM5	26:COM13	22:COM9
	1663	-ve	0.000	46.188	4.899	6.687	3.239	60.389
			-	28:COM15	24:COM11	24:COM11	24:COM11	20:COM7
			-76.815	-73.879	-5.862	-13.376	-4.025	-33.985
			22:COM9	22:COM9	18:COM5	18:COM5	18:COM5	30:COM17
3540	1686	+ve	0.000	25.018	4.771	7.810	4.704	29.654
			-	28:COM15	24:COM11	24:COM11	16:COM3	28:COM15
			-91.349	-38.019	-4.911	-8.135	-4.611	-38.929
			34:CVOL3	22:COM9	18:COM5	18:COM5	26:COM13	22:COM9
	1660	-ve	0.000	22.210	4.771	7.810	3.262	27.981
			-	28:COM15	24:COM11	24:COM11	24:COM11	20:COM7
			-91.349	-43.083	-4.911	-8.135	-3.399	-9.309
			34:CVOL3	22:COM9	18:COM5	18:COM5	18:COM5	30:COM17
3541	1687	+ve	0.000	46.226	6.681	24.725	4.776	44.402
			-	20:COM7	16:COM3	16:COM3	24:COM11	20:COM7
			-99.049	-46.399	-5.384	-18.110	-5.724	-43.520
			18:COM5	30:COM17	26:COM13	26:COM13	18:COM5	30:COM17
	1661	-ve	0.000	43.267	6.681	24.725	5.302	37.573
			-	28:COM15	16:COM3	16:COM3	16:COM3	20:COM7
			-99.049	-51.313	-5.384	-18.110	-4.111	-29.911
			18:COM5	22:COM9	26:COM13	26:COM13	26:COM13	30:COM17
3542	1688	+ve	10.272	48.484	12.318	10.942	11.211	27.454
			24:COM11	20:COM7	24:COM11	24:COM11	24:COM11	20:COM7
			-43.538	-45.220	-12.930	-14.395	-11.189	-27.323
			18:COM5	30:COM17	18:COM5	18:COM5	18:COM5	30:COM17
	1662	-ve	10.272	44.328	12.318	10.942	9.170	50.195
			24:COM11	28:COM15	24:COM11	24:COM11	24:COM11	20:COM7
			-43.538	-49.602	-12.930	-14.395	-10.158	-48.405
			18:COM5	22:COM9	18:COM5	18:COM5	18:COM5	30:COM17
3543	1689	+ve	0.000	71.800	0.222	2.304	0.585	112.590
			-	20:COM7	24:COM11	24:COM11	24:COM11	20:COM7
			-44.839	-53.701	-0.221	-3.073	-0.741	-94.406
			18:COM5	30:COM17	18:COM5	18:COM5	18:COM5	30:COM17
	1694	-ve	0.000	61.533	0.222	2.304	0.161	99.535
			-	20:COM7	24:COM11	24:COM11	24:COM11	28:COM15
			-44.839	-60.382	-0.221	-3.073	-0.311	-114.077
			18:COM5	30:COM17	18:COM5	18:COM5	18:COM5	22:COM9

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
3544	1690	+ve	0.000	55.133	0.134	0.992	0.492	86.646
			-	20:COM7	24:COM11	24:COM11	16:COM3	20:COM7
			-42.352	-33.344	-0.167	-1.224	-0.431	-62.070
			22:COM9	30:COM17	18:COM5	18:COM5	26:COM13	30:COM17
	1695	-ve	0.000	45.650	0.134	0.992	0.131	61.658
			-	20:COM7	24:COM11	24:COM11	28:COM15	28:COM15
			-42.352	-39.437	-0.167	-1.224	-0.181	-84.685
			22:COM9	30:COM17	18:COM5	18:COM5	22:COM9	22:COM9
3545	1691	+ve	0.000	50.362	0.131	0.925	0.341	77.406
			-	20:COM7	16:COM3	24:COM11	24:COM11	20:COM7
			-55.959	-34.380	-0.121	-1.095	-0.395	-64.715
			22:COM9	30:COM17	26:COM13	18:COM5	18:COM5	30:COM17
	1696	-ve	0.000	41.168	0.131	0.925	0.087	62.537
			-	28:COM15	16:COM3	24:COM11	24:COM11	28:COM15
			-55.959	-40.762	-0.121	-1.095	-0.109	-77.705
			22:COM9	22:COM9	26:COM13	18:COM5	18:COM5	22:COM9
3546	1692	+ve	0.000	51.603	0.186	0.990	0.410	80.508
			-	20:COM7	16:COM3	24:COM11	24:COM11	20:COM7
			-44.295	-27.024	-0.145	-1.305	-0.496	-51.424
			22:COM9	30:COM17	26:COM13	18:COM5	18:COM5	30:COM17
	1697	-ve	0.000	42.120	0.186	0.990	0.169	50.813
			-	20:COM7	16:COM3	24:COM11	16:COM3	28:COM15
			-44.295	-33.116	-0.145	-1.305	-0.117	-78.821
			22:COM9	30:COM17	26:COM13	18:COM5	26:COM13	22:COM9
3547	1693	+ve	0.000	55.280	0.065	0.536	0.606	83.092
			-	20:COM7	24:COM11	28:COM15	16:COM3	20:COM7
			-53.522	-35.684	-0.193	-2.349	-0.367	-63.103
			22:COM9	30:COM17	18:COM5	22:COM9	26:COM13	30:COM17
	1698	-ve	0.000	45.012	0.065	0.536	0.104	69.582
			-	20:COM7	24:COM11	28:COM15	24:COM11	28:COM15
			-53.522	-42.364	-0.193	-2.349	-0.301	-87.408
			22:COM9	30:COM17	18:COM5	22:COM9	18:COM5	22:COM9
3548	1694	+ve	0.774	33.676	2.305	13.690	1.647	44.753
			28:COM15	28:COM15	16:COM3	24:COM11	24:COM11	28:COM15
			-109.722	-68.721	-2.055	-21.483	-1.679	-71.563
			22:COM9	22:COM9	26:COM13	18:COM5	18:COM5	22:COM9
	1666	-ve	0.774	30.237	2.305	13.690	2.359	53.336
			28:COM15	28:COM15	16:COM3	24:COM11	16:COM3	20:COM7
			-109.722	-74.006	-2.055	-21.483	-1.952	-11.184
			22:COM9	22:COM9	26:COM13	18:COM5	26:COM13	30:COM17
3549	1695	+ve	0.000	16.791	1.245	11.668	1.304	24.572
			-	28:COM15	24:COM11	24:COM11	16:COM3	28:COM15
			-72.714	-49.620	-1.546	-12.261	-1.115	-51.597
			22:COM9	22:COM9	18:COM5	18:COM5	26:COM13	22:COM9
	1667	-ve	0.000	13.655	1.245	11.668	1.073	39.517
			-	28:COM15	24:COM11	24:COM11	24:COM11	20:COM7
			-72.714	-54.501	-1.546	-12.261	-1.410	-2.076
			22:COM9	22:COM9	18:COM5	18:COM5	18:COM5	30:COM17

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
3550	1696	+ve	0.000	17.273	1.125	11.394	1.016	24.646
			-	28:COM15	24:COM11	24:COM11	16:COM3	28:COM15
			-77.831	-48.710	-1.294	-12.159	-0.867	-50.172
			22:COM9	22:COM9	18:COM5	18:COM5	26:COM13	22:COM9
	1668	-ve	0.000	14.137	1.125	11.394	1.108	39.346
			-	28:COM15	24:COM11	24:COM11	24:COM11	20:COM7
			-77.831	-53.591	-1.294	-12.159	-1.255	-2.842
			22:COM9	22:COM9	18:COM5	18:COM5	18:COM5	30:COM17
3551	1697	+ve	0.000	12.939	1.106	11.729	0.934	19.881
			-	28:COM15	24:COM11	24:COM11	16:COM3	28:COM15
			-75.465	-48.057	-1.186	-12.225	-0.882	-49.745
			22:COM9	22:COM9	18:COM5	18:COM5	26:COM13	22:COM9
	1669	-ve	0.000	9.804	1.106	11.729	1.059	38.630
			-	28:COM15	24:COM11	24:COM11	24:COM11	20:COM7
			-75.465	-52.938	-1.186	-12.225	-1.147	-0.025
			22:COM9	22:COM9	18:COM5	18:COM5	18:COM5	30:COM17
3552	1698	+ve	0.000	20.623	1.748	15.347	1.789	29.615
			-	28:COM15	24:COM11	24:COM11	16:COM3	28:COM15
			-106.077	-58.935	-1.777	-17.421	-1.349	-60.239
			22:COM9	22:COM9	18:COM5	18:COM5	26:COM13	22:COM9
	1670	-ve	0.000	17.185	1.748	15.347	1.801	47.584
			-	28:COM15	24:COM11	24:COM11	16:COM3	20:COM7
			-106.077	-64.220	-1.777	-17.421	-1.411	-3.529
			22:COM9	22:COM9	18:COM5	18:COM5	26:COM13	30:COM17
3553	1713	+ve	0.000	1.104	0.224	0.098	0.000	0.000
			-	32:CVOL1	34:CVOL3	28:COM15	-	-
			-5.126	-0.837	0.000	-1.084	-0.323	-2.760
			34:CVOL3	35:CVOL4	-	22:COM9	34:CVOL3	22:COM9
	1715	-ve	0.000	0.000	0.224	0.098	0.364	6.919
			-	-	34:CVOL3	28:COM15	34:CVOL3	20:COM7
			-5.126	-6.607	0.000	-1.084	0.000	0.000
			34:CVOL3	32:CVOL1	-	22:COM9	-	-
3554	1713	+ve	1.863	0.837	6.323	2.380	0.000	0.048
			34:CVOL3	35:CVOL4	34:CVOL3	20:COM7	-	28:COM15
			0.000	-1.104	0.000	0.000	-0.323	-1.770
			-	32:CVOL1	-	-	22:COM9	22:COM9
	1983	-ve	1.863	0.642	6.323	2.380	0.995	0.002
			34:CVOL3	35:CVOL4	34:CVOL3	20:COM7	34:CVOL3	28:COM15
			0.000	-1.332	0.000	0.000	0.000	-1.648
			-	32:CVOL1	-	-	-	22:COM9
3555	1708	+ve	0.000	14.867	0.000	0.992	0.289	53.094
			-	34:CVOL3	-	34:CVOL3	34:CVOL3	20:COM7
			-20.558	0.000	-0.257	0.000	0.000	0.000
			18:COM5	-	34:CVOL3	-	-	-
	1942	-ve	0.000	12.976	0.000	0.992	0.000	26.448
			-	34:CVOL3	-	34:CVOL3	-	20:COM7
			-20.558	0.000	-0.257	0.000	-0.221	0.000
			18:COM5	-	34:CVOL3	-	34:CVOL3	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
3556	1707	+ve	0.788	8.719	0.207	1.071	0.000	24.736
			24:COM1	20:COM7	16:COM3	20:COM7	-	20:COM7
			-15.878	0.000	0.000	0.000	-0.202	-4.309
			18:COM5	-	-	-	18:COM5	30:COM1
	1948	-ve	0.788	6.926	0.207	1.071	0.188	10.105
			24:COM1	20:COM7	16:COM3	20:COM7	16:COM3	20:COM7
			-15.878	-0.285	0.000	0.000	-0.008	-5.123
			18:COM5	30:COM1	-	-	26:COM1	30:COM1
3557	1708	+ve	21.599	0.000	0.000	3.783	10.814	0.000
			16:COM3	-	-	24:COM1	34:CVOL3	-
			-1.999	-26.809	-6.399	-5.413	0.000	-1.494
			26:COM1	34:CVOL3	34:CVOL3	18:COM5	-	35:CVOL4
	1675	-ve	21.599	0.000	0.000	3.783	0.000	98.020
			16:COM3	-	-	24:COM1	-	34:CVOL3
			-1.999	-38.353	-6.399	-5.413	-8.729	0.000
			26:COM1	34:CVOL3	34:CVOL3	18:COM5	34:CVOL3	-
3558	1707	+ve	15.381	0.000	0.258	8.152	0.312	0.000
			20:COM7	-	20:COM7	28:COM1	28:COM1	-
			0.000	-19.525	-0.252	-16.102	-0.327	-2.368
			-	22:COM9	30:COM1	22:COM9	22:COM9	22:COM9
	1671	-ve	15.381	0.000	0.258	8.152	0.463	71.582
			20:COM7	-	20:COM7	28:COM1	20:COM7	20:COM7
			0.000	-28.898	-0.252	-16.102	-0.457	0.000
			-	22:COM9	30:COM1	22:COM9	30:COM1	-
3559	1706	+ve	1.075	0.000	0.098	14.339	0.342	0.000
			16:COM3	-	16:COM3	20:COM7	24:COM1	-
			-0.322	-11.560	-0.205	-13.664	-0.182	-1.159
			26:COM1	18:COM5	26:COM1	30:COM1	18:COM5	34:CVOL3
	1641	-ve	1.075	0.000	0.098	14.339	0.121	53.022
			16:COM3	-	16:COM3	20:COM7	24:COM1	34:CVOL3
			-0.322	-24.883	-0.205	-13.664	-0.286	0.000
			26:COM1	34:CVOL3	26:COM1	30:COM1	18:COM5	-
3560	1715	+ve	1.085	5.874	0.017	0.000	0.000	5.778
			24:COM1	32:CVOL1	34:CVOL3	-	-	28:COM1
			-7.634	0.000	0.000	-1.366	-0.065	-21.966
			18:COM5	-	-	22:COM9	34:CVOL3	22:COM9
	1716	-ve	1.085	0.000	0.017	0.000	0.052	23.593
			24:COM1	-	34:CVOL3	-	20:COM7	34:CVOL3
			-7.634	-17.019	0.000	-1.366	-0.001	0.000
			18:COM5	34:CVOL3	-	22:COM9	30:COM1	-
3561	1675	+ve	183.763	93.903	1.467	14.891	8.132	388.731
			34:CVOL3	34:CVOL3	24:COM1	20:COM7	16:COM3	34:CVOL3
			0.000	0.000	-6.891	0.000	-0.035	0.000
			-	-	18:COM5	-	26:COM1	-
	1899	-ve	183.763	91.078	1.467	14.891	2.528	237.704
			34:CVOL3	34:CVOL3	24:COM1	20:COM7	16:COM3	34:CVOL3
			0.000	0.000	-6.891	0.000	-3.287	0.000
			-	-	18:COM5	-	26:COM1	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
3562	1716	+ve	4.450	3.757	0.000	2.234	0.536	25.664
			28:COM15	28:COM15	-	20:COM7	20:COM7	20:COM7
			-5.446	-3.602	-0.845	-0.261	0.000	-2.160
			22:COM9	22:COM9	22:COM9	30:COM17	-	30:COM17
	1718	-ve	4.450	1.728	0.000	2.234	0.000	23.488
			28:COM15	28:COM15	-	20:COM7	-	20:COM7
			-5.446	-6.764	-0.845	-0.261	-0.537	0.000
			22:COM9	22:COM9	22:COM9	30:COM17	22:COM9	-
3563	1718	+ve	0.000	0.000	0.175	3.010	0.045	0.000
			-	-	20:COM7	20:COM7	28:COM15	-
			-12.239	-13.968	-0.074	-2.408	-0.381	-1.870
			22:COM9	22:COM9	30:COM17	30:COM17	22:COM9	32:CVOL1
	1990	-ve	0.000	0.000	0.175	3.010	0.092	38.854
			-	-	20:COM7	20:COM7	28:COM15	20:COM7
			-12.239	-16.965	-0.074	-2.408	-0.166	0.000
			22:COM9	22:COM9	30:COM17	30:COM17	22:COM9	-
3566	1718	+ve	6.891	9.221	0.002	0.061	0.000	21.802
			34:CVOL3	34:CVOL3	20:COM7	24:COM17	-	20:COM7
			0.000	0.000	-0.002	-0.639	-0.019	0.000
			-	-	30:COM17	18:COM5	22:COM9	-
	6205	-ve	6.891	0.000	0.002	0.061	0.003	26.830
			34:CVOL3	-	20:COM7	24:COM17	28:COM15	16:COM3
			0.000	-9.543	-0.002	-0.639	-0.021	0.000
			-	34:CVOL3	30:COM17	18:COM5	22:COM9	-
3567	1650	+ve	2.380	71.888	1.230	36.758	0.840	161.288
			28:COM15	16:COM3	16:COM3	16:COM3	24:COM11	16:COM3
			-8.607	0.000	-0.605	-11.843	-1.936	0.000
			22:COM9	-	26:COM13	26:COM13	18:COM5	-
	6206	-ve	2.380	62.476	1.230	36.758	1.608	0.000
			28:COM15	16:COM3	16:COM3	16:COM3	16:COM3	-
			-8.607	0.000	-0.605	-11.843	-0.904	-32.484
			22:COM9	-	26:COM13	26:COM13	26:COM13	18:COM5
3568	1666	+ve	11.388	22.954	0.752	15.545	0.897	46.728
			20:COM7	20:COM7	16:COM3	16:COM3	24:COM11	20:COM7
			0.000	0.000	-0.502	-12.416	-1.413	0.000
			-	-	26:COM13	26:COM13	18:COM5	-
	1699	-ve	11.388	15.556	0.752	15.545	0.440	0.000
			20:COM7	20:COM7	16:COM3	16:COM3	16:COM3	-
			0.000	0.000	-0.502	-12.416	-0.344	-0.699
			-	-	26:COM13	26:COM13	26:COM13	18:COM5
3569	1667	+ve	8.490	21.604	0.360	12.326	0.603	42.495
			16:COM3	35:CVOL4	24:COM11	24:COM17	16:COM3	35:CVOL4
			0.000	0.000	-0.418	-13.340	-0.545	0.000
			-	-	18:COM5	18:COM5	26:COM13	-
	1700	-ve	8.490	14.209	0.360	12.326	0.338	0.000
			16:COM3	33:CVOL2	24:COM11	24:COM17	24:COM11	-
			0.000	0.000	-0.418	-13.340	-0.423	-1.348
			-	-	18:COM5	18:COM5	18:COM5	34:CVOL3

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
3570	1668	+ve	6.881	21.650	0.393	11.981	0.570	42.612
			20:COM7	35:CVOL4	16:COM3	24:COM11	24:COM11	35:CVOL4
			0.000	0.000	-0.389	-12.819	-0.586	0.000
			-	-	26:COM13	18:COM5	18:COM5	-
	1701	-ve	6.881	14.297	0.393	11.981	0.378	0.000
			20:COM7	20:COM7	16:COM3	24:COM11	16:COM3	-
			0.000	0.000	-0.389	-12.819	-0.385	-1.342
			-	-	26:COM13	18:COM5	26:COM13	34:CVOL3
3571	1669	+ve	8.856	21.308	0.361	13.074	0.611	41.768
			20:COM7	35:CVOL4	24:COM11	24:COM11	16:COM3	35:CVOL4
			0.000	0.000	-0.387	-12.892	-0.529	0.000
			-	-	18:COM5	18:COM5	26:COM13	-
	1702	-ve	8.856	13.887	0.361	13.074	0.361	0.000
			20:COM7	35:CVOL4	24:COM11	24:COM11	16:COM3	-
			0.000	0.000	-0.387	-12.892	-0.343	-1.349
			-	-	18:COM5	18:COM5	26:COM13	34:CVOL3
3572	1670	+ve	11.469	25.993	0.510	6.774	1.179	53.757
			20:COM7	16:COM3	24:COM11	24:COM11	16:COM3	16:COM3
			0.000	0.000	-0.670	-19.375	-0.932	0.000
			-	-	18:COM5	18:COM5	26:COM13	-
	1703	-ve	11.469	18.594	0.510	6.774	0.327	0.000
			20:COM7	16:COM3	24:COM11	24:COM11	24:COM11	-
			0.000	0.000	-0.670	-19.375	-0.474	-1.070
			-	-	18:COM5	18:COM5	18:COM5	34:CVOL3
3574	1714	+ve	2.094	5.355	0.000	1.283	0.103	1.775
			20:COM7	16:COM3	-	16:COM3	20:COM7	16:COM3
			0.000	-0.219	-0.125	0.000	0.000	0.000
			-	26:COM13	22:COM9	-	-	-
	1704	-ve	2.094	3.955	0.000	1.283	0.000	1.353
			20:COM7	16:COM3	-	16:COM3	-	24:COM11
			0.000	-1.269	-0.125	0.000	-0.098	-5.721
			-	26:COM13	22:COM9	-	22:COM9	18:COM5
3575	1704	+ve	3.567	0.941	0.000	0.000	0.072	0.000
			16:COM3	24:COM11	-	-	20:COM7	-
			0.000	-1.614	-0.064	-0.838	0.000	-3.951
			-	18:COM5	22:COM9	18:COM5	-	22:COM9
	1812	-ve	3.567	0.000	0.000	0.000	0.000	2.423
			16:COM3	-	-	-	-	16:COM3
			0.000	-3.498	-0.064	-0.838	-0.068	-1.867
			-	18:COM5	22:COM9	18:COM5	22:COM9	26:COM13
3576	1699	+ve	2.946	8.158	0.000	0.000	0.198	26.616
			28:COM15	16:COM3	-	-	20:COM7	16:COM3
			-7.037	0.000	-0.190	-0.970	0.000	0.000
			22:COM9	-	22:COM9	18:COM5	-	-
	1814	-ve	2.946	6.463	0.000	0.000	0.000	12.514
			28:COM15	16:COM3	-	-	-	16:COM3
			-7.037	0.000	-0.190	-0.970	-0.172	-6.257
			22:COM9	-	22:COM9	18:COM5	22:COM9	26:COM13

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
3577	1700	+ve	2.714	7.112	0.000	0.199	0.168	20.651
			28:COM15	33:CVOL2	-	24:COM17	16:COM3	16:COM3
			-12.925	0.000	-0.156	-1.118	0.000	0.000
			22:COM9	-	18:COM5	18:COM5	-	-
	1819	-ve	2.714	5.405	0.000	0.199	0.000	9.481
			28:COM15	35:CVOL4	-	24:COM17	-	16:COM3
			-12.925	0.000	-0.156	-1.118	-0.137	-4.074
			22:COM9	-	18:COM5	18:COM5	18:COM5	26:COM13
3578	1701	+ve	3.410	7.174	0.000	0.162	0.145	20.875
			28:COM15	20:COM7	-	24:COM17	16:COM3	16:COM3
			-10.921	0.000	-0.142	-1.095	0.000	0.000
			22:COM9	-	18:COM5	18:COM5	-	-
	1824	-ve	3.410	5.479	0.000	0.162	0.000	9.593
			28:COM15	20:COM7	-	24:COM17	-	16:COM3
			-10.921	0.000	-0.142	-1.095	-0.132	-4.235
			22:COM9	-	18:COM5	18:COM5	18:COM5	26:COM13
3579	1702	+ve	0.637	6.841	0.000	0.182	0.172	21.095
			28:COM15	35:CVOL4	-	24:COM17	16:COM3	16:COM3
			-13.377	0.000	-0.160	-1.200	0.000	0.000
			22:COM9	-	18:COM5	18:COM5	-	-
	1829	-ve	0.637	5.146	0.000	0.182	0.000	9.843
			28:COM15	35:CVOL4	-	24:COM17	-	16:COM3
			-13.377	0.000	-0.160	-1.200	-0.140	-5.319
			22:COM9	-	18:COM5	18:COM5	18:COM5	26:COM13
3580	1703	+ve	0.000	9.542	0.000	0.234	0.188	30.823
			-	16:COM3	-	24:COM17	20:COM7	32:CVOL1
			-5.814	0.000	-0.172	-0.125	0.000	0.000
			18:COM5	-	22:COM9	18:COM5	-	-
	1834	-ve	0.000	7.751	0.000	0.234	0.000	15.804
			-	16:COM3	-	24:COM17	-	16:COM3
			-5.814	0.000	-0.172	-0.125	-0.166	0.000
			18:COM5	-	22:COM9	18:COM5	22:COM9	-
3581	1716	+ve	15.385	0.000	3.941	11.198	2.061	2.977
			34:CVOL3	-	20:COM7	20:COM7	28:COM15	28:COM15
			0.000	-17.864	-2.180	-5.745	-2.920	-4.348
			-	22:COM9	30:COM17	30:COM17	22:COM9	22:COM9
	1976	-ve	15.385	0.000	3.941	11.198	4.786	41.441
			34:CVOL3	-	20:COM7	20:COM7	20:COM7	20:COM7
			0.000	-21.922	-2.180	-5.745	-2.201	0.000
			-	22:COM9	30:COM17	30:COM17	30:COM17	-
3582	1709	+ve	1.147	7.154	0.302	0.779	0.000	19.712
			28:COM15	20:COM7	20:COM7	16:COM3	-	16:COM3
			-7.275	0.000	0.000	-0.286	-0.334	0.000
			22:COM9	-	-	26:COM13	22:COM9	-
	1905	-ve	1.147	5.524	0.302	0.779	0.267	12.858
			28:COM15	20:COM7	20:COM7	16:COM3	20:COM7	16:COM3
			-7.275	-0.495	0.000	-0.286	0.000	-5.419
			22:COM9	30:COM17	-	26:COM13	-	26:COM13

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
3583	1710	+ve	0.000	8.023	0.319	1.043	0.000	27.591
			-	16:COM3	20:COM7	16:COM3	-	16:COM3
			-9.207	0.000	0.000	-0.096	-0.357	0.000
			18:COM5	-	-	26:COM1	22:COM9	-
	1911	-ve	0.000	6.404	0.319	1.043	0.271	17.822
			-	16:COM3	20:COM7	16:COM3	20:COM7	16:COM3
			-9.207	0.000	0.000	-0.096	0.000	-5.626
			18:COM5	-	-	26:COM1	-	26:COM1
3584	1711	+ve	1.299	10.741	0.303	0.302	0.017	24.147
			24:COM1	16:COM3	20:COM7	35:CVOL4	28:COM1	35:CVOL4
			-6.475	0.000	-0.011	0.000	-0.348	0.000
			18:COM5	-	30:COM1	-	22:COM9	-
	1914	-ve	1.299	9.122	0.303	0.302	0.250	12.815
			24:COM1	16:COM3	20:COM7	35:CVOL4	20:COM7	16:COM3
			-6.475	0.000	-0.011	0.000	-0.005	-1.167
			18:COM5	-	30:COM1	-	30:COM1	26:COM1
3585	1712	+ve	8.612	7.346	0.282	14.011	0.120	0.630
			20:COM7	24:COM11	24:COM11	24:COM1	20:COM7	24:COM1
			-7.179	-21.516	-0.441	-24.907	-0.126	-1.339
			30:COM1	18:COM5	18:COM5	18:COM5	30:COM1	18:COM5
	1676	-ve	8.612	5.001	0.282	14.011	0.374	28.154
			20:COM7	24:COM11	24:COM11	24:COM1	24:COM11	16:COM3
			-7.179	-25.642	-0.441	-24.907	-0.579	-7.098
			30:COM1	18:COM5	18:COM5	18:COM5	18:COM5	26:COM1
3586	1711	+ve	10.726	0.000	0.558	11.258	0.635	0.000
			20:COM7	-	24:COM11	16:COM3	16:COM3	-
			-0.368	-17.466	-0.922	-8.927	-0.469	-1.234
			30:COM1	18:COM5	18:COM5	26:COM1	26:COM1	18:COM5
	1674	-ve	10.726	0.000	0.558	11.258	0.234	23.620
			20:COM7	-	24:COM11	16:COM3	24:COM11	16:COM3
			-0.368	-21.304	-0.922	-8.927	-0.524	0.000
			30:COM1	18:COM5	18:COM5	26:COM1	18:COM5	-
3587	1710	+ve	10.901	0.000	0.199	13.519	0.244	0.000
			20:COM7	-	16:COM3	16:COM3	24:COM11	-
			0.000	-15.370	-0.098	-12.618	-0.292	-1.587
			-	35:CVOL4	26:COM1	26:COM1	18:COM5	35:CVOL4
	1673	-ve	10.901	0.000	0.199	13.519	0.293	20.407
			20:COM7	-	16:COM3	16:COM3	16:COM3	35:CVOL4
			0.000	-19.808	-0.098	-12.618	-0.216	0.000
			-	35:CVOL4	26:COM1	26:COM1	26:COM1	-
3588	1709	+ve	9.182	1.973	1.152	21.703	0.000	0.374
			20:COM7	28:COM1	16:COM3	16:COM3	-	24:COM1
			0.000	-14.437	0.000	-8.520	-0.633	-0.962
			-	22:COM9	-	26:COM1	22:COM9	18:COM5
	1672	-ve	9.182	0.000	1.152	21.703	1.063	19.546
			20:COM7	-	16:COM3	16:COM3	16:COM3	20:COM7
			0.000	-18.275	0.000	-8.520	-0.113	-0.818
			-	22:COM9	-	26:COM1	26:COM1	30:COM1

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
3589	1719	+ve	0.048	3.214	0.000	0.105	0.124	0.203
			28:COM15	34:CVOL3	-	16:COM3	16:COM3	20:COM7
			-0.343	0.000	-0.141	-0.131	0.000	0.000
			22:COM9	-	18:COM5	26:COM13	-	-
	1720	-ve	0.048	0.000	0.000	0.105	0.000	0.089
			28:COM15	-	-	16:COM3	-	24:COM11
			-0.343	-1.469	-0.141	-0.131	-0.067	-1.203
			22:COM9	32:CVOL1	18:COM5	26:COM13	22:COM9	34:CVOL3
3590	1720	+ve	0.216	7.333	0.001	0.721	0.016	0.670
			24:COM11	34:CVOL3	24:COM11	34:CVOL3	16:COM3	28:COM15
			-2.399	0.000	-0.002	0.000	-0.005	-2.037
			18:COM5	-	18:COM5	-	26:COM13	35:CVOL4
	1723	-ve	0.216	0.000	0.001	0.721	0.007	20.299
			24:COM11	-	24:COM11	34:CVOL3	16:COM3	34:CVOL3
			-2.399	-13.895	-0.002	0.000	-0.003	0.000
			18:COM5	34:CVOL3	18:COM5	-	26:COM13	-
3591	1676	+ve	4.907	78.062	4.633	4.304	4.439	143.560
			28:COM15	16:COM3	28:COM15	16:COM3	20:COM7	16:COM3
			-6.659	-56.784	-4.689	0.000	-4.363	-97.560
			22:COM9	26:COM13	22:COM9	-	30:COM17	26:COM13
	1916	-ve	4.907	76.120	4.633	4.304	3.456	13.766
			28:COM15	16:COM3	28:COM15	16:COM3	28:COM15	16:COM3
			-6.659	-58.240	-4.689	0.000	-3.474	-0.731
			22:COM9	26:COM13	22:COM9	-	22:COM9	26:COM13
3596	1712	+ve	8.827	12.852	0.248	0.612	0.234	29.489
			28:COM15	16:COM3	20:COM7	16:COM3	28:COM15	16:COM3
			-9.547	-10.133	-0.229	-0.009	-0.244	-13.514
			22:COM9	26:COM13	30:COM17	26:COM13	22:COM9	26:COM13
	1973	-ve	8.827	11.471	0.248	0.612	0.174	10.059
			28:COM15	16:COM3	20:COM7	16:COM3	20:COM7	34:CVOL3
			-9.547	-11.169	-0.229	-0.009	-0.151	0.000
			22:COM9	26:COM13	30:COM17	26:COM13	30:COM17	-
3597	1723	+ve	2.526	10.209	0.032	0.355	0.012	16.006
			24:COM11	20:COM7	16:COM3	34:CVOL3	24:COM11	34:CVOL3
			-7.510	-3.819	-0.005	-0.069	-0.055	0.000
			18:COM5	30:COM17	26:COM13	30:COM17	18:COM5	-
	6252	-ve	2.526	3.893	0.032	0.355	0.048	31.875
			24:COM11	28:COM15	16:COM3	34:CVOL3	16:COM3	20:COM7
			-7.510	-10.264	-0.005	-0.069	-0.006	-9.646
			18:COM5	22:COM9	26:COM13	30:COM17	26:COM13	30:COM17
3598	1662	+ve	28.659	115.028	3.104	4.367	5.279	200.032
			20:COM7	16:COM3	28:COM15	28:COM15	20:COM7	16:COM3
			-21.468	-92.524	-5.322	-7.428	-2.908	-170.086
			30:COM17	26:COM13	22:COM9	22:COM9	30:COM17	26:COM13
	1791	-ve	28.659	112.700	3.104	4.367	2.317	10.410
			20:COM7	16:COM3	28:COM15	28:COM15	28:COM15	24:COM11
			-21.468	-94.269	-5.322	-7.428	-3.677	-14.889
			30:COM17	26:COM13	22:COM9	22:COM9	22:COM9	18:COM5

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
3599	1658	+ve	6.359	35.761	9.747	14.032	0.000	116.062
			28:COM1	20:COM7	20:COM7	20:COM7	-	28:COM1
			-20.461	-30.402	0.000	-1.306	-11.201	-155.426
			22:COM9	30:COM1	-	30:COM1	22:COM9	22:COM9
	1918	-ve	6.359	32.950	9.747	14.032	8.610	47.768
			28:COM1	20:COM7	20:COM7	20:COM7	20:COM7	28:COM1
			-20.461	-32.509	0.000	-1.306	0.000	-93.021
			22:COM9	30:COM1	-	30:COM1	-	22:COM9
3600	1706	+ve	4.971	7.314	0.016	1.260	0.013	13.587
			20:COM7	20:COM7	16:COM3	20:COM7	28:COM1	20:COM7
			-4.509	0.000	-0.013	-0.540	-0.018	0.000
			30:COM1	-	26:COM1	30:COM1	22:COM9	-
	1920	-ve	4.971	5.580	0.016	1.260	0.015	6.542
			20:COM7	20:COM7	16:COM3	20:COM7	16:COM3	16:COM3
			-4.509	-0.286	-0.013	-0.540	-0.014	-4.838
			30:COM1	30:COM1	26:COM1	30:COM1	26:COM1	26:COM1
3601	1727	+ve	2.678	5.234	0.016	0.433	0.018	19.185
			16:COM3	16:COM3	28:COM1	28:COM1	16:COM3	20:COM7
			-0.442	-0.219	-0.013	-0.916	-0.022	-2.812
			26:COM1	26:COM1	22:COM9	22:COM9	26:COM1	30:COM1
	1923	-ve	2.678	3.217	0.016	0.433	0.024	13.260
			16:COM3	16:COM3	28:COM1	28:COM1	28:COM1	20:COM7
			-0.442	-1.732	-0.013	-0.916	-0.021	-4.870
			26:COM1	26:COM1	22:COM9	22:COM9	22:COM9	30:COM1
3602	1725	+ve	5.158	30.151	0.021	1.002	0.137	52.894
			28:COM1	34:CVOL3	24:COM1	24:COM1	16:COM3	34:CVOL3
			-8.547	0.000	-0.151	-1.632	0.000	0.000
			22:COM9	-	18:COM5	18:COM5	-	-
	1926	-ve	5.158	28.332	0.021	1.002	0.044	6.138
			28:COM1	34:CVOL3	24:COM1	24:COM1	24:COM1	28:COM1
			-8.547	0.000	-0.151	-1.632	-0.159	-10.447
			22:COM9	-	18:COM5	18:COM5	18:COM5	22:COM9
3603	1728	+ve	2.154	0.000	2.032	16.362	0.192	0.000
			20:COM7	-	16:COM3	24:COM1	24:COM1	-
			0.000	-13.197	-1.711	-17.428	-0.207	-0.767
			-	22:COM9	26:COM1	18:COM5	18:COM5	22:COM9
	1652	-ve	2.154	0.000	2.032	16.362	1.701	10.331
			20:COM7	-	16:COM3	24:COM1	16:COM3	20:COM7
			0.000	-15.289	-1.711	-17.428	-1.475	0.000
			-	22:COM9	26:COM1	18:COM5	26:COM1	-
3604	1729	+ve	2.793	0.000	1.894	17.538	0.224	0.000
			20:COM7	-	24:COM1	16:COM3	24:COM1	-
			0.000	-11.358	-1.890	-16.085	-0.241	-0.747
			-	33:CVOL2	18:COM5	26:COM1	18:COM5	22:COM9
	1653	-ve	2.793	0.000	1.894	17.538	1.636	8.742
			20:COM7	-	24:COM1	16:COM3	24:COM1	32:CVOL1
			0.000	-13.449	-1.890	-16.085	-1.650	0.000
			-	33:CVOL2	18:COM5	26:COM1	18:COM5	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
3605	1730	+ve	2.022	0.000	2.026	19.070	0.186	0.000
			20:COM7	-	16:COM3	16:COM3	24:COM11	-
			0.000	-12.978	-1.855	-15.798	-0.230	-0.770
			-	22:COM9	26:COM13	26:COM13	18:COM5	22:COM9
	1654	-ve	2.022	0.000	2.026	19.070	1.682	10.126
			20:COM7	-	16:COM3	16:COM3	16:COM3	20:COM7
			0.000	-15.070	-1.855	-15.798	-1.597	0.000
			-	22:COM9	26:COM13	26:COM13	26:COM13	-
3606	1728	+ve	2.514	6.764	0.080	0.438	0.000	21.254
			28:COM15	16:COM3	16:COM3	16:COM3	-	16:COM3
			-3.771	0.000	0.000	0.000	-0.080	0.000
			22:COM9	-	-	-	18:COM5	-
	1992	-ve	2.514	4.334	0.080	0.438	0.077	15.106
			28:COM15	16:COM3	16:COM3	16:COM3	16:COM3	16:COM3
			-3.771	0.000	0.000	0.000	0.000	-7.506
			22:COM9	-	-	-	-	26:COM13
3608	1639	+ve	12.790	37.218	0.714	21.808	0.907	76.962
			20:COM7	34:CVOL3	28:COM15	28:COM15	20:COM7	34:CVOL3
			0.000	0.000	-0.788	-30.387	-0.625	0.000
			-	-	22:COM9	22:COM9	30:COM17	-
	1724	-ve	12.790	29.227	0.714	21.808	1.086	0.000
			20:COM7	34:CVOL3	28:COM15	28:COM15	20:COM7	-
			0.000	0.000	-0.788	-30.387	-0.978	-1.258
			-	-	22:COM9	22:COM9	30:COM17	22:COM9
3609	1643	+ve	14.190	43.894	0.153	18.814	0.309	91.372
			20:COM7	34:CVOL3	16:COM3	16:COM3	24:COM11	34:CVOL3
			0.000	0.000	-0.126	-15.969	-0.335	0.000
			-	-	26:COM13	26:COM13	18:COM5	-
	1726	-ve	14.190	35.915	0.153	18.814	0.462	0.000
			20:COM7	34:CVOL3	16:COM3	16:COM3	16:COM3	-
			0.000	0.000	-0.126	-15.969	-0.426	-2.357
			-	-	26:COM13	26:COM13	26:COM13	34:CVOL3
3611	1726	+ve	6.789	17.536	0.000	0.000	0.173	48.392
			24:COM11	34:CVOL3	-	-	16:COM3	34:CVOL3
			-10.371	0.000	-0.194	-1.520	0.000	0.000
			18:COM5	-	18:COM5	18:COM5	-	-
	1929	-ve	6.789	15.689	0.000	0.000	0.000	20.862
			24:COM11	34:CVOL3	-	-	-	16:COM3
			-10.371	0.000	-0.194	-1.520	-0.211	-1.356
			18:COM5	-	18:COM5	18:COM5	18:COM5	26:COM13
3612	1732	+ve	59.930	62.223	1.169	9.404	0.856	15.618
			20:COM7	28:COM15	20:COM7	20:COM7	28:COM15	24:COM11
			-56.453	-76.008	-0.820	-1.315	-1.870	-32.334
			30:COM17	22:COM9	30:COM17	30:COM17	22:COM9	18:COM5
	1651	-ve	59.930	56.923	1.169	9.404	1.994	233.694
			20:COM7	28:COM15	20:COM7	20:COM7	20:COM7	20:COM7
			-56.453	-84.255	-0.820	-1.315	-1.861	-182.977
			30:COM17	22:COM9	30:COM17	30:COM17	30:COM17	30:COM17

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
3613	1732	+ve	6.219	11.412	0.113	2.623	0.119	18.230
			28:COM1	20:COM7	28:COM1	20:COM7	20:COM7	34:CVOL
			-9.923	0.000	-0.175	-1.803	-0.066	0.000
			22:COM9	-	22:COM9	30:COM1	30:COM1	-
	1932	-ve	6.219	10.582	0.113	2.623	0.137	12.044
			28:COM1	20:COM7	28:COM1	20:COM7	28:COM1	20:COM7
			-9.923	-0.427	-0.175	-1.803	-0.196	-7.628
			22:COM9	30:COM1	22:COM9	30:COM1	22:COM9	30:COM1
3614	1736	+ve	10.127	46.933	0.166	7.798	2.489	79.296
			16:COM3	16:COM3	28:COM1	34:CVOL	20:COM7	16:COM3
			-6.556	0.000	-2.076	0.000	-0.391	-24.846
			26:COM1	-	22:COM9	-	30:COM1	26:COM1
	1737	-ve	10.127	44.210	0.166	7.798	0.000	6.094
			16:COM3	16:COM3	28:COM1	34:CVOL	-	24:COM1
			-6.556	0.000	-2.076	0.000	-1.601	-60.959
			26:COM1	-	22:COM9	-	22:COM9	18:COM5
3615	1724	+ve	8.453	15.659	0.000	0.100	0.186	43.515
			16:COM3	34:CVOL	-	28:COM1	16:COM3	16:COM3
			-8.843	0.000	-0.217	-0.691	0.000	0.000
			26:COM1	-	18:COM5	22:COM9	-	-
	1938	-ve	8.453	13.898	0.000	0.100	0.019	17.711
			16:COM3	34:CVOL	-	28:COM1	28:COM1	16:COM3
			-8.843	0.000	-0.217	-0.691	-0.228	-3.234
			26:COM1	-	18:COM5	22:COM9	22:COM9	26:COM1
3616	1733	+ve	6.131	4.978	6.086	6.002	1.626	26.372
			28:COM1	28:COM1	20:COM7	24:COM1	20:COM7	16:COM3
			-14.596	-26.336	-4.367	-14.813	-0.660	-6.189
			22:COM9	22:COM9	30:COM1	18:COM5	30:COM1	26:COM1
	1725	-ve	6.131	4.869	6.086	6.002	1.659	34.377
			28:COM1	28:COM1	20:COM7	24:COM1	20:COM7	20:COM7
			-14.596	-26.481	-4.367	-14.813	-0.154	-7.450
			22:COM9	22:COM9	30:COM1	18:COM5	30:COM1	30:COM1
3617	1734	+ve	10.942	1.123	1.592	7.985	2.532	0.000
			28:COM1	28:COM1	28:COM1	20:COM7	20:COM7	-
			-19.396	-5.630	-8.473	-2.817	-0.588	-22.650
			22:COM9	22:COM9	22:COM9	30:COM1	30:COM1	22:COM9
	1941	-ve	10.942	0.919	1.592	7.985	0.358	0.000
			28:COM1	28:COM1	28:COM1	20:COM7	28:COM1	-
			-19.396	-5.902	-8.473	-2.817	-2.477	-19.598
			22:COM9	22:COM9	22:COM9	30:COM1	22:COM9	18:COM5
3618	1735	+ve	3.238	4.173	0.396	1.627	0.487	9.556
			24:COM1	28:COM1	28:COM1	20:COM7	20:COM7	16:COM3
			-6.717	-17.562	-0.699	-0.881	-0.304	-8.247
			18:COM5	22:COM9	22:COM9	30:COM1	30:COM1	26:COM1
	2000	-ve	3.238	3.693	0.396	1.627	0.247	24.015
			24:COM1	28:COM1	28:COM1	20:COM7	28:COM1	16:COM3
			-6.717	-18.203	-0.699	-0.881	-0.485	-3.325
			18:COM5	22:COM9	22:COM9	30:COM1	22:COM9	26:COM1

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
3619	1737	+ve	9.965	27.577	0.027	1.061	0.130	6.215
			24:COM1	16:COM3	24:COM1	28:COM1	24:COM1	24:COM1
			-9.710	0.000	-0.200	-1.759	-0.084	-60.860
			18:COM5	-	18:COM5	35:CVOL	18:COM5	18:COM5
	1738	-ve	9.965	24.855	0.027	1.061	0.001	0.000
			24:COM1	16:COM3	24:COM1	28:COM1	24:COM1	-
			-9.710	-0.501	-0.200	-1.759	-0.294	-82.870
			18:COM5	26:COM1	18:COM5	35:CVOL	18:COM5	34:CVOL
3620	1738	+ve	9.159	9.630	0.102	0.000	0.043	0.000
			24:COM1	16:COM3	20:COM7	-	28:COM1	-
			-9.826	-7.796	-0.108	-5.258	-0.192	-82.469
			18:COM5	26:COM1	30:COM1	18:COM5	22:COM9	34:CVOL
	1739	-ve	9.159	7.456	0.102	0.000	0.052	0.000
			24:COM1	24:COM1	20:COM7	-	28:COM1	-
			-9.826	-10.387	-0.108	-5.258	-0.212	-81.499
			18:COM5	18:COM5	30:COM1	18:COM5	22:COM9	34:CVOL
3621	1739	+ve	8.928	0.535	0.345	0.000	0.097	0.000
			24:COM1	24:COM1	20:COM7	-	28:COM1	-
			-8.082	-24.657	-0.175	-6.289	-0.366	-81.299
			18:COM5	18:COM5	30:COM1	34:CVOL	22:COM9	34:CVOL
	1740	-ve	8.928	0.000	0.345	0.000	0.324	7.596
			24:COM1	-	20:COM7	-	28:COM1	24:COM1
			-8.082	-27.380	-0.175	-6.289	-0.259	-60.890
			18:COM5	18:COM5	30:COM1	34:CVOL	22:COM9	18:COM5
3622	1740	+ve	10.664	0.000	1.271	0.000	0.000	7.564
			16:COM3	-	34:CVOL	-	-	24:COM1
			-6.320	-41.775	0.000	-6.804	-1.092	-60.800
			26:COM1	18:COM5	-	34:CVOL	34:CVOL	18:COM5
	1741	-ve	10.664	0.000	1.271	0.000	1.443	76.695
			16:COM3	-	34:CVOL	-	16:COM3	16:COM3
			-6.320	-44.498	0.000	-6.804	0.000	-27.600
			26:COM1	18:COM5	-	34:CVOL	-	26:COM1
3623	1741	+ve	19.133	0.000	3.654	0.000	0.000	76.733
			16:COM3	-	20:COM7	-	-	16:COM3
			-3.069	-59.028	0.000	-8.145	-3.683	-27.678
			26:COM1	18:COM5	-	32:CVOL1	22:COM9	26:COM1
	1660	-ve	19.133	0.000	3.654	0.000	3.514	195.515
			16:COM3	-	20:COM7	-	20:COM7	16:COM3
			-3.069	-61.750	0.000	-8.145	0.000	0.000
			26:COM1	18:COM5	-	32:CVOL1	-	-
3624	1742	+ve	26.527	44.175	0.039	3.823	1.718	83.066
			16:COM3	16:COM3	28:COM1	32:CVOL1	20:COM7	16:COM3
			-18.086	0.000	-1.541	-1.629	-0.093	-30.295
			26:COM1	-	22:COM9	35:CVOL	30:COM1	26:COM1
	1743	-ve	26.527	41.445	0.039	3.823	0.000	12.481
			16:COM3	16:COM3	28:COM1	32:CVOL1	-	24:COM1
			-18.086	0.000	-1.541	-1.629	-1.337	-59.861
			26:COM1	-	22:COM9	35:CVOL	22:COM9	18:COM5

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
3625	1743	+ve	25.412	27.440	0.131	2.927	0.050	12.574
			16:COM3	16:COM3	20:COM7	16:COM3	28:COM15	24:COM1
			-20.215	0.000	-0.144	-0.977	-0.119	-59.813
			26:COM1	-	30:COM1	26:COM1	22:COM9	18:COM5
	1744	-ve	25.412	24.710	0.131	2.927	0.155	0.000
			16:COM3	16:COM3	20:COM7	16:COM3	20:COM7	-
			-20.215	-1.110	-0.144	-0.977	-0.249	-75.664
			26:COM1	26:COM1	30:COM1	26:COM1	30:COM1	34:CVOL3
3626	1744	+ve	25.129	11.267	0.287	3.868	0.010	0.000
			16:COM3	16:COM3	20:COM7	16:COM3	28:COM15	-
			-20.753	-7.427	-0.128	-1.510	-0.274	-75.698
			26:COM1	26:COM1	30:COM1	26:COM1	22:COM9	34:CVOL3
	1745	-ve	25.129	8.536	0.287	3.868	0.305	0.000
			16:COM3	16:COM3	20:COM7	16:COM3	20:COM7	-
			-20.753	-9.475	-0.128	-1.510	-0.257	-77.804
			26:COM1	26:COM1	30:COM1	26:COM1	30:COM1	34:CVOL3
3627	1745	+ve	27.809	1.727	0.425	2.844	0.003	0.000
			16:COM3	24:COM11	20:COM7	16:COM3	28:COM15	-
			-21.273	-22.967	-0.125	-1.591	-0.347	-77.957
			26:COM1	18:COM5	30:COM1	26:COM1	22:COM9	34:CVOL3
	1746	-ve	27.809	0.000	0.425	2.844	0.511	5.006
			16:COM3	-	20:COM7	16:COM3	28:COM15	24:COM1
			-21.273	-25.697	-0.125	-1.591	-0.263	-59.997
			26:COM1	18:COM5	30:COM1	26:COM1	22:COM9	18:COM5
3628	1746	+ve	36.107	0.000	1.493	0.930	0.069	4.840
			16:COM3	-	20:COM7	35:CVOL4	28:COM15	24:COM1
			-24.002	-40.442	-0.135	-4.617	-1.268	-60.105
			26:COM1	18:COM5	30:COM1	32:CVOL1	22:COM9	18:COM5
	1747	-ve	36.107	0.000	1.493	0.930	1.682	71.426
			16:COM3	-	20:COM7	35:CVOL4	20:COM7	16:COM3
			-24.002	-43.173	-0.135	-4.617	-0.202	-28.149
			26:COM1	18:COM5	30:COM1	32:CVOL1	30:COM1	26:COM1
3629	1747	+ve	51.409	0.000	6.143	0.000	1.488	71.387
			16:COM3	-	20:COM7	-	28:COM15	16:COM3
			-28.583	-59.208	-1.572	-10.833	-5.682	-28.187
			26:COM1	18:COM5	30:COM1	32:CVOL1	22:COM9	26:COM1
	1661	-ve	51.409	0.000	6.143	0.000	6.442	190.889
			16:COM3	-	20:COM7	-	20:COM7	16:COM3
			-28.583	-61.938	-1.572	-10.833	-1.617	0.000
			26:COM1	18:COM5	30:COM1	32:CVOL1	30:COM1	-
3630	1748	+ve	12.966	25.530	0.708	7.004	0.141	46.242
			20:COM7	16:COM3	20:COM7	20:COM7	28:COM15	16:COM3
			-8.803	0.000	-0.026	0.000	-0.685	-29.636
			30:COM1	-	30:COM1	-	22:COM9	26:COM1
	1749	-ve	12.966	23.282	0.708	7.004	0.716	5.288
			20:COM7	16:COM3	20:COM7	20:COM7	16:COM3	24:COM1
			-8.803	-0.755	-0.026	0.000	0.000	-36.445
			30:COM1	26:COM1	30:COM1	-	-	18:COM5

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
3631	1749	+ve	12.490	15.425	0.164	3.010	0.178	5.407
			20:COM7	16:COM3	16:COM3	16:COM3	16:COM3	24:COM1
			-7.827	-4.801	-0.119	-0.186	-0.089	-36.388
			30:COM1	26:COM1	26:COM1	26:COM1	26:COM1	18:COM5
	1750	-ve	12.490	13.177	0.164	3.010	0.250	0.000
			20:COM7	16:COM3	16:COM3	16:COM3	16:COM3	-
			-7.827	-6.488	-0.119	-0.186	-0.072	-31.517
			30:COM1	26:COM1	26:COM1	26:COM1	26:COM1	35:CVOL4
3632	1750	+ve	11.853	7.267	0.162	0.000	0.163	0.000
			20:COM7	24:COM1	16:COM3	-	16:COM3	-
			-7.520	-11.801	-0.124	-3.115	-0.071	-31.518
			30:COM1	18:COM5	26:COM1	18:COM5	26:COM1	35:CVOL4
	1751	-ve	11.853	5.580	0.162	0.000	0.255	3.843
			20:COM7	24:COM1	16:COM3	-	16:COM3	24:COM1
			-7.520	-14.050	-0.124	-3.115	-0.089	-39.026
			30:COM1	18:COM5	26:COM1	18:COM5	26:COM1	18:COM5
3633	1751	+ve	11.505	1.523	0.067	0.000	0.850	3.723
			20:COM7	24:COM1	28:COM1	-	20:COM7	24:COM1
			-8.022	-21.903	-1.012	-6.977	0.000	-39.087
			30:COM1	18:COM5	22:COM9	22:COM9	-	18:COM5
	1752	-ve	11.505	0.000	0.067	0.000	0.227	40.820
			20:COM7	-	28:COM1	-	28:COM1	16:COM3
			-8.022	-24.151	-1.012	-6.977	-1.132	-32.606
			30:COM1	18:COM5	22:COM9	22:COM9	22:COM9	26:COM1
3634	1752	+ve	7.948	0.000	0.000	0.000	2.685	40.528
			20:COM7	-	-	-	16:COM3	16:COM3
			-6.243	-37.518	-3.161	-11.113	0.000	-32.692
			30:COM1	18:COM5	18:COM5	18:COM5	-	26:COM1
	1653	-ve	7.948	0.000	0.000	0.000	0.000	115.843
			20:COM7	-	-	-	-	16:COM3
			-6.243	-39.767	-3.161	-11.113	-3.482	-25.772
			30:COM1	18:COM5	18:COM5	18:COM5	18:COM5	26:COM1
3635	1753	+ve	16.926	27.141	2.787	19.146	0.226	38.340
			28:COM1	16:COM3	16:COM3	20:COM7	24:COM1	24:COM1
			-29.934	-0.523	-0.066	-1.955	-3.264	-37.174
			22:COM9	26:COM1	26:COM1	30:COM1	18:COM5	18:COM5
	1754	-ve	16.926	24.892	2.787	19.146	2.179	0.000
			28:COM1	16:COM3	16:COM3	20:COM7	16:COM3	-
			-29.934	-2.210	-0.066	-1.955	0.000	-45.349
			22:COM9	26:COM1	26:COM1	30:COM1	-	18:COM5
3636	1754	+ve	14.774	13.477	0.324	13.124	0.376	0.000
			28:COM1	16:COM3	16:COM3	20:COM7	16:COM3	-
			-21.871	-6.423	-0.244	-3.072	-0.282	-44.955
			22:COM9	26:COM1	26:COM1	30:COM1	26:COM1	18:COM5
	1755	-ve	14.774	11.228	0.324	13.124	0.374	0.000
			28:COM1	16:COM3	16:COM3	20:COM7	16:COM3	-
			-21.871	-8.110	-0.244	-3.072	-0.124	-38.133
			22:COM9	26:COM1	26:COM1	30:COM1	26:COM1	34:CVOL3

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
3637	1755	+ve	13.900	5.605	0.169	6.543	0.322	0.000
			28:COM15	24:COM11	24:COM11	20:COM7	16:COM3	-
			-17.577	-13.985	-0.260	-4.297	-0.099	-37.997
			22:COM9	18:COM5	18:COM5	30:COM17	26:COM13	34:CVOL3
	1756	-ve	13.900	3.918	0.169	6.543	0.243	4.819
			28:COM15	24:COM11	24:COM11	20:COM7	16:COM3	24:COM17
			-17.577	-16.234	-0.260	-4.297	-0.198	-40.803
			22:COM9	18:COM5	18:COM5	30:COM17	26:COM13	18:COM5
3638	1756	+ve	13.115	0.000	0.454	2.817	0.910	4.770
			28:COM15	-	28:COM15	28:COM15	20:COM7	24:COM17
			-15.037	-23.971	-1.042	-7.689	-0.174	-40.832
			22:COM9	18:COM5	22:COM9	22:COM9	30:COM17	18:COM5
	1757	-ve	13.115	0.000	0.454	2.817	0.715	45.662
			28:COM15	-	28:COM15	28:COM15	28:COM15	16:COM3
			-15.037	-26.219	-1.042	-7.689	-1.125	-30.822
			22:COM9	18:COM5	22:COM9	22:COM9	22:COM9	26:COM13
3639	1757	+ve	10.546	0.000	0.000	0.912	2.056	45.455
			28:COM15	-	-	28:COM15	20:COM7	16:COM3
			-10.320	-39.356	-2.132	-11.598	0.000	-30.909
			22:COM9	18:COM5	18:COM5	22:COM9	-	26:COM13
	1652	-ve	10.546	0.000	0.000	0.912	0.000	124.281
			28:COM15	-	-	28:COM15	-	16:COM3
			-10.320	-41.604	-2.132	-11.598	-2.204	-20.515
			22:COM9	18:COM5	18:COM5	22:COM9	18:COM5	26:COM13
3640	1758	+ve	13.754	25.260	1.094	7.056	0.168	44.677
			20:COM7	16:COM3	20:COM7	20:COM7	28:COM15	16:COM3
			-9.108	0.000	-0.032	0.000	-1.217	-30.493
			30:COM17	-	30:COM17	-	22:COM9	26:COM13
	1759	-ve	13.754	23.011	1.094	7.056	0.929	4.661
			20:COM7	16:COM3	20:COM7	20:COM7	20:COM7	24:COM17
			-9.108	-0.944	-0.032	0.000	0.000	-37.345
			30:COM17	26:COM13	30:COM17	-	-	18:COM5
3641	1759	+ve	14.752	15.105	0.120	3.145	0.217	4.786
			20:COM7	16:COM3	24:COM11	16:COM3	16:COM3	24:COM17
			-8.248	-5.027	-0.138	-0.011	-0.057	-37.278
			30:COM17	26:COM13	18:COM5	26:COM13	26:COM13	18:COM5
	1760	-ve	14.752	12.856	0.120	3.145	0.195	0.000
			20:COM7	16:COM3	24:COM11	16:COM3	16:COM3	-
			-8.248	-6.714	-0.138	-0.011	-0.071	-31.836
			30:COM17	26:COM13	18:COM5	26:COM13	26:COM13	35:CVOL4
3642	1760	+ve	15.800	7.094	0.113	0.059	0.216	0.000
			20:COM7	24:COM11	24:COM11	24:COM17	16:COM3	-
			-7.963	-12.168	-0.135	-2.885	-0.034	-31.829
			30:COM17	18:COM5	18:COM5	18:COM5	26:COM13	35:CVOL4
	1761	-ve	15.800	5.407	0.113	0.059	0.222	4.233
			20:COM7	24:COM11	24:COM11	24:COM17	16:COM3	24:COM17
			-7.963	-14.416	-0.135	-2.885	-0.082	-38.799
			30:COM17	18:COM5	18:COM5	18:COM5	26:COM13	18:COM5

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
3643	1761	+ve	16.617	1.382	0.090	0.000	0.709	4.120
			20:COM7	24:COM11	28:COM15	-	20:COM7	24:COM11
			-8.491	-22.226	-0.710	-6.761	0.000	-38.850
			30:COM17	18:COM5	22:COM9	22:COM9	-	18:COM5
	1762	-ve	16.617	0.000	0.090	0.000	0.262	42.015
			20:COM7	-	28:COM15	-	28:COM15	16:COM3
			-8.491	-24.474	-0.710	-6.761	-0.685	-32.263
			30:COM17	18:COM5	22:COM9	22:COM9	22:COM9	26:COM13
3644	1762	+ve	16.399	0.000	0.000	0.000	2.469	41.735
			16:COM3	-	-	-	16:COM3	16:COM3
			-7.275	-37.642	-2.764	-10.949	0.000	-32.344
			26:COM13	18:COM5	18:COM5	18:COM5	-	26:COM13
	1654	-ve	16.399	0.000	0.000	0.000	0.000	117.266
			16:COM3	-	-	-	-	16:COM3
			-7.275	-39.891	-2.764	-10.949	-2.924	-25.532
			26:COM13	18:COM5	18:COM5	18:COM5	18:COM5	26:COM13
3645	1763	+ve	24.336	26.849	1.014	8.332	0.676	49.322
			16:COM3	16:COM3	20:COM7	20:COM7	28:COM15	16:COM3
			-15.739	0.000	-0.436	-2.230	-1.020	-30.052
			26:COM13	-	30:COM17	30:COM17	22:COM9	26:COM13
	1764	-ve	24.336	24.600	1.014	8.332	0.969	6.276
			16:COM3	16:COM3	20:COM7	20:COM7	20:COM7	24:COM11
			-15.739	0.000	-0.436	-2.230	-0.187	-39.267
			26:COM13	-	30:COM17	30:COM17	30:COM17	18:COM5
3646	1764	+ve	25.002	16.793	0.202	4.777	0.281	6.351
			20:COM7	16:COM3	28:COM15	28:COM15	20:COM7	24:COM11
			-18.025	-3.864	-0.215	-5.279	-0.099	-39.213
			30:COM17	26:COM13	22:COM9	22:COM9	30:COM17	18:COM5
	1765	-ve	25.002	14.544	0.202	4.777	0.323	0.000
			20:COM7	16:COM3	28:COM15	28:COM15	20:COM7	-
			-18.025	-5.551	-0.215	-5.279	-0.165	-36.463
			30:COM17	26:COM13	22:COM9	22:COM9	30:COM17	34:CVOL3
3647	1765	+ve	25.187	8.471	0.100	3.874	0.286	0.000
			20:COM7	24:COM11	28:COM15	28:COM15	16:COM3	-
			-20.920	-10.969	-0.214	-11.239	0.000	-36.552
			30:COM17	18:COM5	22:COM9	22:COM9	-	34:CVOL3
	1766	-ve	25.187	6.784	0.100	3.874	0.316	0.000
			20:COM7	24:COM11	28:COM15	28:COM15	20:COM7	-
			-20.920	-13.218	-0.214	-11.239	-0.210	-44.776
			30:COM17	18:COM5	22:COM9	22:COM9	30:COM17	18:COM5
3648	1766	+ve	25.721	2.445	0.000	3.336	1.167	0.000
			20:COM7	24:COM11	-	28:COM15	20:COM7	-
			-22.684	-24.155	-1.313	-16.405	0.000	-45.118
			30:COM17	18:COM5	18:COM5	22:COM9	-	18:COM5
	1767	-ve	25.721	0.759	0.000	3.336	0.000	38.042
			20:COM7	24:COM11	-	28:COM15	-	24:COM11
			-22.684	-26.404	-1.313	-16.405	-1.608	-37.863
			30:COM17	18:COM5	18:COM5	22:COM9	22:COM9	18:COM5

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
3649	1767	+ve	24.452	0.000	0.209	16.273	2.856	41.410
			24:COM1	-	28:COM1	20:COM7	20:COM7	16:COM3
			-26.719	-42.359	-3.309	-15.715	-0.325	-36.360
			18:COM5	18:COM5	22:COM9	30:COM1	30:COM1	26:COM1
	1655	-ve	24.452	0.000	0.209	16.273	0.095	123.553
			24:COM1	-	28:COM1	20:COM7	28:COM1	16:COM3
			-26.719	-44.608	-3.309	-15.715	-3.608	-12.165
			18:COM5	18:COM5	22:COM9	30:COM1	22:COM9	26:COM1
3650	5721	+ve	31.856	29.445	2.642	6.130	1.485	31.234
			24:COM1	20:COM7	16:COM3	20:COM7	24:COM1	20:COM7
			-91.268	-17.313	-2.256	-2.313	-2.828	-26.737
			18:COM5	30:COM1	26:COM1	30:COM1	18:COM5	30:COM1
	1664	-ve	31.856	26.146	2.642	6.130	2.414	8.681
			24:COM1	20:COM7	16:COM3	20:COM7	24:COM1	28:COM1
			-91.268	-19.787	-2.256	-2.313	-3.021	-21.817
			18:COM5	30:COM1	26:COM1	30:COM1	18:COM5	22:COM9
3652	1770	+ve	114.151	182.757	0.484	4.399	2.671	90.559
			28:COM1	28:COM1	24:COM1	20:COM7	16:COM3	20:COM7
			-128.215	-231.333	-3.393	-1.922	-1.269	-65.976
			22:COM9	22:COM9	18:COM5	30:COM1	26:COM1	30:COM1
	5727	-ve	114.151	181.810	0.484	4.399	0.895	259.886
			28:COM1	28:COM1	24:COM1	20:COM7	28:COM1	20:COM7
			-128.215	-232.596	-3.393	-1.922	-1.617	-199.037
			22:COM9	22:COM9	18:COM5	30:COM1	22:COM9	30:COM1
3653	1771	+ve	136.385	61.446	6.937	2.978	1.529	119.924
			20:COM7	28:COM1	20:COM7	28:COM1	28:COM1	28:COM1
			-125.049	-94.850	-2.157	-10.203	-6.325	-143.312
			30:COM1	22:COM9	30:COM1	22:COM9	22:COM9	22:COM9
	1659	-ve	136.385	58.861	6.937	2.978	7.501	306.005
			20:COM7	28:COM1	20:COM7	28:COM1	20:COM7	20:COM7
			-125.049	-98.298	-2.157	-10.203	-2.773	-256.816
			30:COM1	22:COM9	30:COM1	22:COM9	30:COM1	30:COM1
3654	1772	+ve	69.831	70.868	3.241	0.457	1.255	0.000
			28:COM1	28:COM1	16:COM3	28:COM1	24:COM1	-
			-75.529	-77.422	-1.384	-4.822	-3.323	-36.809
			22:COM9	22:COM9	26:COM1	22:COM9	18:COM5	22:COM9
	1771	-ve	69.831	68.283	3.241	0.457	3.172	126.914
			28:COM1	28:COM1	16:COM3	28:COM1	16:COM3	28:COM1
			-75.529	-80.869	-1.384	-4.822	-1.537	-148.770
			22:COM9	22:COM9	26:COM1	22:COM9	26:COM1	22:COM9
3665	1783	+ve	19.494	72.858	0.290	4.247	1.074	77.566
			24:COM1	16:COM3	28:COM1	20:COM7	16:COM3	16:COM3
			-53.432	-64.056	-2.531	-1.470	0.000	-66.422
			18:COM5	26:COM1	22:COM9	30:COM1	-	26:COM1
	1647	-ve	19.494	70.637	0.290	4.247	0.860	17.541
			24:COM1	16:COM3	28:COM1	20:COM7	28:COM1	16:COM3
			-53.432	-65.722	-2.531	-1.470	-2.497	-15.204
			18:COM5	26:COM1	22:COM9	30:COM1	22:COM9	26:COM1

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
3666	1784	+ve	80.155	139.372	1.079	21.245	0.405	184.981
			16:COM3	24:COM11	16:COM3	20:COM7	24:COM11	16:COM3
			-40.229	-173.017	-0.396	-20.513	-0.944	-183.974
			26:COM13	18:COM5	26:COM13	30:COM17	18:COM5	26:COM13
	5375	-ve	80.155	138.205	1.079	21.245	0.741	341.375
			16:COM3	24:COM11	16:COM3	20:COM7	16:COM3	16:COM3
			-40.229	-174.574	-0.396	-20.513	-0.665	-308.863
			26:COM13	18:COM5	26:COM13	30:COM17	26:COM13	26:COM13
3667	1785	+ve	79.283	144.878	3.344	4.136	4.152	98.611
			16:COM3	24:COM11	28:COM15	20:COM7	20:COM7	24:COM11
			-60.544	-148.289	-3.778	-3.249	-2.997	-108.082
			26:COM13	18:COM5	22:COM9	30:COM17	30:COM17	18:COM5
	1784	-ve	79.283	142.316	3.344	4.136	3.682	188.152
			16:COM3	24:COM11	28:COM15	20:COM7	20:COM7	16:COM3
			-60.544	-151.706	-3.778	-3.249	-3.384	-184.984
			26:COM13	18:COM5	22:COM9	30:COM17	30:COM17	26:COM13
3668	1786	+ve	68.799	17.552	4.373	5.510	4.576	0.000
			24:COM17	24:COM11	16:COM3	24:COM17	24:COM11	-
			-118.443	-22.129	-3.611	-7.001	-5.473	-10.127
			18:COM5	18:COM5	26:COM13	18:COM5	18:COM5	18:COM5
	1648	-ve	68.799	14.909	4.373	5.510	3.558	39.202
			24:COM17	24:COM11	16:COM3	24:COM17	16:COM3	16:COM3
			-118.443	-25.653	-3.611	-7.001	-2.902	-34.374
			18:COM5	18:COM5	26:COM13	18:COM5	26:COM13	26:COM13
3669	1787	+ve	0.000	5.233	2.118	2.542	1.382	8.123
			-	16:COM3	20:COM7	28:COM15	28:COM15	16:COM3
			-31.823	-1.546	-1.256	-3.152	-2.252	-4.739
			18:COM5	26:COM13	30:COM17	22:COM9	22:COM9	26:COM13
	1786	-ve	0.000	2.060	2.118	2.542	2.225	2.478
			-	24:COM11	20:COM7	28:COM15	16:COM3	20:COM7
			-31.823	-4.340	-1.256	-3.152	-1.396	-0.482
			18:COM5	18:COM5	30:COM17	22:COM9	26:COM13	30:COM17
3670	1731	+ve	6.053	47.585	0.555	0.000	2.459	26.247
			28:COM15	28:COM15	28:COM15	-	20:COM7	28:COM15
			-11.741	-52.852	-1.259	-9.658	-0.993	-38.645
			22:COM9	22:COM9	22:COM9	22:COM9	30:COM17	22:COM9
	1655	-ve	6.053	41.505	0.555	0.000	1.102	178.098
			28:COM15	28:COM15	28:COM15	-	28:COM15	20:COM7
			-11.741	-62.314	-1.259	-9.658	-2.287	-141.431
			22:COM9	22:COM9	22:COM9	22:COM9	22:COM9	30:COM17
3671	1789	+ve	3.243	26.046	2.585	24.215	4.643	19.921
			24:COM17	24:COM11	28:COM15	20:COM7	20:COM7	24:COM11
			-6.382	-38.772	-4.511	-22.273	-2.634	-43.253
			18:COM5	18:COM5	22:COM9	30:COM17	30:COM17	18:COM5
	1651	-ve	3.243	24.171	2.585	24.215	2.972	92.665
			24:COM17	24:COM11	28:COM15	20:COM7	28:COM15	16:COM3
			-6.382	-41.272	-4.511	-22.273	-5.138	-83.668
			18:COM5	18:COM5	22:COM9	30:COM17	22:COM9	26:COM13

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
3672	1790	+ve	0.030	34.915	0.899	6.995	0.717	34.417
			24:COM1	16:COM3	20:COM7	20:COM7	28:COM1	24:COM1
			-8.284	-22.958	-0.714	-5.856	-1.046	-36.685
			18:COM5	26:COM1	30:COM1	30:COM1	22:COM9	18:COM5
	1789	-ve	0.030	32.415	0.899	6.995	0.905	20.333
			24:COM1	16:COM3	20:COM7	20:COM7	20:COM7	24:COM1
			-8.284	-24.833	-0.714	-5.856	-0.832	-43.779
			18:COM5	26:COM1	30:COM1	30:COM1	30:COM1	18:COM5
3673	1795	+ve	18.125	42.340	0.000	10.921	1.704	55.580
			16:COM3	20:COM7	-	20:COM7	16:COM3	16:COM3
			-8.192	-15.947	-1.706	0.000	0.000	-46.459
			26:COM1	30:COM1	18:COM5	-	-	26:COM1
	1796	-ve	18.125	39.744	0.000	10.921	0.000	0.000
			16:COM3	20:COM7	-	20:COM7	-	-
			-8.192	-17.894	-1.706	0.000	-1.502	-27.942
			26:COM1	30:COM1	18:COM5	-	18:COM5	34:CVOL3
3674	1796	+ve	13.945	26.278	0.233	4.783	0.506	0.000
			16:COM3	24:COM1	28:COM1	20:COM7	20:COM7	-
			-7.200	-25.843	-0.594	-0.643	-0.391	-28.260
			26:COM1	18:COM5	22:COM9	30:COM1	30:COM1	34:CVOL3
	1797	-ve	13.945	24.331	0.233	4.783	0.052	34.289
			16:COM3	24:COM1	28:COM1	20:COM7	28:COM1	28:COM1
			-7.200	-28.439	-0.594	-0.643	-0.615	-67.353
			26:COM1	18:COM5	22:COM9	30:COM1	22:COM9	22:COM9
3675	1797	+ve	12.804	17.568	0.984	0.000	0.018	34.295
			16:COM3	24:COM1	20:COM7	-	28:COM1	28:COM1
			-8.971	-44.924	-0.106	-12.069	-0.912	-67.663
			26:COM1	18:COM5	30:COM1	22:COM9	22:COM9	22:COM9
	1640	-ve	12.804	15.621	0.984	0.000	0.944	110.797
			16:COM3	24:COM1	20:COM7	-	20:COM7	16:COM3
			-8.971	-47.520	-0.106	-12.069	-0.191	-88.589
			26:COM1	18:COM5	30:COM1	22:COM9	30:COM1	26:COM1
3676	1798	+ve	35.313	26.421	0.194	2.522	0.599	6.940
			20:COM7	24:COM1	28:COM1	20:COM7	16:COM3	24:COM1
			-32.090	-32.112	-0.262	-1.366	-0.499	-23.508
			30:COM1	18:COM5	22:COM9	30:COM1	26:COM1	18:COM5
	1655	-ve	35.313	23.762	0.194	2.522	0.308	106.741
			20:COM7	24:COM1	28:COM1	20:COM7	28:COM1	16:COM3
			-32.090	-35.656	-0.262	-1.366	-0.472	-89.530
			30:COM1	18:COM5	22:COM9	30:COM1	22:COM9	26:COM1
3677	1799	+ve	7.165	35.389	0.000	0.000	0.334	42.304
			20:COM7	16:COM3	-	-	20:COM7	24:COM1
			-2.895	-23.363	-0.571	-10.119	-0.002	-59.351
			30:COM1	26:COM1	18:COM5	18:COM5	30:COM1	18:COM5
	1800	-ve	7.165	32.776	0.000	0.000	0.000	0.000
			20:COM7	16:COM3	-	-	-	-
			-2.895	-25.322	-0.571	-10.119	-0.829	-33.109
			30:COM1	26:COM1	18:COM5	18:COM5	18:COM5	22:COM9

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
3678	1800	+ve	4.552	20.199	0.828	0.000	0.471	0.000
			20:COM7	24:COM11	16:COM3	-	24:COM11	-
			-3.364	-28.895	-0.638	-9.130	-0.350	-33.335
			30:COM17	18:COM5	26:COM13	18:COM5	18:COM5	22:COM9
	1801	-ve	4.552	18.239	0.828	0.000	1.239	44.478
			20:COM7	24:COM11	16:COM3	-	16:COM3	24:COM17
			-3.364	-31.507	-0.638	-9.130	-0.759	-58.441
			30:COM17	18:COM5	26:COM13	18:COM5	26:COM13	18:COM5
3679	1801	+ve	10.924	8.425	0.000	8.241	2.578	46.750
			20:COM7	24:COM11	-	24:COM17	20:COM7	24:COM17
			-1.716	-28.577	-2.353	-9.052	0.000	-57.633
			30:COM17	18:COM5	22:COM9	18:COM5	-	18:COM5
	1802	-ve	10.924	6.465	0.000	8.241	0.000	99.959
			20:COM7	24:COM11	-	24:COM17	-	16:COM3
			-1.716	-31.189	-2.353	-9.052	-1.963	-68.486
			30:COM17	18:COM5	22:COM9	18:COM5	34:CVOL3	26:COM13
3680	1802	+ve	10.791	4.252	8.569	26.678	0.290	103.953
			20:COM7	24:COM11	20:COM7	16:COM3	28:COM15	16:COM3
			0.000	-40.721	-2.966	-16.896	-0.488	-69.245
			-	18:COM5	30:COM17	26:COM13	22:COM9	26:COM13
	1663	-ve	10.791	3.711	8.569	26.678	4.003	125.044
			20:COM7	24:COM11	20:COM7	16:COM3	20:COM7	16:COM3
			0.000	-41.443	-2.966	-16.896	-1.281	-70.994
			-	18:COM5	30:COM17	26:COM13	30:COM17	26:COM13
3681	1803	+ve	4.194	33.515	0.385	6.380	0.104	40.595
			28:COM15	16:COM3	20:COM7	20:COM7	28:COM15	20:COM7
			-7.943	-3.265	-0.103	-2.786	-0.369	-36.173
			22:COM9	26:COM13	30:COM17	30:COM17	22:COM9	30:COM17
	1804	-ve	4.194	31.422	0.385	6.380	0.341	0.000
			28:COM15	16:COM3	20:COM7	20:COM7	20:COM7	-
			-7.943	-4.835	-0.103	-2.786	-0.096	-44.724
			22:COM9	26:COM13	30:COM17	30:COM17	30:COM17	22:COM9
3682	1804	+ve	3.882	17.108	0.534	4.253	0.115	0.000
			28:COM15	20:COM7	20:COM7	16:COM3	28:COM15	-
			-7.307	-12.107	0.000	-1.858	-0.316	-44.804
			22:COM9	30:COM17	-	26:COM13	22:COM9	22:COM9
	1805	-ve	3.882	15.015	0.534	4.253	0.770	0.000
			28:COM15	20:COM7	20:COM7	16:COM3	16:COM3	-
			-7.307	-13.677	0.000	-1.858	0.000	-47.018
			22:COM9	30:COM17	-	26:COM13	-	18:COM5
3683	1805	+ve	4.936	8.376	1.607	3.021	0.000	0.000
			28:COM15	28:COM15	20:COM7	28:COM15	-	-
			-6.533	-29.512	0.000	-3.674	-1.258	-47.089
			22:COM9	22:COM9	-	22:COM9	22:COM9	18:COM5
	1806	-ve	4.936	6.806	1.607	3.021	1.737	34.819
			28:COM15	28:COM15	20:COM7	28:COM15	20:COM7	28:COM15
			-6.533	-31.605	0.000	-3.674	0.000	-45.982
			22:COM9	22:COM9	-	22:COM9	-	22:COM9

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
3684	1806	+ve	4.537	1.067	1.202	7.513	0.000	34.247
			28:COM1	28:COM1	20:COM7	28:COM1	-	28:COM1
			-6.201	-50.919	-0.173	-11.645	-1.292	-45.961
			22:COM9	22:COM9	30:COM1	22:COM9	22:COM9	22:COM9
	1642	-ve	4.537	0.000	1.202	7.513	1.072	132.170
			28:COM1	-	20:COM7	28:COM1	20:COM7	20:COM7
			-6.201	-53.159	-0.173	-11.645	-0.385	-43.241
			22:COM9	22:COM9	30:COM1	22:COM9	30:COM1	30:COM1
3685	1808	+ve	2.197	16.266	1.785	5.934	0.000	12.986
			28:COM1	28:COM1	16:COM3	20:COM7	-	28:COM1
			-28.191	-17.688	0.000	-2.770	-2.562	-29.769
			22:COM9	22:COM9	-	30:COM1	18:COM5	22:COM9
	1663	-ve	2.197	12.448	1.785	5.934	2.163	63.712
			28:COM1	28:COM1	16:COM3	20:COM7	16:COM3	20:COM7
			-28.191	-23.731	0.000	-2.770	0.000	-63.684
			22:COM9	22:COM9	-	30:COM1	-	30:COM1
3686	1809	+ve	4.804	25.985	1.332	0.806	0.019	26.184
			28:COM1	20:COM7	20:COM7	28:COM1	28:COM1	20:COM7
			-15.815	-11.136	-0.035	-2.019	-1.823	-20.598
			22:COM9	30:COM1	30:COM1	22:COM9	22:COM9	30:COM1
	1808	-ve	4.804	19.941	1.332	0.806	1.705	13.954
			28:COM1	20:COM7	20:COM7	28:COM1	20:COM7	28:COM1
			-15.815	-14.954	-0.035	-2.019	-0.078	-34.616
			22:COM9	30:COM1	30:COM1	22:COM9	30:COM1	22:COM9
3687	1879	+ve	0.000	7.109	0.000	0.000	0.016	5.437
			-	35:CVOL4	-	-	16:COM3	35:CVOL4
			-6.653	0.000	-0.005	-0.085	-0.000	0.000
			22:COM9	-	18:COM5	22:COM9	26:COM1	-
	1736	-ve	0.000	0.000	0.000	0.000	0.000	11.238
			-	-	-	-	-	34:CVOL3
			-6.653	-8.951	-0.005	-0.085	-0.012	0.000
			22:COM9	34:CVOL3	18:COM5	22:COM9	18:COM5	-
3688	1878	+ve	0.272	6.927	0.001	0.000	0.013	4.608
			35:CVOL4	35:CVOL4	28:COM1	-	20:COM7	35:CVOL4
			-3.089	0.000	-0.004	-0.089	-0.001	0.000
			32:CVOL1	-	22:COM9	34:CVOL3	30:COM1	-
	1737	-ve	0.272	0.000	0.001	0.000	0.003	11.815
			35:CVOL4	-	28:COM1	-	28:COM1	34:CVOL3
			-3.089	-9.186	-0.004	-0.089	-0.012	0.000
			32:CVOL1	34:CVOL3	22:COM9	34:CVOL3	22:COM9	-
3689	1877	+ve	3.361	7.002	0.002	0.011	0.007	4.499
			35:CVOL4	35:CVOL4	24:COM1	24:COM1	16:COM3	35:CVOL4
			-1.262	0.000	-0.002	-0.054	-0.005	0.000
			32:CVOL1	-	18:COM5	18:COM5	26:COM1	-
	1738	-ve	3.361	0.000	0.002	0.011	0.005	11.370
			35:CVOL4	-	24:COM1	24:COM1	24:COM1	34:CVOL3
			-1.262	-9.130	-0.002	-0.054	-0.007	0.000
			32:CVOL1	34:CVOL3	18:COM5	18:COM5	18:COM5	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
3690	1876	+ve	4.407	7.120	0.003	0.055	0.002	4.662
			35:CVOL4	35:CVOL4	16:COM3	16:COM3	24:COM11	35:CVOL4
			-0.547	0.000	-0.001	-0.010	-0.011	0.000
			30:COM17	-	26:COM13	26:COM13	18:COM5	-
	1739	-ve	4.407	0.000	0.003	0.055	0.010	10.798
			35:CVOL4	-	16:COM3	16:COM3	16:COM3	34:CVOL3
			-0.547	-9.008	-0.001	-0.010	-0.003	0.000
			30:COM17	34:CVOL3	26:COM13	26:COM13	26:COM13	-
3691	1875	+ve	2.662	7.203	0.005	0.089	0.000	4.979
			35:CVOL4	35:CVOL4	16:COM3	34:CVOL3	-	35:CVOL4
			-1.605	0.000	0.000	0.000	-0.016	0.000
			26:COM13	-	-	-	22:COM9	-
	1740	-ve	2.662	0.000	0.005	0.089	0.013	10.463
			35:CVOL4	-	16:COM3	34:CVOL3	16:COM3	34:CVOL3
			-1.605	-8.902	0.000	0.000	0.000	0.000
			26:COM13	34:CVOL3	-	-	-	-
3692	1874	+ve	0.000	7.353	0.006	0.084	0.000	5.739
			-	35:CVOL4	20:COM7	34:CVOL3	-	35:CVOL4
			-4.872	0.000	0.000	0.000	-0.021	0.000
			18:COM5	-	-	-	22:COM9	-
	1741	-ve	0.000	0.000	0.006	0.084	0.015	10.033
			-	-	20:COM7	34:CVOL3	20:COM7	34:CVOL3
			-4.872	-8.703	0.000	0.000	0.000	0.000
			18:COM5	34:CVOL3	-	-	-	-
3693	1885	+ve	0.000	7.463	0.000	0.000	0.016	5.888
			-	35:CVOL4	-	-	16:COM3	35:CVOL4
			-4.471	0.000	-0.005	-0.070	0.000	0.000
			18:COM5	-	18:COM5	18:COM5	-	-
	1742	-ve	0.000	0.000	0.000	0.000	0.000	9.534
			-	-	-	-	-	34:CVOL3
			-4.471	-8.597	-0.005	-0.070	-0.012	0.000
			18:COM5	34:CVOL3	18:COM5	18:COM5	34:CVOL3	-
3694	1884	+ve	4.692	7.403	0.000	0.000	0.016	5.189
			35:CVOL4	35:CVOL4	-	-	16:COM3	35:CVOL4
			-1.244	0.000	-0.005	-0.075	0.000	0.000
			26:COM13	-	18:COM5	34:CVOL3	-	-
	1743	-ve	4.692	0.000	0.000	0.000	0.001	9.500
			35:CVOL4	-	-	-	24:COM11	34:CVOL3
			-1.244	-8.711	-0.005	-0.075	-0.014	0.000
			26:COM13	34:CVOL3	18:COM5	34:CVOL3	18:COM5	-
3695	1883	+ve	7.470	7.418	0.001	0.007	0.011	4.969
			35:CVOL4	35:CVOL4	24:COM11	28:COM15	16:COM3	35:CVOL4
			0.000	0.000	-0.004	-0.048	-0.002	0.000
			-	-	18:COM5	22:COM9	26:COM13	-
	1744	-ve	7.470	0.000	0.001	0.007	0.004	9.367
			35:CVOL4	-	24:COM11	28:COM15	24:COM11	34:CVOL3
			0.000	-8.725	-0.004	-0.048	-0.011	0.000
			-	34:CVOL3	18:COM5	22:COM9	18:COM5	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
3696	1882	+ve	7.136	7.388	0.002	0.049	0.005	4.940
			35:CVOL4	35:CVOL4	16:COM3	16:COM3	24:COM11	35:CVOL4
			0.000	0.000	-0.002	-0.014	-0.007	0.000
			-	-	26:COM13	26:COM13	18:COM5	-
	1745	-ve	7.136	0.000	0.002	0.049	0.007	9.576
			35:CVOL4	-	16:COM3	16:COM3	16:COM3	34:CVOL3
			0.000	-8.767	-0.002	-0.014	-0.006	0.000
			-	34:CVOL3	26:COM13	26:COM13	26:COM13	-
3697	1881	+ve	3.983	7.329	0.004	0.087	0.000	5.117
			35:CVOL4	35:CVOL4	16:COM3	16:COM3	-	35:CVOL4
			-1.240	0.000	-0.000	0.000	-0.011	0.000
			32:CVOL1	-	26:COM13	-	18:COM5	-
	1746	-ve	3.983	0.000	0.004	0.087	0.011	10.017
			35:CVOL4	-	16:COM3	16:COM3	16:COM3	34:CVOL3
			-1.240	-8.816	-0.000	0.000	-0.002	0.000
			32:CVOL1	34:CVOL3	26:COM13	-	26:COM13	-
3698	1880	+ve	0.000	7.398	0.006	0.085	0.003	5.842
			-	35:CVOL4	20:COM7	16:COM3	28:COM15	35:CVOL4
			-5.286	0.000	-0.000	0.000	-0.021	0.000
			22:COM9	-	30:COM17	-	22:COM9	-
	1747	-ve	0.000	0.000	0.006	0.085	0.014	10.019
			-	-	20:COM7	16:COM3	20:COM7	34:CVOL3
			-5.286	-8.693	-0.000	0.000	0.000	0.000
			22:COM9	34:CVOL3	30:COM17	-	-	-
3699	1753	+ve	5.180	7.710	0.001	0.018	0.004	12.917
			28:COM15	34:CVOL3	16:COM3	20:COM7	24:COM11	20:COM7
			-16.125	0.000	-0.001	-0.005	-0.003	0.000
			22:COM9	-	26:COM13	30:COM17	18:COM5	-
	1847	-ve	5.180	0.000	0.001	0.018	0.003	6.541
			28:COM15	-	16:COM3	20:COM7	20:COM7	20:COM7
			-16.125	-6.541	-0.001	-0.005	-0.001	0.000
			22:COM9	35:CVOL4	26:COM13	30:COM17	30:COM17	-
3700	1754	+ve	7.685	7.314	0.000	0.005	0.011	9.511
			20:COM7	34:CVOL3	-	24:COM11	20:COM7	20:COM7
			-5.302	0.000	-0.003	-0.021	0.000	0.000
			30:COM17	-	22:COM9	18:COM5	-	-
	1846	-ve	7.685	0.000	0.000	0.005	0.001	6.581
			20:COM7	-	-	24:COM11	28:COM15	35:CVOL4
			-5.302	-6.875	-0.003	-0.021	-0.010	0.000
			30:COM17	35:CVOL4	22:COM9	18:COM5	22:COM9	-
3701	1755	+ve	8.908	7.095	0.000	0.005	0.011	7.242
			20:COM7	34:CVOL3	28:COM15	28:COM15	20:COM7	20:COM7
			-1.017	0.000	-0.003	-0.025	-0.001	0.000
			30:COM17	-	22:COM9	22:COM9	30:COM17	-
	1845	-ve	8.908	0.000	0.000	0.005	0.001	6.762
			20:COM7	-	28:COM15	28:COM15	28:COM15	35:CVOL4
			-1.017	-7.054	-0.003	-0.025	-0.010	0.000
			30:COM17	35:CVOL4	22:COM9	22:COM9	22:COM9	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
3702	1756	+ve	7.447	6.989	0.000	0.008	0.009	6.604
			20:COM7	34:CVOL3	28:COM15	28:COM15	20:COM7	34:CVOL3
			-0.051	0.000	-0.003	-0.016	-0.002	0.000
			30:COM17	-	22:COM9	22:COM9	30:COM17	-
	1844	-ve	7.447	0.000	0.000	0.008	0.001	7.095
			20:COM7	-	28:COM15	28:COM15	24:COM11	34:CVOL3
			-0.051	-7.146	-0.003	-0.016	-0.009	0.000
			30:COM17	35:CVOL4	22:COM9	22:COM9	18:COM5	-
3703	1757	+ve	3.042	6.970	0.001	0.008	0.005	6.922
			16:COM3	34:CVOL3	24:COM11	20:COM7	16:COM3	34:CVOL3
			-1.914	0.000	-0.002	-0.006	-0.002	0.000
			26:COM13	-	18:COM5	30:COM17	26:COM13	-
	1843	-ve	3.042	0.000	0.001	0.008	0.002	7.877
			16:COM3	-	24:COM11	20:COM7	24:COM11	20:COM7
			-1.914	-7.156	-0.002	-0.006	-0.008	0.000
			26:COM13	35:CVOL4	18:COM5	30:COM17	18:COM5	-
3704	1748	+ve	2.524	6.915	0.001	0.000	0.006	7.039
			16:COM3	35:CVOL4	28:COM15	-	20:COM7	20:COM7
			-0.898	0.000	-0.002	-0.029	-0.002	0.000
			26:COM13	-	22:COM9	22:COM9	30:COM17	-
	1852	-ve	2.524	0.000	0.001	0.000	0.003	8.002
			16:COM3	-	28:COM15	-	28:COM15	20:COM7
			-0.898	-7.215	-0.002	-0.029	-0.005	0.000
			26:COM13	34:CVOL3	22:COM9	22:COM9	22:COM9	-
3705	1749	+ve	6.747	6.885	0.000	0.002	0.003	6.099
			35:CVOL4	35:CVOL4	28:COM15	24:COM17	16:COM3	20:COM7
			0.000	0.000	-0.001	-0.025	-0.002	0.000
			-	-	22:COM9	18:COM5	26:COM13	-
	1851	-ve	6.747	0.000	0.000	0.002	0.002	7.288
			35:CVOL4	-	28:COM15	24:COM17	28:COM15	20:COM7
			0.000	-7.243	-0.001	-0.025	-0.002	0.000
			-	34:CVOL3	22:COM9	18:COM5	22:COM9	-
3706	1750	+ve	8.295	6.893	0.001	0.014	0.001	5.839
			35:CVOL4	35:CVOL4	20:COM7	20:COM7	24:COM11	20:COM7
			0.000	0.000	-0.000	-0.010	-0.003	0.000
			-	-	30:COM17	30:COM17	18:COM5	-
	1850	-ve	8.295	0.000	0.001	0.014	0.003	6.985
			35:CVOL4	-	20:COM7	20:COM7	20:COM7	34:CVOL3
			0.000	-7.233	-0.000	-0.010	-0.001	0.000
			-	34:CVOL3	30:COM17	30:COM17	30:COM17	-
3707	1751	+ve	6.693	6.886	0.001	0.032	0.000	6.109
			35:CVOL4	35:CVOL4	20:COM7	20:COM7	24:COM11	20:COM7
			0.000	0.000	-0.000	-0.002	-0.006	0.000
			-	-	30:COM17	30:COM17	18:COM5	-
	1849	-ve	6.693	0.000	0.001	0.032	0.004	7.292
			35:CVOL4	-	20:COM7	20:COM7	20:COM7	20:COM7
			0.000	-7.241	-0.000	-0.002	-0.001	0.000
			-	34:CVOL3	30:COM17	30:COM17	30:COM17	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
3708	1752	+ve	2.211	6.920	0.001	0.032	0.001	7.035
			16:COM3	35:CVOL4	20:COM7	20:COM7	28:COM15	20:COM7
			-1.058	0.000	-0.001	0.000	-0.006	0.000
			26:COM13	-	30:COM17	-	22:COM9	-
	1848	-ve	2.211	0.000	0.001	0.032	0.004	7.990
			16:COM3	-	20:COM7	20:COM7	20:COM7	20:COM7
			-1.058	-7.210	-0.001	0.000	-0.003	0.000
			26:COM13	34:CVOL3	30:COM17	-	30:COM17	-
3709	1758	+ve	2.237	6.920	0.001	0.000	0.007	6.996
			16:COM3	35:CVOL4	28:COM15	-	20:COM7	20:COM7
			-1.218	0.000	-0.002	-0.026	-0.002	0.000
			26:COM13	-	22:COM9	22:COM9	30:COM17	-
	1857	-ve	2.237	0.000	0.001	0.000	0.003	7.962
			16:COM3	-	28:COM15	-	28:COM15	20:COM7
			-1.218	-7.210	-0.002	-0.026	-0.005	0.000
			26:COM13	34:CVOL3	22:COM9	22:COM9	22:COM9	-
3710	1759	+ve	6.634	6.883	0.000	0.001	0.006	6.061
			16:COM3	35:CVOL4	-	24:COM17	16:COM3	20:COM7
			0.000	0.000	-0.002	-0.026	0.000	0.000
			-	-	18:COM5	18:COM5	-	-
	1856	-ve	6.634	0.000	0.000	0.001	0.000	7.278
			16:COM3	-	-	24:COM17	-	20:COM7
			0.000	-7.245	-0.002	-0.026	-0.005	0.000
			-	34:CVOL3	18:COM5	18:COM5	18:COM5	-
3711	1760	+ve	8.314	6.890	0.000	0.011	0.004	5.825
			35:CVOL4	35:CVOL4	24:COM11	28:COM15	16:COM3	35:CVOL4
			0.000	0.000	-0.001	-0.011	-0.000	0.000
			-	-	18:COM5	22:COM9	26:COM13	-
	1855	-ve	8.314	0.000	0.000	0.011	0.000	6.994
			35:CVOL4	-	24:COM11	28:COM15	-	34:CVOL3
			0.000	-7.236	-0.001	-0.011	-0.004	0.000
			-	34:CVOL3	18:COM5	22:COM9	18:COM5	-
3712	1761	+ve	6.835	6.885	0.000	0.030	0.002	6.055
			35:CVOL4	35:CVOL4	24:COM11	20:COM7	16:COM3	20:COM7
			0.000	0.000	-0.001	-0.002	-0.002	0.000
			-	-	18:COM5	30:COM17	26:COM13	-
	1854	-ve	6.835	0.000	0.000	0.030	0.001	7.227
			35:CVOL4	-	24:COM11	20:COM7	28:COM15	20:COM7
			0.000	-7.242	-0.001	-0.002	-0.003	0.000
			-	34:CVOL3	18:COM5	30:COM17	22:COM9	-
3713	1762	+ve	2.502	6.917	0.001	0.031	0.002	6.948
			16:COM3	35:CVOL4	20:COM7	20:COM7	28:COM15	20:COM7
			-0.852	0.000	-0.001	0.000	-0.005	0.000
			26:COM13	-	30:COM17	-	22:COM9	-
	1853	-ve	2.502	0.000	0.001	0.031	0.004	7.880
			16:COM3	-	20:COM7	20:COM7	20:COM7	20:COM7
			-0.852	-7.213	-0.001	0.000	-0.004	0.000
			26:COM13	34:CVOL3	30:COM17	-	30:COM17	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
3714	1763	+ve	2.874	6.971	0.002	0.017	0.002	6.868
			20:COM7	34:CVOL3	16:COM3	28:COM15	24:COM11	34:CVOL3
			-1.801	0.000	-0.001	-0.015	-0.005	0.000
			30:COM17	-	26:COM13	22:COM9	18:COM5	-
	1862	-ve	2.874	0.000	0.002	0.017	0.007	7.602
			20:COM7	-	16:COM3	28:COM15	16:COM3	20:COM7
			-1.801	-7.157	-0.001	-0.015	-0.002	0.000
			30:COM17	35:CVOL4	26:COM13	22:COM9	26:COM13	-
3715	1764	+ve	7.771	6.958	0.003	0.032	0.001	6.379
			20:COM7	34:CVOL3	20:COM7	20:COM7	28:COM15	34:CVOL3
			0.000	0.000	-0.000	-0.018	-0.009	0.000
			-	-	30:COM17	30:COM17	22:COM9	-
	1861	-ve	7.771	0.000	0.003	0.032	0.009	7.073
			20:COM7	-	20:COM7	20:COM7	20:COM7	34:CVOL3
			0.000	-7.177	-0.000	-0.018	-0.000	0.000
			-	35:CVOL4	30:COM17	30:COM17	30:COM17	-
3716	1765	+ve	9.375	7.019	0.003	0.039	0.000	6.728
			20:COM7	34:CVOL3	20:COM7	20:COM7	28:COM15	20:COM7
			-0.126	0.000	-0.000	-0.013	-0.011	0.000
			30:COM17	-	30:COM17	30:COM17	22:COM9	-
	1860	-ve	9.375	0.000	0.003	0.039	0.010	6.816
			20:COM7	-	20:COM7	20:COM7	20:COM7	35:CVOL4
			-0.126	-7.132	-0.000	-0.013	-0.000	0.000
			30:COM17	35:CVOL4	30:COM17	30:COM17	30:COM17	-
3717	1766	+ve	8.645	7.156	0.004	0.026	0.000	8.541
			20:COM7	34:CVOL3	20:COM7	20:COM7	-	20:COM7
			-3.888	0.000	-0.000	-0.006	-0.013	0.000
			30:COM17	-	30:COM17	30:COM17	22:COM9	-
	1859	-ve	8.645	0.000	0.004	0.026	0.012	6.797
			20:COM7	-	20:COM7	20:COM7	20:COM7	35:CVOL4
			-3.888	-7.032	-0.000	-0.006	-0.001	0.000
			30:COM17	35:CVOL4	30:COM17	30:COM17	30:COM17	-
3718	1767	+ve	6.923	7.408	0.001	0.011	0.001	11.427
			28:COM15	34:CVOL3	20:COM7	24:COM17	24:COM11	20:COM7
			-13.263	0.000	-0.001	-0.024	-0.004	0.000
			22:COM9	-	30:COM17	18:COM5	18:COM5	-
	1858	-ve	6.923	0.000	0.001	0.011	0.003	7.217
			28:COM15	-	20:COM7	24:COM17	20:COM7	20:COM7
			-13.263	-6.842	-0.001	-0.024	-0.003	0.000
			22:COM9	35:CVOL4	30:COM17	18:COM5	30:COM17	-
3719	1868	+ve	0.000	7.603	0.012	0.204	0.005	8.102
			-	34:CVOL3	20:COM7	20:COM7	28:COM15	34:CVOL3
			-6.855	0.000	-0.001	-0.018	-0.030	0.000
			18:COM5	-	30:COM17	30:COM17	22:COM9	-
	5721	-ve	0.000	0.000	0.012	0.204	0.036	7.013
			-	-	20:COM7	20:COM7	20:COM7	35:CVOL4
			-6.855	-7.212	-0.001	-0.018	0.000	0.000
			18:COM5	35:CVOL4	30:COM17	30:COM17	-	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
3720	1867	+ve	0.029	6.461	0.023	0.342	0.034	5.072
			24:COM1	34:CVOL3	20:COM7	20:COM7	28:COM15	34:CVOL3
			-7.234	0.000	-0.011	-0.062	-0.063	0.000
			18:COM5	-	30:COM1	30:COM1	22:COM9	-
	1664	-ve	0.029	0.000	0.023	0.342	0.064	10.407
			24:COM1	-	20:COM7	20:COM7	20:COM7	35:CVOL4
			-7.234	-8.350	-0.011	-0.062	-0.030	0.000
			18:COM5	35:CVOL4	30:COM1	30:COM1	30:COM1	-
3721	1866	+ve	0.000	5.753	0.022	0.293	0.047	5.179
			-	20:COM7	20:COM7	20:COM7	28:COM15	20:COM7
			-7.006	0.000	-0.015	-0.133	-0.066	-2.657
			18:COM5	-	30:COM1	30:COM1	22:COM9	30:COM1
	1770	-ve	0.000	0.000	0.022	0.293	0.056	15.652
			-	-	20:COM7	20:COM7	20:COM7	20:COM7
			-7.006	-9.389	-0.015	-0.133	-0.035	0.000
			18:COM5	35:CVOL4	30:COM1	30:COM1	30:COM1	-
3722	1865	+ve	0.000	6.110	0.005	0.018	0.024	6.206
			-	20:COM7	24:COM1	24:COM1	16:COM3	20:COM7
			-9.301	-0.289	-0.008	-0.101	-0.016	-4.771
			18:COM5	30:COM1	18:COM5	18:COM5	26:COM13	30:COM1
	1769	-ve	0.000	0.000	0.005	0.018	0.015	18.559
			-	-	24:COM1	24:COM1	24:COM1	20:COM7
			-9.301	-10.042	-0.008	-0.101	-0.020	-0.506
			18:COM5	22:COM9	18:COM5	18:COM5	18:COM5	30:COM1
3723	1864	+ve	0.000	6.259	0.011	0.074	0.055	6.557
			-	20:COM7	24:COM1	24:COM1	16:COM3	20:COM7
			-8.628	0.000	-0.018	-0.298	-0.036	-2.275
			18:COM5	-	18:COM5	18:COM5	26:COM13	30:COM1
	1772	-ve	0.000	0.000	0.011	0.074	0.027	14.966
			-	-	24:COM1	24:COM1	24:COM1	20:COM7
			-8.628	-9.096	-0.018	-0.298	-0.050	0.000
			18:COM5	34:CVOL3	18:COM5	18:COM5	18:COM5	-
3724	1863	+ve	0.000	7.265	0.007	0.053	0.034	7.064
			-	35:CVOL4	24:COM1	24:COM1	16:COM3	20:COM7
			-8.252	0.000	-0.012	-0.270	-0.023	0.000
			18:COM5	-	18:COM5	18:COM5	26:COM13	-
	1771	-ve	0.000	0.000	0.007	0.053	0.019	10.093
			-	-	24:COM1	24:COM1	24:COM1	20:COM7
			-8.252	-8.282	-0.012	-0.270	-0.037	0.000
			18:COM5	34:CVOL3	18:COM5	18:COM5	18:COM5	-
3725	5721	+ve	2.662	10.222	0.012	0.000	0.000	27.900
			24:COM1	20:COM7	16:COM3	-	-	20:COM7
			-10.638	0.000	0.000	-0.345	-0.030	-9.691
			18:COM5	-	-	22:COM9	18:COM5	30:COM1
	1932	-ve	2.662	0.845	0.012	0.000	0.032	5.889
			24:COM1	28:COM15	16:COM3	-	20:COM7	28:COM15
			-10.638	-3.622	0.000	-0.345	-0.009	-11.575
			18:COM5	22:COM9	-	22:COM9	30:COM1	22:COM9

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
3729	1772	+ve	1.433	9.999	0.046	0.512	0.065	18.444
			28:COM15	34:CVOL3	20:COM7	16:COM3	28:COM15	34:CVOL3
			-4.015	0.000	-0.033	-0.175	-0.090	0.000
			22:COM9	-	30:COM17	26:COM13	22:COM9	-
	1940	-ve	1.433	0.000	0.046	0.512	0.117	0.363
			28:COM15	-	20:COM7	16:COM3	20:COM7	28:COM15
			-4.015	-2.401	-0.033	-0.175	-0.087	-0.698
			22:COM9	18:COM5	30:COM17	26:COM13	30:COM17	22:COM9
3730	1771	+ve	0.000	8.354	0.024	0.335	0.050	13.689
			-	34:CVOL3	28:COM15	16:COM3	20:COM7	20:COM7
			-4.987	0.000	-0.026	-0.077	-0.050	0.000
			18:COM5	-	22:COM9	26:COM13	30:COM17	-
	1939	-ve	0.000	0.000	0.024	0.335	0.055	1.909
			-	-	28:COM15	16:COM3	28:COM15	16:COM3
			-4.987	-3.460	-0.026	-0.077	-0.064	-0.186
			18:COM5	18:COM5	22:COM9	26:COM13	22:COM9	26:COM13
3731	1942	+ve	0.000	1.260	0.000	0.016	0.091	0.000
			-	34:CVOL3	-	28:COM15	16:COM3	-
			-9.111	-0.044	-0.059	-0.122	0.000	-1.028
			18:COM5	26:COM13	18:COM5	22:COM9	-	18:COM5
	1868	-ve	0.000	0.000	0.000	0.016	0.000	7.494
			-	-	-	28:COM15	-	34:CVOL3
			-9.111	-6.723	-0.059	-0.122	-0.088	0.000
			18:COM5	35:CVOL4	18:COM5	22:COM9	18:COM5	-
3732	1943	+ve	0.000	2.151	0.010	0.004	0.071	0.000
			-	34:CVOL3	28:COM15	28:COM15	20:COM7	-
			-3.904	0.000	-0.047	-0.077	-0.013	-0.514
			18:COM5	-	22:COM9	22:COM9	30:COM17	18:COM5
	1867	-ve	0.000	0.000	0.010	0.004	0.017	5.390
			-	-	28:COM15	28:COM15	28:COM15	35:CVOL4
			-3.904	-5.862	-0.047	-0.077	-0.073	0.000
			18:COM5	35:CVOL4	22:COM9	22:COM9	22:COM9	-
3733	1944	+ve	0.656	2.753	0.024	0.015	0.055	0.152
			20:COM7	34:CVOL3	28:COM15	28:COM15	20:COM7	34:CVOL3
			-2.773	0.000	-0.038	-0.035	-0.034	-0.203
			30:COM17	-	22:COM9	22:COM9	30:COM17	30:COM17
	1866	-ve	0.656	0.000	0.024	0.015	0.039	4.249
			20:COM7	-	28:COM15	28:COM15	28:COM15	20:COM7
			-2.773	-5.268	-0.038	-0.035	-0.060	0.000
			30:COM17	35:CVOL4	22:COM9	22:COM9	22:COM9	-
3734	1945	+ve	2.249	2.796	0.018	0.079	0.030	0.403
			20:COM7	20:COM7	24:COM11	20:COM7	16:COM3	20:COM7
			-4.264	0.000	-0.020	-0.059	-0.028	-0.523
			30:COM17	-	18:COM5	30:COM17	26:COM13	30:COM17
	1865	-ve	2.249	0.000	0.018	0.079	0.028	5.171
			20:COM7	-	24:COM11	20:COM7	24:COM11	20:COM7
			-4.264	-5.286	-0.020	-0.059	-0.031	0.000
			30:COM17	35:CVOL4	18:COM5	30:COM17	18:COM5	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
3735	1946	+ve	1.620	2.582	0.041	0.103	0.041	0.448
			28:COM1	20:COM7	16:COM3	20:COM7	24:COM1	28:COM1
			-6.930	-0.401	-0.028	-0.066	-0.062	-1.176
			22:COM9	30:COM1	26:COM1	30:COM1	18:COM5	22:COM9
	1864	-ve	1.620	0.000	0.041	0.103	0.063	6.875
			28:COM1	-	16:COM3	20:COM7	16:COM3	20:COM7
			-6.930	-5.909	-0.028	-0.066	-0.045	0.000
			22:COM9	35:CVOL4	26:COM1	30:COM1	26:COM1	-
3736	1947	+ve	0.000	1.937	0.022	0.036	0.005	0.532
			-	20:COM7	16:COM3	20:COM7	24:COM1	28:COM1
			-10.087	-0.776	-0.003	-0.036	-0.035	-1.907
			22:COM9	30:COM1	26:COM1	30:COM1	18:COM5	22:COM9
	1863	-ve	0.000	0.000	0.022	0.036	0.032	8.344
			-	-	16:COM3	20:COM7	16:COM3	20:COM7
			-10.087	-6.734	-0.003	-0.036	-0.005	0.000
			22:COM9	35:CVOL4	26:COM1	30:COM1	26:COM1	-
3737	1743	+ve	0.286	7.479	0.006	0.120	0.015	9.208
			24:COM1	34:CVOL3	24:COM1	35:CVOL4	16:COM3	16:COM3
			-2.349	0.000	-0.007	-0.064	-0.009	0.000
			18:COM5	-	18:COM5	26:COM1	26:COM1	-
	1928	-ve	0.286	0.000	0.006	0.120	0.013	0.471
			24:COM1	-	24:COM1	35:CVOL4	24:COM1	16:COM3
			-2.349	-3.828	-0.007	-0.064	-0.015	-0.065
			18:COM5	35:CVOL4	18:COM5	26:COM1	18:COM5	26:COM1
3738	1744	+ve	0.565	7.383	0.004	0.079	0.016	8.624
			24:COM1	34:CVOL3	24:COM1	24:COM1	16:COM3	34:CVOL3
			-1.296	0.000	-0.008	-0.150	-0.007	0.000
			18:COM5	-	18:COM5	18:COM5	26:COM1	-
	1956	-ve	0.565	0.000	0.004	0.079	0.009	0.395
			24:COM1	-	24:COM1	24:COM1	24:COM1	35:CVOL4
			-1.296	-4.152	-0.008	-0.150	-0.018	0.000
			18:COM5	35:CVOL4	18:COM5	18:COM5	18:COM5	-
3739	1745	+ve	0.553	7.772	0.004	0.067	0.020	10.110
			24:COM1	34:CVOL3	24:COM1	24:COM1	16:COM3	34:CVOL3
			-1.309	0.000	-0.011	-0.234	-0.007	0.000
			18:COM5	-	18:COM5	18:COM5	26:COM1	-
	1957	-ve	0.553	0.000	0.004	0.067	0.009	0.326
			24:COM1	-	24:COM1	24:COM1	24:COM1	20:COM7
			-1.309	-3.847	-0.011	-0.234	-0.025	-0.124
			18:COM5	35:CVOL4	18:COM5	18:COM5	18:COM5	30:COM1
3740	1746	+ve	0.228	8.609	0.005	0.093	0.028	13.199
			24:COM1	34:CVOL3	24:COM1	28:COM1	16:COM3	34:CVOL3
			-2.393	0.000	-0.016	-0.260	-0.010	0.000
			18:COM5	-	18:COM5	22:COM9	26:COM1	-
	1958	-ve	0.228	0.000	0.005	0.093	0.012	0.557
			24:COM1	-	24:COM1	28:COM1	24:COM1	28:COM1
			-2.393	-2.937	-0.016	-0.260	-0.037	-0.832
			18:COM5	35:CVOL4	18:COM5	22:COM9	18:COM5	22:COM9

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
3741	1747	+ve	0.000	9.920	0.012	0.243	0.037	17.551
			-	34:CVOL3	24:COM11	28:COM15	16:COM3	16:COM3
			-7.003	0.000	-0.022	-0.196	-0.019	0.000
			18:COM5	-	18:COM5	22:COM9	26:COM13	-
	1959	-ve	0.000	0.552	0.012	0.243	0.030	6.284
			-	28:COM15	24:COM11	28:COM15	24:COM11	28:COM15
			-7.003	-2.034	-0.022	-0.196	-0.055	-8.367
			18:COM5	22:COM9	18:COM5	22:COM9	18:COM5	22:COM9
3742	1736	+ve	0.000	10.097	0.010	0.002	0.007	20.176
			-	34:CVOL3	16:COM3	24:COM11	28:COM15	34:CVOL3
			-4.715	0.000	-0.005	-0.359	-0.011	0.000
			22:COM9	-	26:COM13	18:COM5	22:COM9	-
	1926	-ve	0.000	0.256	0.010	0.002	0.033	1.530
			-	24:COM11	16:COM3	24:COM11	16:COM3	16:COM3
			-4.715	-1.689	-0.005	-0.359	-0.015	-0.771
			22:COM9	18:COM5	26:COM13	18:COM5	26:COM13	26:COM13
3743	1737	+ve	0.000	10.318	0.010	0.100	0.008	19.809
			-	34:CVOL3	20:COM7	35:CVOL4	28:COM15	34:CVOL3
			-1.698	0.000	-0.004	-0.039	-0.018	0.000
			18:COM5	-	30:COM17	32:CVOL1	22:COM9	-
	1925	-ve	0.000	0.131	0.010	0.100	0.025	0.041
			-	24:COM11	20:COM7	35:CVOL4	20:COM7	24:COM11
			-1.698	-1.459	-0.004	-0.039	-0.008	-0.841
			18:COM5	18:COM5	30:COM17	32:CVOL1	30:COM17	18:COM5
3744	1738	+ve	0.111	9.230	0.007	0.262	0.006	15.785
			24:COM11	34:CVOL3	20:COM7	16:COM3	28:COM15	34:CVOL3
			-0.731	0.000	-0.003	0.000	-0.013	0.000
			18:COM5	-	30:COM17	-	22:COM9	-
	1924	-ve	0.111	0.000	0.007	0.262	0.016	0.028
			24:COM11	-	20:COM7	16:COM3	20:COM7	24:COM11
			-0.731	-2.398	-0.003	0.000	-0.007	-0.201
			18:COM5	35:CVOL4	30:COM17	-	30:COM17	32:CVOL1
3745	1742	+ve	0.000	7.793	0.006	0.176	0.017	11.812
			-	34:CVOL3	24:COM11	35:CVOL4	16:COM3	16:COM3
			-6.133	0.000	-0.010	-0.035	-0.006	0.000
			18:COM5	-	18:COM5	30:COM17	26:COM13	-
	1929	-ve	0.000	0.000	0.006	0.176	0.019	1.241
			-	-	24:COM11	35:CVOL4	24:COM11	16:COM3
			-6.133	-3.442	-0.010	-0.035	-0.024	0.000
			18:COM5	18:COM5	18:COM5	30:COM17	18:COM5	-
3746	1891	+ve	2.016	7.056	0.018	0.353	0.041	6.677
			28:COM15	34:CVOL3	16:COM3	16:COM3	24:COM11	16:COM3
			-7.717	0.000	-0.012	-0.138	-0.055	-0.487
			22:COM9	-	26:COM13	26:COM13	18:COM5	26:COM13
	1785	-ve	2.016	0.000	0.018	0.353	0.051	11.753
			28:COM15	-	16:COM3	16:COM3	16:COM3	16:COM3
			-7.717	-8.567	-0.012	-0.138	-0.031	0.000
			22:COM9	35:CVOL4	26:COM13	26:COM13	26:COM13	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
3747	1890	+ve	3.281	6.710	0.013	0.269	0.008	6.334
			16:COM3	16:COM3	16:COM3	16:COM3	24:COM11	16:COM3
			-5.074	0.000	-0.002	-0.047	-0.041	-4.393
			26:COM13	-	26:COM13	26:COM13	18:COM5	26:COM13
	1784	-ve	3.281	0.000	0.013	0.269	0.038	17.056
			16:COM3	-	16:COM3	16:COM3	16:COM3	16:COM3
			-5.074	-9.755	-0.002	-0.047	-0.003	-1.645
			26:COM13	18:COM5	26:COM13	26:COM13	26:COM13	26:COM13
3748	1889	+ve	3.060	5.551	0.024	0.183	0.054	3.358
			16:COM3	16:COM3	16:COM3	16:COM3	24:COM11	24:COM11
			-2.920	0.000	-0.017	-0.098	-0.074	-4.268
			26:COM13	-	26:COM13	26:COM13	18:COM5	18:COM5
	1783	-ve	3.060	0.000	0.024	0.183	0.066	17.115
			16:COM3	-	16:COM3	16:COM3	16:COM3	16:COM3
			-2.920	-10.038	-0.017	-0.098	-0.045	0.000
			26:COM13	34:CVOL3	26:COM13	26:COM13	26:COM13	-
3749	1888	+ve	3.960	4.737	0.013	0.113	0.036	1.113
			16:COM3	34:CVOL3	24:COM11	24:COM11	16:COM3	24:COM11
			-3.657	0.000	-0.012	-0.191	-0.037	-2.340
			26:COM13	-	18:COM5	18:COM5	26:COM13	18:COM5
	1787	-ve	3.960	0.000	0.013	0.113	0.035	14.769
			16:COM3	-	24:COM11	24:COM11	24:COM11	16:COM3
			-3.657	-10.028	-0.012	-0.191	-0.033	0.000
			26:COM13	35:CVOL4	18:COM5	18:COM5	18:COM5	-
3750	1887	+ve	4.589	5.442	0.014	0.047	0.056	1.303
			16:COM3	34:CVOL3	24:COM11	24:COM11	16:COM3	34:CVOL3
			-4.288	0.000	-0.020	-0.253	-0.041	0.000
			26:COM13	-	18:COM5	18:COM5	26:COM13	-
	1786	-ve	4.589	0.000	0.014	0.047	0.039	12.288
			16:COM3	-	24:COM11	24:COM11	24:COM11	35:CVOL4
			-4.288	-9.327	-0.020	-0.253	-0.055	0.000
			26:COM13	35:CVOL4	18:COM5	18:COM5	18:COM5	-
3751	1886	+ve	1.791	6.548	0.001	0.000	0.030	4.804
			20:COM7	34:CVOL3	24:COM11	-	16:COM3	16:COM3
			-2.947	0.000	-0.009	-0.212	-0.008	0.000
			30:COM17	-	18:COM5	18:COM5	26:COM13	-
	1648	-ve	1.791	0.000	0.001	0.000	0.000	9.218
			20:COM7	-	24:COM11	-	-	35:CVOL4
			-2.947	-8.221	-0.009	-0.212	-0.023	0.000
			30:COM17	35:CVOL4	18:COM5	18:COM5	18:COM5	-
3752	1953	+ve	1.422	2.138	0.128	0.060	0.026	0.383
			35:CVOL4	34:CVOL3	16:COM3	16:COM3	24:COM11	16:COM3
			0.000	0.000	-0.053	-0.027	-0.073	-0.143
			-	-	26:COM13	26:COM13	18:COM5	26:COM13
	1888	-ve	1.422	0.000	0.128	0.060	0.088	0.408
			35:CVOL4	-	16:COM3	16:COM3	16:COM3	24:COM11
			0.000	-1.456	-0.053	-0.027	-0.041	-0.558
			-	18:COM5	26:COM13	26:COM13	26:COM13	18:COM5

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
3753	1954	+ve	0.290	1.739	0.234	0.098	0.075	0.236
			24:COM1	16:COM3	16:COM3	16:COM3	24:COM1	16:COM3
			-1.299	-0.648	-0.143	-0.043	-0.137	-0.280
			18:COM5	26:COM1	26:COM1	26:COM1	18:COM5	26:COM1
	1887	-ve	0.290	0.000	0.234	0.098	0.155	1.503
			24:COM1	-	16:COM3	16:COM3	16:COM3	16:COM3
			-1.299	-2.709	-0.143	-0.043	-0.103	-0.463
			18:COM5	18:COM5	26:COM1	26:COM1	26:COM1	26:COM1
3754	1955	+ve	0.186	0.971	0.101	0.146	0.010	0.276
			24:COM1	24:COM1	16:COM3	16:COM3	24:COM1	24:COM1
			-4.697	-2.423	-0.033	-0.075	-0.057	-1.146
			18:COM5	18:COM5	26:COM1	26:COM1	18:COM5	18:COM5
	1886	-ve	0.186	0.000	0.101	0.146	0.071	3.552
			24:COM1	-	16:COM3	16:COM3	16:COM3	16:COM3
			-4.697	-5.089	-0.033	-0.075	-0.033	-0.159
			18:COM5	18:COM5	26:COM1	26:COM1	26:COM1	26:COM1
3765	1648	+ve	5.328	11.934	0.015	0.351	0.031	27.616
			24:COM1	20:COM7	20:COM7	16:COM3	28:COM1	20:COM7
			-6.836	-3.063	-0.013	-0.080	-0.036	-17.117
			18:COM5	30:COM1	30:COM1	26:COM1	22:COM9	30:COM1
	6257	-ve	5.328	2.391	0.015	0.351	0.046	22.401
			24:COM1	28:COM1	20:COM7	16:COM3	20:COM7	20:COM7
			-6.836	-12.632	-0.013	-0.080	-0.039	-8.110
			18:COM5	22:COM9	30:COM1	26:COM1	30:COM1	30:COM1
3766	1786	+ve	3.189	11.692	0.014	0.355	0.040	29.592
			28:COM1	20:COM7	28:COM1	16:COM3	20:COM7	20:COM7
			-5.603	-0.122	-0.014	-0.261	-0.040	-11.659
			22:COM9	30:COM1	22:COM9	26:COM1	30:COM1	30:COM1
	6258	-ve	3.189	0.800	0.014	0.355	0.042	15.122
			28:COM1	28:COM1	28:COM1	16:COM3	28:COM1	20:COM7
			-5.603	-10.148	-0.014	-0.261	-0.042	-3.920
			22:COM9	22:COM9	22:COM9	26:COM1	22:COM9	30:COM1
3767	1776	+ve	0.000	6.996	0.023	0.360	0.080	10.439
			-	20:COM7	28:COM1	24:COM1	20:COM7	28:COM1
			-3.427	-2.021	-0.038	-0.495	-0.050	-10.419
			18:COM5	30:COM1	22:COM9	18:COM5	30:COM1	22:COM9
	6259	-ve	0.000	0.266	0.023	0.360	0.049	12.151
			-	28:COM1	28:COM1	24:COM1	28:COM1	20:COM7
			-3.427	-10.038	-0.038	-0.495	-0.085	-1.888
			18:COM5	22:COM9	22:COM9	18:COM5	22:COM9	30:COM1
3768	1783	+ve	3.310	6.101	0.027	0.444	0.059	18.961
			28:COM1	35:CVOL4	24:COM1	28:COM1	16:COM3	16:COM3
			-7.952	0.000	-0.031	-0.493	-0.049	-10.612
			22:COM9	-	18:COM5	22:COM9	26:COM1	26:COM1
	1798	-ve	3.310	0.000	0.027	0.444	0.066	16.994
			28:COM1	-	24:COM1	28:COM1	24:COM1	20:COM7
			-7.952	-5.005	-0.031	-0.493	-0.075	-11.584
			22:COM9	34:CVOL3	18:COM5	22:COM9	18:COM5	30:COM1

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
3769	1784	+ve	5.839	15.134	0.002	0.342	0.016	36.392
			28:COM1	20:COM7	28:COM1	24:COM1	20:COM7	20:COM7
			-8.985	-2.346	-0.004	-0.377	-0.007	-20.447
			22:COM9	30:COM1	22:COM9	18:COM5	30:COM1	30:COM1
	1655	-ve	5.839	2.290	0.002	0.342	0.005	35.277
			28:COM1	28:COM1	28:COM1	24:COM1	28:COM1	20:COM7
			-8.985	-15.136	-0.004	-0.377	-0.014	-19.120
			22:COM9	22:COM9	22:COM9	18:COM5	22:COM9	30:COM1
3770	1785	+ve	1.984	11.984	0.010	0.833	0.047	19.022
			24:COM1	16:COM3	24:COM1	16:COM3	16:COM3	16:COM3
			-10.340	-4.631	-0.024	-0.629	-0.015	-11.444
			18:COM5	26:COM1	18:COM5	26:COM1	26:COM1	26:COM1
	1731	-ve	1.984	4.508	0.010	0.833	0.028	26.181
			24:COM1	24:COM1	24:COM1	16:COM3	24:COM1	20:COM7
			-10.340	-11.835	-0.024	-0.629	-0.057	-18.659
			18:COM5	18:COM5	18:COM5	26:COM1	18:COM5	30:COM1
3771	1789	+ve	7.027	7.011	0.002	0.143	0.000	11.482
			28:COM1	35:CVOL4	20:COM7	20:COM7	-	20:COM7
			-17.580	0.000	-0.000	-0.054	-0.007	0.000
			22:COM9	-	30:COM1	30:COM1	22:COM9	-
	6207	-ve	7.027	0.000	0.002	0.143	0.005	8.258
			28:COM1	-	20:COM7	20:COM7	20:COM7	34:CVOL3
			-17.580	-6.974	-0.000	-0.054	-0.002	0.000
			22:COM9	34:CVOL3	30:COM1	30:COM1	30:COM1	-
3772	1916	+ve	3.880	7.968	0.006	0.023	0.016	7.840
			24:COM1	34:CVOL3	20:COM7	24:COM1	28:COM1	34:CVOL3
			-6.004	0.000	-0.005	-0.027	-0.019	0.000
			18:COM5	-	30:COM1	18:COM5	22:COM9	-
	1791	-ve	3.880	0.000	0.006	0.023	0.018	8.111
			24:COM1	-	20:COM7	24:COM1	20:COM7	20:COM7
			-6.004	-7.976	-0.005	-0.027	-0.015	0.000
			18:COM5	35:CVOL4	30:COM1	18:COM5	30:COM1	-
3773	5466	+ve	35.242	10.408	0.897	15.849	0.557	10.109
			28:COM1	16:COM3	28:COM1	16:COM3	28:COM1	16:COM3
			-74.560	-2.273	-0.471	-5.057	-1.107	-4.815
			22:COM9	26:COM1	22:COM9	26:COM1	22:COM9	26:COM1
	5500	-ve	35.242	5.536	0.897	15.849	0.687	3.085
			28:COM1	24:COM1	28:COM1	16:COM3	28:COM1	16:COM3
			-74.560	-6.705	-0.471	-5.057	-0.406	-4.584
			22:COM9	18:COM5	22:COM9	26:COM1	22:COM9	26:COM1
3774	1898	+ve	3.800	14.917	0.022	0.000	0.000	18.648
			16:COM3	20:COM7	16:COM3	-	-	20:COM7
			-1.988	0.000	0.000	-0.731	-0.072	0.000
			26:COM1	-	-	22:COM9	18:COM5	-
	1793	-ve	3.800	0.000	0.022	0.000	0.062	13.772
			16:COM3	-	16:COM3	-	16:COM3	20:COM7
			-1.988	-10.054	0.000	-0.731	0.000	-13.930
			26:COM1	22:COM9	-	22:COM9	-	30:COM1

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
3775	1899	+ve	6.246	8.757	0.005	0.000	0.001	10.203
			20:COM7	34:CVOL3	16:COM3	-	28:COM15	34:CVOL3
			-6.271	0.000	0.000	-0.331	-0.018	0.000
			30:COM17	-	-	22:COM9	22:COM9	-
	1794	-ve	6.246	0.000	0.005	0.000	0.013	7.261
			20:COM7	-	16:COM3	-	16:COM3	20:COM7
			-6.271	-7.277	0.000	-0.331	-0.001	-1.139
			30:COM17	35:CVOL4	-	22:COM9	26:COM13	30:COM17
3776	1948	+ve	0.000	2.073	0.000	0.013	0.039	0.612
			-	20:COM7	-	28:COM15	16:COM3	28:COM15
			-8.434	-0.391	-0.025	-0.128	0.000	-1.232
			18:COM5	30:COM17	18:COM5	22:COM9	-	22:COM9
	1871	-ve	0.000	0.000	0.000	0.013	0.000	7.482
			-	-	-	28:COM15	-	20:COM7
			-8.434	-6.369	-0.025	-0.128	-0.038	0.000
			18:COM5	34:CVOL3	18:COM5	22:COM9	18:COM5	-
3777	1949	+ve	0.000	1.756	0.014	0.144	0.039	0.000
			-	35:CVOL4	28:COM15	28:COM15	20:COM7	-
			-6.730	0.000	-0.025	-0.146	-0.021	-0.684
			22:COM9	-	22:COM9	22:COM9	30:COM17	22:COM9
	1870	-ve	0.000	0.000	0.014	0.144	0.023	6.418
			-	-	28:COM15	28:COM15	28:COM15	34:CVOL3
			-6.730	-6.237	-0.025	-0.146	-0.037	0.000
			22:COM9	34:CVOL3	22:COM9	22:COM9	22:COM9	-
3778	1950	+ve	0.000	2.411	0.008	0.084	0.008	0.924
			-	20:COM7	20:COM7	20:COM7	28:COM15	28:COM15
			-8.816	-0.759	-0.005	-0.013	-0.012	-1.681
			22:COM9	30:COM17	30:COM17	30:COM17	22:COM9	22:COM9
	1869	-ve	0.000	0.000	0.008	0.084	0.013	8.097
			-	-	20:COM7	20:COM7	20:COM7	20:COM7
			-8.816	-6.457	-0.005	-0.013	-0.007	0.000
			22:COM9	22:COM9	30:COM17	30:COM17	30:COM17	-
3779	1871	+ve	0.000	7.665	0.002	0.054	0.030	7.653
			-	35:CVOL4	28:COM15	28:COM15	20:COM7	35:CVOL4
			-7.296	0.000	-0.009	-0.165	-0.010	0.000
			34:CVOL3	-	22:COM9	22:COM9	30:COM17	-
	1795	-ve	0.000	0.000	0.002	0.054	0.006	9.221
			-	-	28:COM15	28:COM15	28:COM15	34:CVOL3
			-7.296	-8.152	-0.009	-0.165	-0.024	0.000
			34:CVOL3	34:CVOL3	22:COM9	22:COM9	22:COM9	-
3780	1870	+ve	0.000	7.628	0.002	0.082	0.029	9.211
			-	35:CVOL4	28:COM15	28:COM15	20:COM7	20:COM7
			-6.332	0.000	-0.009	-0.212	-0.006	0.000
			34:CVOL3	-	22:COM9	22:COM9	30:COM17	-
	1796	-ve	0.000	0.000	0.002	0.082	0.006	10.202
			-	-	28:COM15	28:COM15	28:COM15	20:COM7
			-6.332	-8.018	-0.009	-0.212	-0.025	0.000
			34:CVOL3	34:CVOL3	22:COM9	22:COM9	22:COM9	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
3781	1869	+ve	0.000	7.976	0.002	0.073	0.022	11.935
			-	20:COM7	24:COM11	24:COM11	20:COM7	20:COM7
			-6.198	0.000	-0.007	-0.160	-0.005	-0.823
			34:CVOL3	-	18:COM5	18:COM5	30:COM17	30:COM17
	1797	-ve	0.000	0.000	0.002	0.073	0.005	11.074
			-	-	24:COM11	24:COM11	24:COM11	20:COM7
			-6.198	-7.687	-0.007	-0.160	-0.021	-1.693
			34:CVOL3	22:COM9	18:COM5	18:COM5	18:COM5	30:COM17
3782	1798	+ve	2.738	19.149	0.023	0.243	0.057	20.425
			28:COM15	20:COM7	28:COM15	28:COM15	16:COM3	20:COM7
			-7.468	-10.367	-0.037	-0.789	-0.037	-10.458
			22:COM9	30:COM17	22:COM9	22:COM9	26:COM13	30:COM17
	6260	-ve	2.738	13.301	0.023	0.243	0.031	22.187
			28:COM15	28:COM15	28:COM15	28:COM15	28:COM15	28:COM15
			-7.468	-13.868	-0.037	-0.789	-0.050	-23.343
			22:COM9	22:COM9	22:COM9	22:COM9	22:COM9	22:COM9
3783	1795	+ve	0.000	8.011	0.010	0.000	0.021	12.446
			-	34:CVOL3	28:COM15	-	20:COM7	20:COM7
			-4.344	0.000	-0.012	-0.321	-0.015	0.000
			22:COM9	-	22:COM9	34:CVOL3	30:COM17	-
	1938	-ve	0.000	0.000	0.010	0.000	0.026	1.711
			-	-	28:COM15	-	28:COM15	20:COM7
			-4.344	-3.262	-0.012	-0.321	-0.031	0.000
			22:COM9	22:COM9	22:COM9	34:CVOL3	22:COM9	-
3784	1796	+ve	0.000	9.264	0.005	0.000	0.011	16.422
			-	34:CVOL3	28:COM15	-	20:COM7	34:CVOL3
			-1.781	0.000	-0.005	-0.461	-0.010	0.000
			18:COM5	-	22:COM9	22:COM9	30:COM17	-
	1937	-ve	0.000	0.000	0.005	0.000	0.013	0.472
			-	-	28:COM15	-	20:COM7	16:COM3
			-1.781	-2.042	-0.005	-0.461	-0.011	-0.050
			18:COM5	18:COM5	22:COM9	22:COM9	30:COM17	26:COM13
3786	1640	+ve	1.672	25.121	0.133	15.543	0.363	98.919
			24:COM11	34:CVOL3	24:COM11	16:COM3	16:COM3	34:CVOL3
			-1.774	0.000	-0.191	-12.707	-0.245	0.000
			18:COM5	-	18:COM5	26:COM13	26:COM13	-
	1935	-ve	1.672	12.180	0.133	15.543	0.317	23.576
			24:COM11	16:COM3	24:COM11	16:COM3	24:COM11	35:CVOL4
			-1.774	0.000	-0.191	-12.707	-0.440	0.000
			18:COM5	-	18:COM5	26:COM13	18:COM5	-
3787	1803	+ve	0.527	11.388	0.001	0.194	0.009	21.638
			20:COM7	20:COM7	28:COM15	16:COM3	20:COM7	20:COM7
			-0.327	0.000	-0.003	0.000	-0.003	-3.314
			30:COM17	-	22:COM9	-	30:COM17	30:COM17
	1799	-ve	0.527	0.558	0.001	0.194	0.003	22.034
			20:COM7	28:COM15	28:COM15	16:COM3	28:COM15	20:COM7
			-0.327	-10.264	-0.003	0.000	-0.012	-10.261
			30:COM17	22:COM9	22:COM9	-	22:COM9	30:COM17

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
3788	1804	+ve	0.278	10.049	0.000	0.158	0.009	15.153
			28:COM15	20:COM7	28:COM15	16:COM3	20:COM7	20:COM7
			-0.914	0.000	-0.003	0.000	-0.002	0.000
			22:COM9	-	22:COM9	-	30:COM17	-
	1800	-ve	0.278	0.000	0.000	0.158	0.000	19.325
			28:COM15	-	28:COM15	16:COM3	28:COM15	20:COM7
			-0.914	-9.688	-0.003	0.000	-0.013	-6.763
			22:COM9	22:COM9	22:COM9	-	22:COM9	30:COM17
3789	1805	+ve	0.000	10.581	0.002	0.123	0.003	16.162
			-	20:COM7	20:COM7	20:COM7	28:COM15	20:COM7
			-2.563	0.000	-0.001	-0.111	-0.010	0.000
			22:COM9	-	30:COM17	30:COM17	22:COM9	-
	1801	-ve	0.000	0.000	0.002	0.123	0.005	17.175
			-	-	20:COM7	20:COM7	20:COM7	20:COM7
			-2.563	-9.701	-0.001	-0.111	-0.006	-6.431
			22:COM9	22:COM9	30:COM17	30:COM17	30:COM17	30:COM17
3790	1806	+ve	0.682	12.144	0.003	0.117	0.000	22.720
			28:COM15	20:COM7	16:COM3	28:COM15	-	20:COM7
			-2.738	0.000	0.000	-0.262	-0.016	-2.392
			22:COM9	-	-	22:COM9	18:COM5	30:COM17
	1802	-ve	0.682	0.000	0.003	0.117	0.008	20.434
			28:COM15	-	16:COM3	28:COM15	16:COM3	20:COM7
			-2.738	-10.716	0.000	-0.262	0.000	-9.359
			22:COM9	22:COM9	-	22:COM9	-	30:COM17
3791	1951	+ve	0.318	1.790	0.009	0.207	0.005	0.699
			28:COM15	20:COM7	20:COM7	20:COM7	28:COM15	16:COM3
			-0.613	-0.384	-0.002	-0.140	-0.014	-0.090
			22:COM9	30:COM17	30:COM17	30:COM17	22:COM9	26:COM13
	1805	-ve	0.318	0.000	0.009	0.207	0.015	10.986
			28:COM15	-	20:COM7	20:COM7	20:COM7	20:COM7
			-0.613	-6.868	-0.002	-0.140	-0.002	0.000
			22:COM9	34:CVOL3	30:COM17	30:COM17	30:COM17	-
3792	1952	+ve	0.000	1.735	0.023	0.290	0.002	0.529
			-	20:COM7	16:COM3	20:COM7	24:COM11	28:COM15
			-0.788	-1.618	-0.001	-0.076	-0.035	-0.739
			22:COM9	30:COM17	26:COM13	30:COM17	18:COM5	22:COM9
	1806	-ve	0.000	0.000	0.023	0.290	0.039	14.822
			-	-	16:COM3	20:COM7	16:COM3	20:COM7
			-0.788	-8.423	-0.001	-0.076	0.000	0.000
			22:COM9	22:COM9	26:COM13	30:COM17	-	-
3793	1799	+ve	0.095	11.688	0.004	0.786	0.015	27.749
			24:COM11	20:COM7	24:COM11	16:COM3	16:COM3	20:COM7
			-0.695	0.000	-0.009	0.000	-0.008	0.000
			18:COM5	-	18:COM5	-	26:COM13	-
	1934	-ve	0.095	3.502	0.004	0.786	0.008	1.362
			24:COM11	20:COM7	24:COM11	16:COM3	24:COM11	20:COM7
			-0.695	-1.771	-0.009	0.000	-0.016	-0.444
			18:COM5	30:COM17	18:COM5	-	18:COM5	30:COM17

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
3794	1800	+ve	0.673	9.669	0.007	0.671	0.022	21.730
			28:COM1	20:COM7	28:COM1	34:CVOL3	20:COM7	20:COM7
			-3.346	-4.617	-0.012	0.000	-0.009	-9.197
			22:COM9	30:COM1	22:COM9	-	30:COM1	30:COM1
	1933	-ve	0.673	4.228	0.007	0.671	0.014	15.552
			28:COM1	28:COM1	28:COM1	34:CVOL3	28:COM1	20:COM7
			-3.346	-10.052	-0.012	0.000	-0.014	-1.803
			22:COM9	22:COM9	22:COM9	-	22:COM9	30:COM1
3795	1801	+ve	2.369	7.033	0.170	0.543	0.045	7.439
			24:COM1	28:COM1	16:COM3	16:COM3	24:COM1	28:COM1
			-29.378	-11.599	-0.037	-0.279	-0.180	-10.834
			18:COM5	22:COM9	26:COM1	26:COM1	18:COM5	22:COM9
	1927	-ve	2.369	4.664	0.170	0.543	0.178	19.173
			24:COM1	28:COM1	16:COM3	16:COM3	16:COM3	16:COM3
			-29.378	-16.021	-0.037	-0.279	-0.032	-5.805
			18:COM5	22:COM9	26:COM1	26:COM1	26:COM1	26:COM1
3796	1797	+ve	0.000	11.171	0.003	0.000	0.010	24.375
			-	34:CVOL3	28:COM1	-	20:COM7	34:CVOL3
			-1.233	0.000	-0.005	-0.407	-0.005	0.000
			18:COM5	-	22:COM9	18:COM5	30:COM1	-
	1936	-ve	0.000	0.612	0.003	0.000	0.006	1.105
			-	16:COM3	28:COM1	-	28:COM1	16:COM3
			-1.233	-0.704	-0.005	-0.407	-0.012	-0.700
			18:COM5	26:COM1	22:COM9	18:COM5	22:COM9	26:COM1
3797	1872	+ve	5.994	5.166	0.018	0.136	0.009	3.392
			28:COM1	35:CVOL4	16:COM3	16:COM3	24:COM1	35:CVOL4
			-14.107	0.000	-0.005	-0.063	-0.039	0.000
			22:COM9	-	26:COM1	26:COM1	18:COM5	-
	1808	-ve	5.994	0.000	0.018	0.136	0.035	5.289
			28:COM1	-	16:COM3	16:COM3	16:COM3	16:COM3
			-14.107	-5.303	-0.005	-0.063	-0.012	-0.660
			22:COM9	34:CVOL3	26:COM1	26:COM1	26:COM1	26:COM1
3798	1873	+ve	10.692	3.454	0.067	0.185	0.020	3.222
			28:COM1	20:COM7	16:COM3	16:COM3	24:COM1	20:COM7
			-21.677	-0.309	-0.024	-0.093	-0.060	-0.450
			22:COM9	30:COM1	26:COM1	26:COM1	18:COM5	30:COM1
	1809	-ve	10.692	0.383	0.067	0.185	0.068	5.406
			28:COM1	28:COM1	16:COM3	16:COM3	16:COM3	20:COM7
			-21.677	-3.200	-0.024	-0.093	-0.025	-2.946
			22:COM9	22:COM9	26:COM1	26:COM1	26:COM1	30:COM1
3799	1790	+ve	0.000	7.754	0.003	0.228	0.009	20.352
			-	20:COM7	28:COM1	20:COM7	28:COM1	20:COM7
			-3.422	0.000	-0.003	0.000	-0.011	-2.676
			22:COM9	-	22:COM9	-	22:COM9	30:COM1
	6208	-ve	0.000	0.000	0.003	0.228	0.008	13.821
			-	-	28:COM1	20:COM7	28:COM1	16:COM3
			-3.422	-7.890	-0.003	0.000	-0.014	0.000
			22:COM9	22:COM9	22:COM9	-	22:COM9	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
3800	1812	+ve	5.320	0.000	0.029	0.000	0.000	2.301
			20:COM7	-	16:COM3	-	-	16:COM3
			-1.307	-3.290	0.000	-1.190	-0.040	-2.114
			30:COM1	22:COM9	-	18:COM5	22:COM9	26:COM1
	1813	-ve	5.320	0.000	0.029	0.000	0.030	10.879
			20:COM7	-	16:COM3	-	16:COM3	16:COM3
			-1.307	-5.173	0.000	-1.190	-0.003	0.000
			30:COM1	22:COM9	-	18:COM5	26:COM1	-
3801	1813	+ve	2.339	0.000	0.138	0.000	0.000	10.755
			28:COM1	-	20:COM7	-	-	16:COM3
			-5.611	-5.579	0.000	-0.447	-0.142	-0.077
			22:COM9	22:COM9	-	18:COM5	22:COM9	26:COM1
	1699	-ve	2.339	0.000	0.138	0.000	0.159	23.990
			28:COM1	-	20:COM7	-	20:COM7	20:COM7
			-5.611	-7.462	0.000	-0.447	0.000	0.000
			22:COM9	22:COM9	-	18:COM5	-	-
3802	1814	+ve	7.329	7.092	0.002	0.000	0.027	12.382
			20:COM7	16:COM3	28:COM1	-	20:COM7	16:COM3
			-5.216	0.000	-0.042	-0.666	-0.008	-6.350
			30:COM1	-	22:COM9	18:COM5	30:COM1	26:COM1
	1815	-ve	7.329	5.397	0.002	0.000	0.000	1.864
			20:COM7	16:COM3	28:COM1	-	-	24:COM1
			-5.216	0.000	-0.042	-0.666	-0.056	-9.907
			30:COM1	-	22:COM9	18:COM5	22:COM9	18:COM5
3803	1815	+ve	7.534	4.922	0.005	0.244	0.014	1.734
			20:COM7	16:COM3	28:COM1	24:COM1	28:COM1	24:COM1
			-5.197	-0.716	-0.021	-0.543	-0.011	-9.935
			30:COM1	26:COM1	22:COM9	18:COM5	22:COM9	18:COM5
	1816	-ve	7.534	3.227	0.005	0.244	0.000	0.000
			20:COM7	16:COM3	28:COM1	24:COM1	-	-
			-5.197	-1.987	-0.021	-0.543	-0.028	-8.825
			30:COM1	26:COM1	22:COM9	18:COM5	22:COM9	35:CVOL
3804	1816	+ve	6.460	1.962	0.001	0.568	0.029	0.000
			20:COM7	24:COM1	28:COM1	16:COM3	20:COM7	-
			-6.184	-2.783	-0.032	-0.189	-0.006	-8.819
			30:COM1	18:COM5	22:COM9	26:COM1	30:COM1	35:CVOL
	1817	-ve	6.460	0.691	0.001	0.568	0.000	0.635
			20:COM7	24:COM1	28:COM1	16:COM3	-	24:COM1
			-6.184	-4.478	-0.032	-0.189	-0.034	-9.645
			30:COM1	18:COM5	22:COM9	26:COM1	22:COM9	18:COM5
3805	1817	+ve	5.515	0.000	0.011	0.621	0.013	0.762
			28:COM1	-	24:COM1	34:CVOL	16:COM3	24:COM1
			-8.060	-4.527	-0.014	0.000	-0.012	-9.595
			22:COM9	18:COM5	18:COM5	-	26:COM1	18:COM5
	1818	-ve	5.515	0.000	0.011	0.621	0.011	9.350
			28:COM1	-	24:COM1	34:CVOL	24:COM1	16:COM3
			-8.060	-6.223	-0.014	0.000	-0.017	-5.107
			22:COM9	18:COM5	18:COM5	-	18:COM5	26:COM1

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
3806	1818	+ve	2.680	0.000	0.146	1.189	0.000	9.452
			28:COM1	-	16:COM3	16:COM3	-	16:COM3
			-12.217	-5.388	0.000	-0.169	-0.134	-4.974
			22:COM9	35:CVOL4	-	26:COM1	18:COM5	26:COM1
	1700	-ve	2.680	0.000	0.146	1.189	0.152	20.821
			28:COM1	-	16:COM3	16:COM3	16:COM3	16:COM3
			-12.217	-7.097	0.000	-0.169	0.000	0.000
			22:COM9	33:CVOL2	-	26:COM1	-	-
3807	1819	+ve	5.132	6.196	0.005	0.000	0.011	9.381
			28:COM1	16:COM3	16:COM3	-	24:COM11	16:COM3
			-9.749	0.000	-0.009	-0.643	-0.010	-4.195
			22:COM9	-	26:COM1	18:COM5	18:COM5	26:COM1
	1820	-ve	5.132	4.501	0.005	0.000	0.003	0.664
			28:COM1	16:COM3	16:COM3	-	16:COM3	24:COM1
			-9.749	0.000	-0.009	-0.643	-0.009	-8.982
			22:COM9	-	26:COM1	18:COM5	26:COM1	18:COM5
3808	1820	+ve	5.614	4.447	0.032	0.241	0.012	0.525
			28:COM1	16:COM3	16:COM3	24:COM1	24:COM11	24:COM1
			-8.845	-0.332	-0.015	-0.623	-0.033	-9.018
			22:COM9	26:COM1	26:COM1	18:COM5	18:COM5	18:COM5
	1821	-ve	5.614	2.751	0.032	0.241	0.031	0.000
			28:COM1	16:COM3	16:COM3	24:COM1	16:COM3	-
			-8.845	-1.604	-0.015	-0.623	-0.017	-8.847
			22:COM9	26:COM1	26:COM1	18:COM5	26:COM1	35:CVOL4
3809	1821	+ve	5.884	1.712	0.018	0.576	0.023	0.000
			28:COM1	24:COM11	24:COM11	16:COM3	16:COM3	-
			-8.433	-2.577	-0.027	-0.271	-0.019	-8.855
			22:COM9	18:COM5	18:COM5	26:COM1	26:COM1	35:CVOL4
	1822	-ve	5.884	0.441	0.018	0.576	0.015	0.470
			28:COM1	24:COM11	24:COM11	16:COM3	24:COM11	24:COM1
			-8.433	-4.272	-0.027	-0.271	-0.030	-9.526
			22:COM9	18:COM5	18:COM5	26:COM1	18:COM5	18:COM5
3810	1822	+ve	5.804	0.000	0.009	0.632	0.001	0.605
			28:COM1	-	24:COM11	16:COM3	24:COM11	24:COM1
			-8.484	-4.425	-0.007	0.000	-0.012	-9.503
			22:COM9	18:COM5	18:COM5	-	18:COM5	18:COM5
	1823	-ve	5.804	0.000	0.009	0.632	0.011	8.995
			28:COM1	-	24:COM11	16:COM3	28:COM1	16:COM3
			-8.484	-6.120	-0.007	0.000	-0.018	-4.705
			22:COM9	18:COM5	18:COM5	-	22:COM9	26:COM1
3811	1823	+ve	3.451	0.000	0.143	1.136	0.000	9.102
			28:COM1	-	16:COM3	16:COM3	-	16:COM3
			-10.805	-5.457	0.000	-0.139	-0.133	-4.588
			22:COM9	22:COM9	-	26:COM1	18:COM5	26:COM1
	1701	-ve	3.451	0.000	0.143	1.136	0.145	20.388
			28:COM1	-	16:COM3	16:COM3	16:COM3	16:COM3
			-10.805	-7.152	0.000	-0.139	0.000	0.000
			22:COM9	22:COM9	-	26:COM1	-	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
3812	1824	+ve	5.531	6.235	0.008	0.000	0.012	9.488
			28:COM15	16:COM3	16:COM3	-	28:COM15	16:COM3
			-8.784	0.000	-0.011	-0.652	-0.020	-4.351
			22:COM9	-	26:COM13	18:COM5	22:COM9	26:COM13
	1825	-ve	5.531	4.540	0.008	0.000	0.000	0.722
			28:COM15	16:COM3	16:COM3	-	24:COM11	24:COM11
			-8.784	0.000	-0.011	-0.652	-0.014	-9.148
			22:COM9	-	26:COM13	18:COM5	18:COM5	18:COM5
3813	1825	+ve	5.337	4.459	0.023	0.252	0.014	0.581
			28:COM15	16:COM3	16:COM3	24:COM11	24:COM11	24:COM11
			-8.913	-0.303	-0.018	-0.628	-0.025	-9.180
			22:COM9	26:COM13	26:COM13	18:COM5	18:COM5	18:COM5
	1826	-ve	5.337	2.764	0.023	0.252	0.021	0.000
			28:COM15	16:COM3	16:COM3	24:COM11	16:COM3	-
			-8.913	-1.575	-0.018	-0.628	-0.021	-8.961
			22:COM9	26:COM13	26:COM13	18:COM5	26:COM13	34:CVOL3
3814	1826	+ve	4.755	1.692	0.011	0.578	0.030	0.000
			28:COM15	24:COM11	24:COM11	16:COM3	16:COM3	-
			-9.525	-2.491	-0.033	-0.273	-0.011	-8.967
			22:COM9	18:COM5	18:COM5	26:COM13	26:COM13	34:CVOL3
	1827	-ve	4.755	0.421	0.011	0.578	0.010	0.123
			28:COM15	24:COM11	24:COM11	16:COM3	24:COM11	24:COM11
			-9.525	-4.186	-0.033	-0.273	-0.034	-9.491
			22:COM9	18:COM5	18:COM5	26:COM13	18:COM5	18:COM5
3815	1827	+ve	3.883	0.000	0.010	0.606	0.005	0.256
			28:COM15	-	24:COM11	16:COM3	16:COM3	24:COM11
			-10.585	-4.270	-0.007	0.000	-0.009	-9.466
			22:COM9	18:COM5	18:COM5	-	26:COM13	18:COM5
	1828	-ve	3.883	0.000	0.010	0.606	0.012	8.295
			28:COM15	-	24:COM11	16:COM3	24:COM11	16:COM3
			-10.585	-5.965	-0.007	0.000	-0.009	-4.521
			22:COM9	18:COM5	18:COM5	-	18:COM5	26:COM13
3816	1828	+ve	0.901	0.000	0.160	1.138	0.000	8.390
			28:COM15	-	16:COM3	16:COM3	-	16:COM3
			-14.096	-5.350	0.000	-0.212	-0.142	-4.402
			22:COM9	35:CVOL4	-	26:COM13	18:COM5	26:COM13
	1702	-ve	0.901	0.000	0.160	1.138	0.170	19.260
			28:COM15	-	16:COM3	16:COM3	16:COM3	16:COM3
			-14.096	-7.046	0.000	-0.212	0.000	0.000
			22:COM9	35:CVOL4	-	26:COM13	-	-
3817	1829	+ve	3.397	6.240	0.011	0.000	0.012	9.738
			28:COM15	16:COM3	16:COM3	-	24:COM11	16:COM3
			-8.780	0.000	-0.009	-0.675	-0.013	-5.461
			22:COM9	-	26:COM13	34:CVOL3	18:COM5	26:COM13
	1830	-ve	3.397	4.544	0.011	0.000	0.014	0.902
			28:COM15	16:COM3	16:COM3	-	20:COM7	24:COM11
			-8.780	0.000	-0.009	-0.675	-0.012	-9.036
			22:COM9	-	26:COM13	34:CVOL3	30:COM17	18:COM5

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
3818	1830	+ve	3.954	4.506	0.040	0.149	0.000	0.764
			28:COM15	16:COM3	20:COM7	24:COM17	-	24:COM17
			-6.587	-1.077	-0.001	-0.643	-0.040	-9.102
			22:COM9	26:COM13	30:COM17	18:COM5	22:COM9	18:COM5
	1831	-ve	3.954	2.811	0.040	0.149	0.039	0.000
			28:COM15	16:COM3	20:COM7	24:COM17	20:COM7	-
			-6.587	-2.349	-0.001	-0.643	-0.005	-8.189
			22:COM9	26:COM13	30:COM17	18:COM5	30:COM17	18:COM5
3819	1831	+ve	4.098	1.957	0.034	0.517	0.003	0.000
			28:COM15	24:COM11	16:COM3	16:COM3	24:COM11	-
			-5.068	-3.755	-0.007	-0.293	-0.037	-8.295
			22:COM9	18:COM5	26:COM13	26:COM13	18:COM5	18:COM5
	1832	-ve	4.098	0.686	0.034	0.517	0.030	3.767
			28:COM15	24:COM11	16:COM3	16:COM3	16:COM3	24:COM17
			-5.068	-5.450	-0.007	-0.293	-0.012	-9.538
			22:COM9	18:COM5	26:COM13	26:COM13	26:COM13	18:COM5
3820	1832	+ve	3.158	0.000	0.040	0.744	0.000	3.901
			28:COM15	-	20:COM7	16:COM3	-	24:COM17
			-4.776	-6.146	-0.002	0.000	-0.050	-9.524
			22:COM9	18:COM5	30:COM17	-	22:COM9	18:COM5
	1833	-ve	3.158	0.000	0.040	0.744	0.030	16.226
			28:COM15	-	20:COM7	16:COM3	20:COM7	16:COM3
			-4.776	-7.841	-0.002	0.000	-0.008	-5.925
			22:COM9	18:COM5	30:COM17	-	30:COM17	26:COM13
3821	1833	+ve	0.000	0.000	0.180	1.084	0.000	16.397
			-	-	20:COM7	16:COM3	-	16:COM3
			-6.409	-7.357	0.000	0.000	-0.156	-5.828
			18:COM5	18:COM5	-	-	22:COM9	26:COM13
	1703	-ve	0.000	0.000	0.180	1.084	0.194	32.356
			-	-	20:COM7	16:COM3	20:COM7	16:COM3
			-6.409	-9.052	0.000	0.000	0.000	0.000
			18:COM5	18:COM5	-	-	-	-
3822	1834	+ve	1.030	6.920	0.098	0.579	0.103	15.792
			24:COM17	34:CVOL3	24:COM11	24:COM17	16:COM3	16:COM3
			-2.017	0.000	-0.108	-0.135	-0.094	0.000
			18:COM5	-	18:COM5	18:COM5	26:COM13	-
	1835	-ve	1.030	5.130	0.098	0.579	0.107	6.028
			24:COM17	34:CVOL3	24:COM11	24:COM17	24:COM11	16:COM3
			-2.017	0.000	-0.108	-0.135	-0.119	-1.838
			18:COM5	-	18:COM5	18:COM5	18:COM5	26:COM13
3823	1835	+ve	1.058	4.676	0.167	0.813	0.082	5.980
			16:COM3	34:CVOL3	16:COM3	16:COM3	24:COM11	16:COM3
			-0.748	0.000	-0.076	0.000	-0.180	-1.644
			26:COM13	-	26:COM13	-	18:COM5	26:COM13
	1836	-ve	1.058	2.886	0.167	0.813	0.165	1.798
			16:COM3	34:CVOL3	16:COM3	16:COM3	16:COM3	24:COM17
			-0.748	0.000	-0.076	0.000	-0.075	-7.824
			26:COM13	-	26:COM13	-	26:COM13	18:COM5

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
3824	1836	+ve	0.671	2.791	0.142	3.566	0.237	2.137
			16:COM3	33:CVOL2	16:COM3	20:COM7	24:COM11	24:COM1
			-0.618	0.000	-0.105	0.000	-0.345	-7.018
			26:COM1	-	26:COM1	-	18:COM5	18:COM5
	1705	-ve	0.671	0.000	0.142	3.566	0.241	0.000
			16:COM3	-	16:COM3	20:COM7	16:COM3	-
			-0.618	-2.410	-0.105	0.000	-0.194	-5.111
			26:COM1	18:COM5	26:COM1	-	26:COM1	22:COM9
3826	1838	+ve	4.161	0.000	0.000	0.000	0.081	13.848
			16:COM3	-	-	-	16:COM3	16:COM3
			-2.854	-4.285	-0.083	-0.453	0.000	-8.264
			26:COM1	22:COM9	18:COM5	18:COM5	-	26:COM1
	1730	-ve	4.161	0.000	0.000	0.000	0.000	20.029
			16:COM3	-	-	-	-	16:COM3
			-2.854	-6.714	-0.083	-0.453	-0.081	-0.341
			26:COM1	22:COM9	18:COM5	18:COM5	18:COM5	26:COM1
3827	1839	+ve	6.454	0.694	0.015	0.000	0.022	2.757
			16:COM3	24:COM11	20:COM7	-	24:COM11	24:COM1
			-1.016	-5.116	-0.016	-0.339	-0.017	-10.337
			26:COM1	18:COM5	30:COM1	18:COM5	18:COM5	18:COM5
	1838	-ve	6.454	0.000	0.015	0.000	0.017	13.543
			16:COM3	-	20:COM7	-	20:COM7	16:COM3
			-1.016	-7.545	-0.016	-0.339	-0.013	-8.354
			26:COM1	18:COM5	30:COM1	18:COM5	30:COM1	26:COM1
3828	1840	+ve	6.178	2.919	0.030	0.009	0.027	0.000
			20:COM7	24:COM11	16:COM3	24:COM1	24:COM11	-
			-1.363	-3.059	-0.024	-0.130	-0.025	-7.932
			30:COM1	18:COM5	26:COM1	18:COM5	18:COM5	35:CVOL4
	1839	-ve	6.178	1.097	0.030	0.009	0.033	2.629
			20:COM7	24:COM11	16:COM3	24:COM1	16:COM3	24:COM1
			-1.363	-5.489	-0.024	-0.130	-0.020	-10.400
			30:COM1	18:COM5	26:COM1	18:COM5	26:COM1	18:COM5
3829	1841	+ve	5.752	5.731	0.021	0.142	0.040	2.842
			20:COM7	16:COM3	24:COM11	16:COM3	16:COM3	24:COM1
			-1.521	-0.964	-0.036	-0.006	-0.019	-9.873
			30:COM1	26:COM1	18:COM5	26:COM1	26:COM1	18:COM5
	1840	-ve	5.752	3.301	0.021	0.142	0.023	0.000
			20:COM7	16:COM3	24:COM11	16:COM3	24:COM11	-
			-1.521	-2.786	-0.036	-0.006	-0.030	-7.925
			30:COM1	26:COM1	18:COM5	26:COM1	18:COM5	35:CVOL4
3830	1842	+ve	4.678	7.696	0.016	0.361	0.010	14.277
			16:COM3	16:COM3	24:COM11	16:COM3	16:COM3	16:COM3
			-1.516	0.000	-0.014	0.000	-0.013	-7.896
			26:COM1	-	18:COM5	-	26:COM1	26:COM1
	1841	-ve	4.678	5.266	0.016	0.361	0.020	2.981
			16:COM3	16:COM3	24:COM11	16:COM3	24:COM11	24:COM1
			-1.516	-0.626	-0.014	0.000	-0.018	-9.793
			26:COM1	26:COM1	18:COM5	-	18:COM5	18:COM5

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
3831	1842	+ve	0.341	1.713	0.000	0.000	0.183	0.262
			24:COM1	24:COM1	-	-	20:COM7	24:COM1
			-6.360	-6.260	-0.486	-0.261	0.000	-1.103
			18:COM5	18:COM5	22:COM9	18:COM5	-	18:COM5
	1758	-ve	0.341	0.896	0.000	0.000	0.000	4.113
			24:COM1	24:COM1	-	-	-	16:COM3
			-6.360	-7.649	-0.486	-0.261	-0.182	-0.717
			18:COM5	18:COM5	22:COM9	18:COM5	22:COM9	26:COM1
3832	1841	+ve	0.000	0.570	0.000	0.000	0.148	0.088
			-	16:COM3	-	-	16:COM3	16:COM3
			-1.982	-0.698	-0.364	-0.150	-0.004	-0.127
			18:COM5	26:COM1	18:COM5	18:COM5	26:COM1	26:COM1
	1759	-ve	0.000	0.000	0.000	0.000	0.000	0.788
			-	-	-	-	-	16:COM3
			-1.982	-1.855	-0.364	-0.150	-0.125	0.000
			18:COM5	18:COM5	18:COM5	18:COM5	18:COM5	-
3833	1840	+ve	0.000	0.803	0.080	0.025	0.052	0.126
			-	35:CVOL4	24:COM1	24:COM1	16:COM3	20:COM7
			-0.891	0.000	-0.119	-0.028	-0.037	-0.040
			32:CVOL1	-	18:COM5	18:COM5	26:COM1	30:COM1
	1760	-ve	0.000	0.000	0.080	0.025	0.023	0.368
			-	-	24:COM1	24:COM1	24:COM1	32:CVOL1
			-0.891	-1.112	-0.119	-0.028	-0.037	0.000
			32:CVOL1	32:CVOL1	18:COM5	18:COM5	18:COM5	-
3834	1839	+ve	0.000	0.679	0.302	0.140	0.017	0.075
			-	16:COM3	16:COM3	16:COM3	24:COM1	16:COM3
			-1.591	-0.649	-0.029	0.000	-0.123	-0.086
			18:COM5	26:COM1	26:COM1	-	18:COM5	26:COM1
	1761	-ve	0.000	0.000	0.302	0.140	0.103	0.772
			-	-	16:COM3	16:COM3	16:COM3	16:COM3
			-1.591	-1.763	-0.029	0.000	-0.005	0.000
			18:COM5	18:COM5	26:COM1	-	26:COM1	-
3835	1838	+ve	0.422	2.130	0.468	0.250	0.000	0.302
			24:COM1	24:COM1	20:COM7	20:COM7	-	24:COM1
			-5.750	-5.698	0.000	0.000	-0.175	-0.984
			18:COM5	18:COM5	-	-	22:COM9	18:COM5
	1762	-ve	0.422	1.313	0.468	0.250	0.176	3.810
			24:COM1	24:COM1	20:COM7	20:COM7	20:COM7	16:COM3
			-5.750	-7.087	0.000	0.000	0.000	-0.989
			18:COM5	18:COM5	-	-	-	26:COM1
3836	1843	+ve	13.757	0.000	2.522	7.080	0.000	46.573
			28:COM1	-	16:COM3	16:COM3	-	16:COM3
			-20.314	-41.334	0.000	-0.024	-2.178	-32.914
			22:COM9	18:COM5	-	26:COM1	22:COM9	26:COM1
	1667	-ve	13.757	0.000	2.522	7.080	2.829	129.354
			28:COM1	-	16:COM3	16:COM3	16:COM3	16:COM3
			-20.314	-43.583	0.000	-0.024	0.000	-18.384
			22:COM9	18:COM5	-	26:COM1	-	26:COM1

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
3837	1844	+ve	10.411	0.112	1.034	3.981	0.000	1.942
			28:COM15	24:COM11	20:COM7	20:COM7	-	24:COM1
			-18.129	-26.921	-0.132	0.000	-0.798	-44.159
			22:COM9	18:COM5	30:COM17	-	18:COM5	18:COM5
	1843	-ve	10.411	0.000	1.034	3.981	1.229	46.681
			28:COM15	-	20:COM7	20:COM7	20:COM7	16:COM3
			-18.129	-29.169	-0.132	0.000	-0.307	-32.785
			22:COM9	18:COM5	30:COM17	-	30:COM17	26:COM13
3838	1845	+ve	9.809	6.787	0.373	2.521	0.014	0.000
			28:COM15	24:COM11	16:COM3	16:COM3	24:COM11	-
			-16.698	-13.833	-0.034	-0.443	-0.440	-40.525
			22:COM9	18:COM5	26:COM13	26:COM13	18:COM5	35:CVOL4
	1844	-ve	9.809	5.101	0.373	2.521	0.291	2.071
			28:COM15	24:COM11	16:COM3	16:COM3	16:COM3	24:COM1
			-16.698	-16.082	-0.034	-0.443	-0.056	-44.120
			22:COM9	18:COM5	26:COM13	26:COM13	26:COM13	18:COM5
3839	1846	+ve	9.627	16.656	0.316	0.733	0.226	2.960
			28:COM15	16:COM3	16:COM3	24:COM1	24:COM11	24:COM1
			-14.317	-4.701	-0.229	-2.683	-0.373	-43.122
			22:COM9	26:COM13	26:COM13	18:COM5	18:COM5	18:COM5
	1845	-ve	9.627	14.408	0.316	0.733	0.247	0.000
			28:COM15	16:COM3	16:COM3	24:COM1	16:COM3	-
			-14.317	-6.388	-0.229	-2.683	-0.223	-40.533
			22:COM9	26:COM13	26:COM13	18:COM5	26:COM13	35:CVOL4
3840	1847	+ve	9.760	29.255	0.000	0.000	0.792	48.424
			28:COM15	16:COM3	-	-	20:COM7	16:COM3
			-13.482	0.000	-0.972	-4.029	-0.090	-31.746
			22:COM9	-	18:COM5	18:COM5	30:COM17	26:COM13
	1846	-ve	9.760	27.006	0.000	0.000	0.000	2.827
			28:COM15	16:COM3	-	-	-	24:COM1
			-13.482	0.000	-0.972	-4.029	-1.119	-43.164
			22:COM9	-	18:COM5	18:COM5	18:COM5	18:COM5
3841	1848	+ve	13.333	0.000	2.009	6.568	0.000	45.599
			28:COM15	-	20:COM7	20:COM7	-	16:COM3
			-18.518	-41.150	0.000	0.000	-1.775	-32.601
			22:COM9	18:COM5	-	-	18:COM5	26:COM13
	1668	-ve	13.333	0.000	2.009	6.568	2.261	127.992
			28:COM15	-	20:COM7	20:COM7	20:COM7	16:COM3
			-18.518	-43.399	0.000	0.000	0.000	-17.452
			22:COM9	18:COM5	-	-	-	26:COM13
3842	1849	+ve	9.960	0.000	0.642	3.800	0.203	1.521
			28:COM15	-	28:COM15	20:COM7	24:COM11	24:COM1
			-18.374	-26.727	-0.405	0.000	-0.516	-44.480
			22:COM9	18:COM5	22:COM9	-	18:COM5	18:COM5
	1848	-ve	9.960	0.000	0.642	3.800	0.777	45.730
			28:COM15	-	28:COM15	20:COM7	28:COM15	16:COM3
			-18.374	-28.976	-0.405	0.000	-0.628	-32.475
			22:COM9	18:COM5	22:COM9	-	22:COM9	26:COM13

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
3843	1850	+ve	9.769	6.641	0.115	2.556	0.198	0.000
			28:COM15	24:COM11	24:COM11	16:COM3	16:COM3	-
			-18.823	-13.612	-0.222	-0.911	-0.142	-40.808
			22:COM9	18:COM5	18:COM5	26:COM13	26:COM13	34:CVOL3
	1849	-ve	9.769	4.954	0.115	2.556	0.088	1.671
			28:COM15	24:COM11	24:COM11	16:COM3	24:COM11	24:COM11
			-18.823	-15.861	-0.222	-0.911	-0.242	-44.440
			22:COM9	18:COM5	18:COM5	26:COM13	18:COM5	18:COM5
3844	1851	+ve	9.536	16.799	0.125	0.758	0.188	2.599
			28:COM15	16:COM3	24:COM11	24:COM11	16:COM3	24:COM11
			-18.708	-4.454	-0.192	-2.844	-0.158	-42.570
			22:COM9	26:COM13	18:COM5	18:COM5	26:COM13	18:COM5
	1850	-ve	9.536	14.550	0.125	0.758	0.090	0.000
			28:COM15	16:COM3	24:COM11	24:COM11	24:COM11	-
			-18.708	-6.141	-0.192	-2.844	-0.191	-40.814
			22:COM9	26:COM13	18:COM5	18:COM5	18:COM5	34:CVOL3
3845	1852	+ve	9.371	29.994	0.200	0.000	0.927	49.483
			28:COM15	16:COM3	24:COM11	-	16:COM3	16:COM3
			-17.924	0.000	-0.791	-4.184	-0.311	-30.399
			22:COM9	-	18:COM5	22:COM9	26:COM13	26:COM13
	1851	-ve	9.371	27.745	0.200	0.000	0.081	2.448
			28:COM15	16:COM3	24:COM11	-	24:COM11	24:COM11
			-17.924	0.000	-0.791	-4.184	-0.618	-42.618
			22:COM9	-	18:COM5	22:COM9	18:COM5	18:COM5
3846	1853	+ve	10.568	0.000	2.468	6.441	0.000	45.602
			28:COM15	-	20:COM7	16:COM3	-	16:COM3
			-19.590	-41.316	0.000	-0.078	-2.156	-32.500
			22:COM9	18:COM5	-	26:COM13	22:COM9	26:COM13
	1669	-ve	10.568	0.000	2.468	6.441	2.730	128.326
			28:COM15	-	20:COM7	16:COM3	20:COM7	16:COM3
			-19.590	-43.564	0.000	-0.078	0.000	-17.388
			22:COM9	18:COM5	-	26:COM13	-	26:COM13
3847	1854	+ve	8.370	0.000	0.846	3.599	0.065	1.305
			28:COM15	-	16:COM3	20:COM7	24:COM11	24:COM11
			-19.480	-26.841	-0.134	0.000	-0.674	-44.407
			22:COM9	18:COM5	26:COM13	-	18:COM5	18:COM5
	1853	-ve	8.370	0.000	0.846	3.599	0.979	45.723
			28:COM15	-	16:COM3	20:COM7	16:COM3	16:COM3
			-19.480	-29.090	-0.134	0.000	-0.201	-32.372
			22:COM9	18:COM5	26:COM13	-	26:COM13	26:COM13
3848	1855	+ve	8.628	6.607	0.189	2.541	0.091	0.000
			28:COM15	24:COM11	16:COM3	16:COM3	24:COM11	-
			-19.931	-13.660	-0.094	-0.940	-0.206	-41.014
			22:COM9	18:COM5	26:COM13	26:COM13	18:COM5	34:CVOL3
	1854	-ve	8.628	4.920	0.189	2.541	0.169	1.453
			28:COM15	24:COM11	16:COM3	16:COM3	16:COM3	24:COM11
			-19.931	-15.909	-0.094	-0.940	-0.099	-44.369
			22:COM9	18:COM5	26:COM13	26:COM13	26:COM13	18:COM5

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
3849	1856	+ve	8.932	16.726	0.228	0.824	0.079	2.510
			28:COM15	16:COM3	16:COM3	24:COM11	24:COM11	24:COM11
			-19.545	-4.436	-0.080	-2.909	-0.269	-42.895
			22:COM9	26:COM13	26:COM13	18:COM5	18:COM5	18:COM5
	1855	-ve	8.932	14.477	0.228	0.824	0.185	0.000
			28:COM15	16:COM3	16:COM3	24:COM11	16:COM3	-
			-19.545	-6.123	-0.080	-2.909	-0.086	-41.021
			22:COM9	26:COM13	26:COM13	18:COM5	26:COM13	34:CVOL3
3850	1857	+ve	9.244	29.905	0.478	0.000	0.676	49.126
			28:COM15	16:COM3	20:COM7	-	28:COM15	16:COM3
			-18.590	0.000	-0.553	-4.193	-0.721	-30.535
			22:COM9	-	30:COM17	22:COM9	22:COM9	26:COM13
	1856	-ve	9.244	27.657	0.478	0.000	0.231	2.357
			28:COM15	16:COM3	20:COM7	-	16:COM3	24:COM11
			-18.590	0.000	-0.553	-4.193	-0.423	-42.941
			22:COM9	-	30:COM17	22:COM9	26:COM13	18:COM5
3851	1858	+ve	9.404	0.000	4.192	6.472	0.729	51.282
			20:COM7	-	20:COM7	34:CVOL3	28:COM15	16:COM3
			-8.288	-40.879	-0.823	0.000	-3.803	-33.784
			30:COM17	18:COM5	30:COM17	-	22:COM9	26:COM13
	1670	-ve	9.404	0.000	4.192	6.472	4.379	133.177
			20:COM7	-	20:COM7	34:CVOL3	20:COM7	16:COM3
			-8.288	-43.128	-0.823	0.000	-0.885	-20.617
			30:COM17	18:COM5	30:COM17	-	30:COM17	26:COM13
3852	1859	+ve	8.012	0.343	0.951	4.459	0.000	5.431
			28:COM15	24:COM11	20:COM7	16:COM3	-	24:COM11
			-11.619	-27.192	0.000	0.000	-0.968	-43.871
			22:COM9	18:COM5	-	-	22:COM9	18:COM5
	1858	-ve	8.012	0.000	0.951	4.459	0.901	51.431
			28:COM15	-	20:COM7	16:COM3	20:COM7	16:COM3
			-11.619	-29.441	0.000	0.000	-0.137	-33.678
			22:COM9	18:COM5	-	-	30:COM17	26:COM13
3853	1860	+ve	7.733	6.908	0.290	2.567	0.141	0.000
			28:COM15	24:COM11	20:COM7	16:COM3	28:COM15	-
			-12.936	-14.661	-0.136	-1.042	-0.275	-39.156
			22:COM9	18:COM5	30:COM17	26:COM13	22:COM9	35:CVOL4
	1859	-ve	7.733	5.221	0.290	2.567	0.296	5.566
			28:COM15	24:COM11	20:COM7	16:COM3	20:COM7	24:COM11
			-12.936	-16.910	-0.136	-1.042	-0.129	-43.838
			22:COM9	18:COM5	30:COM17	26:COM13	30:COM17	18:COM5
3854	1861	+ve	7.725	16.748	0.078	0.210	0.278	3.216
			28:COM15	16:COM3	28:COM15	24:COM11	16:COM3	24:COM11
			-15.343	-5.588	-0.307	-3.019	-0.097	-42.529
			22:COM9	26:COM13	22:COM9	18:COM5	26:COM13	18:COM5
	1860	-ve	7.725	14.500	0.078	0.210	0.073	0.000
			28:COM15	16:COM3	28:COM15	24:COM11	28:COM15	-
			-15.343	-7.274	-0.307	-3.019	-0.339	-39.163
			22:COM9	26:COM13	22:COM9	18:COM5	22:COM9	35:CVOL4

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
3855	1862	+ve	8.359	29.846	0.101	0.000	1.273	49.960
			28:COM15	16:COM3	24:COM11	-	20:COM7	16:COM3
			-16.803	0.000	-1.068	-4.731	-0.224	-32.949
			22:COM9	-	18:COM5	22:COM9	30:COM17	26:COM13
	1861	-ve	8.359	27.597	0.101	0.000	0.000	3.076
			28:COM15	16:COM3	24:COM11	-	-	24:COM17
			-16.803	-0.584	-1.068	-4.731	-0.827	-42.579
			22:COM9	26:COM13	18:COM5	22:COM9	18:COM5	18:COM5
3856	1863	+ve	9.874	0.000	0.000	5.850	2.419	41.133
			28:COM15	-	-	20:COM7	20:COM7	20:COM7
			-11.289	-43.661	-2.975	0.000	0.000	-24.918
			22:COM9	22:COM9	22:COM9	-	-	30:COM17
	1671	-ve	9.874	0.000	0.000	5.850	0.000	129.971
			28:COM15	-	-	20:COM7	-	20:COM7
			-11.289	-45.948	-2.975	0.000	-3.604	-12.927
			22:COM9	22:COM9	22:COM9	-	22:COM9	30:COM17
3857	1864	+ve	4.838	0.439	1.752	6.023	3.376	0.000
			28:COM15	28:COM15	28:COM15	20:COM7	20:COM7	-
			-8.562	-28.257	-2.879	-0.952	-2.066	-38.497
			22:COM9	22:COM9	22:COM9	30:COM17	30:COM17	22:COM9
	1863	-ve	4.838	0.000	1.752	6.023	1.415	41.142
			28:COM15	-	28:COM15	20:COM7	28:COM15	20:COM7
			-8.562	-30.544	-2.879	-0.952	-2.341	-24.710
			22:COM9	22:COM9	22:COM9	30:COM17	22:COM9	30:COM17
3858	1865	+ve	3.502	4.404	1.696	4.187	2.405	0.000
			28:COM15	28:COM15	28:COM15	16:COM3	20:COM7	-
			-6.604	-13.822	-2.596	-1.309	-1.266	-50.718
			22:COM9	22:COM9	22:COM9	26:COM13	30:COM17	35:CVOL4
	1864	-ve	3.502	2.689	1.696	4.187	2.097	0.000
			28:COM15	28:COM15	28:COM15	16:COM3	28:COM15	-
			-6.604	-16.109	-2.596	-1.309	-2.744	-38.251
			22:COM9	22:COM9	22:COM9	26:COM13	22:COM9	22:COM9
3859	1866	+ve	3.116	9.001	1.545	0.536	3.266	0.000
			28:COM15	20:COM7	28:COM15	20:COM7	20:COM7	-
			-5.291	-1.979	-2.303	-0.539	-2.398	-49.607
			22:COM9	30:COM17	22:COM9	30:COM17	30:COM17	22:COM9
	1865	-ve	3.116	6.714	1.545	0.536	0.698	0.000
			28:COM15	20:COM7	28:COM15	20:COM7	24:COM11	-
			-5.291	-3.695	-2.303	-0.539	-1.334	-50.637
			22:COM9	30:COM17	22:COM9	30:COM17	18:COM5	35:CVOL4
3860	1867	+ve	5.472	18.277	3.447	1.663	4.155	15.531
			16:COM3	20:COM7	28:COM15	28:COM15	20:COM7	28:COM15
			-2.142	0.000	-4.374	-3.760	-2.957	-27.294
			26:COM13	-	22:COM9	22:COM9	30:COM17	22:COM9
	1866	-ve	5.472	15.990	3.447	1.663	3.880	0.000
			16:COM3	20:COM7	28:COM15	28:COM15	28:COM15	-
			-2.142	0.000	-4.374	-3.760	-4.521	-49.517
			26:COM13	-	22:COM9	22:COM9	22:COM9	22:COM9

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
3861	1868	+ve	16.230	32.505	0.514	1.843	1.284	68.431
			16:COM3	34:CVOL3	28:COM15	28:COM15	34:CVOL3	20:COM7
			0.000	0.000	-1.744	-4.535	0.000	0.000
			-	-	22:COM9	22:COM9	-	-
	1867	-ve	16.230	30.217	0.514	1.843	1.366	15.243
			16:COM3	34:CVOL3	28:COM15	28:COM15	28:COM15	28:COM15
			0.000	0.000	-1.744	-4.535	-2.351	-27.470
			-	-	22:COM9	22:COM9	22:COM9	22:COM9
3862	1869	+ve	5.077	18.896	0.155	2.092	0.229	50.938
			24:COM1	28:COM15	20:COM7	28:COM15	28:COM15	28:COM15
			-9.160	-50.301	-0.131	-4.376	-0.146	-53.630
			18:COM5	22:COM9	30:COM1	22:COM9	22:COM9	22:COM9
	1641	-ve	5.077	17.271	0.155	2.092	0.168	145.211
			24:COM1	28:COM15	20:COM7	28:COM15	20:COM7	20:COM7
			-9.160	-52.468	-0.131	-4.376	-0.040	-85.344
			18:COM5	22:COM9	30:COM1	22:COM9	30:COM1	30:COM1
3863	1870	+ve	4.455	23.969	0.643	1.388	0.424	0.000
			24:COM1	28:COM15	20:COM7	28:COM15	28:COM15	-
			-9.508	-34.175	-0.347	-1.463	-0.662	-19.878
			18:COM5	22:COM9	30:COM1	22:COM9	22:COM9	34:CVOL3
	1869	-ve	4.455	22.345	0.643	1.388	0.548	51.137
			24:COM1	28:COM15	20:COM7	28:COM15	20:COM7	28:COM15
			-9.508	-36.342	-0.347	-1.463	-0.229	-53.583
			18:COM5	22:COM9	30:COM1	22:COM9	30:COM1	22:COM9
3864	1871	+ve	4.037	33.703	2.407	2.921	0.995	47.085
			24:COM1	20:COM7	20:COM7	16:COM3	28:COM15	28:COM15
			-9.004	-23.237	-0.652	-1.450	-2.678	-55.977
			18:COM5	30:COM1	30:COM1	26:COM1	22:COM9	22:COM9
	1870	-ve	4.037	31.536	2.407	2.921	1.846	0.000
			24:COM1	20:COM7	20:COM7	16:COM3	20:COM7	-
			-9.004	-24.862	-0.652	-1.450	-0.231	-19.739
			18:COM5	30:COM1	30:COM1	26:COM1	30:COM1	34:CVOL3
3865	1872	+ve	6.020	36.079	0.000	1.261	4.116	19.123
			28:COM15	20:COM7	-	28:COM15	20:COM7	28:COM15
			-8.697	-27.978	-4.454	-2.205	0.000	-38.410
			22:COM9	30:COM1	22:COM9	22:COM9	-	22:COM9
	1672	-ve	6.020	33.896	0.000	1.261	0.000	75.715
			28:COM15	28:COM15	-	28:COM15	-	28:COM15
			-8.697	-29.757	-4.454	-2.205	-4.664	-107.017
			22:COM9	22:COM9	22:COM9	22:COM9	22:COM9	22:COM9
3866	1873	+ve	4.102	43.584	0.000	2.486	0.979	44.608
			28:COM15	20:COM7	-	16:COM3	20:COM7	20:COM7
			-6.349	-22.148	-0.915	-0.229	0.000	-26.126
			22:COM9	30:COM1	18:COM5	26:COM1	-	30:COM1
	1872	-ve	4.102	41.296	0.000	2.486	0.375	19.514
			28:COM15	20:COM7	-	16:COM3	28:COM15	28:COM15
			-6.349	-23.864	-0.915	-0.229	-0.940	-39.584
			22:COM9	30:COM1	18:COM5	26:COM1	22:COM9	22:COM9

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
3867	1874	+ve	8.216	0.000	0.000	0.000	4.575	43.902
			16:COM3	-	-	-	20:COM7	16:COM3
			-5.114	-38.544	-5.174	-10.040	0.000	-19.388
			26:COM1	18:COM5	22:COM9	18:COM5	-	26:COM1
	1673	-ve	8.216	0.000	0.000	0.000	0.000	121.389
			16:COM3	-	-	-	-	16:COM3
			-5.114	-40.798	-5.174	-10.040	-5.573	-3.810
			26:COM1	18:COM5	22:COM9	18:COM5	22:COM9	26:COM1
3868	1875	+ve	6.684	0.000	0.269	0.000	1.532	4.729
			16:COM3	-	24:COM1	-	16:COM3	24:COM1
			-5.644	-23.846	-1.674	-7.622	-0.033	-36.542
			26:COM1	18:COM5	18:COM5	34:CVOL	26:COM1	18:COM5
	1874	-ve	6.684	0.000	0.269	0.000	0.496	44.057
			16:COM3	-	24:COM1	-	24:COM1	16:COM3
			-5.644	-26.101	-1.674	-7.622	-1.743	-19.312
			26:COM1	18:COM5	18:COM5	34:CVOL	18:COM5	26:COM1
3869	1876	+ve	6.865	1.246	0.155	0.098	0.391	0.000
			16:COM3	24:COM1	24:COM1	24:COM1	16:COM3	-
			-4.538	-13.103	-0.305	-4.662	-0.075	-44.266
			26:COM1	18:COM5	18:COM5	18:COM5	26:COM1	35:CVOL
	1875	-ve	6.865	0.000	0.155	0.098	0.256	4.808
			16:COM3	-	24:COM1	24:COM1	20:COM7	24:COM1
			-4.538	-15.358	-0.305	-4.662	-0.233	-36.498
			26:COM1	18:COM5	18:COM5	18:COM5	30:COM1	18:COM5
3870	1877	+ve	7.817	6.209	0.116	2.194	0.237	0.000
			20:COM7	16:COM3	24:COM1	16:COM3	16:COM3	-
			-4.811	-4.414	-0.117	-1.466	-0.074	-44.469
			30:COM1	26:COM1	18:COM5	26:COM1	26:COM1	35:CVOL
	1876	-ve	7.817	4.252	0.116	2.194	0.203	0.000
			20:COM7	24:COM1	24:COM1	16:COM3	20:COM7	-
			-4.811	-6.403	-0.117	-1.466	-0.042	-44.253
			30:COM1	18:COM5	18:COM5	26:COM1	30:COM1	35:CVOL
3871	1878	+ve	8.950	15.209	0.329	5.398	0.280	3.589
			20:COM7	16:COM3	16:COM3	16:COM3	16:COM3	24:COM1
			-5.504	0.000	-0.135	0.000	-0.290	-36.238
			30:COM1	-	26:COM1	-	26:COM1	18:COM5
	1877	-ve	8.950	12.954	0.329	5.398	0.376	0.000
			20:COM7	16:COM3	16:COM3	16:COM3	16:COM3	-
			-5.504	-1.363	-0.135	0.000	-0.006	-44.550
			30:COM1	26:COM1	26:COM1	-	26:COM1	35:CVOL
3872	1879	+ve	9.721	26.367	1.742	7.625	0.760	43.083
			20:COM7	16:COM3	16:COM3	34:CVOL	24:COM1	16:COM3
			-6.546	0.000	-0.373	0.000	-1.916	-18.521
			30:COM1	-	26:COM1	-	18:COM5	26:COM1
	1878	-ve	9.721	24.112	1.742	7.625	1.503	3.485
			20:COM7	16:COM3	16:COM3	34:CVOL	16:COM3	24:COM1
			-6.546	0.000	-0.373	0.000	0.000	-36.345
			30:COM1	-	26:COM1	-	-	18:COM5

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
3873	1880	+ve	16.176	0.000	0.000	0.000	4.254	49.921
			16:COM3	-	-	-	20:COM7	16:COM3
			-9.351	-38.999	-4.850	-10.492	0.000	-24.216
			26:COM1	18:COM5	22:COM9	35:CVOL4	-	26:COM1
	1674	-ve	16.176	0.000	0.000	0.000	0.000	129.064
			16:COM3	-	-	-	-	16:COM3
			-9.351	-41.273	-4.850	-10.492	-5.375	-9.623
			26:COM1	18:COM5	22:COM9	35:CVOL4	22:COM9	26:COM1
3874	1881	+ve	14.287	0.000	0.590	0.000	1.428	8.050
			16:COM3	-	24:COM1	-	16:COM3	24:COM1
			-9.597	-24.767	-1.719	-8.324	-0.135	-38.977
			26:COM1	18:COM5	18:COM5	34:CVOL3	26:COM1	18:COM5
	1880	-ve	14.287	0.000	0.590	0.000	1.034	50.083
			16:COM3	-	24:COM1	-	24:COM1	16:COM3
			-9.597	-27.043	-1.719	-8.324	-1.968	-24.120
			26:COM1	18:COM5	18:COM5	34:CVOL3	18:COM5	26:COM1
3875	1882	+ve	13.125	2.442	0.275	0.059	0.457	0.000
			16:COM3	24:COM1	28:COM1	24:COM1	20:COM7	-
			-8.390	-14.126	-0.437	-5.567	-0.116	-43.625
			26:COM1	18:COM5	22:COM9	18:COM5	30:COM1	35:CVOL4
	1881	-ve	13.125	0.735	0.275	0.059	0.450	8.137
			16:COM3	24:COM1	28:COM1	24:COM1	20:COM7	24:COM1
			-8.390	-16.401	-0.437	-5.567	-0.430	-38.894
			26:COM1	18:COM5	22:COM9	18:COM5	30:COM1	18:COM5
3876	1883	+ve	12.081	7.485	0.167	1.731	0.299	0.000
			16:COM3	16:COM3	28:COM1	24:COM1	16:COM3	-
			-7.827	-5.295	-0.243	-1.932	-0.077	-43.310
			26:COM1	26:COM1	22:COM9	18:COM5	26:COM1	35:CVOL4
	1882	-ve	12.081	5.476	0.167	1.731	0.267	0.000
			16:COM3	24:COM1	28:COM1	24:COM1	20:COM7	-
			-7.827	-7.267	-0.243	-1.932	-0.196	-43.592
			26:COM1	18:COM5	22:COM9	18:COM5	30:COM1	18:COM5
3877	1884	+ve	10.654	16.560	0.265	4.883	0.329	8.140
			16:COM3	16:COM3	16:COM3	16:COM3	16:COM3	24:COM1
			-7.294	-0.416	-0.203	0.000	-0.234	-37.523
			26:COM1	26:COM1	26:COM1	-	26:COM1	18:COM5
	1883	-ve	10.654	14.285	0.265	4.883	0.320	0.000
			16:COM3	16:COM3	16:COM3	16:COM3	16:COM3	-
			-7.294	-2.122	-0.203	0.000	-0.102	-43.341
			26:COM1	26:COM1	26:COM1	-	26:COM1	35:CVOL4
3878	1885	+ve	8.529	27.457	1.673	7.828	0.590	51.054
			24:COM1	16:COM3	16:COM3	35:CVOL4	24:COM1	16:COM3
			-6.770	0.000	-0.307	0.000	-1.840	-22.151
			18:COM5	-	26:COM1	-	18:COM5	26:COM1
	1884	-ve	8.529	25.182	1.673	7.828	1.468	8.037
			24:COM1	16:COM3	16:COM3	35:CVOL4	16:COM3	24:COM1
			-6.770	0.000	-0.307	0.000	-0.024	-37.577
			18:COM5	-	26:COM1	-	26:COM1	18:COM5

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
3879	1886	+ve	8.881	0.000	1.881	3.680	3.676	21.941
			20:COM7	-	28:COM15	24:COM17	20:COM7	16:COM3
			-7.347	-29.500	-3.639	-5.607	-1.900	-4.318
			30:COM17	34:CVOL3	22:COM9	18:COM5	30:COM17	26:COM13
	1676	-ve	8.881	0.000	1.881	3.680	1.883	81.777
			20:COM7	-	28:COM15	24:COM17	28:COM15	16:COM3
			-7.347	-31.773	-3.639	-5.607	-3.573	0.000
			30:COM17	34:CVOL3	22:COM9	18:COM5	22:COM9	-
3880	1887	+ve	9.570	0.000	0.620	3.551	1.778	0.000
			16:COM3	-	28:COM15	24:COM17	16:COM3	-
			-6.068	-16.479	-1.176	-3.995	-1.241	-25.235
			26:COM13	34:CVOL3	22:COM9	18:COM5	26:COM13	18:COM5
	1886	-ve	9.570	0.000	0.620	3.551	1.677	22.181
			16:COM3	-	28:COM15	24:COM17	24:COM11	16:COM3
			-6.068	-18.752	-1.176	-3.995	-2.236	-4.197
			26:COM13	34:CVOL3	22:COM9	18:COM5	18:COM5	26:COM13
3881	1888	+ve	9.519	0.000	3.158	2.899	2.417	0.000
			16:COM3	-	16:COM3	24:COM17	24:COM11	-
			-4.570	-7.070	-2.777	-3.225	-2.695	-36.754
			26:COM13	18:COM5	26:COM13	18:COM5	18:COM5	35:CVOL4
	1887	-ve	9.519	0.000	3.158	2.899	3.531	0.000
			16:COM3	-	16:COM3	24:COM17	16:COM3	-
			-4.570	-9.343	-2.777	-3.225	-3.057	-25.089
			26:COM13	18:COM5	26:COM13	18:COM5	26:COM13	18:COM5
3882	1889	+ve	11.277	3.256	4.575	0.914	4.556	0.000
			16:COM3	16:COM3	16:COM3	24:COM17	24:COM11	-
			-5.611	-0.727	-3.628	-2.174	-5.366	-35.923
			26:COM13	26:COM13	26:COM13	18:COM5	18:COM5	34:CVOL3
	1888	-ve	11.277	1.148	4.575	0.914	3.656	0.000
			16:COM3	24:COM11	16:COM3	24:COM17	16:COM3	-
			-5.611	-2.598	-3.628	-2.174	-2.598	-36.657
			26:COM13	18:COM5	26:COM13	18:COM5	26:COM13	35:CVOL4
3883	1890	+ve	11.317	12.074	3.502	0.916	0.764	0.000
			16:COM3	16:COM3	16:COM3	24:COM17	24:COM11	-
			-4.833	0.000	-1.878	-2.694	-2.176	-22.433
			26:COM13	-	26:COM13	18:COM5	18:COM5	18:COM5
	1889	-ve	11.317	9.801	3.502	0.916	4.877	0.000
			16:COM3	16:COM3	16:COM3	24:COM17	16:COM3	-
			-4.833	0.000	-1.878	-2.694	-3.088	-35.966
			26:COM13	-	26:COM13	18:COM5	26:COM13	34:CVOL3
3884	1891	+ve	11.166	23.795	3.697	4.600	2.191	34.414
			16:COM3	16:COM3	16:COM3	16:COM3	24:COM11	16:COM3
			-5.949	0.000	-1.655	-5.103	-3.695	-10.084
			26:COM13	-	26:COM13	26:COM13	18:COM5	26:COM13
	1890	-ve	11.166	21.522	3.697	4.600	3.601	0.000
			16:COM3	16:COM3	16:COM3	16:COM3	16:COM3	-
			-5.949	0.000	-1.655	-5.103	-1.080	-22.590
			26:COM13	-	26:COM13	26:COM13	26:COM13	18:COM5

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
3891	1898	+ve	79.040	50.120	6.309	24.095	0.245	137.333
			34:CVOL3	34:CVOL3	20:COM7	20:COM7	28:COM15	34:CVOL3
			0.000	0.000	-0.526	0.000	-6.666	0.000
			-	-	30:COM17	-	22:COM9	-
	1978	-ve	79.040	46.774	6.309	24.095	5.546	43.601
			34:CVOL3	34:CVOL3	20:COM7	20:COM7	20:COM7	34:CVOL3
			0.000	0.000	-0.526	0.000	-0.777	0.000
			-	-	30:COM17	-	30:COM17	-
3892	1899	+ve	134.531	76.024	4.442	17.887	0.965	247.740
			34:CVOL3	34:CVOL3	16:COM3	20:COM7	24:COM11	34:CVOL3
			0.000	0.000	-0.208	0.000	-3.184	0.000
			-	-	26:COM13	-	18:COM5	-
	1898	-ve	134.531	73.199	4.442	17.887	4.142	125.907
			34:CVOL3	34:CVOL3	16:COM3	20:COM7	20:COM7	34:CVOL3
			0.000	0.000	-0.208	0.000	0.000	0.000
			-	-	26:COM13	-	-	-
3893	1794	+ve	172.578	46.130	8.616	85.072	12.840	191.068
			20:COM7	28:COM15	28:COM15	20:COM7	20:COM7	20:COM7
			-43.656	-75.844	-20.769	-11.520	-5.449	-42.190
			30:COM17	22:COM9	22:COM9	30:COM17	30:COM17	30:COM17
	1658	-ve	172.578	43.582	8.616	85.072	8.665	318.001
			20:COM7	28:COM15	28:COM15	20:COM7	28:COM15	20:COM7
			-43.656	-79.242	-20.769	-11.520	-21.169	-115.613
			30:COM17	22:COM9	22:COM9	30:COM17	22:COM9	30:COM17
3894	1793	+ve	128.161	38.316	1.319	72.873	11.028	98.891
			20:COM7	28:COM15	28:COM15	20:COM7	20:COM7	20:COM7
			-24.193	-60.419	-12.311	-7.423	-1.805	0.000
			30:COM17	22:COM9	22:COM9	30:COM17	30:COM17	-
	1794	-ve	128.161	35.774	1.319	72.873	0.378	200.284
			20:COM7	28:COM15	28:COM15	20:COM7	28:COM15	20:COM7
			-24.193	-63.809	-12.311	-7.423	-9.105	-46.039
			30:COM17	22:COM9	22:COM9	30:COM17	22:COM9	30:COM17
3895	1900	+ve	0.000	0.000	0.000	0.075	0.267	15.162
			-	-	-	24:COM17	16:COM3	16:COM3
			-8.943	-7.029	-0.307	-1.059	0.000	-4.285
			18:COM5	18:COM5	18:COM5	18:COM5	-	26:COM13
	1710	-ve	0.000	0.000	0.000	0.075	0.000	24.369
			-	-	-	24:COM17	-	16:COM3
			-8.943	-8.634	-0.307	-1.059	-0.341	0.000
			18:COM5	18:COM5	18:COM5	18:COM5	22:COM9	-
3896	1901	+ve	4.384	0.000	0.011	0.000	0.020	3.400
			20:COM7	-	35:CVOL4	-	24:COM11	24:COM17
			-2.196	-6.190	-0.010	-0.888	-0.005	-11.411
			30:COM17	18:COM5	30:COM17	35:CVOL4	18:COM5	18:COM5
	1900	-ve	4.384	0.000	0.011	0.000	0.029	14.935
			20:COM7	-	35:CVOL4	-	20:COM7	16:COM3
			-2.196	-7.795	-0.010	-0.888	-0.016	-4.402
			30:COM17	18:COM5	30:COM17	35:CVOL4	30:COM17	26:COM13

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
3897	1902	+ve	6.378	0.645	0.050	0.047	0.019	0.000
			20:COM7	24:COM11	16:COM3	24:COM1	24:COM11	-
			-1.377	-4.681	-0.014	-0.572	-0.035	-14.448
			30:COM1	18:COM5	26:COM1	18:COM5	18:COM5	18:COM5
	1901	-ve	6.378	0.000	0.050	0.047	0.064	3.266
			20:COM7	-	16:COM3	24:COM1	16:COM3	24:COM1
			-1.377	-6.286	-0.014	-0.572	-0.008	-11.516
			30:COM1	18:COM5	26:COM1	18:COM5	26:COM1	18:COM5
3898	1903	+ve	7.187	2.972	0.018	0.255	0.038	0.000
			20:COM7	16:COM3	24:COM11	16:COM3	16:COM3	-
			-1.584	-1.619	-0.028	-0.166	-0.010	-14.153
			30:COM1	26:COM1	18:COM5	26:COM1	26:COM1	18:COM5
	1902	-ve	7.187	1.574	0.018	0.255	0.029	0.000
			20:COM7	24:COM11	24:COM11	16:COM3	16:COM3	-
			-1.584	-3.029	-0.028	-0.166	-0.020	-14.436
			30:COM1	18:COM5	18:COM5	26:COM1	26:COM1	18:COM5
3899	1904	+ve	8.225	6.071	0.005	0.681	0.074	2.600
			20:COM7	16:COM3	24:COM11	16:COM3	16:COM3	24:COM1
			-2.277	0.000	-0.062	0.000	0.000	-11.568
			30:COM1	-	18:COM5	-	-	18:COM5
	1903	-ve	8.225	4.466	0.005	0.681	0.013	0.000
			20:COM7	16:COM3	24:COM11	16:COM3	24:COM11	-
			-2.277	-0.772	-0.062	0.000	-0.049	-14.128
			30:COM1	26:COM1	18:COM5	-	18:COM5	18:COM5
3900	1905	+ve	8.115	7.084	0.013	0.933	0.047	12.653
			20:COM7	16:COM3	28:COM15	35:CVOL4	20:COM7	16:COM3
			-3.940	0.000	-0.024	0.000	-0.024	-5.530
			30:COM1	-	22:COM9	-	30:COM1	26:COM1
	1904	-ve	8.115	5.480	0.013	0.933	0.018	2.746
			20:COM7	16:COM3	28:COM15	35:CVOL4	24:COM11	24:COM1
			-3.940	0.000	-0.024	0.000	-0.016	-11.430
			30:COM1	-	22:COM9	-	18:COM5	18:COM5
3901	1906	+ve	2.154	0.000	0.000	0.000	0.240	18.326
			24:COM1	-	-	-	20:COM7	16:COM3
			-7.793	-6.264	-0.283	-0.990	0.000	-6.791
			18:COM5	35:CVOL4	22:COM9	18:COM5	-	26:COM1
	1711	-ve	2.154	0.000	0.000	0.000	0.000	29.987
			24:COM1	-	-	-	-	16:COM3
			-7.793	-7.885	-0.283	-0.990	-0.320	0.000
			18:COM5	35:CVOL4	22:COM9	18:COM5	22:COM9	-
3902	1907	+ve	7.974	0.000	0.016	0.000	0.026	4.831
			16:COM3	-	16:COM3	-	28:COM15	24:COM1
			-3.707	-6.890	-0.011	-0.956	-0.017	-12.523
			26:COM1	18:COM5	26:COM1	18:COM5	22:COM9	18:COM5
	1906	-ve	7.974	0.000	0.016	0.000	0.045	18.067
			16:COM3	-	16:COM3	-	16:COM3	16:COM3
			-3.707	-8.510	-0.011	-0.956	-0.024	-6.900
			26:COM1	18:COM5	26:COM1	18:COM5	26:COM1	26:COM1

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
3903	1908	+ve	8.385	1.138	0.043	0.028	0.020	0.000
			16:COM3	24:COM11	16:COM3	24:COM1	24:COM11	-
			-2.462	-5.130	-0.009	-0.642	-0.033	-14.661
			26:COM1	18:COM5	26:COM1	18:COM5	18:COM5	18:COM5
	1907	-ve	8.385	0.000	0.043	0.028	0.051	4.683
			16:COM3	-	16:COM3	24:COM1	16:COM3	24:COM1
			-2.462	-6.750	-0.009	-0.642	0.000	-12.635
			26:COM1	18:COM5	26:COM1	18:COM5	-	18:COM5
3904	1909	+ve	7.427	3.493	0.018	0.195	0.037	0.000
			16:COM3	16:COM3	24:COM11	24:COM1	16:COM3	-
			-1.807	-1.961	-0.027	-0.211	-0.013	-14.245
			26:COM1	26:COM1	18:COM5	18:COM5	26:COM1	18:COM5
	1908	-ve	7.427	2.060	0.018	0.195	0.026	0.000
			16:COM3	24:COM11	24:COM11	24:COM1	16:COM3	-
			-1.807	-3.363	-0.027	-0.211	-0.018	-14.660
			26:COM1	18:COM5	18:COM5	18:COM5	26:COM1	18:COM5
3905	1910	+ve	6.520	6.819	0.011	0.599	0.070	4.577
			16:COM3	16:COM3	24:COM11	16:COM3	16:COM3	24:COM1
			-1.396	0.000	-0.060	-0.016	-0.003	-11.906
			26:COM1	-	18:COM5	26:COM1	26:COM1	18:COM5
	1909	-ve	6.520	5.199	0.011	0.599	0.019	0.000
			16:COM3	16:COM3	24:COM11	16:COM3	24:COM11	-
			-1.396	-1.004	-0.060	-0.016	-0.048	-14.246
			26:COM1	26:COM1	18:COM5	26:COM1	18:COM5	18:COM5
3906	1911	+ve	4.433	8.289	0.007	0.920	0.032	17.595
			16:COM3	16:COM3	24:COM11	35:CVOL4	16:COM3	16:COM3
			-2.081	0.000	-0.016	0.000	-0.012	-5.749
			26:COM1	-	35:CVOL4	-	26:COM1	26:COM1
	1910	-ve	4.433	6.668	0.007	0.920	0.025	4.716
			16:COM3	16:COM3	24:COM11	35:CVOL4	24:COM11	24:COM1
			-2.081	0.000	-0.016	0.000	-0.020	-11.788
			26:COM1	-	35:CVOL4	-	18:COM5	18:COM5
3907	1914	+ve	6.746	7.908	0.036	0.624	0.052	12.605
			16:COM3	35:CVOL4	24:COM11	16:COM3	16:COM3	16:COM3
			-1.244	0.000	-0.035	-0.415	-0.028	-1.058
			26:COM1	-	18:COM5	26:COM1	26:COM1	26:COM1
	1913	-ve	6.746	6.289	0.036	0.624	0.047	2.063
			16:COM3	35:CVOL4	24:COM11	16:COM3	24:COM11	24:COM1
			-1.244	0.000	-0.035	-0.415	-0.021	-9.839
			26:COM1	-	18:COM5	26:COM1	18:COM5	18:COM5
3909	1916	+ve	0.684	68.497	0.365	0.000	2.013	13.992
			24:COM1	16:COM3	28:COM15	-	20:COM7	16:COM3
			-2.837	-61.860	-2.127	-3.670	-0.270	-0.873
			18:COM5	26:COM1	22:COM9	18:COM5	30:COM17	26:COM1
	5466	-ve	0.684	66.171	0.365	0.000	0.569	127.720
			24:COM1	16:COM3	28:COM15	-	28:COM15	16:COM3
			-2.837	-63.604	-2.127	-3.670	-2.379	-123.882
			18:COM5	26:COM1	22:COM9	18:COM5	22:COM9	26:COM1

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
3913	1791	+ve	16.880	102.150	4.543	11.586	4.099	10.625
			20:COM7	24:COM11	28:COM15	20:COM7	20:COM7	24:COM11
			-10.469	-99.464	-4.776	-8.295	-4.147	-15.213
			30:COM17	18:COM5	22:COM9	30:COM17	30:COM17	18:COM5
	5480	-ve	16.880	100.056	4.543	11.586	5.019	188.392
			20:COM7	24:COM11	28:COM15	20:COM7	28:COM15	16:COM3
			-10.469	-102.255	-4.776	-8.295	-5.537	-193.472
			30:COM17	18:COM5	22:COM9	30:COM17	22:COM9	26:COM13
3914	1917	+ve	3.161	46.832	1.567	2.006	4.212	37.106
			24:COM17	28:COM15	28:COM15	28:COM15	20:COM7	20:COM7
			-9.741	-85.262	-4.375	-21.389	-1.891	-35.576
			18:COM5	22:COM9	22:COM9	22:COM9	30:COM17	30:COM17
	1649	-ve	3.161	43.001	1.567	2.006	1.836	246.287
			24:COM17	28:COM15	28:COM15	28:COM15	28:COM15	20:COM7
			-9.741	-91.222	-4.375	-21.389	-6.173	-142.050
			18:COM5	22:COM9	22:COM9	22:COM9	22:COM9	30:COM17
3915	1918	+ve	2.656	39.523	3.588	9.812	4.982	49.194
			24:COM17	28:COM15	20:COM7	20:COM7	20:COM7	28:COM15
			-5.699	-46.375	-3.179	-2.971	-3.827	-91.111
			18:COM5	22:COM9	30:COM17	30:COM17	30:COM17	22:COM9
	1917	-ve	2.656	36.064	3.588	9.812	4.257	18.598
			24:COM17	28:COM15	20:COM7	20:COM7	20:COM7	28:COM15
			-5.699	-51.757	-3.179	-2.971	-2.227	-36.385
			18:COM5	22:COM9	30:COM17	30:COM17	30:COM17	22:COM9
3916	1919	+ve	5.079	3.835	0.023	0.590	0.015	1.602
			20:COM7	20:COM7	16:COM3	16:COM3	16:COM3	24:COM11
			-2.613	-1.435	-0.006	-0.363	-0.013	-9.440
			30:COM17	30:COM17	26:COM13	26:COM13	26:COM13	18:COM5
	1951	-ve	5.079	2.132	0.023	0.590	0.030	2.831
			20:COM7	28:COM15	16:COM3	16:COM3	16:COM3	28:COM15
			-2.613	-2.758	-0.006	-0.363	0.000	-12.278
			30:COM17	22:COM9	26:COM13	26:COM13	-	22:COM9
3917	1920	+ve	5.246	6.039	0.014	0.988	0.022	6.274
			20:COM7	20:COM7	24:COM11	16:COM3	16:COM3	16:COM3
			-3.506	0.000	-0.025	-0.162	-0.011	-4.874
			30:COM17	-	18:COM5	26:COM13	26:COM13	26:COM13
	1919	-ve	5.246	4.309	0.014	0.988	0.016	1.854
			20:COM7	20:COM7	24:COM11	16:COM3	24:COM11	24:COM11
			-3.506	-0.846	-0.025	-0.162	-0.023	-9.481
			30:COM17	30:COM17	18:COM5	26:COM13	18:COM5	18:COM5
3918	1921	+ve	1.757	3.889	0.000	0.186	0.240	6.473
			28:COM15	28:COM15	-	28:COM15	20:COM7	20:COM7
			-6.994	-5.702	-0.270	-0.236	0.000	-5.577
			22:COM9	22:COM9	22:COM9	22:COM9	-	30:COM17
	1709	-ve	1.757	2.702	0.000	0.186	0.000	18.988
			28:COM15	28:COM15	-	28:COM15	-	20:COM7
			-6.994	-7.286	-0.270	-0.236	-0.280	-11.926
			22:COM9	22:COM9	22:COM9	22:COM9	22:COM9	30:COM17

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
3919	1922	+ve	8.869	6.589	0.036	1.133	0.215	6.420
			20:COM7	20:COM7	28:COM15	16:COM3	20:COM7	20:COM7
			-3.830	-3.952	-0.174	-0.393	-0.045	-2.946
			30:COM17	30:COM17	22:COM9	26:COM13	30:COM17	30:COM17
	1921	-ve	8.869	5.086	0.036	1.133	0.035	6.399
			20:COM7	28:COM15	28:COM15	16:COM3	24:COM11	20:COM7
			-3.830	-5.263	-0.174	-0.393	-0.134	-5.334
			30:COM17	22:COM9	22:COM9	26:COM13	18:COM5	30:COM17
3920	1923	+ve	6.966	4.496	0.002	0.385	0.073	13.594
			20:COM7	20:COM7	24:COM11	20:COM7	16:COM3	20:COM7
			-1.304	-0.596	-0.065	-0.218	0.000	-5.088
			30:COM17	30:COM17	18:COM5	30:COM17	-	30:COM17
	1922	-ve	6.966	2.929	0.002	0.385	0.007	6.653
			20:COM7	20:COM7	24:COM11	20:COM7	24:COM11	20:COM7
			-1.304	-1.771	-0.065	-0.218	-0.051	-2.974
			30:COM17	30:COM17	18:COM5	30:COM17	18:COM5	30:COM17
3922	1927	+ve	9.399	55.308	0.059	4.871	4.476	91.046
			20:COM7	20:COM7	24:COM11	24:COM17	16:COM3	20:COM7
			0.000	0.000	-5.752	-43.427	0.000	0.000
			-	-	18:COM5	18:COM5	-	-
	1725	-ve	9.399	51.958	0.059	4.871	0.384	13.185
			20:COM7	20:COM7	24:COM11	24:COM17	24:COM11	16:COM3
			0.000	0.000	-5.752	-43.427	-3.980	-4.989
			-	-	18:COM5	18:COM5	18:COM5	26:COM13
3923	1928	+ve	12.445	7.673	0.038	0.272	0.050	2.594
			16:COM3	34:CVOL3	24:COM11	24:COM17	24:COM11	24:COM17
			-6.491	0.000	-0.057	-0.287	-0.043	-12.315
			26:COM13	-	18:COM5	18:COM5	18:COM5	18:COM5
	1956	-ve	12.445	6.628	0.038	0.272	0.032	0.000
			16:COM3	16:COM3	24:COM11	24:COM17	24:COM11	-
			-6.491	0.000	-0.057	-0.287	-0.064	-21.106
			26:COM13	-	18:COM5	18:COM5	18:COM5	34:CVOL3
3924	1929	+ve	11.425	12.756	0.059	0.000	0.205	20.827
			16:COM3	34:CVOL3	24:COM11	-	16:COM3	16:COM3
			-6.171	0.000	-0.195	-0.519	-0.072	-1.443
			26:COM13	-	18:COM5	35:CVOL4	26:COM13	26:COM13
	1928	-ve	11.425	10.909	0.059	0.000	0.044	2.648
			16:COM3	34:CVOL3	24:COM11	-	24:COM11	24:COM17
			-6.171	0.000	-0.195	-0.519	-0.179	-12.323
			26:COM13	-	18:COM5	35:CVOL4	18:COM5	18:COM5
3925	1930	+ve	9.194	2.893	1.857	0.036	0.234	6.925
			20:COM7	16:COM3	16:COM3	28:COM15	24:COM11	28:COM15
			-4.938	-0.379	-0.172	-2.355	-1.347	-18.361
			30:COM17	26:COM13	26:COM13	22:COM9	18:COM5	22:COM9
	1734	-ve	9.194	2.251	1.857	0.036	1.255	5.596
			20:COM7	16:COM3	16:COM3	28:COM15	16:COM3	28:COM15
			-4.938	-0.861	-0.172	-2.355	-0.022	-19.751
			30:COM17	26:COM13	26:COM13	22:COM9	26:COM13	22:COM9

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
3926	1931	+ve	3.821	3.814	0.342	2.483	0.295	9.390
			28:COM15	16:COM3	24:COM11	20:COM7	16:COM3	28:COM15
			-5.344	0.000	-0.371	-0.850	-0.249	-14.401
			22:COM9	-	18:COM5	30:COM17	26:COM13	22:COM9
	1930	-ve	3.821	2.885	0.342	2.483	0.439	6.434
			28:COM15	16:COM3	24:COM11	20:COM7	24:COM11	28:COM15
			-5.344	-0.398	-0.371	-0.850	-0.453	-18.088
			22:COM9	26:COM13	18:COM5	30:COM17	18:COM5	22:COM9
3927	1932	+ve	2.669	4.571	0.163	1.261	0.178	12.348
			28:COM15	20:COM7	20:COM7	20:COM7	28:COM15	20:COM7
			-9.023	0.000	-0.141	-0.314	-0.177	-7.515
			22:COM9	-	30:COM17	30:COM17	22:COM9	30:COM17
	1931	-ve	2.669	3.670	0.163	1.261	0.148	9.206
			28:COM15	20:COM7	20:COM7	20:COM7	20:COM7	28:COM15
			-9.023	0.000	-0.141	-0.314	-0.105	-14.455
			22:COM9	-	30:COM17	30:COM17	30:COM17	22:COM9
3928	1933	+ve	7.957	5.124	10.385	14.527	0.342	15.991
			28:COM15	28:COM15	20:COM7	20:COM7	28:COM15	16:COM3
			-11.059	-26.141	-2.323	-2.248	-2.786	-6.670
			22:COM9	22:COM9	30:COM17	30:COM17	22:COM9	26:COM13
	1733	-ve	7.957	4.978	10.385	14.527	1.626	26.665
			28:COM15	28:COM15	20:COM7	20:COM7	20:COM7	16:COM3
			-11.059	-26.336	-2.323	-2.248	-0.660	-8.384
			22:COM9	22:COM9	30:COM17	30:COM17	30:COM17	26:COM13
3929	1934	+ve	8.774	2.099	0.093	0.000	0.016	0.000
			20:COM7	24:COM11	20:COM7	-	28:COM15	-
			-3.655	-15.786	-0.014	-1.137	-0.078	-14.005
			30:COM17	18:COM5	30:COM17	34:CVOL3	22:COM9	22:COM9
	1933	-ve	8.774	1.454	0.093	0.000	0.099	16.647
			20:COM7	24:COM11	20:COM7	-	16:COM3	16:COM3
			-3.655	-16.646	-0.014	-1.137	-0.014	-6.451
			30:COM17	18:COM5	30:COM17	34:CVOL3	26:COM13	26:COM13
3930	1935	+ve	9.856	0.731	0.049	0.027	0.035	0.000
			20:COM7	24:COM11	20:COM7	24:COM17	28:COM15	-
			-2.710	-14.727	-0.036	-2.400	-0.054	-39.413
			30:COM17	18:COM5	30:COM17	18:COM5	22:COM9	18:COM5
	1934	-ve	9.856	0.122	0.049	0.027	0.033	0.000
			20:COM7	24:COM11	20:COM7	24:COM17	28:COM15	-
			-2.710	-15.539	-0.036	-2.400	-0.030	-13.282
			30:COM17	18:COM5	30:COM17	18:COM5	22:COM9	22:COM9
3931	1936	+ve	10.483	6.697	0.036	2.206	0.027	0.000
			20:COM7	16:COM3	24:COM11	16:COM3	20:COM7	-
			-2.180	0.000	-0.036	-0.215	-0.032	-19.951
			30:COM17	-	18:COM5	26:COM13	30:COM17	34:CVOL3
	1935	-ve	10.483	6.517	0.036	2.206	0.038	0.000
			20:COM7	35:CVOL4	24:COM11	16:COM3	24:COM11	-
			-2.180	0.000	-0.036	-0.215	-0.043	-30.279
			30:COM17	-	18:COM5	26:COM13	18:COM5	34:CVOL3

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
3932	1937	+ve	11.324	8.182	0.031	1.251	0.050	0.919
			16:COM3	16:COM3	28:COM15	34:CVOL3	20:COM7	24:COM1
			-2.387	0.000	-0.057	0.000	-0.040	-9.807
			26:COM1	-	22:COM9	-	30:COM1	18:COM5
	1936	-ve	11.324	7.318	0.031	1.251	0.020	0.000
			16:COM3	16:COM3	28:COM15	34:CVOL3	28:COM15	-
			-2.387	0.000	-0.057	0.000	-0.057	-20.279
			26:COM1	-	22:COM9	-	22:COM9	34:CVOL3
3933	1938	+ve	11.718	11.137	0.067	1.022	0.235	17.977
			16:COM3	34:CVOL3	28:COM15	20:COM7	20:COM7	16:COM3
			-4.715	0.000	-0.225	0.000	-0.083	-3.095
			26:COM1	-	22:COM9	-	30:COM1	26:COM1
	1937	-ve	11.718	10.088	0.067	1.022	0.044	0.775
			16:COM3	16:COM3	28:COM15	20:COM7	28:COM15	24:COM1
			-4.715	0.000	-0.225	0.000	-0.188	-10.188
			26:COM1	-	22:COM9	-	22:COM9	18:COM5
3934	1939	+ve	8.123	0.000	0.125	0.766	0.087	17.576
			24:COM1	-	20:COM7	20:COM7	28:COM15	20:COM7
			-10.336	-13.068	-0.049	0.000	-0.143	-7.934
			18:COM5	22:COM9	30:COM1	-	22:COM9	30:COM1
	1724	-ve	8.123	0.000	0.125	0.766	0.122	44.293
			24:COM1	-	20:COM7	20:COM7	16:COM3	20:COM7
			-10.336	-13.981	-0.049	0.000	-0.026	-3.786
			18:COM5	22:COM9	30:COM1	-	26:COM1	30:COM1
3935	1940	+ve	9.686	1.178	0.367	0.536	0.339	0.000
			16:COM3	28:COM15	20:COM7	24:COM1	28:COM15	-
			-7.328	-10.347	-0.307	-1.276	-0.441	-9.449
			26:COM1	22:COM9	30:COM1	18:COM5	22:COM9	22:COM9
	1939	-ve	9.686	0.492	0.367	0.536	0.287	17.672
			16:COM3	28:COM15	20:COM7	24:COM1	20:COM7	20:COM7
			-7.328	-11.262	-0.307	-1.276	-0.269	-7.780
			26:COM1	22:COM9	30:COM1	18:COM5	30:COM1	30:COM1
3936	1941	+ve	9.347	2.480	0.427	0.842	0.162	0.000
			20:COM7	28:COM15	20:COM7	24:COM1	28:COM15	-
			-9.487	-7.445	-0.242	-1.250	-0.394	-19.573
			30:COM1	22:COM9	30:COM1	18:COM5	22:COM9	22:COM9
	1940	-ve	9.347	1.794	0.427	0.842	0.453	0.000
			20:COM7	28:COM15	20:COM7	24:COM1	20:COM7	-
			-9.487	-8.360	-0.242	-1.250	-0.317	-9.275
			30:COM1	22:COM9	30:COM1	18:COM5	30:COM1	22:COM9
3937	1847	+ve	0.000	5.310	0.038	0.157	0.000	5.939
			-	16:COM3	34:CVOL3	34:CVOL3	-	16:COM3
			-7.754	0.000	0.000	0.000	-0.046	0.000
			18:COM5	-	-	-	34:CVOL3	-
	1814	-ve	0.000	0.965	0.038	0.157	0.047	0.375
			-	24:COM11	34:CVOL3	34:CVOL3	34:CVOL3	24:COM1
			-7.754	-1.322	0.000	0.000	0.000	-1.512
			18:COM5	18:COM5	-	-	-	18:COM5

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
3938	1846	+ve	0.000	4.135	0.030	0.169	0.005	3.989
			-	16:COM3	16:COM3	16:COM3	24:COM11	16:COM3
			-4.704	0.000	-0.004	-0.015	-0.036	0.000
			18:COM5	-	26:COM13	26:COM13	18:COM5	-
	1815	-ve	0.000	0.085	0.030	0.169	0.037	0.318
			-	24:COM11	16:COM3	16:COM3	16:COM3	24:COM1
			-4.704	-1.613	-0.004	-0.015	-0.005	-0.582
			18:COM5	18:COM5	26:COM13	26:COM13	26:COM13	18:COM5
3939	1845	+ve	0.000	3.549	0.013	0.087	0.030	2.834
			-	35:CVOL4	24:COM11	24:COM1	16:COM3	20:COM7
			-2.941	0.000	-0.025	-0.094	-0.017	0.000
			22:COM9	-	18:COM5	18:COM5	26:COM13	-
	1816	-ve	0.000	0.000	0.013	0.087	0.015	0.288
			-	-	24:COM11	24:COM1	24:COM11	20:COM7
			-2.941	-1.579	-0.025	-0.094	-0.031	-0.106
			22:COM9	34:CVOL3	18:COM5	18:COM5	18:COM5	30:COM1
3940	1844	+ve	0.626	4.508	0.000	0.000	0.050	4.682
			24:COM1	16:COM3	-	-	16:COM3	16:COM3
			-5.668	0.000	-0.041	-0.167	0.000	0.000
			18:COM5	-	18:COM5	18:COM5	-	-
	1817	-ve	0.626	0.445	0.000	0.000	0.000	0.539
			24:COM1	24:COM11	-	-	-	24:COM1
			-5.668	-1.882	-0.041	-0.167	-0.052	-0.804
			18:COM5	18:COM5	18:COM5	18:COM5	18:COM5	18:COM5
3941	1843	+ve	0.000	5.784	0.000	0.000	0.065	6.761
			-	16:COM3	-	-	16:COM3	16:COM3
			-8.963	0.000	-0.054	-0.188	0.000	0.000
			18:COM5	-	18:COM5	18:COM5	-	-
	1818	-ve	0.000	1.393	0.000	0.000	0.000	0.586
			-	24:COM11	-	-	-	24:COM1
			-8.963	-1.479	-0.054	-0.188	-0.067	-1.851
			18:COM5	18:COM5	18:COM5	18:COM5	18:COM5	18:COM5
3942	1852	+ve	0.000	5.861	0.045	0.178	0.000	6.885
			-	16:COM3	16:COM3	16:COM3	-	16:COM3
			-8.845	0.000	0.000	0.000	-0.054	0.000
			18:COM5	-	-	-	18:COM5	-
	1819	-ve	0.000	1.412	0.045	0.178	0.055	0.513
			-	24:COM11	16:COM3	16:COM3	16:COM3	24:COM1
			-8.845	-1.324	0.000	0.000	0.000	-1.917
			18:COM5	18:COM5	-	-	-	18:COM5
3943	1851	+ve	0.059	4.497	0.044	0.180	0.003	4.664
			24:COM1	16:COM3	16:COM3	16:COM3	24:COM11	16:COM3
			-5.378	0.000	-0.003	-0.011	-0.054	0.000
			18:COM5	-	26:COM13	26:COM13	18:COM5	-
	1820	-ve	0.059	0.398	0.044	0.180	0.055	0.462
			24:COM1	24:COM11	16:COM3	16:COM3	16:COM3	24:COM1
			-5.378	-1.726	-0.003	-0.011	-0.003	-0.794
			18:COM5	18:COM5	26:COM13	26:COM13	26:COM13	18:COM5

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
3944	1850	+ve	0.000	3.583	0.028	0.108	0.027	2.693
			-	34:CVOL3	16:COM3	16:COM3	24:COM11	34:CVOL3
			-2.644	0.000	-0.022	-0.098	-0.034	0.000
			22:COM9	-	26:COM13	26:COM13	18:COM5	-
	1821	-ve	0.000	0.000	0.028	0.108	0.035	0.196
			-	-	16:COM3	16:COM3	16:COM3	35:CVOL4
			-2.644	-1.545	-0.022	-0.098	-0.028	-0.008
			22:COM9	35:CVOL4	26:COM13	26:COM13	26:COM13	30:COM17
3945	1849	+ve	0.231	4.405	0.006	0.018	0.047	4.497
			24:COM17	16:COM3	24:COM11	24:COM17	16:COM3	16:COM3
			-5.281	0.000	-0.038	-0.172	-0.007	0.000
			18:COM5	-	18:COM5	18:COM5	26:COM13	-
	1822	-ve	0.231	0.344	0.006	0.018	0.007	0.489
			24:COM17	24:COM11	24:COM11	24:COM17	24:COM11	24:COM17
			-5.281	-1.792	-0.038	-0.172	-0.047	-0.736
			18:COM5	18:COM5	18:COM5	18:COM5	18:COM5	18:COM5
3946	1848	+ve	0.000	5.737	0.000	0.000	0.056	6.668
			-	16:COM3	-	-	20:COM7	16:COM3
			-8.878	0.000	-0.045	-0.172	0.000	0.000
			18:COM5	-	22:COM9	18:COM5	-	-
	1823	-ve	0.000	1.345	0.000	0.000	0.000	0.560
			-	24:COM11	-	-	-	24:COM17
			-8.878	-1.439	-0.045	-0.172	-0.055	-1.830
			18:COM5	18:COM5	22:COM9	18:COM5	22:COM9	18:COM5
3947	1857	+ve	0.000	5.858	0.045	0.173	0.000	6.863
			-	16:COM3	16:COM3	16:COM3	-	16:COM3
			-9.101	0.000	0.000	0.000	-0.055	0.000
			18:COM5	-	-	-	18:COM5	-
	1824	-ve	0.000	1.406	0.045	0.173	0.054	0.502
			-	24:COM11	16:COM3	16:COM3	16:COM3	24:COM17
			-9.101	-1.303	0.000	0.000	0.000	-1.929
			18:COM5	18:COM5	-	-	-	18:COM5
3948	1856	+ve	0.027	4.480	0.038	0.182	0.006	4.626
			24:COM17	16:COM3	16:COM3	16:COM3	24:COM11	16:COM3
			-5.402	0.000	-0.005	-0.014	-0.046	0.000
			18:COM5	-	26:COM13	26:COM13	18:COM5	-
	1825	-ve	0.027	0.381	0.038	0.182	0.046	0.451
			24:COM17	24:COM11	16:COM3	16:COM3	16:COM3	24:COM17
			-5.402	-1.697	-0.005	-0.014	-0.006	-0.790
			18:COM5	18:COM5	26:COM13	26:COM13	26:COM13	18:COM5
3949	1855	+ve	0.000	3.598	0.022	0.109	0.031	2.723
			-	34:CVOL3	24:COM11	16:COM3	16:COM3	34:CVOL3
			-2.659	0.000	-0.026	-0.100	-0.027	0.000
			22:COM9	-	18:COM5	26:COM13	26:COM13	-
	1826	-ve	0.000	0.000	0.022	0.109	0.027	0.191
			-	-	24:COM11	16:COM3	24:COM11	20:COM7
			-2.659	-1.533	-0.026	-0.100	-0.033	-0.017
			22:COM9	35:CVOL4	18:COM5	26:COM13	18:COM5	30:COM17

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
3950	1854	+ve	0.263	4.467	0.001	0.017	0.052	4.614
			24:COM1	16:COM3	24:COM1	24:COM1	16:COM3	16:COM3
			-5.331	0.000	-0.043	-0.170	-0.002	0.000
			18:COM5	-	18:COM5	18:COM5	26:COM1	-
	1827	-ve	0.263	0.400	0.001	0.017	0.001	0.502
			24:COM1	24:COM1	24:COM1	24:COM1	24:COM1	24:COM1
			-5.331	-1.809	-0.043	-0.170	-0.053	-0.771
			18:COM5	18:COM5	18:COM5	18:COM5	18:COM5	18:COM5
3951	1853	+ve	0.000	5.786	0.000	0.000	0.056	6.753
			-	16:COM3	-	-	16:COM3	16:COM3
			-8.690	0.000	-0.046	-0.172	0.000	0.000
			18:COM5	-	18:COM5	18:COM5	-	-
	1828	-ve	0.000	1.391	0.000	0.000	0.000	0.580
			-	24:COM1	-	-	-	24:COM1
			-8.690	-1.458	-0.046	-0.172	-0.057	-1.865
			18:COM5	18:COM5	18:COM5	18:COM5	18:COM5	18:COM5
3952	1862	+ve	0.000	5.864	0.055	0.200	0.000	6.882
			-	16:COM3	16:COM3	16:COM3	-	16:COM3
			-8.989	0.000	0.000	0.000	-0.066	0.000
			18:COM5	-	-	-	18:COM5	-
	1829	-ve	0.000	1.432	0.055	0.200	0.068	0.558
			-	24:COM1	16:COM3	16:COM3	16:COM3	24:COM1
			-8.989	-1.424	0.000	0.000	0.000	-1.925
			18:COM5	18:COM5	-	-	-	18:COM5
3953	1861	+ve	0.630	4.516	0.046	0.183	0.000	4.682
			24:COM1	16:COM3	16:COM3	16:COM3	-	16:COM3
			-5.533	0.000	0.000	0.000	-0.056	0.000
			18:COM5	-	-	-	18:COM5	-
	1830	-ve	0.630	0.438	0.046	0.183	0.058	0.548
			24:COM1	24:COM1	16:COM3	16:COM3	16:COM3	24:COM1
			-5.533	-1.890	0.000	0.000	0.000	-0.823
			18:COM5	18:COM5	-	-	-	18:COM5
3954	1860	+ve	0.000	3.446	0.031	0.113	0.016	2.590
			-	35:CVOL4	16:COM3	16:COM3	24:COM1	20:COM7
			-2.450	0.000	-0.013	-0.078	-0.037	0.000
			22:COM9	-	26:COM1	26:COM1	18:COM5	-
	1831	-ve	0.000	0.000	0.031	0.113	0.038	0.353
			-	-	16:COM3	16:COM3	16:COM3	16:COM3
			-2.450	-1.699	-0.013	-0.078	-0.016	-0.038
			22:COM9	34:CVOL3	26:COM1	26:COM1	26:COM1	26:COM1
3955	1859	+ve	0.000	3.863	0.009	0.025	0.039	3.549
			-	16:COM3	24:COM1	24:COM1	16:COM3	16:COM3
			-3.958	0.000	-0.032	-0.170	-0.011	0.000
			18:COM5	-	18:COM5	18:COM5	26:COM1	-
	1832	-ve	0.000	0.000	0.009	0.025	0.011	0.437
			-	-	24:COM1	24:COM1	24:COM1	16:COM3
			-3.958	-1.799	-0.032	-0.170	-0.040	-0.395
			18:COM5	18:COM5	18:COM5	18:COM5	18:COM5	26:COM1

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
3956	1858	+ve	0.000	5.050	0.000	0.000	0.054	5.570
			-	16:COM3	-	-	34:CVOL3	16:COM3
			-7.454	0.000	-0.045	-0.184	0.000	0.000
			18:COM5	-	34:CVOL3	34:CVOL3	-	-
	1833	-ve	0.000	0.780	0.000	0.000	0.000	0.500
			-	24:COM11	-	-	-	24:COM11
			-7.454	-1.552	-0.045	-0.184	-0.056	-1.247
			18:COM5	18:COM5	34:CVOL3	34:CVOL3	34:CVOL3	18:COM5
3957	1905	+ve	0.000	0.866	0.000	0.000	0.143	0.227
			-	24:COM11	-	-	16:COM3	24:COM11
			-9.232	-5.333	-0.227	-0.238	0.000	-2.257
			22:COM9	18:COM5	18:COM5	35:CVOL4	-	18:COM5
	1879	-ve	0.000	0.000	0.000	0.000	0.000	6.079
			-	-	-	-	-	16:COM3
			-9.232	-7.999	-0.227	-0.238	-0.141	-0.076
			22:COM9	18:COM5	18:COM5	35:CVOL4	18:COM5	26:COM13
3958	1904	+ve	0.321	1.343	0.000	0.000	0.127	0.296
			24:COM11	16:COM3	-	-	16:COM3	16:COM3
			-4.018	-1.159	-0.193	-0.224	0.000	-0.445
			18:COM5	26:COM13	18:COM5	18:COM5	-	26:COM13
	1878	-ve	0.321	0.000	0.000	0.000	0.000	2.252
			24:COM11	-	-	-	-	16:COM3
			-4.018	-3.453	-0.193	-0.224	-0.114	-0.184
			18:COM5	18:COM5	18:COM5	18:COM5	18:COM5	26:COM13
3959	1903	+ve	0.564	2.247	0.022	0.018	0.067	0.578
			16:COM3	35:CVOL4	24:COM11	24:COM11	16:COM3	35:CVOL4
			-0.736	0.000	-0.102	-0.118	-0.015	0.000
			26:COM13	-	18:COM5	18:COM5	26:COM13	-
	1877	-ve	0.564	0.000	0.022	0.018	0.013	0.345
			16:COM3	-	24:COM11	24:COM11	24:COM11	24:COM11
			-0.736	-1.175	-0.102	-0.118	-0.061	-0.239
			26:COM13	18:COM5	18:COM5	18:COM5	18:COM5	18:COM5
3960	1902	+ve	0.814	2.413	0.087	0.090	0.022	0.629
			16:COM3	35:CVOL4	16:COM3	16:COM3	24:COM11	35:CVOL4
			-0.517	0.000	-0.032	-0.034	-0.057	0.000
			26:COM13	-	26:COM13	26:COM13	18:COM5	-
	1876	-ve	0.814	0.000	0.087	0.090	0.052	0.258
			16:COM3	-	16:COM3	16:COM3	16:COM3	24:COM11
			-0.517	-1.022	-0.032	-0.034	-0.019	-0.379
			26:COM13	18:COM5	26:COM13	26:COM13	26:COM13	18:COM5
3961	1901	+ve	0.878	1.977	0.183	0.198	0.000	0.502
			24:COM11	16:COM3	16:COM3	16:COM3	-	16:COM3
			-2.975	-0.734	0.000	0.000	-0.120	-0.298
			18:COM5	26:COM13	-	-	18:COM5	26:COM13
	1875	-ve	0.878	0.102	0.183	0.198	0.109	1.636
			24:COM11	24:COM11	16:COM3	16:COM3	16:COM3	16:COM3
			-2.975	-2.774	0.000	0.000	0.000	-0.538
			18:COM5	18:COM5	-	-	-	26:COM13

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
3962	1900	+ve	0.414	1.732	0.249	0.253	0.000	0.555
			24:COM1	24:COM1	20:COM7	35:CVOL4	-	24:COM1
			-7.310	-3.880	0.000	0.000	-0.159	-1.652
			18:COM5	18:COM5	-	-	22:COM9	18:COM5
	1874	-ve	0.414	0.482	0.249	0.253	0.152	4.869
			24:COM1	24:COM1	20:COM7	35:CVOL4	16:COM3	16:COM3
			-7.310	-6.547	0.000	0.000	0.000	-0.829
			18:COM5	18:COM5	-	-	-	26:COM1
3963	1911	+ve	0.231	1.574	0.000	0.000	0.155	0.502
			24:COM1	24:COM1	-	-	34:CVOL3	24:COM1
			-7.729	-4.147	-0.243	-0.259	0.000	-1.766
			18:COM5	18:COM5	18:COM5	35:CVOL4	-	18:COM5
	1885	-ve	0.231	0.324	0.000	0.000	0.000	5.087
			24:COM1	24:COM1	-	-	-	16:COM3
			-7.729	-6.814	-0.243	-0.259	-0.150	-0.685
			18:COM5	18:COM5	18:COM5	35:CVOL4	18:COM5	26:COM1
3964	1909	+ve	1.022	2.492	0.036	0.028	0.070	0.647
			16:COM3	35:CVOL4	24:COM1	24:COM1	16:COM3	35:CVOL4
			-0.535	0.000	-0.107	-0.098	-0.024	0.000
			26:COM1	-	18:COM5	18:COM5	26:COM1	-
	1883	-ve	1.022	0.000	0.036	0.028	0.021	0.210
			16:COM3	-	24:COM1	24:COM1	24:COM1	24:COM1
			-0.535	-0.963	-0.107	-0.098	-0.064	-0.427
			26:COM1	18:COM5	18:COM5	18:COM5	18:COM5	35:CVOL4
3965	1908	+ve	0.976	2.512	0.101	0.107	0.028	0.653
			35:CVOL4	35:CVOL4	16:COM3	16:COM3	24:COM1	35:CVOL4
			-0.303	0.000	-0.042	-0.027	-0.066	0.000
			26:COM1	-	26:COM1	26:COM1	18:COM5	-
	1882	-ve	0.976	0.000	0.101	0.107	0.060	0.199
			35:CVOL4	-	16:COM3	16:COM3	16:COM3	24:COM1
			-0.303	-0.900	-0.042	-0.027	-0.025	-0.446
			26:COM1	18:COM5	26:COM1	26:COM1	26:COM1	35:CVOL4
3966	1907	+ve	0.516	1.826	0.190	0.217	0.000	0.426
			24:COM1	16:COM3	16:COM3	16:COM3	-	16:COM3
			-2.476	-0.513	0.000	0.000	-0.124	-0.201
			18:COM5	26:COM1	-	-	18:COM5	26:COM1
	1881	-ve	0.516	0.000	0.190	0.217	0.113	1.434
			24:COM1	-	16:COM3	16:COM3	16:COM3	16:COM3
			-2.476	-2.527	0.000	0.000	0.000	-0.403
			18:COM5	18:COM5	-	-	-	26:COM1
3967	1906	+ve	0.000	1.297	0.259	0.271	0.000	0.344
			-	24:COM1	16:COM3	35:CVOL4	-	24:COM1
			-6.521	-3.416	0.000	0.000	-0.163	-1.417
			18:COM5	18:COM5	-	-	22:COM9	18:COM5
	1880	-ve	0.000	0.047	0.259	0.271	0.162	4.524
			-	24:COM1	16:COM3	35:CVOL4	16:COM3	16:COM3
			-6.521	-6.083	0.000	0.000	0.000	-0.498
			18:COM5	18:COM5	-	-	-	26:COM1

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
3968	1910	+ve	0.851	1.902	0.000	0.000	0.131	0.492
			24:COM1	16:COM3	-	-	16:COM3	16:COM3
			-3.116	-0.761	-0.199	-0.204	0.000	-0.326
			18:COM5	26:COM1	18:COM5	18:COM5	-	26:COM1
	1884	-ve	0.851	0.043	0.000	0.000	0.000	1.657
			24:COM1	24:COM1	-	-	-	16:COM3
			-3.116	-2.818	-0.199	-0.204	-0.118	-0.470
			18:COM5	18:COM5	18:COM5	18:COM5	18:COM5	26:COM1
3969	1914	+ve	2.635	2.510	0.138	0.091	0.152	0.848
			24:COM1	24:COM1	24:COM1	24:COM1	16:COM3	24:COM1
			-8.143	-3.726	-0.257	-0.175	-0.070	-1.579
			18:COM5	18:COM5	18:COM5	18:COM5	26:COM1	18:COM5
	1891	-ve	2.635	1.260	0.138	0.091	0.103	4.748
			24:COM1	24:COM1	24:COM1	24:COM1	24:COM1	16:COM3
			-8.143	-6.393	-0.257	-0.175	-0.169	-1.510
			18:COM5	18:COM5	18:COM5	18:COM5	18:COM5	26:COM1
3970	1913	+ve	1.516	2.196	0.133	0.110	0.079	0.217
			24:COM1	16:COM3	24:COM1	24:COM1	16:COM3	16:COM3
			-2.486	-0.798	-0.122	-0.126	-0.075	-0.127
			18:COM5	26:COM1	18:COM5	18:COM5	26:COM1	26:COM1
	1890	-ve	1.516	0.263	0.133	0.110	0.091	1.788
			24:COM1	24:COM1	24:COM1	24:COM1	24:COM1	16:COM3
			-2.486	-2.781	-0.122	-0.126	-0.074	-0.998
			18:COM5	18:COM5	18:COM5	18:COM5	18:COM5	26:COM1
3971	1912	+ve	1.819	2.202	0.210	0.039	0.072	0.395
			16:COM3	34:CVOL3	16:COM3	16:COM3	24:COM1	16:COM3
			-0.609	0.000	-0.146	-0.013	-0.106	-0.121
			26:COM1	-	26:COM1	26:COM1	18:COM5	26:COM1
	1889	-ve	1.819	0.000	0.210	0.039	0.157	0.263
			16:COM3	-	16:COM3	16:COM3	16:COM3	24:COM1
			-0.609	-1.064	-0.146	-0.013	-0.112	-0.494
			26:COM1	35:CVOL4	26:COM1	26:COM1	26:COM1	18:COM5
3977	1658	+ve	2.151	13.757	0.007	0.227	0.005	31.788
			24:COM1	20:COM7	16:COM3	24:COM1	24:COM1	20:COM7
			-5.419	-6.983	-0.003	-0.489	-0.025	-34.372
			18:COM5	30:COM1	26:COM1	18:COM5	18:COM5	30:COM1
	1790	-ve	2.151	4.009	0.007	0.227	0.019	36.580
			24:COM1	28:COM1	16:COM3	24:COM1	16:COM3	20:COM7
			-5.419	-18.375	-0.003	-0.489	-0.010	-15.918
			18:COM5	22:COM9	26:COM1	18:COM5	26:COM1	30:COM1
3978	1793	+ve	2.888	13.937	0.113	0.000	0.088	25.891
			28:COM1	28:COM1	20:COM7	-	28:COM1	28:COM1
			-3.935	-27.736	-0.060	-1.025	-0.168	-40.641
			22:COM9	22:COM9	30:COM1	22:COM9	22:COM9	22:COM9
	1917	-ve	2.888	10.772	0.113	0.000	0.125	38.662
			28:COM1	28:COM1	20:COM7	-	20:COM7	20:COM7
			-3.935	-33.510	-0.060	-1.025	-0.069	-6.112
			22:COM9	22:COM9	30:COM1	22:COM9	30:COM1	30:COM1

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
3979	6214	+ve	1.013	18.145	0.026	0.694	0.032	18.732
			28:COM15	20:COM7	16:COM3	28:COM15	24:COM11	28:COM15
			-6.647	-18.555	-0.024	-0.743	-0.038	-20.450
			22:COM9	30:COM17	26:COM13	22:COM9	18:COM5	22:COM9
	1789	-ve	1.013	14.258	0.026	0.694	0.038	43.596
			28:COM15	28:COM15	16:COM3	28:COM15	16:COM3	20:COM7
			-6.647	-24.725	-0.024	-0.743	-0.037	-29.471
			22:COM9	22:COM9	26:COM13	22:COM9	26:COM13	30:COM17
3980	1794	+ve	13.264	7.147	0.000	0.181	0.189	8.653
			28:COM15	28:COM15	-	28:COM15	20:COM7	28:COM15
			-17.554	-13.963	-0.369	-0.915	0.000	-11.477
			22:COM9	22:COM9	22:COM9	22:COM9	-	22:COM9
	1918	-ve	13.264	6.942	0.000	0.181	0.000	6.309
			28:COM15	28:COM15	-	28:COM15	-	20:COM7
			-17.554	-14.235	-0.369	-0.915	-0.276	-0.235
			22:COM9	22:COM9	22:COM9	22:COM9	22:COM9	30:COM17
3981	1920	+ve	0.463	1.368	0.003	0.146	0.014	0.658
			20:COM7	24:COM11	24:COM11	28:COM15	16:COM3	28:COM15
			-0.359	-2.563	-0.008	-0.455	-0.005	-0.752
			30:COM17	18:COM5	18:COM5	22:COM9	26:COM13	22:COM9
	1803	-ve	0.463	0.000	0.003	0.146	0.005	17.933
			20:COM7	-	24:COM11	28:COM15	24:COM11	16:COM3
			-0.359	-9.440	-0.008	-0.455	-0.012	0.000
			30:COM17	18:COM5	18:COM5	22:COM9	18:COM5	-
3982	1919	+ve	0.192	1.961	0.003	0.117	0.018	0.870
			28:COM15	16:COM3	24:COM11	24:COM11	16:COM3	20:COM7
			-0.508	-0.898	-0.011	-0.306	-0.005	-0.263
			22:COM9	26:COM13	18:COM5	18:COM5	26:COM13	30:COM17
	1804	-ve	0.192	0.000	0.003	0.117	0.005	12.508
			28:COM15	-	24:COM11	24:COM11	24:COM11	16:COM3
			-0.508	-7.341	-0.011	-0.306	-0.016	0.000
			22:COM9	18:COM5	18:COM5	18:COM5	18:COM5	-
3983	1922	+ve	2.793	2.352	0.025	0.042	0.108	1.055
			24:COM11	16:COM3	28:COM15	24:COM11	20:COM7	28:COM15
			-10.977	-3.831	-0.113	-0.231	-0.025	-2.857
			18:COM5	26:COM13	22:COM9	18:COM5	30:COM17	22:COM9
	1873	-ve	2.793	0.490	0.025	0.042	0.021	7.845
			24:COM11	24:COM11	28:COM15	24:COM11	28:COM15	16:COM3
			-10.977	-7.741	-0.113	-0.231	-0.101	-1.600
			18:COM5	18:COM5	22:COM9	18:COM5	22:COM9	26:COM13
3984	1921	+ve	0.000	2.175	0.062	0.110	0.097	0.740
			-	16:COM3	28:COM15	24:COM11	20:COM7	16:COM3
			-3.134	-0.539	-0.124	-0.274	-0.051	-0.498
			22:COM9	26:COM13	22:COM9	18:COM5	30:COM17	26:COM13
	1872	-ve	0.000	0.012	0.062	0.110	0.045	2.002
			-	24:COM11	28:COM15	24:COM11	28:COM15	16:COM3
			-3.134	-3.215	-0.124	-0.274	-0.095	-0.550
			22:COM9	18:COM5	22:COM9	18:COM5	22:COM9	26:COM13

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
3985	1923	+ve	2.258	1.502	0.080	0.338	0.062	0.455
			24:COM1	24:COM11	16:COM3	20:COM7	28:COM15	28:COM15
			-12.859	-3.918	-0.060	-0.234	-0.078	-3.344
			18:COM5	18:COM5	26:COM13	30:COM17	22:COM9	22:COM9
	1642	-ve	2.258	0.000	0.080	0.338	0.090	9.825
			24:COM1	-	16:COM3	20:COM7	16:COM3	16:COM3
			-12.859	-8.432	-0.060	-0.234	-0.065	-0.582
			18:COM5	18:COM5	26:COM13	30:COM17	26:COM13	26:COM13
3987	1791	+ve	4.797	10.194	0.014	0.399	0.006	19.287
			24:COM1	20:COM7	20:COM7	28:COM15	28:COM15	20:COM7
			-8.156	-3.986	-0.004	-0.518	-0.027	-15.946
			18:COM5	30:COM17	30:COM17	22:COM9	22:COM9	30:COM17
	6253	-ve	4.797	3.174	0.014	0.399	0.030	13.052
			24:COM1	28:COM15	20:COM7	28:COM15	20:COM7	20:COM7
			-8.156	-11.168	-0.004	-0.518	-0.010	-6.037
			18:COM5	22:COM9	30:COM17	22:COM9	30:COM17	30:COM17
3988	5480	+ve	24.803	44.767	0.425	9.643	0.000	26.767
			28:COM15	28:COM15	32:CVOL1	16:COM3	-	28:COM15
			-67.304	-48.163	0.000	-5.357	-0.483	-29.265
			22:COM9	22:COM9	-	26:COM13	18:COM5	22:COM9
	5534	-ve	24.803	41.477	0.425	9.643	0.378	62.362
			28:COM15	28:COM15	32:CVOL1	16:COM3	32:CVOL1	20:COM7
			-67.304	-53.630	0.000	-5.357	0.000	-50.866
			22:COM9	22:COM9	-	26:COM13	-	30:COM17
3989	1942	+ve	0.384	11.824	0.000	0.494	0.152	26.415
			24:COM1	20:COM7	-	34:CVOL3	20:COM7	20:COM7
			-9.639	0.000	-0.159	0.000	0.000	0.000
			18:COM5	-	22:COM9	-	-	-
	1943	-ve	0.384	9.933	0.000	0.494	0.037	5.277
			24:COM1	20:COM7	-	34:CVOL3	28:COM15	28:COM15
			-9.639	0.000	-0.159	0.000	-0.169	-5.796
			18:COM5	-	22:COM9	-	22:COM9	22:COM9
3990	1943	+ve	1.270	8.374	0.138	0.248	0.222	5.282
			28:COM15	20:COM7	28:COM15	34:CVOL3	20:COM7	28:COM15
			-4.562	0.000	-0.228	0.000	-0.113	-5.881
			22:COM9	-	22:COM9	-	30:COM17	22:COM9
	1944	-ve	1.270	6.484	0.138	0.248	0.162	0.000
			28:COM15	20:COM7	28:COM15	34:CVOL3	28:COM15	-
			-4.562	0.000	-0.228	0.000	-0.231	-14.415
			22:COM9	-	22:COM9	-	22:COM9	35:CVOL4
3991	1944	+ve	3.792	4.078	0.078	0.206	0.161	0.000
			24:COM1	20:COM7	28:COM15	20:COM7	20:COM7	-
			-4.692	0.000	-0.120	-0.197	-0.106	-14.439
			18:COM5	-	22:COM9	30:COM17	30:COM17	35:CVOL4
	1945	-ve	3.792	2.187	0.078	0.206	0.050	0.000
			24:COM1	20:COM7	28:COM15	20:COM7	28:COM15	-
			-4.692	-1.169	-0.120	-0.197	-0.078	-17.814
			18:COM5	30:COM17	22:COM9	30:COM17	22:COM9	35:CVOL4

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
3992	1945	+ve	4.512	0.312	0.103	0.229	0.105	0.000
			24:COM1	24:COM11	24:COM11	28:COM1	16:COM3	-
			-5.850	-2.241	-0.103	-0.401	-0.086	-17.797
			18:COM5	18:COM5	18:COM5	22:COM9	26:COM1	35:CVOL4
	1946	-ve	4.512	0.000	0.103	0.229	0.124	0.000
			24:COM1	-	24:COM11	28:COM1	16:COM3	-
			-5.850	-4.132	-0.103	-0.401	-0.103	-13.587
			18:COM5	18:COM5	18:COM5	22:COM9	26:COM1	18:COM5
3993	1946	+ve	3.907	0.000	0.097	0.098	0.118	0.000
			24:COM1	-	16:COM3	24:COM1	24:COM11	-
			-8.780	-5.895	-0.091	-0.339	-0.111	-13.631
			18:COM5	35:CVOL4	26:COM1	18:COM5	18:COM5	18:COM5
	1947	-ve	3.907	0.000	0.097	0.098	0.082	4.466
			24:COM1	-	16:COM3	24:COM1	16:COM3	16:COM3
			-8.780	-7.785	-0.091	-0.339	-0.063	-2.983
			18:COM5	35:CVOL4	26:COM1	18:COM5	26:COM1	26:COM1
3994	1947	+ve	1.258	0.000	0.000	0.345	0.110	4.490
			24:COM1	-	-	28:COM1	16:COM3	16:COM3
			-15.151	-9.029	-0.140	-0.841	0.000	-3.005
			18:COM5	35:CVOL4	22:COM9	22:COM9	-	26:COM1
	1707	-ve	1.258	0.000	0.000	0.345	0.000	21.299
			24:COM1	-	-	28:COM1	-	35:CVOL4
			-15.151	-10.918	-0.140	-0.841	-0.176	0.000
			18:COM5	35:CVOL4	22:COM9	22:COM9	22:COM9	-
3995	1948	+ve	4.234	6.442	0.084	0.687	0.036	9.980
			24:COM1	20:COM7	16:COM3	20:COM7	24:COM11	20:COM7
			-9.916	-1.483	-0.031	-0.341	-0.087	-5.155
			18:COM5	30:COM17	26:COM1	30:COM17	18:COM5	30:COM17
	1949	-ve	4.234	4.651	0.084	0.687	0.075	0.209
			24:COM1	20:COM7	16:COM3	20:COM7	16:COM3	24:COM1
			-9.916	-2.826	-0.031	-0.341	-0.025	-1.759
			18:COM5	30:COM17	26:COM1	30:COM17	26:COM1	18:COM5
3996	1949	+ve	5.643	3.092	0.019	0.352	0.023	0.096
			28:COM1	28:COM1	16:COM3	28:COM1	16:COM3	24:COM1
			-6.843	-3.099	-0.016	-0.548	-0.014	-1.670
			22:COM9	22:COM9	26:COM1	22:COM9	26:COM1	18:COM5
	1950	-ve	5.643	1.749	0.019	0.352	0.026	6.083
			28:COM1	28:COM1	16:COM3	28:COM1	16:COM3	28:COM1
			-6.843	-4.891	-0.016	-0.548	-0.013	-4.699
			22:COM9	22:COM9	26:COM1	22:COM9	26:COM1	22:COM9
3997	1950	+ve	5.429	0.155	0.010	0.078	0.108	6.164
			20:COM7	28:COM1	28:COM1	28:COM1	20:COM7	28:COM1
			-5.274	-4.949	-0.105	-0.875	-0.008	-4.730
			30:COM17	22:COM9	22:COM9	22:COM9	30:COM17	22:COM9
	1706	-ve	5.429	0.000	0.010	0.078	0.011	17.092
			20:COM7	-	28:COM1	28:COM1	28:COM1	20:COM7
			-5.274	-6.736	-0.105	-0.875	-0.089	-3.738
			30:COM17	22:COM9	22:COM9	22:COM9	22:COM9	30:COM17

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
3998	1951	+ve	4.479	1.813	0.064	0.285	0.000	2.973
			20:COM7	24:COM11	16:COM3	28:COM15	-	28:COM15
			-1.516	-3.845	0.000	-0.669	-0.044	-12.377
			30:COM17	18:COM5	-	22:COM9	18:COM5	22:COM9
	1952	-ve	4.479	0.516	0.064	0.285	0.074	8.331
			20:COM7	24:COM11	16:COM3	28:COM15	16:COM3	28:COM15
			-1.516	-5.574	0.000	-0.669	0.000	-11.305
			30:COM17	18:COM5	-	22:COM9	-	22:COM9
3999	1952	+ve	2.939	0.224	0.025	0.197	0.012	8.561
			20:COM7	24:COM11	28:COM15	24:COM17	28:COM15	28:COM15
			-0.185	-5.399	-0.024	-0.379	-0.034	-11.313
			30:COM17	18:COM5	22:COM9	18:COM5	22:COM9	22:COM9
	1727	-ve	2.939	0.000	0.025	0.197	0.026	18.407
			20:COM7	-	28:COM15	24:COM17	28:COM15	20:COM7
			-0.185	-7.503	-0.024	-0.379	-0.047	-5.671
			30:COM17	18:COM5	22:COM9	18:COM5	22:COM9	30:COM17
4003	1735	+ve	0.000	9.696	0.097	0.000	0.321	11.299
			-	20:COM7	28:COM15	-	20:COM7	28:COM15
			-15.999	-7.887	-0.133	-2.029	-0.265	-12.736
			22:COM9	30:COM17	22:COM9	34:CVOL3	30:COM17	22:COM9
	1964	-ve	0.000	4.902	0.097	0.000	0.166	37.465
			-	28:COM15	28:COM15	-	28:COM15	20:COM7
			-15.999	-15.117	-0.133	-2.029	-0.268	-20.305
			22:COM9	22:COM9	22:COM9	34:CVOL3	22:COM9	30:COM17
4004	1734	+ve	1.318	6.972	0.186	1.349	0.007	2.687
			28:COM15	20:COM7	16:COM3	28:COM15	24:COM11	28:COM15
			-11.984	-1.075	0.000	-1.586	-0.450	-14.756
			22:COM9	30:COM17	-	22:COM9	18:COM5	22:COM9
	1962	-ve	1.318	1.089	0.186	1.349	0.361	2.594
			28:COM15	28:COM15	16:COM3	28:COM15	16:COM3	28:COM15
			-11.984	-7.034	0.000	-1.586	0.000	-14.557
			22:COM9	22:COM9	-	22:COM9	-	22:COM9
4005	1956	+ve	11.083	3.698	0.028	0.550	0.040	0.000
			16:COM3	16:COM3	24:COM11	16:COM3	16:COM3	-
			-6.365	-0.928	-0.050	-0.204	-0.030	-21.038
			26:COM13	26:COM13	18:COM5	26:COM13	26:COM13	34:CVOL3
	1957	-ve	11.083	2.788	0.028	0.550	0.026	0.000
			16:COM3	16:COM3	24:COM11	16:COM3	24:COM11	-
			-6.365	-1.610	-0.050	-0.204	-0.058	-24.154
			26:COM13	26:COM13	18:COM5	26:COM13	18:COM5	34:CVOL3
4006	1957	+ve	9.133	0.728	0.044	0.744	0.053	0.000
			16:COM3	24:COM11	24:COM11	20:COM7	16:COM3	-
			-6.187	-3.943	-0.067	-0.195	-0.041	-24.032
			26:COM13	18:COM5	18:COM5	30:COM17	26:COM13	34:CVOL3
	1958	-ve	9.133	0.045	0.044	0.744	0.046	0.000
			16:COM3	24:COM11	24:COM11	20:COM7	24:COM11	-
			-6.187	-4.853	-0.067	-0.195	-0.080	-19.325
			26:COM13	18:COM5	18:COM5	30:COM17	18:COM5	18:COM5

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
4007	1958	+ve	6.487	0.000	0.160	1.213	0.037	0.000
			28:COM15	-	16:COM3	20:COM7	24:COM11	-
			-7.766	-6.461	-0.055	-0.938	-0.137	-19.310
			22:COM9	18:COM5	26:COM13	30:COM17	18:COM5	18:COM5
	1959	-ve	6.487	0.000	0.160	1.213	0.178	6.182
			28:COM15	-	16:COM3	20:COM7	16:COM3	24:COM17
			-7.766	-8.039	-0.055	-0.938	-0.071	-10.741
			22:COM9	34:CVOL3	26:COM13	30:COM17	26:COM13	18:COM5
4008	1959	+ve	1.460	0.000	9.899	7.357	0.611	6.162
			28:COM15	-	20:COM7	28:COM15	28:COM15	24:COM17
			-16.273	-8.794	-1.670	-9.166	-2.879	-10.768
			22:COM9	34:CVOL3	30:COM17	22:COM9	22:COM9	18:COM5
	1735	-ve	1.460	0.000	9.899	7.357	2.898	9.804
			28:COM15	-	20:COM7	28:COM15	20:COM7	16:COM3
			-16.273	-9.341	-1.670	-9.166	-0.365	-7.793
			22:COM9	34:CVOL3	30:COM17	22:COM9	30:COM17	26:COM13
4009	1960	+ve	0.000	0.000	1.414	0.566	0.000	20.527
			-	-	34:CVOL3	20:COM7	-	34:CVOL3
			-14.670	-7.221	0.000	0.000	-1.183	0.000
			18:COM5	22:COM9	-	-	34:CVOL3	-
	1961	-ve	0.000	0.000	1.414	0.566	1.126	33.500
			-	-	34:CVOL3	20:COM7	34:CVOL3	34:CVOL3
			-14.670	-8.777	0.000	0.000	0.000	0.000
			18:COM5	22:COM9	-	-	-	-
4010	1961	+ve	1.451	0.000	0.060	0.023	0.023	33.416
			24:COM17	-	28:COM15	24:COM17	28:COM15	34:CVOL3
			-19.836	-10.390	-0.235	-0.514	-0.222	0.000
			18:COM5	34:CVOL3	22:COM9	18:COM5	22:COM9	-
	1708	-ve	1.451	0.000	0.060	0.023	0.000	51.601
			24:COM17	-	28:COM15	24:COM17	-	34:CVOL3
			-19.836	-11.942	-0.235	-0.514	-0.419	0.000
			18:COM5	34:CVOL3	22:COM9	18:COM5	18:COM5	-
4011	1960	+ve	3.106	0.000	0.196	0.008	0.000	0.273
			34:CVOL3	-	34:CVOL3	28:COM15	-	28:COM15
			0.000	-1.286	0.000	-0.343	-0.311	-0.208
			-	32:CVOL1	-	22:COM9	34:CVOL3	22:COM9
	1898	-ve	3.106	0.000	0.196	0.008	0.286	15.091
			34:CVOL3	-	34:CVOL3	28:COM15	34:CVOL3	34:CVOL3
			0.000	-9.116	0.000	-0.343	0.000	0.000
			-	34:CVOL3	-	22:COM9	-	-
4012	1961	+ve	0.000	1.707	0.069	0.000	0.000	0.431
			-	35:CVOL4	34:CVOL3	-	-	20:COM7
			-5.102	0.000	0.000	-0.101	-0.114	-0.348
			22:COM9	-	-	22:COM9	34:CVOL3	30:COM17
	1899	-ve	0.000	0.000	0.069	0.000	0.095	7.232
			-	-	34:CVOL3	-	34:CVOL3	34:CVOL3
			-5.102	-6.298	0.000	-0.101	0.000	0.000
			22:COM9	34:CVOL3	-	22:COM9	-	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
4013	1962	+ve	0.000	1.067	0.549	1.041	1.121	3.127
			-	28:COM15	28:COM15	16:COM3	20:COM7	28:COM15
			-19.036	-15.652	-1.500	-0.821	-0.570	-15.692
			22:COM9	22:COM9	22:COM9	26:COM13	30:COM17	22:COM9
	1963	-ve	0.000	0.355	0.549	1.041	0.335	26.603
			-	28:COM15	28:COM15	16:COM3	28:COM15	20:COM7
			-19.036	-16.601	-1.500	-0.821	-1.350	-13.787
			22:COM9	22:COM9	22:COM9	26:COM13	22:COM9	30:COM17
4014	1931	+ve	0.000	3.736	0.090	0.135	0.008	3.083
			-	20:COM7	16:COM3	28:COM15	24:COM11	28:COM15
			-5.056	-2.812	0.000	-0.321	-0.123	-14.501
			18:COM5	30:COM17	-	22:COM9	18:COM5	22:COM9
	1962	-ve	0.000	0.000	0.090	0.135	0.125	1.637
			-	-	16:COM3	28:COM15	16:COM3	28:COM15
			-5.056	-8.619	0.000	-0.321	0.000	-2.369
			18:COM5	22:COM9	-	22:COM9	-	22:COM9
4015	1932	+ve	1.725	6.241	0.016	0.140	0.034	4.269
			24:COM17	20:COM7	20:COM7	24:COM17	28:COM15	28:COM15
			-12.383	-4.812	-0.013	-0.260	-0.049	-10.084
			18:COM5	30:COM17	30:COM17	18:COM5	22:COM9	22:COM9
	1753	-ve	1.725	0.310	0.016	0.140	0.022	28.838
			24:COM17	28:COM15	20:COM7	24:COM17	20:COM7	20:COM7
			-12.383	-13.792	-0.013	-0.260	-0.021	-8.624
			18:COM5	22:COM9	30:COM17	18:COM5	30:COM17	30:COM17
4016	1963	+ve	0.000	0.000	3.361	2.259	0.400	23.396
			-	-	16:COM3	24:COM17	24:COM11	20:COM7
			-15.202	-16.915	-1.088	-6.306	-1.247	-13.064
			18:COM5	22:COM9	26:COM13	18:COM5	18:COM5	30:COM17
	1753	-ve	0.000	0.000	3.361	2.259	1.405	36.893
			-	-	16:COM3	24:COM17	16:COM3	20:COM7
			-15.202	-17.369	-1.088	-6.306	-0.459	-9.882
			18:COM5	22:COM9	26:COM13	18:COM5	26:COM13	30:COM17
4017	1963	+ve	4.394	4.824	0.187	1.320	0.000	3.248
			28:COM15	20:COM7	20:COM7	20:COM7	-	24:COM17
			-4.449	-0.319	0.000	-0.277	-0.150	-8.073
			22:COM9	30:COM17	-	30:COM17	22:COM9	18:COM5
	1969	-ve	4.394	2.699	0.187	1.320	0.170	0.099
			28:COM15	20:COM7	20:COM7	20:COM7	20:COM7	24:COM17
			-4.449	-1.914	0.000	-0.277	0.000	-9.437
			22:COM9	30:COM17	-	30:COM17	-	18:COM5
4018	1964	+ve	0.000	0.805	0.195	6.200	0.580	33.742
			-	28:COM15	24:COM11	20:COM7	16:COM3	20:COM7
			-18.230	-15.304	-1.032	-3.165	0.000	-19.047
			18:COM5	22:COM9	18:COM5	30:COM17	-	30:COM17
	1767	-ve	0.000	0.013	0.195	6.200	0.186	46.238
			-	28:COM15	24:COM11	20:COM7	24:COM11	20:COM7
			-18.230	-16.641	-1.032	-3.165	-0.244	-19.347
			18:COM5	22:COM9	18:COM5	30:COM17	18:COM5	30:COM17

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
4019	1730	+ve	5.928	7.044	0.084	0.450	0.000	22.738
			16:COM3	16:COM3	16:COM3	20:COM7	-	16:COM3
			-4.695	0.000	0.000	-0.059	-0.086	0.000
			26:COM1	-	-	30:COM1	18:COM5	-
	1965	-ve	5.928	4.615	0.084	0.450	0.079	16.091
			16:COM3	16:COM3	16:COM3	20:COM7	16:COM3	16:COM3
			-4.695	0.000	0.000	-0.059	0.000	-7.677
			26:COM1	-	-	30:COM1	-	26:COM1
4020	1965	+ve	9.221	8.207	0.014	0.374	0.025	15.847
			16:COM3	16:COM3	24:COM1	20:COM7	16:COM3	16:COM3
			-3.645	0.000	-0.028	-0.069	-0.008	-7.770
			26:COM1	-	18:COM5	30:COM1	26:COM1	26:COM1
	1966	-ve	9.221	5.777	0.014	0.374	0.021	3.547
			16:COM3	16:COM3	24:COM1	20:COM7	24:COM1	24:COM1
			-3.645	-0.294	-0.028	-0.069	-0.030	-10.307
			26:COM1	26:COM1	18:COM5	30:COM1	18:COM5	18:COM5
4021	1966	+ve	9.678	6.040	0.017	0.189	0.057	3.471
			20:COM7	16:COM3	24:COM1	28:COM1	16:COM3	24:COM1
			-5.040	-0.615	-0.056	-0.210	-0.018	-10.347
			30:COM1	26:COM1	18:COM5	22:COM9	26:COM1	18:COM5
	1967	-ve	9.678	3.610	0.017	0.189	0.016	0.000
			20:COM7	16:COM3	24:COM1	28:COM1	24:COM1	-
			-5.040	-2.437	-0.056	-0.210	-0.053	-8.816
			30:COM1	26:COM1	18:COM5	22:COM9	18:COM5	18:COM5
4022	1967	+ve	10.052	2.522	0.000	0.176	0.086	0.000
			20:COM7	16:COM3	-	28:COM1	16:COM3	-
			-7.095	-1.885	-0.098	-0.546	0.000	-8.727
			30:COM1	26:COM1	18:COM5	22:COM9	-	18:COM5
	1968	-ve	10.052	0.689	0.000	0.176	0.000	0.000
			20:COM7	24:COM1	-	28:COM1	-	-
			-7.095	-4.304	-0.098	-0.546	-0.106	-9.758
			30:COM1	18:COM5	18:COM5	22:COM9	18:COM5	18:COM5
4023	1968	+ve	9.041	1.978	0.000	0.503	0.248	0.000
			28:COM1	20:COM7	-	28:COM1	20:COM7	-
			-10.577	-2.506	-0.285	-1.338	0.000	-9.435
			22:COM9	30:COM1	18:COM5	22:COM9	-	18:COM5
	1964	-ve	9.041	0.359	0.000	0.503	0.000	3.167
			28:COM1	28:COM1	-	28:COM1	-	28:COM1
			-10.577	-4.643	-0.285	-1.338	-0.247	-8.917
			22:COM9	22:COM9	18:COM5	22:COM9	18:COM5	22:COM9
4024	1965	+ve	0.399	1.754	0.041	0.007	0.190	0.275
			24:COM1	24:COM1	28:COM1	28:COM1	20:COM7	24:COM1
			-6.463	-6.156	-0.514	-0.272	-0.008	-1.099
			18:COM5	18:COM5	22:COM9	22:COM9	30:COM1	18:COM5
	1763	-ve	0.399	0.937	0.041	0.007	0.023	4.040
			24:COM1	24:COM1	28:COM1	28:COM1	28:COM1	16:COM3
			-6.463	-7.545	-0.514	-0.272	-0.196	-0.735
			18:COM5	18:COM5	22:COM9	22:COM9	22:COM9	26:COM1

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
4025	1966	+ve	0.000	0.662	0.117	0.071	0.119	0.134
			-	16:COM3	28:COM15	28:COM15	16:COM3	16:COM3
			-1.903	-0.605	-0.289	-0.161	-0.046	-0.095
			18:COM5	26:COM13	22:COM9	22:COM9	26:COM13	26:COM13
	1764	-ve	0.000	0.000	0.117	0.071	0.047	0.734
			-	-	28:COM15	28:COM15	28:COM15	16:COM3
			-1.903	-1.708	-0.289	-0.161	-0.103	0.000
			18:COM5	18:COM5	22:COM9	22:COM9	22:COM9	-
4026	1967	+ve	0.085	1.094	0.349	0.199	0.082	0.257
			20:COM7	16:COM3	20:COM7	20:COM7	28:COM15	16:COM3
			-0.895	-0.558	-0.195	-0.093	-0.126	-0.029
			30:COM17	26:COM13	30:COM17	30:COM17	22:COM9	26:COM13
	1765	-ve	0.085	0.000	0.349	0.199	0.136	0.706
			20:COM7	-	20:COM7	20:COM7	20:COM7	16:COM3
			-0.895	-1.524	-0.195	-0.093	-0.064	-0.054
			30:COM17	18:COM5	30:COM17	30:COM17	30:COM17	26:COM13
4027	1968	+ve	1.746	1.166	0.679	0.451	0.132	0.366
			28:COM15	24:COM11	20:COM7	20:COM7	28:COM15	24:COM11
			-5.810	-4.254	-0.300	-0.126	-0.222	-0.510
			22:COM9	18:COM5	30:COM17	30:COM17	22:COM9	18:COM5
	1766	-ve	1.746	0.350	0.679	0.451	0.288	3.320
			28:COM15	24:COM11	20:COM7	20:COM7	20:COM7	20:COM7
			-5.810	-5.643	-0.300	-0.126	-0.094	-0.322
			22:COM9	18:COM5	30:COM17	30:COM17	30:COM17	30:COM17
4028	1969	+ve	5.730	4.563	0.044	0.617	0.000	0.000
			20:COM7	16:COM3	16:COM3	20:COM7	-	-
			-4.728	-0.573	0.000	-0.143	-0.045	-9.776
			30:COM17	26:COM13	-	30:COM17	18:COM5	18:COM5
	1970	-ve	5.730	2.133	0.044	0.617	0.041	0.000
			20:COM7	16:COM3	16:COM3	20:COM7	16:COM3	-
			-4.728	-2.395	0.000	-0.143	0.000	-9.186
			30:COM17	26:COM13	-	30:COM17	-	22:COM9
4029	1970	+ve	5.379	2.507	0.042	0.263	0.018	0.000
			20:COM7	24:COM11	16:COM3	20:COM7	24:COM11	-
			-3.997	-3.411	-0.018	-0.177	-0.037	-9.144
			30:COM17	18:COM5	26:COM13	30:COM17	18:COM5	22:COM9
	1971	-ve	5.379	0.684	0.042	0.263	0.044	3.001
			20:COM7	24:COM11	16:COM3	20:COM7	16:COM3	24:COM11
			-3.997	-5.841	-0.018	-0.177	-0.018	-10.755
			30:COM17	18:COM5	26:COM13	30:COM17	26:COM13	18:COM5
4030	1971	+ve	4.442	0.301	0.022	0.102	0.020	3.051
			20:COM7	24:COM11	16:COM3	28:COM15	24:COM11	24:COM11
			-2.460	-5.642	-0.014	-0.353	-0.026	-10.735
			30:COM17	18:COM5	26:COM13	22:COM9	18:COM5	18:COM5
	1972	-ve	4.442	0.000	0.022	0.102	0.019	14.815
			20:COM7	-	16:COM3	28:COM15	20:COM7	16:COM3
			-2.460	-8.072	-0.014	-0.353	-0.009	-7.939
			30:COM17	18:COM5	26:COM13	22:COM9	30:COM17	26:COM13

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
4031	1972	+ve	2.312	0.000	0.000	0.049	0.078	15.027
			28:COM15	-	-	24:COM17	16:COM3	16:COM3
			-3.846	-4.888	-0.084	-0.423	0.000	-7.856
			22:COM9	22:COM9	18:COM5	18:COM5	-	26:COM13
	1728	-ve	2.312	0.000	0.000	0.049	0.000	22.548
			28:COM15	-	-	24:COM17	-	16:COM3
			-3.846	-7.318	-0.084	-0.423	-0.085	0.000
			22:COM9	22:COM9	18:COM5	18:COM5	18:COM5	-
4032	1969	+ve	1.123	1.478	0.235	0.085	0.290	0.344
			28:COM15	28:COM15	28:COM15	28:COM15	20:COM7	24:COM17
			-6.415	-4.682	-0.839	-0.495	-0.089	-0.568
			22:COM9	22:COM9	22:COM9	22:COM9	30:COM17	18:COM5
	1754	-ve	1.123	0.661	0.235	0.085	0.087	3.587
			28:COM15	28:COM15	28:COM15	28:COM15	28:COM15	20:COM7
			-6.415	-6.071	-0.839	-0.495	-0.339	-0.581
			22:COM9	22:COM9	22:COM9	22:COM9	22:COM9	30:COM17
4033	1970	+ve	0.017	1.110	0.177	0.084	0.165	0.262
			28:COM15	16:COM3	28:COM15	28:COM15	20:COM7	16:COM3
			-1.041	-0.467	-0.447	-0.236	-0.071	-0.028
			22:COM9	26:COM13	22:COM9	22:COM9	30:COM17	26:COM13
	1755	-ve	0.017	0.000	0.177	0.084	0.061	0.637
			28:COM15	-	28:COM15	28:COM15	28:COM15	24:COM17
			-1.041	-1.411	-0.447	-0.236	-0.170	-0.057
			22:COM9	18:COM5	22:COM9	22:COM9	22:COM9	18:COM5
4034	1971	+ve	0.000	0.735	0.279	0.147	0.067	0.145
			-	16:COM3	20:COM7	20:COM7	28:COM15	16:COM3
			-1.614	-0.551	-0.182	-0.092	-0.111	-0.062
			18:COM5	26:COM13	30:COM17	30:COM17	22:COM9	26:COM13
	1756	-ve	0.000	0.000	0.279	0.147	0.098	0.705
			-	-	20:COM7	20:COM7	20:COM7	16:COM3
			-1.614	-1.620	-0.182	-0.092	-0.069	0.000
			18:COM5	18:COM5	30:COM17	30:COM17	30:COM17	-
4035	1972	+ve	0.563	1.953	0.504	0.261	0.033	0.314
			24:COM17	24:COM11	20:COM7	20:COM7	28:COM15	24:COM17
			-5.770	-5.678	-0.105	-0.025	-0.186	-0.972
			18:COM5	18:COM5	30:COM17	30:COM17	22:COM9	18:COM5
	1757	-ve	0.563	1.136	0.504	0.261	0.192	3.809
			24:COM17	24:COM11	20:COM7	20:COM7	20:COM7	16:COM3
			-5.770	-7.068	-0.105	-0.025	-0.046	-0.845
			18:COM5	18:COM5	30:COM17	30:COM17	30:COM17	26:COM13
4036	1973	+ve	3.096	10.412	0.015	0.107	0.093	9.995
			24:COM17	24:COM11	24:COM11	24:COM17	20:COM7	34:CVOL3
			-6.962	-12.339	-0.120	-0.561	0.000	0.000
			18:COM5	18:COM5	18:COM5	18:COM5	-	-
	5499	-ve	3.096	9.170	0.015	0.107	0.033	34.704
			24:COM17	24:COM11	24:COM11	24:COM17	24:COM11	16:COM3
			-6.962	-13.996	-0.120	-0.561	-0.150	-14.547
			18:COM5	18:COM5	18:COM5	18:COM5	18:COM5	26:COM13

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
4038	1973	+ve	0.376	1.708	0.177	0.141	0.136	0.637
			28:COM15	34:CVOL3	24:COM11	24:COM11	16:COM3	20:COM7
			-2.179	0.000	-0.227	-0.217	-0.107	0.000
			22:COM9	-	18:COM5	18:COM5	26:COM13	-
	1916	-ve	0.376	0.000	0.177	0.141	0.114	0.668
			28:COM15	-	24:COM11	24:COM11	24:COM11	35:CVOL4
			-2.179	-1.780	-0.227	-0.217	-0.148	-0.062
			22:COM9	35:CVOL4	18:COM5	18:COM5	18:COM5	26:COM13
4039	5499	+ve	5.729	9.644	0.653	25.015	0.025	0.739
			16:COM3	24:COM11	16:COM3	16:COM3	28:COM15	24:COM11
			-1.468	-21.600	0.000	-6.665	-0.402	-1.080
			26:COM13	18:COM5	-	26:COM13	22:COM9	18:COM5
	5466	-ve	5.729	7.526	0.653	25.015	0.676	28.183
			16:COM3	24:COM11	16:COM3	16:COM3	16:COM3	16:COM3
			-1.468	-25.420	0.000	-6.665	-0.155	-9.950
			26:COM13	18:COM5	-	26:COM13	26:COM13	26:COM13
4042	1976	+ve	46.493	0.000	0.000	25.759	5.769	39.105
			20:COM7	-	-	34:CVOL3	34:CVOL3	20:COM7
			0.000	-16.867	-5.763	0.000	0.000	-1.837
			-	22:COM9	22:COM9	-	-	30:COM17
	1977	-ve	46.493	0.000	0.000	25.759	0.000	65.425
			20:COM7	-	-	34:CVOL3	-	34:CVOL3
			0.000	-20.926	-5.763	0.000	-6.073	0.000
			-	22:COM9	22:COM9	-	22:COM9	-
4043	1977	+ve	82.956	17.706	0.000	47.798	10.024	60.869
			20:COM7	28:COM15	-	20:COM7	34:CVOL3	34:CVOL3
			-0.257	-35.360	-9.651	0.000	0.000	0.000
			30:COM17	22:COM9	34:CVOL3	-	-	-
	1793	-ve	82.956	14.662	0.000	47.798	0.000	107.575
			20:COM7	28:COM15	-	20:COM7	-	20:COM7
			-0.257	-39.420	-9.651	0.000	-9.077	0.000
			30:COM17	22:COM9	34:CVOL3	-	22:COM9	-
4044	1978	+ve	30.905	29.258	4.931	24.123	0.588	53.492
			34:CVOL3	34:CVOL3	20:COM7	20:COM7	28:COM15	34:CVOL3
			0.000	0.000	-0.586	-1.040	-5.520	0.000
			-	-	30:COM17	30:COM17	22:COM9	-
	1979	-ve	30.905	25.876	4.931	24.123	4.122	2.742
			34:CVOL3	34:CVOL3	20:COM7	20:COM7	20:COM7	28:COM15
			0.000	0.000	-0.586	-1.040	-0.560	-4.329
			-	-	30:COM17	30:COM17	30:COM17	22:COM9
4045	1978	+ve	2.332	10.006	0.015	0.000	0.000	9.403
			16:COM3	20:COM7	34:CVOL3	-	-	35:CVOL4
			-2.084	0.000	0.000	-0.747	-0.052	0.000
			26:COM13	-	-	22:COM9	34:CVOL3	-
	1977	-ve	2.332	0.000	0.015	0.000	0.039	10.964
			16:COM3	-	34:CVOL3	-	34:CVOL3	20:COM7
			-2.084	-7.531	0.000	-0.747	0.000	-11.209
			26:COM13	22:COM9	-	22:COM9	-	30:COM17

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
4046	1979	+ve	7.206	14.065	5.630	22.974	1.128	6.130
			20:COM7	32:CVOL1	20:COM7	20:COM7	28:COM15	32:CVOL1
			0.000	0.000	-3.501	0.000	-3.139	-1.067
			-	-	30:COM17	-	22:COM9	30:COM17
	1715	-ve	7.206	12.482	5.630	22.974	1.457	0.000
			20:COM7	32:CVOL1	20:COM7	20:COM7	28:COM15	-
			0.000	0.000	-3.501	0.000	-1.798	-5.213
			-	-	30:COM17	-	22:COM9	22:COM9
4047	1979	+ve	9.734	7.835	0.003	0.000	0.022	6.838
			20:COM7	35:CVOL4	28:COM15	-	20:COM7	35:CVOL4
			-4.782	0.000	-0.009	-0.405	-0.008	0.000
			30:COM17	-	22:COM9	22:COM9	30:COM17	-
	1976	-ve	9.734	0.000	0.003	0.000	0.010	8.584
			20:COM7	-	28:COM15	-	28:COM15	34:CVOL3
			-4.782	-8.430	-0.009	-0.405	-0.031	0.000
			30:COM17	34:CVOL3	22:COM9	22:COM9	22:COM9	-
4048	1980	+ve	0.798	24.054	0.497	3.097	0.554	62.969
			28:COM15	34:CVOL3	28:COM15	16:COM3	20:COM7	34:CVOL3
			-1.806	0.000	-0.384	-0.481	-0.580	0.000
			22:COM9	-	22:COM9	26:COM13	30:COM17	-
	1981	-ve	0.798	21.778	0.497	3.097	0.418	17.756
			28:COM15	34:CVOL3	28:COM15	16:COM3	28:COM15	34:CVOL3
			-1.806	0.000	-0.384	-0.481	-0.221	0.000
			22:COM9	-	22:COM9	26:COM13	22:COM9	-
4049	1981	+ve	0.561	10.710	0.303	0.703	0.185	18.193
			20:COM7	34:CVOL3	20:COM7	28:COM15	28:COM15	34:CVOL3
			-0.591	0.000	-0.220	-1.323	-0.325	0.000
			30:COM17	-	30:COM17	22:COM9	22:COM9	-
	1720	-ve	0.561	8.434	0.303	0.703	0.276	0.000
			20:COM7	34:CVOL3	20:COM7	28:COM15	16:COM3	-
			-0.591	0.000	-0.220	-1.323	-0.254	-0.844
			30:COM17	-	30:COM17	22:COM9	26:COM13	32:CVOL1
4050	1982	+ve	3.898	30.021	0.564	0.000	0.653	51.244
			20:COM7	20:COM7	16:COM3	-	24:COM11	34:CVOL3
			-1.403	0.000	-0.154	-12.208	-0.572	0.000
			30:COM17	-	26:COM13	22:COM9	18:COM5	-
	1723	-ve	3.898	27.637	0.564	0.000	0.707	2.996
			20:COM7	20:COM7	16:COM3	-	16:COM3	20:COM7
			-1.403	0.000	-0.154	-12.208	0.000	0.000
			30:COM17	-	26:COM13	22:COM9	-	-
4051	1980	+ve	1.765	8.019	0.002	0.171	0.017	5.869
			24:COM11	34:CVOL3	24:COM11	20:COM7	16:COM3	34:CVOL3
			-7.605	0.000	-0.004	0.000	-0.007	0.000
			18:COM5	-	18:COM5	-	26:COM13	-
	1982	-ve	1.765	0.000	0.002	0.171	0.005	8.531
			24:COM11	-	24:COM11	20:COM7	24:COM11	35:CVOL4
			-7.605	-8.842	-0.004	0.000	-0.011	0.000
			18:COM5	35:CVOL4	18:COM5	-	18:COM5	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
4052	1981	+ve	4.466	7.663	0.005	0.156	0.000	6.362
			34:CVOL3	35:CVOL4	20:COM7	20:COM7	-	35:CVOL4
			0.000	0.000	0.000	0.000	-0.015	0.000
			-	-	-	-	18:COM5	-
	1723	-ve	4.466	0.000	0.005	0.156	0.018	8.616
			34:CVOL3	-	20:COM7	20:COM7	20:COM7	35:CVOL4
			0.000	-8.410	0.000	0.000	0.000	0.000
			-	34:CVOL3	-	-	-	-
4053	1983	+ve	0.000	0.000	0.627	1.026	0.000	0.054
			-	-	34:CVOL3	20:COM7	-	28:COM15
			-4.059	-3.617	0.000	-0.224	-0.547	-1.741
			34:CVOL3	34:CVOL3	-	30:COM17	34:CVOL3	22:COM9
	1984	-ve	0.000	0.000	0.627	1.026	0.678	7.619
			-	-	34:CVOL3	20:COM7	34:CVOL3	34:CVOL3
			-4.059	-5.481	0.000	-0.224	0.000	0.000
			34:CVOL3	34:CVOL3	-	30:COM17	-	-
4054	1984	+ve	0.000	0.000	0.937	0.815	0.000	7.275
			-	-	34:CVOL3	20:COM7	-	34:CVOL3
			-10.770	-6.100	0.000	-0.120	-0.865	0.000
			18:COM5	34:CVOL3	-	30:COM17	34:CVOL3	-
	1960	-ve	0.000	0.000	0.937	0.815	0.940	20.793
			-	-	34:CVOL3	20:COM7	34:CVOL3	34:CVOL3
			-10.770	-7.937	0.000	-0.120	0.000	0.000
			18:COM5	34:CVOL3	-	30:COM17	-	-
4055	1983	+ve	0.000	3.059	0.052	0.032	0.000	1.034
			-	35:CVOL4	34:CVOL3	28:COM15	-	35:CVOL4
			-3.961	0.000	0.000	-0.277	-0.079	0.000
			34:CVOL3	-	-	22:COM9	22:COM9	-
	1979	-ve	0.000	0.000	0.052	0.032	0.081	4.153
			-	-	34:CVOL3	28:COM15	34:CVOL3	34:CVOL3
			-3.961	-5.028	0.000	-0.277	0.000	0.000
			34:CVOL3	34:CVOL3	-	22:COM9	-	-
4056	1984	+ve	0.868	0.808	0.174	0.033	0.000	0.212
			16:COM3	35:CVOL4	34:CVOL3	28:COM15	-	20:COM7
			-0.265	-0.400	0.000	-0.468	-0.273	-0.107
			26:COM13	30:COM17	-	22:COM9	34:CVOL3	30:COM17
	1978	-ve	0.868	0.000	0.174	0.033	0.255	10.850
			16:COM3	-	34:CVOL3	28:COM15	34:CVOL3	34:CVOL3
			-0.265	-7.710	0.000	-0.468	0.000	0.000
			26:COM13	34:CVOL3	-	22:COM9	-	-
4057	1985	+ve	1.391	7.044	0.000	0.425	0.037	21.735
			28:COM15	16:COM3	-	34:CVOL3	20:COM7	34:CVOL3
			-2.224	0.000	-0.038	0.000	-0.009	0.000
			22:COM9	-	18:COM5	-	30:COM17	-
	1986	-ve	1.391	5.395	0.000	0.425	0.008	10.060
			28:COM15	16:COM3	-	34:CVOL3	24:COM11	34:CVOL3
			-2.224	0.000	-0.038	0.000	-0.061	0.000
			22:COM9	-	18:COM5	-	18:COM5	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
4058	1986	+ve	0.342	5.175	0.000	0.228	0.084	9.959
			28:COM1	34:CVOL3	-	16:COM3	16:COM3	34:CVOL3
			-0.506	0.000	-0.076	-0.004	0.000	0.000
			22:COM9	-	18:COM5	26:COM1	-	-
	1719	-ve	0.342	3.214	0.000	0.228	0.000	0.076
			28:COM1	34:CVOL3	-	16:COM3	-	24:COM1
			-0.506	0.000	-0.076	-0.004	-0.097	-0.130
			22:COM9	-	18:COM5	26:COM1	18:COM5	18:COM5
4059	1985	+ve	0.000	0.242	0.063	0.043	0.096	0.039
			-	24:COM11	24:COM11	24:COM1	16:COM3	24:COM1
			-7.066	-4.812	-0.153	-0.131	-0.042	-2.002
			18:COM5	18:COM5	18:COM5	18:COM5	26:COM1	18:COM5
	1980	-ve	0.000	0.000	0.063	0.043	0.036	5.619
			-	-	24:COM11	24:COM1	24:COM11	16:COM3
			-7.066	-7.459	-0.153	-0.131	-0.094	0.000
			18:COM5	18:COM5	18:COM5	18:COM5	18:COM5	-
4060	1986	+ve	0.000	0.877	0.000	0.000	0.075	0.210
			-	16:COM3	-	-	20:COM7	24:COM1
			-4.204	-1.469	-0.112	-0.096	0.000	-0.522
			18:COM5	26:COM1	22:COM9	22:COM9	-	18:COM5
	1981	-ve	0.000	0.000	0.000	0.000	0.000	2.845
			-	-	-	-	-	16:COM3
			-4.204	-4.038	-0.112	-0.096	-0.064	-0.020
			18:COM5	18:COM5	22:COM9	22:COM9	22:COM9	26:COM1
4062	1982	+ve	1.812	8.710	0.007	0.276	0.005	11.384
			24:COM1	20:COM7	20:COM7	20:COM7	28:COM1	34:CVOL3
			-5.963	-0.030	-0.001	-0.150	-0.012	0.000
			18:COM5	30:COM1	30:COM1	30:COM1	22:COM9	-
	6262	-ve	1.812	2.210	0.007	0.276	0.011	13.107
			24:COM1	28:COM1	20:COM7	20:COM7	16:COM3	20:COM7
			-5.963	-4.343	-0.001	-0.150	0.000	-7.890
			18:COM5	22:COM9	30:COM1	30:COM1	-	30:COM1
4068	1977	+ve	1.746	10.428	0.019	0.133	0.052	15.983
			24:COM1	28:COM1	28:COM1	28:COM1	20:COM7	28:COM1
			-9.685	-26.840	-0.030	-0.899	-0.044	-37.804
			18:COM5	22:COM9	22:COM9	22:COM9	30:COM1	22:COM9
	1649	-ve	1.746	5.522	0.019	0.133	0.033	87.890
			24:COM1	28:COM1	28:COM1	28:COM1	28:COM1	20:COM7
			-9.685	-35.790	-0.030	-0.899	-0.068	-16.030
			18:COM5	22:COM9	22:COM9	22:COM9	22:COM9	30:COM1
4069	1990	+ve	3.192	0.000	0.655	20.015	0.281	54.218
			28:COM1	-	20:COM7	20:COM7	28:COM1	34:CVOL3
			-23.895	-47.361	-0.464	-12.328	-0.796	0.000
			22:COM9	34:CVOL3	30:COM1	30:COM1	22:COM9	-
	1649	-ve	3.192	0.000	0.655	20.015	0.857	173.656
			28:COM1	-	20:COM7	20:COM7	28:COM1	34:CVOL3
			-23.895	-50.185	-0.464	-12.328	-0.904	0.000
			22:COM9	34:CVOL3	30:COM1	30:COM1	22:COM9	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
4070	1976	+ve	2.442	3.346	0.006	0.553	0.062	2.189
			28:COM15	28:COM15	28:COM15	20:COM7	20:COM7	28:COM15
			-5.298	-21.724	-0.050	-0.259	-0.011	-21.056
			22:COM9	22:COM9	22:COM9	30:COM17	30:COM17	22:COM9
	1990	-ve	2.442	0.083	0.006	0.553	0.004	44.896
			28:COM15	28:COM15	28:COM15	20:COM7	28:COM15	20:COM7
			-5.298	-27.677	-0.050	-0.259	-0.073	-2.395
			22:COM9	22:COM9	22:COM9	30:COM17	22:COM9	30:COM17
4072	1990	+ve	1.852	10.348	0.001	0.058	0.000	21.624
			16:COM3	34:CVOL3	20:COM7	24:COM17	-	34:CVOL3
			0.000	0.000	-0.001	-0.415	-0.008	0.000
			-	-	30:COM17	18:COM5	18:COM5	-
	6205	-ve	1.852	0.000	0.001	0.058	0.003	12.802
			16:COM3	-	20:COM7	24:COM17	28:COM15	20:COM7
			0.000	-7.028	-0.001	-0.415	-0.008	0.000
			-	35:CVOL4	30:COM17	18:COM5	22:COM9	-
4073	1992	+ve	4.686	7.826	0.015	0.355	0.014	14.793
			20:COM7	16:COM3	24:COM11	16:COM3	16:COM3	16:COM3
			-1.162	0.000	-0.017	0.000	-0.010	-7.597
			30:COM17	-	18:COM5	-	26:COM13	26:COM13
	1993	-ve	4.686	5.396	0.015	0.355	0.021	3.139
			20:COM7	16:COM3	24:COM11	16:COM3	24:COM11	24:COM11
			-1.162	-0.530	-0.017	0.000	-0.020	-9.578
			30:COM17	26:COM13	18:COM5	-	18:COM5	18:COM5
4074	1993	+ve	4.958	5.810	0.023	0.136	0.036	3.007
			20:COM7	16:COM3	24:COM11	16:COM3	16:COM3	24:COM11
			-1.445	-0.907	-0.033	-0.013	-0.020	-9.645
			30:COM17	26:COM13	18:COM5	26:COM13	26:COM13	18:COM5
	1994	-ve	4.958	3.381	0.023	0.136	0.024	0.000
			20:COM7	16:COM3	24:COM11	16:COM3	24:COM11	-
			-1.445	-2.729	-0.033	-0.013	-0.027	-7.833
			30:COM17	26:COM13	18:COM5	26:COM13	18:COM5	35:CVOL4
4075	1994	+ve	4.681	2.963	0.032	0.005	0.025	0.000
			20:COM7	24:COM11	16:COM3	24:COM11	24:COM11	-
			-1.306	-2.962	-0.022	-0.140	-0.027	-7.829
			30:COM17	18:COM5	26:COM13	18:COM5	18:COM5	35:CVOL4
	1995	-ve	4.681	1.140	0.032	0.005	0.034	2.527
			20:COM7	24:COM11	16:COM3	24:COM11	16:COM3	24:COM11
			-1.306	-5.392	-0.022	-0.140	-0.019	-10.431
			30:COM17	18:COM5	26:COM13	18:COM5	26:COM13	18:COM5
4076	1995	+ve	3.615	0.774	0.011	0.000	0.022	2.662
			20:COM7	24:COM11	16:COM3	-	24:COM11	24:COM11
			-0.911	-4.981	-0.017	-0.351	-0.016	-10.355
			30:COM17	18:COM5	26:COM13	18:COM5	18:COM5	18:COM5
	1996	-ve	3.615	0.000	0.011	0.000	0.010	13.155
			20:COM7	-	16:COM3	-	20:COM7	16:COM3
			-0.911	-7.411	-0.017	-0.351	-0.015	-8.498
			30:COM17	18:COM5	26:COM13	18:COM5	30:COM17	26:COM13

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
4077	1996	+ve	1.157	0.000	0.000	0.000	0.087	13.471
			28:COM15	-	-	-	16:COM3	16:COM3
			-4.304	-3.742	-0.093	-0.451	0.000	-8.403
			22:COM9	18:COM5	18:COM5	18:COM5	-	26:COM13
	1729	-ve	1.157	0.000	0.000	0.000	0.000	18.874
			28:COM15	-	-	-	-	16:COM3
			-4.304	-6.171	-0.093	-0.451	-0.095	-0.913
			22:COM9	18:COM5	18:COM5	18:COM5	18:COM5	26:COM13
4078	1992	+ve	0.485	1.992	0.000	0.000	0.180	0.299
			24:COM11	24:COM11	-	-	20:COM7	24:COM11
			-6.126	-6.010	-0.477	-0.258	0.000	-1.051
			18:COM5	18:COM5	22:COM9	18:COM5	-	18:COM5
	1748	-ve	0.485	1.176	0.000	0.000	0.000	3.977
			24:COM11	24:COM11	-	-	-	16:COM3
			-6.126	-7.399	-0.477	-0.258	-0.178	-0.889
			18:COM5	18:COM5	22:COM9	18:COM5	18:COM5	26:COM13
4079	1993	+ve	0.000	0.633	0.022	0.000	0.134	0.095
			-	16:COM3	24:COM11	-	16:COM3	16:COM3
			-1.785	-0.670	-0.328	-0.146	-0.014	-0.106
			18:COM5	26:COM13	18:COM5	18:COM5	26:COM13	26:COM13
	1749	-ve	0.000	0.000	0.022	0.000	0.003	0.779
			-	-	24:COM11	-	24:COM11	16:COM3
			-1.785	-1.804	-0.328	-0.146	-0.112	0.000
			18:COM5	18:COM5	18:COM5	18:COM5	18:COM5	-
4080	1994	+ve	0.000	0.800	0.100	0.029	0.040	0.130
			-	35:CVOL4	16:COM3	16:COM3	24:COM11	20:COM7
			-0.865	0.000	-0.087	-0.026	-0.045	-0.038
			32:CVOL1	-	26:COM13	26:COM13	18:COM5	30:COM17
	1750	-ve	0.000	0.000	0.100	0.029	0.031	0.373
			-	-	16:COM3	16:COM3	16:COM3	32:CVOL1
			-0.865	-1.115	-0.087	-0.026	-0.025	0.000
			32:CVOL1	32:CVOL1	26:COM13	26:COM13	26:COM13	-
4081	1995	+ve	0.000	0.623	0.337	0.146	0.005	0.080
			-	16:COM3	16:COM3	16:COM3	24:COM11	16:COM3
			-1.717	-0.668	0.000	0.000	-0.137	-0.102
			18:COM5	26:COM13	-	-	18:COM5	26:COM13
	1751	-ve	0.000	0.000	0.337	0.146	0.116	0.783
			-	-	16:COM3	16:COM3	16:COM3	16:COM3
			-1.717	-1.801	0.000	0.000	0.000	0.000
			18:COM5	18:COM5	-	-	-	-
4082	1996	+ve	0.341	1.901	0.487	0.255	0.000	0.276
			24:COM11	24:COM11	20:COM7	20:COM7	-	24:COM11
			-5.891	-5.875	0.000	0.000	-0.182	-1.016
			18:COM5	18:COM5	-	-	22:COM9	18:COM5
	1752	-ve	0.341	1.084	0.487	0.255	0.183	3.911
			24:COM11	24:COM11	20:COM7	20:COM7	20:COM7	16:COM3
			-5.891	-7.264	0.000	0.000	0.000	-0.843
			18:COM5	18:COM5	-	-	-	26:COM13

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
4083	1739	+ve	0.000	8.274	0.005	0.267	0.006	12.156
			-	34:CVOL3	20:COM7	16:COM3	28:COM15	34:CVOL3
			-0.570	0.000	-0.003	0.000	-0.010	0.000
			22:COM9	-	30:COM17	-	22:COM9	-
	1997	-ve	0.000	0.000	0.005	0.267	0.011	0.322
			-	-	20:COM7	16:COM3	20:COM7	35:CVOL4
			-0.570	-3.293	-0.003	0.000	-0.007	0.000
			22:COM9	35:CVOL4	30:COM17	-	30:COM17	-
4084	1740	+ve	0.000	7.909	0.003	0.166	0.004	10.834
			-	34:CVOL3	20:COM7	34:CVOL3	28:COM15	34:CVOL3
			-1.386	0.000	-0.003	0.000	-0.007	0.000
			22:COM9	-	30:COM17	-	22:COM9	-
	1998	-ve	0.000	0.000	0.003	0.166	0.006	0.503
			-	-	20:COM7	34:CVOL3	20:COM7	16:COM3
			-1.386	-3.434	-0.003	0.000	-0.008	-0.044
			22:COM9	35:CVOL4	30:COM17	-	30:COM17	26:COM13
4085	1741	+ve	0.000	7.914	0.007	0.101	0.000	11.956
			-	34:CVOL3	16:COM3	32:CVOL1	24:COM11	16:COM3
			-5.653	0.000	-0.003	-0.033	-0.013	0.000
			22:COM9	-	26:COM13	26:COM13	18:COM5	-
	1999	-ve	0.000	0.000	0.007	0.101	0.019	1.309
			-	-	16:COM3	32:CVOL1	16:COM3	16:COM3
			-5.653	-3.296	-0.003	-0.033	-0.013	0.000
			22:COM9	18:COM5	26:COM13	26:COM13	26:COM13	-
4086	2000	+ve	0.496	0.000	0.290	0.185	0.295	23.170
			28:COM15	-	28:COM15	28:COM15	20:COM7	16:COM3
			-7.222	-10.375	-0.304	-1.900	-0.275	-3.294
			22:COM9	22:COM9	22:COM9	22:COM9	30:COM17	26:COM13
	1731	-ve	0.496	0.000	0.290	0.185	0.214	38.100
			28:COM15	-	28:COM15	28:COM15	28:COM15	20:COM7
			-7.222	-11.141	-0.304	-1.900	-0.217	0.000
			22:COM9	22:COM9	22:COM9	22:COM9	22:COM9	-
4087	1644	+ve	17.448	12.957	0.223	1.016	0.051	19.550
			28:COM15	20:COM7	16:COM3	16:COM3	24:COM11	20:COM7
			-33.047	-1.385	-0.044	-0.227	-0.263	-6.177
			22:COM9	30:COM17	26:COM13	26:COM13	18:COM5	30:COM17
	2000	-ve	17.448	8.081	0.223	1.016	0.255	0.094
			28:COM15	20:COM7	16:COM3	16:COM3	16:COM3	28:COM15
			-33.047	-3.997	-0.044	-0.227	-0.051	-4.895
			22:COM9	30:COM17	26:COM13	26:COM13	26:COM13	22:COM9
4088	1926	+ve	8.026	15.297	0.095	0.285	0.149	6.221
			20:COM7	34:CVOL3	24:COM11	20:COM7	16:COM3	28:COM15
			-4.188	0.000	-0.140	-0.153	-0.112	-10.183
			30:COM17	-	18:COM5	30:COM17	26:COM13	22:COM9
	1925	-ve	8.026	13.446	0.095	0.285	0.075	0.000
			20:COM7	34:CVOL3	24:COM11	20:COM7	24:COM11	-
			-4.188	0.000	-0.140	-0.153	-0.129	-31.980
			30:COM17	-	18:COM5	30:COM17	18:COM5	34:CVOL3

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
4089	1925	+ve	9.029	2.026	0.062	0.000	0.034	0.000
			20:COM7	24:COM11	16:COM3	-	24:COM11	-
			-3.313	-1.372	-0.037	-0.629	-0.072	-31.978
			30:COM17	18:COM5	26:COM13	18:COM5	18:COM5	34:CVOL3
	1924	-ve	9.029	1.355	0.062	0.000	0.048	0.000
			20:COM7	24:COM11	16:COM3	-	16:COM3	-
			-3.313	-2.267	-0.037	-0.629	-0.038	-31.475
			30:COM17	18:COM5	26:COM13	18:COM5	26:COM13	34:CVOL3
4090	1924	+ve	9.113	0.545	0.034	0.000	0.014	0.000
			16:COM3	24:COM11	16:COM3	-	24:COM11	-
			-2.687	-4.213	-0.019	-0.794	-0.041	-31.674
			26:COM13	18:COM5	26:COM13	18:COM5	18:COM5	34:CVOL3
	1997	-ve	9.113	0.000	0.034	0.000	0.028	0.000
			16:COM3	-	16:COM3	-	16:COM3	-
			-2.687	-5.141	-0.019	-0.794	-0.024	-24.265
			26:COM13	18:COM5	26:COM13	18:COM5	26:COM13	34:CVOL3
4091	1997	+ve	9.380	0.000	0.043	0.015	0.019	0.000
			16:COM3	-	16:COM3	24:COM11	24:COM11	-
			-2.450	-7.474	-0.028	-0.563	-0.047	-24.499
			26:COM13	18:COM5	26:COM13	18:COM5	18:COM5	34:CVOL3
	1998	-ve	9.380	0.000	0.043	0.015	0.038	1.166
			16:COM3	-	16:COM3	24:COM11	16:COM3	24:COM11
			-2.450	-8.982	-0.028	-0.563	-0.037	-11.936
			26:COM13	34:CVOL3	26:COM13	18:COM5	26:COM13	18:COM5
4092	1998	+ve	9.799	0.000	0.189	0.081	0.032	1.149
			16:COM3	-	16:COM3	33:CVOL2	24:COM11	24:COM11
			-4.031	-11.841	-0.053	-0.204	-0.168	-12.087
			26:COM13	34:CVOL3	26:COM13	32:CVOL1	18:COM5	18:COM5
	1999	-ve	9.799	0.000	0.189	0.081	0.207	20.182
			16:COM3	-	16:COM3	33:CVOL2	16:COM3	16:COM3
			-4.031	-13.691	-0.053	-0.204	-0.071	0.000
			26:COM13	34:CVOL3	26:COM13	32:CVOL1	26:COM13	-
4093	1999	+ve	5.988	0.000	0.217	1.251	0.000	20.083
			24:COM11	-	16:COM3	16:COM3	-	16:COM3
			-9.413	-16.528	0.000	0.000	-0.224	0.000
			18:COM5	34:CVOL3	-	-	18:COM5	-
	1726	-ve	5.988	0.000	0.217	1.251	0.205	50.881
			24:COM11	-	16:COM3	16:COM3	16:COM3	34:CVOL3
			-9.413	-18.379	0.000	0.000	0.000	0.000
			18:COM5	34:CVOL3	-	-	-	-
4094	1913	+ve	7.457	5.706	0.028	0.276	0.048	1.940
			16:COM3	16:COM3	24:COM11	16:COM3	20:COM7	24:COM11
			0.000	0.000	-0.035	-0.302	-0.015	-9.732
			-	-	18:COM5	26:COM13	30:COM17	18:COM5
	1912	-ve	7.457	4.087	0.028	0.276	0.059	0.000
			16:COM3	16:COM3	24:COM11	16:COM3	24:COM11	-
			0.000	0.000	-0.035	-0.302	-0.041	-14.132
			-	-	18:COM5	26:COM13	18:COM5	18:COM5

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
4095	1912	+ve	5.886	2.451	0.084	0.000	0.079	0.000
			20:COM7	16:COM3	16:COM3	-	24:COM11	-
			0.000	-0.657	-0.046	-0.112	-0.095	-14.114
			-	26:COM13	26:COM13	18:COM5	18:COM5	18:COM5
	1953	-ve	5.886	0.935	0.084	0.000	0.072	0.000
			20:COM7	24:COM11	16:COM3	-	16:COM3	-
			0.000	-1.974	-0.046	-0.112	-0.012	-14.224
			-	18:COM5	26:COM13	18:COM5	26:COM13	35:CVOL4
4096	1953	+ve	6.328	0.000	0.104	0.137	0.019	0.000
			20:COM7	-	16:COM3	24:COM11	24:COM11	-
			0.000	-3.200	-0.026	-0.307	-0.080	-14.186
			-	18:COM5	26:COM13	18:COM5	18:COM5	35:CVOL4
	1954	-ve	6.328	0.000	0.104	0.137	0.125	0.000
			20:COM7	-	16:COM3	24:COM11	16:COM3	-
			0.000	-4.819	-0.026	-0.307	-0.032	-8.946
			-	18:COM5	26:COM13	18:COM5	26:COM13	18:COM5
4097	1954	+ve	7.729	0.000	0.061	0.220	0.025	0.000
			20:COM7	-	20:COM7	24:COM11	24:COM11	-
			-3.029	-5.469	-0.008	-0.498	-0.078	-8.815
			30:COM17	34:CVOL3	30:COM17	18:COM5	18:COM5	18:COM5
	1955	-ve	7.729	0.000	0.061	0.220	0.080	7.405
			20:COM7	-	20:COM7	24:COM11	16:COM3	20:COM7
			-3.029	-7.088	-0.008	-0.498	-0.028	-0.413
			30:COM17	34:CVOL3	30:COM17	18:COM5	26:COM13	30:COM17
4098	1955	+ve	10.830	0.000	0.085	0.598	0.155	7.428
			20:COM7	-	28:COM15	24:COM11	20:COM7	20:COM7
			-9.499	-7.056	-0.192	-0.682	-0.056	-0.355
			30:COM17	18:COM5	22:COM9	18:COM5	30:COM17	30:COM17
	1712	-ve	10.830	0.000	0.085	0.598	0.112	20.388
			20:COM7	-	28:COM15	24:COM11	28:COM15	20:COM7
			-9.499	-8.677	-0.192	-0.682	-0.224	0.000
			30:COM17	18:COM5	22:COM9	18:COM5	22:COM9	-
4099	2002	+ve	26.270	73.337	10.978	19.970	0.924	143.476
			16:COM3	20:COM7	16:COM3	24:COM11	24:COM11	20:COM7
			0.000	0.000	-1.289	-44.796	-5.098	0.000
			-	-	26:COM13	18:COM5	18:COM5	-
	1927	-ve	26.270	71.323	10.978	19.970	4.598	79.709
			16:COM3	20:COM7	16:COM3	24:COM11	16:COM3	20:COM7
			0.000	0.000	-1.289	-44.796	-0.230	0.000
			-	-	26:COM13	18:COM5	26:COM13	-
4100	2031	+ve	9.072	40.891	1.706	0.000	1.186	122.836
			16:COM3	16:COM3	20:COM7	-	28:COM15	16:COM3
			-4.175	0.000	-1.454	-5.455	-1.933	-21.877
			26:COM13	-	30:COM17	18:COM5	22:COM9	26:COM13
	2212	-ve	9.072	38.642	1.706	0.000	1.482	45.293
			16:COM3	16:COM3	20:COM7	-	28:COM15	16:COM3
			-4.175	0.000	-1.454	-5.455	-1.738	-33.492
			26:COM13	-	30:COM17	18:COM5	22:COM9	26:COM13

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
4101	2032	+ve	4.063	43.026	0.406	0.699	0.377	130.814
			28:COM15	16:COM3	20:COM7	24:COM17	28:COM15	16:COM3
			-6.678	0.000	-0.308	-6.115	-0.455	-16.198
			22:COM9	-	30:COM17	18:COM5	22:COM9	26:COM13
	2217	-ve	4.063	40.777	0.406	0.699	0.408	49.141
			28:COM15	16:COM3	20:COM7	24:COM17	20:COM7	16:COM3
			-6.678	0.000	-0.308	-6.115	-0.294	-30.248
			22:COM9	-	30:COM17	18:COM5	30:COM17	26:COM13
4102	2033	+ve	3.283	42.788	0.395	0.670	0.277	129.869
			28:COM15	16:COM3	20:COM7	24:COM17	28:COM15	16:COM3
			-10.142	0.000	-0.227	-6.108	-0.365	-16.361
			22:COM9	-	30:COM17	18:COM5	22:COM9	26:COM13
	2222	-ve	3.283	40.539	0.395	0.670	0.481	48.665
			28:COM15	16:COM3	20:COM7	24:COM17	20:COM7	16:COM3
			-10.142	0.000	-0.227	-6.108	-0.241	-30.515
			22:COM9	-	30:COM17	18:COM5	30:COM17	26:COM13
4103	2034	+ve	2.548	42.969	0.211	0.784	0.814	131.251
			28:COM15	16:COM3	28:COM15	24:COM17	20:COM7	16:COM3
			-11.102	0.000	-0.643	-6.056	-0.327	-15.740
			22:COM9	-	22:COM9	18:COM5	30:COM17	26:COM13
	2227	-ve	2.548	40.720	0.211	0.784	0.148	49.667
			28:COM15	16:COM3	28:COM15	24:COM17	24:COM11	16:COM3
			-11.102	0.000	-0.643	-6.056	-0.503	-30.476
			22:COM9	-	22:COM9	18:COM5	18:COM5	26:COM13
4104	2014	+ve	2.871	62.723	5.127	22.112	3.363	168.898
			24:COM17	16:COM3	20:COM7	20:COM7	28:COM15	16:COM3
			-41.257	-12.309	-2.985	-20.702	-5.504	-53.799
			18:COM5	26:COM13	30:COM17	30:COM17	22:COM9	26:COM13
	2155	-ve	2.871	59.723	5.127	22.112	5.613	41.919
			24:COM17	16:COM3	20:COM7	20:COM7	20:COM7	16:COM3
			-41.257	-14.559	-2.985	-20.702	-3.111	-30.411
			18:COM5	26:COM13	30:COM17	30:COM17	30:COM17	26:COM13
4105	2016	+ve	14.077	60.148	2.062	15.658	2.427	139.834
			24:COM17	20:COM7	20:COM7	28:COM15	28:COM15	16:COM3
			-31.743	0.000	-1.832	-31.470	-2.364	-12.152
			18:COM5	-	30:COM17	22:COM9	22:COM9	26:COM13
	2118	-ve	14.077	57.449	2.062	15.658	1.731	40.159
			24:COM17	20:COM7	20:COM7	28:COM15	20:COM7	24:COM17
			-31.743	0.000	-1.832	-31.470	-1.221	-50.141
			18:COM5	-	30:COM17	22:COM9	30:COM17	18:COM5
4106	2017	+ve	14.552	40.097	0.922	14.639	0.625	126.620
			28:COM15	16:COM3	20:COM7	20:COM7	28:COM15	16:COM3
			-13.502	0.000	-0.330	0.000	-1.053	-30.893
			22:COM9	-	30:COM17	-	22:COM9	26:COM13
	2113	-ve	14.552	37.398	0.922	14.639	0.813	51.171
			28:COM15	16:COM3	20:COM7	20:COM7	20:COM7	16:COM3
			-13.502	0.000	-0.330	0.000	-0.088	-33.622
			22:COM9	-	30:COM17	-	30:COM17	26:COM13

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
4107	2018	+ve	15.308	39.978	0.632	14.973	1.441	124.434
			20:COM7	16:COM3	28:COM15	20:COM7	20:COM7	16:COM3
			-9.750	0.000	-0.949	0.000	-0.743	-31.953
			30:COM17	-	22:COM9	-	30:COM17	26:COM13
	2123	-ve	15.308	37.279	0.632	14.973	0.534	49.167
			20:COM7	16:COM3	28:COM15	20:COM7	28:COM15	16:COM3
			-9.750	0.000	-0.949	0.000	-0.455	-34.886
			30:COM17	-	22:COM9	-	22:COM9	26:COM13
4108	2019	+ve	10.552	41.672	0.843	17.949	1.258	133.397
			16:COM3	16:COM3	28:COM15	20:COM7	20:COM7	16:COM3
			-8.333	0.000	-0.722	-2.731	-1.023	-29.972
			26:COM13	-	22:COM9	30:COM17	30:COM17	26:COM13
	2128	-ve	10.552	38.974	0.843	17.949	0.712	54.780
			16:COM3	16:COM3	28:COM15	20:COM7	20:COM7	16:COM3
			-8.333	0.000	-0.722	-2.731	-0.241	-35.051
			26:COM13	-	22:COM9	30:COM17	30:COM17	26:COM13
4110	2014	+ve	0.000	48.105	0.161	1.234	2.328	87.263
			-	28:COM15	24:COM11	24:COM11	16:COM3	20:COM7
			-25.399	-56.910	-1.197	-5.373	-0.394	-80.691
			18:COM5	22:COM9	18:COM5	18:COM5	26:COM13	30:COM17
	2015	-ve	0.000	40.762	0.161	1.234	0.253	151.438
			-	28:COM15	24:COM11	24:COM11	28:COM15	20:COM7
			-25.399	-68.903	-1.197	-5.373	-2.118	-77.073
			18:COM5	22:COM9	18:COM5	18:COM5	22:COM9	30:COM17
4111	2016	+ve	25.882	228.521	2.972	31.859	8.271	210.049
			28:COM15	20:COM7	28:COM15	16:COM3	20:COM7	20:COM7
			-81.413	-199.461	-11.474	-23.314	-2.345	-176.352
			22:COM9	30:COM17	22:COM9	26:COM13	30:COM17	30:COM17
	2054	-ve	25.882	223.881	2.972	31.859	2.420	145.270
			28:COM15	20:COM7	28:COM15	16:COM3	28:COM15	28:COM15
			-81.413	-202.461	-11.474	-23.314	-10.099	-151.957
			22:COM9	30:COM17	22:COM9	26:COM13	22:COM9	22:COM9
4112	2017	+ve	3.868	44.546	0.642	12.957	0.243	26.049
			28:COM15	28:COM15	16:COM3	16:COM3	24:COM11	28:COM15
			-47.453	-61.860	-0.315	-12.896	-0.398	-38.493
			22:COM9	22:COM9	26:COM13	26:COM13	18:COM5	22:COM9
	2055	-ve	3.868	41.823	0.642	12.957	0.707	63.902
			28:COM15	28:COM15	16:COM3	16:COM3	16:COM3	20:COM7
			-47.453	-66.131	-0.315	-12.896	-0.340	-43.049
			22:COM9	22:COM9	26:COM13	26:COM13	26:COM13	30:COM17
4113	2018	+ve	13.789	43.185	0.606	13.748	0.241	25.530
			28:COM15	28:COM15	16:COM3	16:COM3	24:COM11	28:COM15
			-43.720	-58.610	-0.304	-12.160	-0.426	-34.733
			22:COM9	22:COM9	26:COM13	26:COM13	18:COM5	22:COM9
	2056	-ve	13.789	40.462	0.606	13.748	0.566	62.462
			28:COM15	28:COM15	16:COM3	16:COM3	16:COM3	20:COM7
			-43.720	-62.881	-0.304	-12.160	-0.267	-41.390
			22:COM9	22:COM9	26:COM13	26:COM13	26:COM13	30:COM17

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
4114	2019	+ve	0.886	38.947	0.986	14.456	0.251	22.712
			28:COM15	28:COM15	20:COM7	16:COM3	28:COM15	28:COM15
			-52.315	-60.733	-0.391	-12.044	-0.598	-38.590
			22:COM9	22:COM9	30:COM17	26:COM13	22:COM9	22:COM9
	2057	-ve	0.886	36.223	0.986	14.456	0.989	62.006
			28:COM15	28:COM15	20:COM7	16:COM3	20:COM7	20:COM7
			-52.315	-65.004	-0.391	-12.044	-0.382	-37.430
			22:COM9	22:COM9	30:COM17	26:COM13	30:COM17	30:COM17
4115	2020	+ve	0.352	192.811	1.174	25.587	1.149	182.694
			28:COM15	20:COM7	24:COM11	24:COM11	16:COM3	20:COM7
			-67.489	-186.135	-1.379	-28.450	-0.773	-169.311
			22:COM9	30:COM17	18:COM5	18:COM5	26:COM13	30:COM17
	2058	-ve	0.352	188.171	1.174	25.587	1.181	132.372
			28:COM15	20:COM7	24:COM11	24:COM11	28:COM15	20:COM7
			-67.489	-189.135	-1.379	-28.450	-1.132	-123.559
			22:COM9	30:COM17	18:COM5	18:COM5	22:COM9	30:COM17
4116	2040	+ve	10.847	47.947	4.686	0.000	0.000	55.409
			24:COM11	20:COM7	32:CVOL1	-	-	20:COM7
			-39.335	0.000	0.000	-28.115	-5.213	0.000
			18:COM5	-	-	34:CVOL3	32:CVOL1	-
	2042	-ve	10.847	42.292	4.686	0.000	3.990	3.203
			24:COM11	20:COM7	32:CVOL1	-	34:CVOL3	28:COM15
			-39.335	0.000	0.000	-28.115	0.000	-33.145
			18:COM5	-	-	34:CVOL3	-	22:COM9
4117	2003	+ve	32.202	121.620	9.159	6.289	1.551	309.361
			16:COM3	20:COM7	20:COM7	28:COM15	28:COM15	28:COM15
			-15.558	-114.382	-3.691	-33.145	-8.239	-322.087
			26:COM13	30:COM17	30:COM17	22:COM9	22:COM9	22:COM9
	6225	-ve	32.202	115.512	9.159	6.289	10.584	68.359
			16:COM3	20:COM7	20:COM7	28:COM15	20:COM7	28:COM15
			-15.558	-118.409	-3.691	-33.145	-6.047	-85.541
			26:COM13	30:COM17	30:COM17	22:COM9	30:COM17	22:COM9
4118	2036	+ve	10.353	73.666	2.233	11.198	0.187	68.108
			28:COM15	20:COM7	20:COM7	28:COM15	28:COM15	20:COM7
			-71.561	-22.775	-0.083	-15.413	-2.152	-12.678
			22:COM9	30:COM17	30:COM17	22:COM9	22:COM9	30:COM17
	2043	-ve	10.353	68.462	2.233	11.198	2.209	34.975
			28:COM15	20:COM7	20:COM7	28:COM15	20:COM7	28:COM15
			-71.561	-26.094	-0.083	-15.413	0.000	-70.470
			22:COM9	30:COM17	30:COM17	22:COM9	-	22:COM9
4119	2006	+ve	3.846	47.153	0.297	2.601	0.805	117.269
			24:COM11	20:COM7	28:COM15	20:COM7	20:COM7	20:COM7
			-6.293	-12.481	-0.298	-2.426	-0.793	-39.798
			18:COM5	30:COM17	22:COM9	30:COM17	30:COM17	30:COM17
	2005	-ve	3.846	31.663	0.297	2.601	0.934	61.305
			24:COM11	20:COM7	28:COM15	20:COM7	28:COM15	28:COM15
			-6.293	-22.357	-0.298	-2.426	-0.925	-111.433
			18:COM5	30:COM17	22:COM9	30:COM17	22:COM9	22:COM9

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
4120	2037	+ve	9.372	47.379	0.552	16.899	3.976	37.306
			28:COM15	20:COM7	28:COM15	16:COM3	20:COM7	20:COM7
			-81.581	-37.029	-4.273	-5.759	-0.423	-28.238
			22:COM9	30:COM17	22:COM9	26:COM13	30:COM17	30:COM17
	2044	-ve	9.372	42.822	0.552	16.899	0.654	48.428
			28:COM15	28:COM15	28:COM15	16:COM3	28:COM15	20:COM7
			-81.581	-42.166	-4.273	-5.759	-4.356	-50.090
			22:COM9	22:COM9	22:COM9	26:COM13	22:COM9	30:COM17
4121	2038	+ve	2.789	39.430	0.788	9.697	0.346	31.026
			28:COM15	20:COM7	16:COM3	16:COM3	24:COM11	28:COM15
			-81.142	-31.689	-0.405	-8.821	-0.648	-23.829
			22:COM9	30:COM17	26:COM13	26:COM13	18:COM5	22:COM9
	2045	-ve	2.789	35.751	0.788	9.697	0.892	43.476
			28:COM15	28:COM15	16:COM3	16:COM3	16:COM3	20:COM7
			-81.142	-37.703	-0.405	-8.821	-0.446	-41.923
			22:COM9	22:COM9	26:COM13	26:COM13	26:COM13	30:COM17
4122	2039	+ve	22.780	51.745	0.324	8.348	0.338	42.820
			28:COM15	20:COM7	16:COM3	24:COM11	24:COM11	20:COM7
			-85.783	-34.072	-0.379	-9.495	-0.265	-25.690
			22:COM9	30:COM17	26:COM13	18:COM5	18:COM5	30:COM17
	2046	-ve	22.780	46.540	0.324	8.348	0.373	44.007
			28:COM15	20:COM7	16:COM3	24:COM11	16:COM3	28:COM15
			-85.783	-37.390	-0.379	-9.495	-0.408	-53.029
			22:COM9	30:COM17	26:COM13	18:COM5	26:COM13	22:COM9
4123	2023	+ve	32.727	180.945	15.416	14.651	11.880	128.621
			28:COM15	20:COM7	20:COM7	28:COM15	28:COM15	20:COM7
			-78.217	-141.524	-13.673	-36.033	-14.837	-90.708
			22:COM9	30:COM17	30:COM17	22:COM9	22:COM9	30:COM17
	2003	-ve	32.727	175.600	15.416	14.651	12.895	166.890
			28:COM15	20:COM7	20:COM7	28:COM15	20:COM7	28:COM15
			-78.217	-145.048	-13.673	-36.033	-12.722	-191.823
			22:COM9	30:COM17	30:COM17	22:COM9	30:COM17	22:COM9
4124	2024	+ve	0.000	0.000	0.588	15.091	0.657	2.649
			-	-	20:COM7	20:COM7	24:COM11	24:COM17
			-39.798	-35.819	-0.313	-12.950	-0.841	-29.290
			22:COM9	22:COM9	30:COM17	30:COM17	18:COM5	18:COM5
	2004	-ve	0.000	0.000	0.588	15.091	1.280	43.474
			-	-	20:COM7	20:COM7	20:COM7	34:CVOL3
			-39.798	-41.275	-0.313	-12.950	-0.970	0.000
			22:COM9	22:COM9	30:COM17	30:COM17	30:COM17	-
4125	2025	+ve	0.000	0.000	0.364	4.856	0.109	0.000
			-	-	16:COM3	16:COM3	24:COM11	-
			-77.063	-42.588	-0.046	-4.331	-0.207	-32.807
			22:COM9	34:CVOL3	26:COM13	26:COM13	18:COM5	22:COM9
	2008	-ve	0.000	0.000	0.364	4.856	0.522	53.907
			-	-	16:COM3	16:COM3	16:COM3	34:CVOL3
			-77.063	-49.538	-0.046	-4.331	-0.050	0.000
			22:COM9	34:CVOL3	26:COM13	26:COM13	26:COM13	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
4126	2026	+ve	0.000	67.318	0.268	12.820	1.103	45.931
			-	28:COM15	28:COM15	24:COM17	16:COM3	28:COM15
			-65.087	-88.110	-0.776	-19.458	-0.594	-60.415
			18:COM5	22:COM9	22:COM9	18:COM5	26:COM13	22:COM9
	2009	-ve	0.000	64.035	0.268	12.820	0.683	102.854
			-	28:COM15	28:COM15	24:COM17	24:COM11	20:COM7
			-65.087	-93.565	-0.776	-19.458	-1.087	-72.144
			18:COM5	22:COM9	22:COM9	18:COM5	18:COM5	30:COM17
4127	2041	+ve	22.303	15.369	1.580	15.647	1.415	15.272
			28:COM15	20:COM7	24:COM11	24:COM17	24:COM11	20:COM7
			-43.598	-4.254	-1.446	-21.641	-1.711	-4.289
			22:COM9	30:COM17	18:COM5	18:COM5	18:COM5	30:COM17
	2047	-ve	22.303	9.799	1.580	15.647	1.374	7.657
			28:COM15	28:COM15	24:COM11	24:COM17	24:COM11	28:COM15
			-43.598	-7.996	-1.446	-21.641	-1.409	-9.269
			22:COM9	22:COM9	18:COM5	18:COM5	18:COM5	22:COM9
4128	2027	+ve	255.676	369.545	34.328	59.159	29.862	92.376
			28:COM15	20:COM7	24:COM11	16:COM3	24:COM11	20:COM7
			-321.296	-311.763	-34.272	-39.963	-30.217	-73.960
			22:COM9	30:COM17	18:COM5	26:COM13	18:COM5	30:COM17
	2010	-ve	255.676	359.947	34.328	59.159	31.597	491.758
			28:COM15	20:COM7	24:COM11	16:COM3	24:COM11	28:COM15
			-321.296	-318.154	-34.272	-39.963	-31.852	-562.767
			22:COM9	30:COM17	18:COM5	26:COM13	18:COM5	22:COM9
4129	2024	+ve	34.905	53.681	2.015	7.992	1.994	150.218
			16:COM3	20:COM7	20:COM7	16:COM3	28:COM15	20:COM7
			-21.655	-6.160	-2.094	-0.554	-1.999	-51.023
			26:COM13	30:COM17	30:COM17	26:COM13	22:COM9	30:COM17
	2160	-ve	34.905	51.085	2.015	7.992	1.796	53.857
			16:COM3	20:COM7	20:COM7	16:COM3	20:COM7	16:COM3
			-21.655	-8.107	-2.094	-0.554	-1.948	-39.538
			26:COM13	30:COM17	30:COM17	26:COM13	30:COM17	26:COM13
4130	2028	+ve	0.000	20.573	0.871	7.721	0.822	24.393
			-	28:COM15	24:COM11	16:COM3	16:COM3	28:COM15
			-51.501	-62.269	-1.110	-2.334	-0.615	-54.594
			22:COM9	22:COM9	18:COM5	26:COM13	26:COM13	22:COM9
	2367	-ve	0.000	18.059	0.871	7.721	0.988	64.050
			-	28:COM15	24:COM11	16:COM3	24:COM11	20:COM7
			-51.501	-66.725	-1.110	-2.334	-1.220	-11.169
			22:COM9	22:COM9	18:COM5	26:COM13	18:COM5	30:COM17
4131	2005	+ve	10.730	57.835	0.485	10.726	1.537	137.926
			20:COM7	20:COM7	28:COM15	24:COM17	20:COM7	16:COM3
			-0.524	-22.813	-1.120	-9.117	-0.798	-89.503
			30:COM17	30:COM17	22:COM9	18:COM5	30:COM17	26:COM13
	2164	-ve	10.730	55.222	0.485	10.726	0.141	43.204
			20:COM7	20:COM7	28:COM15	24:COM17	28:COM15	24:COM17
			-0.524	-24.772	-1.120	-9.117	-0.601	-56.576
			30:COM17	30:COM17	22:COM9	18:COM5	22:COM9	18:COM5

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
4132	2007	+ve	19.935	32.600	0.703	1.137	0.738	79.808
			20:COM7	20:COM7	16:COM3	28:COM1	16:COM3	20:COM7
			-14.274	-6.380	-0.534	-5.173	-0.842	-30.677
			30:COM1	30:COM1	26:COM1	22:COM9	26:COM1	30:COM1
	2174	-ve	19.935	26.786	0.703	1.137	0.863	10.237
			20:COM7	20:COM7	16:COM3	28:COM1	16:COM3	28:COM1
			-14.274	-9.660	-0.534	-5.173	-0.560	-13.117
			30:COM1	30:COM1	26:COM1	22:COM9	26:COM1	22:COM9
4133	2040	+ve	31.164	38.983	1.427	1.746	0.860	135.228
			20:COM7	34:CVOL	20:COM7	28:COM1	28:COM1	20:COM7
			0.000	0.000	-0.965	-6.340	-1.560	0.000
			-	-	30:COM1	22:COM9	22:COM9	-
	2233	-ve	31.164	36.698	1.427	1.746	1.339	61.958
			20:COM7	34:CVOL	20:COM7	28:COM1	20:COM7	20:COM7
			0.000	0.000	-0.965	-6.340	-1.124	-0.483
			-	-	30:COM1	22:COM9	30:COM1	30:COM1
4134	2036	+ve	11.156	40.138	3.587	8.392	1.293	116.522
			20:COM7	20:COM7	20:COM7	20:COM7	28:COM1	20:COM7
			-6.706	-13.599	-1.005	-3.631	-4.117	-80.166
			30:COM1	30:COM1	30:COM1	30:COM1	22:COM9	30:COM1
	2236	-ve	11.156	37.972	3.587	8.392	2.642	45.789
			20:COM7	20:COM7	20:COM7	20:COM7	20:COM7	28:COM1
			-6.706	-15.224	-1.005	-3.631	-0.615	-55.732
			30:COM1	30:COM1	30:COM1	30:COM1	30:COM1	22:COM9
4135	2006	+ve	17.219	49.828	0.772	13.558	1.250	114.846
			20:COM7	16:COM3	24:COM1	20:COM7	16:COM3	16:COM3
			-6.977	0.000	-1.057	-8.214	-0.843	-13.898
			30:COM1	-	18:COM5	30:COM1	26:COM1	26:COM1
	2168	-ve	17.219	47.734	0.772	13.558	0.560	27.544
			20:COM7	16:COM3	24:COM1	20:COM7	24:COM1	24:COM1
			-6.977	0.000	-1.057	-8.214	-0.670	-27.091
			30:COM1	-	18:COM5	30:COM1	18:COM5	18:COM5
4136	2007	+ve	21.146	51.302	0.908	1.057	0.416	126.692
			16:COM3	20:COM7	16:COM3	28:COM1	24:COM1	20:COM7
			-13.732	-15.835	-0.390	-4.155	-0.810	-48.847
			26:COM1	30:COM1	26:COM1	22:COM9	18:COM5	30:COM1
	2238	-ve	21.146	49.227	0.908	1.057	0.866	36.293
			16:COM3	20:COM7	16:COM3	28:COM1	16:COM3	20:COM7
			-13.732	-17.391	-0.390	-4.155	-0.329	-18.985
			26:COM1	30:COM1	26:COM1	22:COM9	26:COM1	30:COM1
4137	2037	+ve	22.239	44.970	0.530	10.590	1.310	130.869
			16:COM3	16:COM3	24:COM1	34:CVOL	16:COM3	16:COM3
			-8.314	0.000	-0.937	0.000	-0.627	-7.015
			26:COM1	-	18:COM5	-	26:COM1	26:COM1
	2244	-ve	22.239	42.692	0.530	10.590	0.447	44.603
			16:COM3	16:COM3	24:COM1	34:CVOL	28:COM1	16:COM3
			-8.314	0.000	-0.937	0.000	-0.569	-22.412
			26:COM1	-	18:COM5	-	22:COM9	26:COM1

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
4138	2028	+ve	22.698	67.244	1.261	5.712	2.383	203.698
			16:COM3	34:CVOL3	28:COM15	16:COM3	20:COM7	16:COM3
			-8.722	0.000	-2.767	-1.613	-1.453	0.000
			26:COM13	-	22:COM9	26:COM13	30:COM17	-
	2101	-ve	22.698	64.521	1.261	5.712	1.092	78.587
			16:COM3	34:CVOL3	28:COM15	16:COM3	28:COM15	16:COM3
			-8.722	0.000	-2.767	-1.613	-3.124	-24.281
			26:COM13	-	22:COM9	26:COM13	22:COM9	26:COM13
4139	2025	+ve	18.345	66.731	1.237	5.117	0.975	209.635
			16:COM3	34:CVOL3	20:COM7	32:CVOL1	28:COM15	16:COM3
			-2.793	0.000	-1.125	-0.860	-1.442	0.000
			26:COM13	-	30:COM17	30:COM17	22:COM9	-
	2107	-ve	18.345	64.001	1.237	5.117	1.061	84.313
			16:COM3	34:CVOL3	20:COM7	32:CVOL1	28:COM15	16:COM3
			-2.793	0.000	-1.125	-0.860	-1.306	-29.431
			26:COM13	-	30:COM17	30:COM17	22:COM9	26:COM13
4140	2038	+ve	14.703	44.978	1.298	12.665	0.000	141.815
			16:COM3	16:COM3	20:COM7	16:COM3	-	16:COM3
			-3.970	0.000	0.000	0.000	-1.484	-14.181
			26:COM13	-	-	-	22:COM9	26:COM13
	2250	-ve	14.703	42.701	1.298	12.665	1.084	55.299
			16:COM3	16:COM3	20:COM7	16:COM3	20:COM7	16:COM3
			-3.970	0.000	0.000	0.000	0.000	-25.678
			26:COM13	-	-	-	-	26:COM13
4141	2026	+ve	102.767	153.668	3.851	10.644	3.100	376.229
			16:COM3	16:COM3	20:COM7	28:COM15	28:COM15	16:COM3
			-72.376	-134.018	-3.379	-13.226	-3.898	-351.820
			26:COM13	26:COM13	30:COM17	22:COM9	22:COM9	26:COM13
	2150	-ve	102.767	150.252	3.851	10.644	3.724	76.610
			16:COM3	16:COM3	20:COM7	28:COM15	20:COM7	24:COM17
			-72.376	-136.580	-3.379	-13.226	-3.591	-85.105
			26:COM13	26:COM13	30:COM17	22:COM9	30:COM17	18:COM5
4142	2012	+ve	13.975	19.836	12.473	8.249	2.467	26.219
			24:COM17	16:COM3	20:COM7	16:COM3	28:COM15	16:COM3
			-48.697	-12.917	-6.725	-7.452	-3.970	-21.863
			18:COM5	26:COM13	30:COM17	26:COM13	22:COM9	26:COM13
	2152	-ve	13.975	18.643	12.473	8.249	4.734	13.008
			24:COM17	16:COM3	20:COM7	16:COM3	20:COM7	16:COM3
			-48.697	-13.812	-6.725	-7.452	-2.273	-12.702
			18:COM5	26:COM13	30:COM17	26:COM13	30:COM17	26:COM13
4143	2009	+ve	18.810	63.385	2.152	22.632	4.255	168.028
			20:COM7	20:COM7	24:COM11	16:COM3	16:COM3	20:COM7
			-14.054	-45.505	-2.754	-9.876	-3.357	-160.532
			30:COM17	30:COM17	18:COM5	26:COM13	26:COM13	30:COM17
	2096	-ve	18.810	59.435	2.152	22.632	2.792	5.514
			20:COM7	20:COM7	24:COM11	16:COM3	24:COM11	28:COM15
			-14.054	-48.467	-2.754	-9.876	-3.610	-39.188
			30:COM17	30:COM17	18:COM5	26:COM13	18:COM5	22:COM9

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
4144	2013	+ve	16.433	91.125	7.371	4.316	5.955	94.749
			28:COM15	16:COM3	16:COM3	24:COM11	24:COM11	16:COM3
			-38.807	-78.168	-6.669	-5.744	-6.730	-71.459
			22:COM9	26:COM13	26:COM13	18:COM5	18:COM5	26:COM13
	2027	-ve	16.433	87.739	7.371	4.316	7.708	85.753
			28:COM15	16:COM3	16:COM3	24:COM11	16:COM3	16:COM3
			-38.807	-80.708	-6.669	-5.744	-7.110	-82.028
			22:COM9	26:COM13	26:COM13	18:COM5	26:COM13	26:COM13
4145	2012	+ve	6.803	23.166	0.318	7.189	0.532	18.619
			24:COM11	28:COM15	24:COM11	20:COM7	16:COM3	28:COM15
			-25.681	-26.268	-0.380	-6.051	-0.440	-21.056
			18:COM5	22:COM9	18:COM5	30:COM17	26:COM13	22:COM9
	2011	-ve	6.803	21.609	0.318	7.189	0.341	40.393
			24:COM11	28:COM15	24:COM11	20:COM7	24:COM11	20:COM7
			-25.681	-28.344	-0.380	-6.051	-0.389	-31.762
			18:COM5	22:COM9	18:COM5	30:COM17	18:COM5	30:COM17
4148	2011	+ve	11.327	51.829	0.677	3.905	0.810	127.905
			16:COM3	20:COM7	24:COM11	28:COM15	16:COM3	16:COM3
			-4.537	-36.708	-0.772	-5.016	-0.708	-109.115
			26:COM13	30:COM17	18:COM5	22:COM9	26:COM13	26:COM13
	2163	-ve	11.327	49.532	0.677	3.905	0.985	7.182
			16:COM3	20:COM7	24:COM11	28:COM15	24:COM11	24:COM11
			-4.537	-38.431	-0.772	-5.016	-1.121	-21.038
			26:COM13	30:COM17	18:COM5	22:COM9	18:COM5	18:COM5
4149	2023	+ve	16.167	54.128	2.574	8.773	3.721	94.765
			28:COM15	16:COM3	24:COM11	16:COM3	16:COM3	20:COM7
			-34.138	-44.068	-3.512	-0.043	-3.031	-57.989
			22:COM9	26:COM13	18:COM5	26:COM13	26:COM13	30:COM17
	2133	-ve	16.167	50.605	2.574	8.773	3.106	53.527
			28:COM15	16:COM3	24:COM11	16:COM3	28:COM15	16:COM3
			-34.138	-46.710	-3.512	-0.043	-4.326	-30.959
			22:COM9	26:COM13	18:COM5	26:COM13	22:COM9	26:COM13
4150	2029	+ve	50.888	48.890	0.929	6.529	1.286	35.694
			28:COM15	28:COM15	28:COM15	16:COM3	20:COM7	28:COM15
			-68.868	-67.610	-1.481	0.000	-0.298	-44.942
			22:COM9	22:COM9	22:COM9	-	30:COM17	22:COM9
	2135	-ve	50.888	46.218	0.929	6.529	1.700	98.000
			28:COM15	28:COM15	28:COM15	16:COM3	28:COM15	20:COM7
			-68.868	-71.173	-1.481	0.000	-1.848	-62.271
			22:COM9	22:COM9	22:COM9	-	22:COM9	30:COM17
4151	2134	+ve	46.417	114.655	4.817	9.749	1.742	174.508
			20:COM7	20:COM7	20:COM7	20:COM7	28:COM15	28:COM15
			-35.065	-70.269	-2.084	-10.659	-5.092	-172.944
			30:COM17	30:COM17	30:COM17	30:COM17	22:COM9	22:COM9
	2137	-ve	46.417	111.217	4.817	9.749	4.482	0.000
			20:COM7	20:COM7	20:COM7	20:COM7	20:COM7	-
			-35.065	-72.847	-2.084	-10.659	-2.402	-57.564
			30:COM17	30:COM17	30:COM17	30:COM17	30:COM17	34:CVOL3

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
4153	2039	+ve	14.240	36.653	2.552	5.816	0.934	103.890
			20:COM7	16:COM3	16:COM3	16:COM3	24:COM11	16:COM3
			-3.882	0.000	-1.692	-3.625	-1.806	-4.385
			30:COM17	-	26:COM13	26:COM13	18:COM5	26:COM13
	2256	-ve	14.240	34.379	2.552	5.816	3.357	33.868
			20:COM7	16:COM3	16:COM3	16:COM3	16:COM3	16:COM3
			-3.882	0.000	-1.692	-3.625	-2.534	-11.638
			30:COM17	-	26:COM13	26:COM13	26:COM13	26:COM13
4154	2035	+ve	5.869	38.957	0.541	2.257	1.040	113.331
			20:COM7	16:COM3	28:COM15	28:COM15	20:COM7	16:COM3
			-4.338	0.000	-1.037	-5.576	-0.459	-39.308
			30:COM17	-	22:COM9	22:COM9	30:COM17	26:COM13
	6247	-ve	5.869	36.577	0.541	2.257	0.660	35.834
			20:COM7	16:COM3	28:COM15	28:COM15	28:COM15	24:COM11
			-4.338	-1.547	-1.037	-5.576	-1.103	-38.418
			30:COM17	26:COM13	22:COM9	22:COM9	22:COM9	18:COM5
4155	6222	+ve	2.019	27.876	0.590	0.000	1.023	66.115
			28:COM15	16:COM3	28:COM15	-	20:COM7	16:COM3
			-5.309	-2.438	-0.945	-14.506	-0.713	-6.303
			22:COM9	26:COM13	22:COM9	18:COM5	30:COM17	26:COM13
	6224	-ve	2.019	25.378	0.590	0.000	0.566	9.446
			28:COM15	16:COM3	28:COM15	-	28:COM15	34:CVOL3
			-5.309	-4.312	-0.945	-14.506	-1.025	0.000
			22:COM9	26:COM13	22:COM9	18:COM5	22:COM9	-
4157	2042	+ve	0.000	25.346	0.000	0.939	1.760	28.551
			-	20:COM7	-	20:COM7	34:CVOL3	20:COM7
			-47.092	-3.508	-0.671	-0.847	0.000	-3.921
			18:COM5	30:COM17	22:COM9	30:COM17	-	30:COM17
	2048	-ve	0.000	18.097	0.000	0.939	1.001	10.850
			-	20:COM7	-	20:COM7	20:COM7	28:COM15
			-47.092	-8.196	-0.671	-0.847	-0.475	-25.895
			18:COM5	30:COM17	22:COM9	30:COM17	30:COM17	22:COM9
4158	2043	+ve	31.663	68.821	0.508	0.928	0.000	84.860
			16:COM3	28:COM15	20:COM7	16:COM3	-	28:COM15
			0.000	-77.728	-0.143	-0.669	-0.789	-96.119
			-	22:COM9	30:COM17	26:COM13	18:COM5	22:COM9
	2049	-ve	31.663	64.566	0.508	0.928	0.936	106.544
			16:COM3	28:COM15	20:COM7	16:COM3	20:COM7	20:COM7
			0.000	-84.401	-0.143	-0.669	-0.837	-81.876
			-	22:COM9	30:COM17	26:COM13	30:COM17	30:COM17
4159	2044	+ve	24.454	77.590	0.115	2.185	0.897	94.412
			20:COM7	20:COM7	28:COM15	16:COM3	20:COM7	20:COM7
			0.000	-77.039	-0.390	-1.587	-0.183	-98.985
			-	30:COM17	22:COM9	26:COM13	30:COM17	30:COM17
	2050	-ve	24.454	71.689	0.115	2.185	0.447	100.102
			20:COM7	28:COM15	28:COM15	16:COM3	16:COM3	20:COM7
			0.000	-83.566	-0.390	-1.587	-0.420	-90.518
			-	22:COM9	22:COM9	26:COM13	26:COM13	30:COM17

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
4160	2045	+ve	28.920	68.234	0.179	1.541	0.278	81.556
			34:CVOL3	20:COM7	24:COM11	24:COM11	24:COM11	20:COM7
			0.000	-64.460	-0.164	-1.787	-0.460	-82.007
			-	30:COM17	18:COM5	18:COM5	18:COM5	30:COM17
	2051	-ve	28.920	61.835	0.179	1.541	0.084	85.025
			34:CVOL3	28:COM15	24:COM11	24:COM11	28:COM15	20:COM7
			0.000	-70.488	-0.164	-1.787	-0.228	-79.377
			-	22:COM9	18:COM5	18:COM5	22:COM9	30:COM17
4161	2046	+ve	35.283	66.539	0.457	0.161	0.193	81.788
			20:COM7	28:COM15	16:COM3	24:COM11	24:COM11	28:COM15
			0.000	-70.871	-0.401	-1.765	-0.176	-91.855
			-	22:COM9	26:COM13	18:COM5	18:COM5	22:COM9
	2052	-ve	35.283	62.284	0.457	0.161	1.126	93.684
			20:COM7	28:COM15	16:COM3	24:COM11	16:COM3	20:COM7
			0.000	-77.544	-0.401	-1.765	-0.968	-79.261
			-	22:COM9	26:COM13	18:COM5	26:COM13	30:COM17
4162	2047	+ve	5.828	13.913	0.375	0.539	0.230	12.815
			24:COM11	20:COM7	20:COM7	28:COM15	16:COM3	20:COM7
			-36.559	-5.537	-0.300	-1.078	-0.173	-7.036
			18:COM5	30:COM17	30:COM17	22:COM9	26:COM13	30:COM17
	2053	-ve	5.828	7.527	0.375	0.539	0.905	12.770
			24:COM11	28:COM15	20:COM7	28:COM15	20:COM7	20:COM7
			-36.559	-11.089	-0.300	-1.078	-0.659	-13.008
			18:COM5	22:COM9	30:COM17	22:COM9	30:COM17	30:COM17
4163	2048	+ve	0.000	65.281	7.866	20.878	5.726	38.207
			-	20:COM7	16:COM3	20:COM7	24:COM11	20:COM7
			-38.950	-40.467	-6.460	-11.949	-6.242	-21.988
			22:COM9	30:COM17	26:COM13	30:COM17	18:COM5	30:COM17
	2023	-ve	0.000	60.496	7.866	20.878	6.808	47.350
			-	20:COM7	16:COM3	20:COM7	16:COM3	28:COM15
			-38.950	-43.560	-6.460	-11.949	-5.005	-65.574
			22:COM9	30:COM17	26:COM13	30:COM17	26:COM13	22:COM9
4164	2049	+ve	0.000	38.510	0.653	15.485	0.856	47.223
			-	28:COM15	28:COM15	28:COM15	16:COM3	20:COM7
			-34.111	-37.233	-1.246	-17.254	-0.398	-39.796
			18:COM5	22:COM9	22:COM9	22:COM9	26:COM13	30:COM17
	2024	-ve	0.000	35.701	0.653	15.485	1.441	27.562
			-	28:COM15	28:COM15	28:COM15	28:COM15	16:COM3
			-34.111	-41.637	-1.246	-17.254	-1.961	-16.291
			18:COM5	22:COM9	22:COM9	22:COM9	22:COM9	26:COM13
4165	2050	+ve	0.000	58.266	2.106	3.534	1.659	56.890
			-	28:COM15	16:COM3	24:COM11	24:COM11	28:COM15
			-54.076	-62.895	-1.986	-9.983	-1.770	-55.752
			22:COM9	22:COM9	26:COM13	18:COM5	18:COM5	22:COM9
	2028	-ve	0.000	55.458	2.106	3.534	1.709	52.532
			-	28:COM15	16:COM3	24:COM11	16:COM3	20:COM7
			-54.076	-68.289	-1.986	-9.983	-1.621	-36.990
			22:COM9	22:COM9	26:COM13	18:COM5	26:COM13	30:COM17

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
4166	2051	+ve	0.000	33.652	0.028	5.182	0.768	39.502
			-	28:COM15	24:COM11	24:COM11	16:COM3	28:COM15
			-57.468	-39.465	-0.856	-6.095	0.000	-39.522
			22:COM9	22:COM9	18:COM5	18:COM5	-	22:COM9
	2025	-ve	0.000	30.844	0.028	5.182	0.172	30.046
			-	28:COM15	24:COM11	24:COM11	24:COM11	20:COM7
			-57.468	-44.859	-0.856	-6.095	-0.736	-13.709
			22:COM9	22:COM9	18:COM5	18:COM5	18:COM5	30:COM17
4167	2052	+ve	0.000	61.104	1.229	22.644	0.289	58.967
			-	20:COM7	16:COM3	16:COM3	24:COM11	20:COM7
			-53.183	-53.502	-0.369	-15.265	-0.973	-48.256
			18:COM5	30:COM17	26:COM13	26:COM13	18:COM5	30:COM17
	2026	-ve	0.000	56.700	1.229	22.644	1.610	43.754
			-	20:COM7	16:COM3	16:COM3	16:COM3	20:COM7
			-53.183	-56.310	-0.369	-15.265	-0.874	-39.638
			18:COM5	30:COM17	26:COM13	26:COM13	26:COM13	30:COM17
4168	2053	+ve	36.120	50.376	14.962	11.521	12.490	27.475
			28:COM15	20:COM7	24:COM11	24:COM11	16:COM3	20:COM7
			-69.963	-45.584	-15.967	-15.429	-12.115	-26.195
			22:COM9	30:COM17	18:COM5	18:COM5	26:COM13	30:COM17
	2027	-ve	36.120	46.248	14.962	11.521	12.586	51.579
			28:COM15	28:COM15	24:COM11	24:COM11	24:COM11	28:COM15
			-69.963	-49.335	-15.967	-15.429	-13.869	-51.706
			22:COM9	22:COM9	18:COM5	18:COM5	18:COM5	22:COM9
4169	2054	+ve	48.190	75.499	0.310	1.595	1.341	117.156
			20:COM7	20:COM7	20:COM7	28:COM15	20:COM7	20:COM7
			-7.898	-63.819	-0.155	-2.554	-0.474	-102.439
			30:COM17	30:COM17	30:COM17	22:COM9	30:COM17	30:COM17
	2059	-ve	48.190	66.710	0.310	1.595	1.160	126.179
			20:COM7	28:COM15	20:COM7	28:COM15	16:COM3	20:COM7
			-7.898	-71.264	-0.155	-2.554	0.000	-123.576
			30:COM17	22:COM9	30:COM17	22:COM9	-	30:COM17
4170	2055	+ve	20.924	61.867	0.009	0.658	0.074	100.611
			20:COM7	20:COM7	28:COM15	24:COM11	16:COM3	20:COM7
			0.000	-41.883	-0.080	-0.778	-0.037	-73.072
			-	30:COM17	22:COM9	18:COM5	26:COM13	30:COM17
	2060	-ve	20.924	52.791	0.009	0.658	0.025	79.167
			20:COM7	20:COM7	28:COM15	24:COM11	24:COM11	28:COM15
			0.000	-47.669	-0.080	-0.778	-0.230	-94.308
			-	30:COM17	22:COM9	18:COM5	18:COM5	22:COM9
4171	2056	+ve	23.290	61.941	0.021	0.636	0.054	100.975
			20:COM7	20:COM7	28:COM15	28:COM15	24:COM11	20:COM7
			0.000	-41.357	-0.036	-0.911	-0.074	-72.312
			-	30:COM17	22:COM9	22:COM9	18:COM5	30:COM17
	2061	-ve	23.290	52.866	0.021	0.636	0.047	78.137
			20:COM7	20:COM7	28:COM15	28:COM15	24:COM11	28:COM15
			0.000	-47.143	-0.036	-0.911	-0.120	-94.196
			-	30:COM17	22:COM9	22:COM9	18:COM5	22:COM9

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
4172	2057	+ve	23.138	57.960	0.042	0.816	0.073	93.949
			20:COM7	20:COM7	20:COM7	28:COM15	28:COM15	20:COM7
			0.000	-35.347	-0.038	-1.151	-0.173	-62.009
			-	30:COM17	30:COM17	22:COM9	22:COM9	30:COM17
	2062	-ve	23.138	48.885	0.042	0.816	0.038	68.008
			20:COM7	20:COM7	20:COM7	28:COM15	24:COM11	28:COM15
			0.000	-41.134	-0.038	-1.151	-0.124	-87.688
			-	30:COM17	30:COM17	22:COM9	18:COM5	22:COM9
4173	2058	+ve	37.354	59.989	0.183	2.470	0.452	91.106
			20:COM7	20:COM7	16:COM3	20:COM7	16:COM3	20:COM7
			-2.103	-43.779	-0.115	-1.376	-0.356	-69.917
			30:COM17	30:COM17	26:COM13	30:COM17	26:COM13	30:COM17
	2063	-ve	37.354	50.162	0.183	2.470	0.424	89.808
			20:COM7	28:COM15	16:COM3	20:COM7	16:COM3	28:COM15
			-2.103	-50.186	-0.115	-1.376	-0.095	-96.136
			30:COM17	22:COM9	26:COM13	30:COM17	26:COM13	22:COM9
4174	2059	+ve	3.258	56.473	7.181	12.828	0.000	68.504
			28:COM15	28:COM15	16:COM3	24:COM17	-	28:COM15
			-77.306	-87.037	0.000	-16.570	-6.926	-86.510
			22:COM9	22:COM9	-	18:COM5	18:COM5	22:COM9
	2031	-ve	3.258	53.192	7.181	12.828	5.647	70.260
			28:COM15	28:COM15	16:COM3	24:COM17	16:COM3	20:COM7
			-77.306	-92.112	0.000	-16.570	0.000	-27.468
			22:COM9	22:COM9	-	18:COM5	-	30:COM17
4175	2060	+ve	0.000	28.474	0.102	10.694	0.705	36.753
			-	28:COM15	24:COM11	24:COM17	16:COM3	28:COM15
			-48.154	-61.971	-0.773	-11.610	-0.092	-61.106
			22:COM9	22:COM9	18:COM5	18:COM5	26:COM13	22:COM9
	2032	-ve	0.000	25.495	0.102	10.694	0.096	51.435
			-	28:COM15	24:COM11	24:COM17	24:COM11	20:COM7
			-48.154	-66.642	-0.773	-11.610	-0.659	-10.476
			22:COM9	22:COM9	18:COM5	18:COM5	18:COM5	30:COM17
4176	2061	+ve	0.000	28.467	0.287	10.486	0.545	36.546
			-	28:COM15	24:COM11	24:COM17	16:COM3	28:COM15
			-49.880	-62.262	-0.540	-11.481	-0.282	-60.849
			22:COM9	22:COM9	18:COM5	18:COM5	26:COM13	22:COM9
	2033	-ve	0.000	25.488	0.287	10.486	0.222	52.199
			-	28:COM15	24:COM11	24:COM17	24:COM11	20:COM7
			-49.880	-66.933	-0.540	-11.481	-0.402	-10.667
			22:COM9	22:COM9	18:COM5	18:COM5	18:COM5	30:COM17
4177	2062	+ve	0.000	24.050	0.291	10.547	0.748	31.710
			-	28:COM15	24:COM11	24:COM17	16:COM3	28:COM15
			-52.535	-60.356	-0.680	-11.572	-0.272	-59.045
			22:COM9	22:COM9	18:COM5	18:COM5	26:COM13	22:COM9
	2034	-ve	0.000	21.071	0.291	10.547	0.245	50.668
			-	28:COM15	24:COM11	24:COM17	24:COM11	20:COM7
			-52.535	-65.027	-0.680	-11.572	-0.450	-7.773
			22:COM9	22:COM9	18:COM5	18:COM5	18:COM5	30:COM17

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
4178	2063	+ve	6.957	40.947	1.751	17.338	0.000	51.088
			28:COM1	28:COM1	16:COM3	16:COM3	-	28:COM1
			-75.329	-74.198	0.000	-15.602	-1.973	-73.073
			22:COM9	22:COM9	-	26:COM1	18:COM5	22:COM9
	2035	-ve	6.957	37.666	1.751	17.338	1.128	61.226
			28:COM1	28:COM1	16:COM3	16:COM3	16:COM3	20:COM7
			-75.329	-79.273	0.000	-15.602	0.000	-17.710
			22:COM9	22:COM9	-	26:COM1	-	30:COM1
4179	2078	+ve	0.000	1.129	0.196	0.163	0.000	0.000
			-	32:CVOL1	20:COM7	28:COM1	-	-
			-4.569	-0.592	0.000	-1.112	-0.282	-2.640
			34:CVOL3	35:CVOL4	-	22:COM9	34:CVOL3	22:COM9
	2080	-ve	0.000	0.000	0.196	0.163	0.330	6.942
			-	-	20:COM7	28:COM1	20:COM7	20:COM7
			-4.569	-6.583	0.000	-1.112	0.000	0.000
			34:CVOL3	32:CVOL1	-	22:COM9	-	-
4180	2078	+ve	1.677	0.592	5.702	2.257	0.000	0.140
			32:CVOL1	35:CVOL4	32:CVOL1	20:COM7	-	28:COM1
			0.000	-1.129	0.000	0.000	-0.321	-1.765
			-	32:CVOL1	-	-	22:COM9	22:COM9
	2348	-ve	1.677	0.397	5.702	2.257	0.891	0.086
			32:CVOL1	35:CVOL4	32:CVOL1	20:COM7	32:CVOL1	28:COM1
			0.000	-1.356	0.000	0.000	0.000	-1.600
			-	32:CVOL1	-	-	-	22:COM9
4181	2073	+ve	1.418	13.064	0.000	0.859	0.242	50.534
			28:COM1	20:COM7	-	20:COM7	34:CVOL3	20:COM7
			-21.130	0.000	-0.215	0.000	0.000	0.000
			22:COM9	-	34:CVOL3	-	-	-
	2307	-ve	1.418	11.173	0.000	0.859	0.000	26.491
			28:COM1	20:COM7	-	20:COM7	-	20:COM7
			-21.130	0.000	-0.215	0.000	-0.186	0.000
			22:COM9	-	34:CVOL3	-	34:CVOL3	-
4182	2072	+ve	2.852	7.151	0.131	1.170	0.000	21.836
			28:COM1	20:COM7	16:COM3	20:COM7	-	20:COM7
			-4.844	0.000	0.000	0.000	-0.134	-8.850
			22:COM9	-	-	-	22:COM9	30:COM1
	2313	-ve	2.852	5.358	0.131	1.170	0.120	10.330
			28:COM1	20:COM7	16:COM3	20:COM7	16:COM3	20:COM7
			-4.844	-1.238	0.000	0.000	0.000	-8.046
			22:COM9	30:COM1	-	-	-	30:COM1
4183	2073	+ve	18.126	0.000	0.000	4.430	9.321	0.000
			20:COM7	-	-	24:COM1	34:CVOL3	-
			-0.496	-24.142	-5.537	-5.486	0.000	-1.117
			30:COM1	22:COM9	34:CVOL3	18:COM5	-	22:COM9
	2040	-ve	18.126	0.000	0.000	4.430	0.000	86.368
			20:COM7	-	-	24:COM1	-	20:COM7
			-0.496	-32.999	-5.537	-5.486	-7.588	0.000
			30:COM1	22:COM9	34:CVOL3	18:COM5	34:CVOL3	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
4184	2072	+ve	5.921	0.000	0.720	6.932	0.240	0.000
			20:COM7	-	20:COM7	28:COM15	28:COM15	-
			0.000	-18.585	-0.251	-16.419	-0.832	-1.763
			-	22:COM9	30:COM17	22:COM9	22:COM9	22:COM9
	2036	-ve	5.921	0.000	0.720	6.932	1.368	67.449
			20:COM7	-	20:COM7	28:COM15	20:COM7	20:COM7
			0.000	-26.737	-0.251	-16.419	-0.527	0.000
			-	22:COM9	30:COM17	22:COM9	30:COM17	-
4185	2071	+ve	4.331	0.000	0.638	10.312	1.442	0.000
			28:COM15	-	28:COM15	28:COM15	20:COM7	-
			-5.967	-9.083	-0.895	-11.908	-1.025	-0.832
			22:COM9	34:CVOL3	22:COM9	22:COM9	30:COM17	22:COM9
	2006	-ve	4.331	0.000	0.638	10.312	0.923	40.512
			28:COM15	-	28:COM15	28:COM15	28:COM15	34:CVOL3
			-5.967	-17.968	-0.895	-11.908	-1.293	0.000
			22:COM9	34:CVOL3	22:COM9	22:COM9	22:COM9	-
4186	2080	+ve	2.958	5.804	0.016	0.000	0.000	6.975
			28:COM15	32:CVOL1	20:COM7	-	-	28:COM15
			-9.520	-0.028	0.000	-1.376	-0.057	-22.070
			22:COM9	30:COM17	-	22:COM9	32:CVOL1	22:COM9
	2081	-ve	2.958	0.000	0.016	0.000	0.053	20.538
			28:COM15	-	20:COM7	-	20:COM7	32:CVOL1
			-9.520	-15.009	0.000	-1.376	-0.001	0.000
			22:COM9	32:CVOL1	-	22:COM9	30:COM17	-
4187	2040	+ve	160.357	79.546	0.536	14.622	6.810	331.731
			34:CVOL3	34:CVOL3	28:COM15	20:COM7	20:COM7	34:CVOL3
			0.000	0.000	-5.451	0.000	0.000	0.000
			-	-	22:COM9	-	-	-
	2264	-ve	160.357	76.721	0.536	14.622	1.632	204.148
			34:CVOL3	34:CVOL3	28:COM15	20:COM7	20:COM7	34:CVOL3
			0.000	0.000	-5.451	0.000	-2.117	0.000
			-	-	22:COM9	-	30:COM17	-
4188	2081	+ve	9.225	1.642	0.000	2.324	0.321	21.649
			28:COM15	28:COM15	-	20:COM7	34:CVOL3	20:COM7
			-13.552	-4.011	-0.500	-0.560	0.000	-1.721
			22:COM9	22:COM9	34:CVOL3	30:COM17	-	30:COM17
	2083	-ve	9.225	0.000	0.000	2.324	0.000	22.002
			28:COM15	-	-	20:COM7	-	20:COM7
			-13.552	-7.172	-0.500	-0.560	-0.315	0.000
			22:COM9	22:COM9	34:CVOL3	30:COM17	18:COM5	-
4189	2083	+ve	0.000	0.000	0.752	3.559	0.877	0.069
			-	-	28:COM15	28:COM15	28:COM15	28:COM15
			-5.219	-13.085	-0.804	-1.762	-0.967	-1.763
			22:COM9	22:COM9	22:COM9	22:COM9	22:COM9	22:COM9
	2355	-ve	0.000	0.000	0.752	3.559	0.990	37.986
			-	-	28:COM15	28:COM15	28:COM15	20:COM7
			-5.219	-16.715	-0.804	-1.762	-1.216	0.000
			22:COM9	32:CVOL1	22:COM9	22:COM9	22:COM9	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
4192	2083	+ve	8.646	8.015	0.002	0.046	0.011	19.740
			20:COM7	34:CVOL3	24:COM11	24:COM11	24:COM11	34:CVOL3
			-6.863	0.000	-0.004	-0.592	-0.016	0.000
			30:COM17	-	18:COM5	18:COM5	18:COM5	-
	6221	-ve	8.646	0.000	0.002	0.046	0.006	24.587
			20:COM7	-	24:COM11	24:COM11	28:COM15	16:COM3
			-6.863	-7.873	-0.004	-0.592	-0.020	0.000
			30:COM17	34:CVOL3	18:COM5	18:COM5	22:COM9	-
4193	2015	+ve	12.758	65.346	0.375	33.719	1.557	142.084
			20:COM7	16:COM3	24:COM11	16:COM3	16:COM3	16:COM3
			-10.400	0.000	-0.980	-15.163	-0.570	0.000
			30:COM17	-	18:COM5	26:COM13	26:COM13	-
	6222	-ve	12.758	55.934	0.375	33.719	0.515	0.000
			20:COM7	16:COM3	24:COM11	16:COM3	24:COM11	-
			-10.400	0.000	-0.980	-15.163	-1.270	-32.571
			30:COM17	-	18:COM5	26:COM13	18:COM5	18:COM5
4194	2031	+ve	7.502	22.000	1.177	14.630	0.000	44.785
			20:COM7	20:COM7	16:COM3	16:COM3	-	20:COM7
			-4.882	0.000	0.000	-12.910	-1.877	0.000
			30:COM17	-	-	26:COM13	18:COM5	-
	2064	-ve	7.502	14.895	1.177	14.630	1.020	0.000
			20:COM7	20:COM7	16:COM3	16:COM3	16:COM3	-
			-4.882	0.000	0.000	-12.910	0.000	-0.634
			30:COM17	-	-	26:COM13	-	18:COM5
4195	2032	+ve	1.773	21.638	0.034	12.231	0.109	43.049
			20:COM7	35:CVOL4	28:COM15	24:COM11	20:COM7	35:CVOL4
			-0.177	0.000	-0.093	-13.114	-0.087	0.000
			30:COM17	-	22:COM9	18:COM5	30:COM17	-
	2065	-ve	1.773	14.559	0.034	12.231	0.014	0.000
			20:COM7	33:CVOL2	28:COM15	24:COM11	28:COM15	-
			-0.177	0.000	-0.093	-13.114	-0.136	-1.239
			30:COM17	-	22:COM9	18:COM5	22:COM9	34:CVOL3
4196	2033	+ve	1.322	21.505	0.043	11.845	0.056	42.782
			20:COM7	35:CVOL4	24:COM11	24:COM11	24:COM11	20:COM7
			-0.224	0.000	-0.048	-12.915	-0.069	0.000
			30:COM17	-	18:COM5	18:COM5	18:COM5	-
	2066	-ve	1.322	14.603	0.043	11.845	0.041	0.000
			20:COM7	20:COM7	24:COM11	24:COM11	24:COM11	-
			-0.224	0.000	-0.048	-12.915	-0.067	-1.216
			30:COM17	-	18:COM5	18:COM5	18:COM5	34:CVOL3
4197	2034	+ve	2.358	21.694	0.020	11.835	0.091	43.209
			20:COM7	35:CVOL4	24:COM11	24:COM11	16:COM3	35:CVOL4
			-0.409	0.000	-0.045	-13.092	-0.051	0.000
			30:COM17	-	18:COM5	18:COM5	26:COM13	-
	2067	-ve	2.358	14.577	0.020	11.835	0.021	0.000
			20:COM7	33:CVOL2	24:COM11	24:COM11	28:COM15	-
			-0.409	0.000	-0.045	-13.092	-0.043	-1.212
			30:COM17	-	18:COM5	18:COM5	22:COM9	34:CVOL3

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
4198	2035	+ve	2.817	21.981	0.340	18.239	0.040	44.224
			20:COM7	20:COM7	16:COM3	16:COM3	24:COM11	20:COM7
			-1.135	0.000	-0.006	-16.242	-0.371	0.000
			30:COM17	-	26:COM13	26:COM13	18:COM5	-
	2068	-ve	2.817	14.876	0.340	18.239	0.468	0.000
			20:COM7	20:COM7	16:COM3	16:COM3	16:COM3	-
			-1.135	0.000	-0.006	-16.242	0.000	-1.076
			30:COM17	-	26:COM13	26:COM13	-	18:COM5
4199	2022	+ve	22.780	35.976	1.425	30.368	2.555	75.151
			20:COM7	16:COM3	20:COM7	16:COM3	24:COM11	16:COM3
			-11.234	0.000	-1.401	-14.697	-2.849	0.000
			30:COM17	-	30:COM17	26:COM13	18:COM5	-
	2070	-ve	22.780	19.945	1.425	30.368	4.864	0.000
			20:COM7	16:COM3	20:COM7	16:COM3	28:COM15	-
			-11.234	0.000	-1.401	-14.697	-5.086	-11.621
			30:COM17	-	30:COM17	26:COM13	22:COM9	22:COM9
4200	2079	+ve	2.271	5.161	0.100	1.290	0.126	1.731
			20:COM7	16:COM3	28:COM15	20:COM7	20:COM7	20:COM7
			-1.700	-0.203	-0.150	-0.092	-0.084	0.000
			30:COM17	26:COM13	22:COM9	30:COM17	30:COM17	-
	2069	-ve	2.271	4.418	0.100	1.290	0.078	0.863
			20:COM7	16:COM3	28:COM15	20:COM7	28:COM15	24:COM17
			-1.700	-0.760	-0.150	-0.092	-0.116	-6.066
			30:COM17	26:COM13	22:COM9	30:COM17	22:COM9	18:COM5
4201	2069	+ve	3.323	0.905	0.000	0.006	0.074	0.835
			20:COM7	28:COM15	-	28:COM15	20:COM7	28:COM15
			-1.420	-2.884	-0.064	-0.819	0.000	-5.576
			30:COM17	22:COM9	22:COM9	22:COM9	-	22:COM9
	2177	-ve	3.323	0.155	0.000	0.006	0.000	2.858
			20:COM7	28:COM15	-	28:COM15	-	16:COM3
			-1.420	-3.884	-0.064	-0.819	-0.066	-1.415
			30:COM17	22:COM9	22:COM9	22:COM9	22:COM9	26:COM13
4202	2064	+ve	6.287	8.294	0.038	0.014	0.128	25.395
			20:COM7	20:COM7	28:COM15	24:COM17	20:COM7	16:COM3
			-4.813	0.000	-0.126	-0.850	-0.051	-1.144
			30:COM17	-	22:COM9	18:COM5	30:COM17	26:COM13
	2179	-ve	6.287	6.482	0.038	0.014	0.024	11.402
			20:COM7	20:COM7	28:COM15	24:COM17	28:COM15	16:COM3
			-4.813	0.000	-0.126	-0.850	-0.118	-7.247
			30:COM17	-	22:COM9	18:COM5	22:COM9	26:COM13
4203	2065	+ve	1.604	7.250	0.000	0.218	0.092	20.891
			28:COM15	33:CVOL2	-	24:COM17	16:COM3	16:COM3
			-4.828	0.000	-0.091	-1.056	0.000	0.000
			22:COM9	-	18:COM5	18:COM5	-	-
	2184	-ve	1.604	5.422	0.000	0.218	0.000	9.655
			28:COM15	35:CVOL4	-	24:COM17	-	16:COM3
			-4.828	0.000	-0.091	-1.056	-0.086	-3.933
			22:COM9	-	18:COM5	18:COM5	18:COM5	26:COM13

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
4204	2066	+ve	1.226	7.310	0.000	0.206	0.090	20.859
			28:COM15	20:COM7	-	24:COM17	16:COM3	16:COM3
			-6.655	0.000	-0.089	-1.029	0.000	0.000
			22:COM9	-	18:COM5	18:COM5	-	-
	2189	-ve	1.226	5.498	0.000	0.206	0.000	9.553
			28:COM15	20:COM7	-	24:COM17	-	16:COM3
			-6.655	0.000	-0.089	-1.029	-0.083	-4.265
			22:COM9	-	18:COM5	18:COM5	18:COM5	26:COM13
4205	2067	+ve	0.927	7.309	0.000	0.222	0.112	21.525
			28:COM15	33:CVOL2	-	24:COM17	16:COM3	16:COM3
			-6.934	0.000	-0.107	-1.030	0.000	0.000
			22:COM9	-	18:COM5	18:COM5	-	-
	2194	-ve	0.927	5.487	0.000	0.222	0.000	10.017
			28:COM15	35:CVOL4	-	24:COM17	-	16:COM3
			-6.934	0.000	-0.107	-1.030	-0.098	-4.305
			22:COM9	-	18:COM5	18:COM5	18:COM5	26:COM13
4206	2068	+ve	3.236	7.927	0.029	0.139	0.095	21.589
			28:COM15	16:COM3	24:COM17	24:COM17	16:COM3	16:COM3
			-4.445	0.000	-0.094	-0.882	-0.027	-3.301
			22:COM9	-	18:COM5	18:COM5	26:COM13	26:COM13
	2199	-ve	3.236	6.013	0.029	0.139	0.033	7.405
			28:COM15	16:COM3	24:COM17	24:COM17	24:COM17	24:COM17
			-4.445	0.000	-0.094	-0.882	-0.099	-7.768
			22:COM9	-	18:COM5	18:COM5	18:COM5	18:COM5
4207	2081	+ve	11.292	0.000	3.912	10.038	2.735	2.930
			34:CVOL3	-	20:COM7	20:COM7	28:COM15	20:COM7
			0.000	-14.832	-2.782	-3.360	-2.998	-3.792
			-	22:COM9	30:COM17	30:COM17	22:COM9	30:COM17
	2341	-ve	11.292	0.000	3.912	10.038	4.650	35.829
			34:CVOL3	-	20:COM7	20:COM7	20:COM7	20:COM7
			0.000	-18.890	-2.782	-3.360	-2.705	0.000
			-	22:COM9	30:COM17	30:COM17	30:COM17	-
4208	2074	+ve	7.556	6.268	0.155	0.887	0.009	18.984
			16:COM3	20:COM7	20:COM7	16:COM3	28:COM15	16:COM3
			-3.710	-0.509	-0.009	-0.257	-0.167	-2.880
			26:COM13	30:COM17	30:COM17	26:COM13	22:COM9	26:COM13
	2270	-ve	7.556	5.353	0.155	0.887	0.140	13.439
			16:COM3	20:COM7	20:COM7	16:COM3	20:COM7	16:COM3
			-3.710	-1.196	-0.009	-0.257	-0.009	-7.172
			26:COM13	30:COM17	30:COM17	26:COM13	30:COM17	26:COM13
4209	2075	+ve	4.619	7.068	0.138	1.211	0.009	27.195
			16:COM3	16:COM3	16:COM3	16:COM3	24:COM11	16:COM3
			-3.612	0.000	-0.009	-0.094	-0.150	0.000
			26:COM13	-	26:COM13	26:COM13	18:COM5	-
	2276	-ve	4.619	6.158	0.138	1.211	0.122	19.217
			16:COM3	16:COM3	16:COM3	16:COM3	16:COM3	16:COM3
			-3.612	0.000	-0.009	-0.094	-0.009	-6.928
			26:COM13	-	26:COM13	26:COM13	26:COM13	26:COM13

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
4210	2076	+ve	7.526	10.238	0.114	0.247	0.043	21.013
			20:COM7	16:COM3	20:COM7	20:COM7	28:COM15	35:CVOL4
			-4.749	0.000	-0.027	-0.024	-0.136	0.000
			30:COM17	-	30:COM17	30:COM17	22:COM9	-
	2279	-ve	7.526	8.620	0.114	0.247	0.094	12.151
			20:COM7	16:COM3	20:COM7	20:COM7	20:COM7	16:COM3
			-4.749	0.000	-0.027	-0.024	-0.015	-1.816
			30:COM17	-	30:COM17	30:COM17	30:COM17	26:COM13
4211	2077	+ve	3.689	7.890	0.354	15.476	0.212	0.695
			20:COM7	24:COM11	24:COM11	24:COM11	20:COM7	24:COM11
			-1.871	-22.258	-0.377	-24.999	-0.190	-1.330
			30:COM17	18:COM5	18:COM5	18:COM5	30:COM17	18:COM5
	2041	-ve	3.689	5.546	0.354	15.476	0.386	28.771
			20:COM7	24:COM11	24:COM11	24:COM11	24:COM11	16:COM3
			-1.871	-25.884	-0.377	-24.999	-0.393	-7.708
			30:COM17	18:COM5	18:COM5	18:COM5	18:COM5	26:COM13
4212	2076	+ve	2.776	0.000	0.625	12.019	0.543	0.000
			20:COM7	-	24:COM11	24:COM11	16:COM3	-
			-2.037	-15.679	-0.884	-8.990	-0.454	-1.328
			30:COM17	18:COM5	18:COM5	18:COM5	26:COM13	18:COM5
	2039	-ve	2.776	0.000	0.625	12.019	0.335	21.024
			20:COM7	-	24:COM11	24:COM11	24:COM11	16:COM3
			-2.037	-19.016	-0.884	-8.990	-0.569	0.000
			30:COM17	18:COM5	18:COM5	18:COM5	18:COM5	-
4213	2075	+ve	2.413	0.000	0.508	14.901	0.390	0.000
			20:COM7	-	16:COM3	16:COM3	24:COM11	-
			-0.540	-13.654	-0.399	-13.895	-0.457	-1.929
			30:COM17	35:CVOL4	26:COM13	26:COM13	18:COM5	35:CVOL4
	2038	-ve	2.413	0.000	0.508	14.901	0.202	18.171
			20:COM7	-	16:COM3	16:COM3	24:COM11	35:CVOL4
			-0.540	-18.493	-0.399	-13.895	-0.132	0.000
			30:COM17	35:CVOL4	26:COM13	26:COM13	18:COM5	-
4214	2074	+ve	2.156	4.248	0.301	22.931	0.225	0.128
			20:COM7	28:COM15	28:COM15	16:COM3	32:CVOL1	24:COM11
			-0.847	-12.296	-2.203	-9.052	0.000	-1.092
			30:COM17	22:COM9	22:COM9	26:COM13	-	18:COM5
	2037	-ve	2.156	2.120	0.301	22.931	0.419	16.985
			20:COM7	28:COM15	28:COM15	16:COM3	28:COM15	20:COM7
			-0.847	-16.384	-2.203	-9.052	-2.540	-3.998
			30:COM17	22:COM9	22:COM9	26:COM13	22:COM9	30:COM17
4215	2084	+ve	0.087	2.681	0.008	0.086	0.131	0.218
			28:COM15	34:CVOL3	24:COM11	24:COM11	16:COM3	20:COM7
			-0.344	0.000	-0.157	-0.165	-0.007	0.000
			22:COM9	-	18:COM5	18:COM5	26:COM13	-
	2085	-ve	0.087	0.000	0.008	0.086	0.003	0.059
			28:COM15	-	24:COM11	24:COM11	24:COM11	24:COM11
			-0.344	-1.407	-0.157	-0.165	-0.077	-0.898
			22:COM9	32:CVOL1	18:COM5	18:COM5	18:COM5	18:COM5

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
4216	2085	+ve	0.532	6.825	0.002	0.623	0.013	1.017
			24:COM1	32:CVOL1	24:COM1	20:COM7	16:COM3	28:COM1
			-2.191	0.000	-0.003	0.000	-0.003	-1.364
			18:COM5	-	18:COM5	-	26:COM1	22:COM9
	2088	-ve	0.532	0.000	0.002	0.623	0.013	17.714
			24:COM1	-	24:COM1	20:COM7	16:COM3	32:CVOL1
			-2.191	-12.078	-0.003	0.000	-0.009	0.000
			18:COM5	32:CVOL1	18:COM5	-	26:COM1	-
4217	2041	+ve	3.772	83.323	2.536	4.087	1.660	152.727
			28:COM1	16:COM3	16:COM3	16:COM3	28:COM1	16:COM3
			-2.890	-60.583	-2.102	0.000	-2.139	-103.675
			22:COM9	26:COM1	26:COM1	-	22:COM9	26:COM1
	2281	-ve	3.772	81.381	2.536	4.087	2.294	14.169
			28:COM1	16:COM3	16:COM3	16:COM3	16:COM3	16:COM3
			-2.890	-62.039	-2.102	0.000	-2.042	-0.544
			22:COM9	26:COM1	26:COM1	-	26:COM1	26:COM1
4219	2022	+ve	13.980	33.841	3.484	6.759	4.093	92.705
			20:COM7	20:COM7	28:COM1	28:COM1	20:COM7	20:COM7
			-13.915	-6.002	-3.794	-9.263	-3.796	-28.353
			30:COM1	30:COM1	22:COM9	22:COM9	30:COM1	30:COM1
	6251	-ve	13.980	31.643	3.484	6.759	2.846	30.314
			20:COM7	20:COM7	28:COM1	28:COM1	28:COM1	20:COM7
			-13.915	-7.650	-3.794	-9.263	-3.141	-15.348
			30:COM1	30:COM1	22:COM9	22:COM9	22:COM9	30:COM1
4220	6246	+ve	13.280	6.497	0.008	0.453	0.028	20.216
			28:COM1	16:COM3	24:COM1	20:COM7	16:COM3	20:COM7
			-17.311	-0.935	-0.010	-0.068	-0.025	-9.978
			22:COM9	26:COM1	18:COM5	30:COM1	26:COM1	30:COM1
	2070	-ve	13.280	0.000	0.008	0.453	0.034	13.090
			28:COM1	-	24:COM1	20:COM7	28:COM1	20:COM7
			-17.311	-8.281	-0.010	-0.068	-0.038	0.000
			22:COM9	18:COM5	18:COM5	30:COM1	22:COM9	-
4222	2077	+ve	1.579	13.996	0.120	0.600	0.073	30.756
			24:COM1	16:COM3	20:COM7	16:COM3	28:COM1	16:COM3
			-2.781	-10.690	-0.082	-0.031	-0.106	-14.234
			18:COM5	26:COM1	30:COM1	26:COM1	22:COM9	26:COM1
	2338	-ve	1.579	12.614	0.120	0.600	0.097	8.757
			24:COM1	16:COM3	20:COM7	16:COM3	20:COM7	20:COM7
			-2.781	-11.727	-0.082	-0.031	-0.066	0.000
			18:COM5	26:COM1	30:COM1	26:COM1	30:COM1	-
4223	2088	+ve	3.520	13.121	0.039	0.903	0.045	12.806
			24:COM1	20:COM7	16:COM3	20:COM7	24:COM1	34:CVOL3
			-7.745	-3.949	-0.017	0.000	-0.079	0.000
			18:COM5	30:COM1	26:COM1	-	18:COM5	-
	6238	-ve	3.520	6.077	0.039	0.903	0.045	29.719
			24:COM1	28:COM1	16:COM3	20:COM7	16:COM3	20:COM7
			-7.745	-9.758	-0.017	0.000	-0.011	-20.778
			18:COM5	22:COM9	26:COM1	-	26:COM1	30:COM1

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
4224	2027	+ve	51.256	123.485	2.277	2.749	3.741	217.234
			16:COM3	16:COM3	24:COM11	28:COM15	16:COM3	16:COM3
			-38.392	-96.848	-3.278	-5.261	-2.551	-178.209
			26:COM13	26:COM13	18:COM5	22:COM9	26:COM13	26:COM13
	2156	-ve	51.256	121.157	2.277	2.749	1.363	12.380
			16:COM3	16:COM3	24:COM11	28:COM15	28:COM15	24:COM11
			-38.392	-98.594	-3.278	-5.261	-1.856	-14.731
			26:COM13	26:COM13	18:COM5	22:COM9	22:COM9	18:COM5
4225	2023	+ve	54.882	34.805	7.471	14.723	0.000	120.720
			28:COM15	20:COM7	34:CVOL3	20:COM7	-	28:COM15
			-63.103	-29.207	0.000	-1.063	-8.808	-161.881
			22:COM9	30:COM17	-	30:COM17	34:CVOL3	22:COM9
	2283	-ve	54.882	31.995	7.471	14.723	6.740	54.327
			28:COM15	20:COM7	34:CVOL3	20:COM7	20:COM7	28:COM15
			-63.103	-31.315	0.000	-1.063	0.000	-101.863
			22:COM9	30:COM17	-	30:COM17	-	22:COM9
4226	2071	+ve	9.775	6.393	0.039	1.159	0.089	13.000
			20:COM7	20:COM7	24:COM11	20:COM7	16:COM3	16:COM3
			-5.267	0.000	-0.070	-0.359	-0.049	0.000
			30:COM17	-	18:COM5	30:COM17	26:COM13	-
	2285	-ve	9.775	5.554	0.039	1.159	0.032	6.838
			20:COM7	20:COM7	24:COM11	20:COM7	28:COM15	16:COM3
			-5.267	-0.277	-0.070	-0.359	-0.048	-3.716
			30:COM17	30:COM17	18:COM5	30:COM17	22:COM9	26:COM13
4227	2092	+ve	6.021	3.588	0.060	0.462	0.061	19.495
			20:COM7	16:COM3	16:COM3	28:COM15	24:COM11	20:COM7
			-3.005	-0.144	-0.056	-0.944	-0.068	-4.923
			30:COM17	26:COM13	26:COM13	22:COM9	18:COM5	30:COM17
	2288	-ve	6.021	2.455	0.060	0.462	0.079	13.418
			20:COM7	16:COM3	16:COM3	28:COM15	16:COM3	20:COM7
			-3.005	-0.994	-0.056	-0.944	-0.078	-4.869
			30:COM17	26:COM13	26:COM13	22:COM9	26:COM13	30:COM17
4228	2090	+ve	7.257	16.280	0.000	1.003	0.096	38.630
			16:COM3	34:CVOL3	-	24:COM17	20:COM7	20:COM7
			-5.766	0.000	-0.116	-1.856	0.000	0.000
			26:COM13	-	18:COM5	18:COM5	-	-
	2291	-ve	7.257	14.461	0.000	1.003	0.007	12.941
			16:COM3	34:CVOL3	-	24:COM17	24:COM11	20:COM7
			-5.766	0.000	-0.116	-1.856	-0.133	-6.011
			26:COM13	-	18:COM5	18:COM5	18:COM5	30:COM17
4229	2093	+ve	0.369	0.000	0.868	15.129	0.458	0.000
			24:COM17	-	16:COM3	24:COM17	24:COM11	-
			-1.417	-8.814	-0.338	-16.409	-0.507	-0.695
			18:COM5	22:COM9	26:COM13	18:COM5	18:COM5	22:COM9
	2017	-ve	0.369	0.000	0.868	15.129	0.435	7.100
			24:COM17	-	16:COM3	24:COM17	16:COM3	20:COM7
			-1.417	-10.816	-0.338	-16.409	-0.087	0.000
			18:COM5	22:COM9	26:COM13	18:COM5	26:COM13	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
4230	2094	+ve	0.101	0.000	0.721	16.361	0.458	0.000
			28:COM15	-	16:COM3	16:COM3	24:COM11	-
			-2.081	-5.933	-0.459	-14.444	-0.517	-0.672
			22:COM9	22:COM9	26:COM13	26:COM13	18:COM5	22:COM9
	2018	-ve	0.101	0.000	0.721	16.361	0.282	4.748
			28:COM15	-	16:COM3	16:COM3	16:COM3	20:COM7
			-2.081	-7.935	-0.459	-14.444	-0.146	0.000
			22:COM9	22:COM9	26:COM13	26:COM13	26:COM13	-
4231	2095	+ve	0.176	0.000	0.512	17.802	0.442	0.000
			28:COM15	-	16:COM3	16:COM3	24:COM11	-
			-1.156	-8.340	-0.468	-14.495	-0.521	-0.718
			22:COM9	22:COM9	26:COM13	26:COM13	18:COM5	22:COM9
	2019	-ve	0.176	0.000	0.512	17.802	0.214	6.697
			28:COM15	-	16:COM3	16:COM3	24:COM11	20:COM7
			-1.156	-10.342	-0.468	-14.495	-0.260	0.000
			22:COM9	22:COM9	26:COM13	26:COM13	18:COM5	-
4232	2093	+ve	4.849	4.569	0.018	0.388	0.012	16.922
			20:COM7	16:COM3	20:COM7	16:COM3	28:COM15	16:COM3
			-4.173	0.000	-0.010	0.000	-0.018	-1.445
			30:COM17	-	30:COM17	-	22:COM9	26:COM13
	2357	-ve	4.849	3.894	0.018	0.388	0.018	13.766
			20:COM7	16:COM3	20:COM7	16:COM3	16:COM3	16:COM3
			-4.173	0.000	-0.010	0.000	-0.008	-7.399
			30:COM17	-	30:COM17	-	26:COM13	26:COM13
4233	2094	+ve	5.719	3.751	0.017	0.375	0.026	15.173
			20:COM7	16:COM3	28:COM15	16:COM3	20:COM7	16:COM3
			-3.034	0.000	-0.021	0.000	-0.017	-2.513
			30:COM17	-	22:COM9	-	30:COM17	26:COM13
	2207	-ve	5.719	3.076	0.017	0.375	0.016	13.223
			20:COM7	16:COM3	28:COM15	16:COM3	28:COM15	16:COM3
			-3.034	0.000	-0.021	0.000	-0.015	-7.769
			30:COM17	-	22:COM9	-	22:COM9	26:COM13
4234	2004	+ve	5.998	47.108	0.553	32.301	1.085	99.895
			20:COM7	34:CVOL3	28:COM15	20:COM7	20:COM7	34:CVOL3
			-1.001	0.000	-0.622	-21.626	-1.069	0.000
			30:COM17	-	22:COM9	30:COM17	30:COM17	-
	2089	-ve	5.998	39.117	0.553	32.301	0.250	0.000
			20:COM7	34:CVOL3	28:COM15	20:COM7	28:COM15	-
			-1.001	0.000	-0.622	-21.626	-0.395	-1.706
			30:COM17	-	22:COM9	30:COM17	22:COM9	22:COM9
4235	2008	+ve	8.308	46.722	0.118	14.593	0.135	96.269
			20:COM7	34:CVOL3	24:COM11	24:COM11	24:COM11	34:CVOL3
			-0.261	0.000	-0.131	-17.202	-0.202	0.000
			30:COM17	-	18:COM5	18:COM5	18:COM5	-
	2091	-ve	8.308	37.634	0.118	14.593	0.122	0.000
			20:COM7	34:CVOL3	24:COM11	24:COM11	24:COM11	-
			-0.261	0.000	-0.131	-17.202	-0.220	-2.799
			30:COM17	-	18:COM5	18:COM5	18:COM5	34:CVOL3

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
4237	2091	+ve	8.576	18.940	0.000	0.000	0.098	50.168
			16:COM3	34:CVOL3	-	-	20:COM7	34:CVOL3
			-6.936	0.000	-0.099	-1.464	0.000	0.000
			26:COM1	-	22:COM9	18:COM5	-	-
	2294	-ve	8.576	17.093	0.000	0.000	0.000	19.213
			16:COM3	34:CVOL3	-	-	-	16:COM3
			-6.936	0.000	-0.099	-1.464	-0.098	-2.612
			26:COM1	-	22:COM9	18:COM5	22:COM9	26:COM1
4238	2097	+ve	19.323	83.929	0.627	6.715	1.327	26.673
			20:COM7	28:COM1	28:COM1	20:COM7	20:COM7	24:COM1
			-17.199	-97.094	-1.032	-0.342	-1.103	-41.568
			30:COM1	22:COM9	22:COM9	30:COM1	30:COM1	18:COM5
	2016	-ve	19.323	77.494	0.627	6.715	1.306	295.070
			20:COM7	28:COM1	28:COM1	20:COM7	28:COM1	20:COM7
			-17.199	-106.855	-1.032	-0.342	-2.412	-240.218
			30:COM1	22:COM9	22:COM9	30:COM1	22:COM9	30:COM1
4239	2097	+ve	4.540	12.363	0.042	2.606	0.125	22.687
			28:COM1	20:COM7	24:COM1	20:COM7	20:COM7	34:CVOL3
			-6.359	-1.220	-0.141	-1.765	-0.042	0.000
			22:COM9	30:COM1	18:COM5	30:COM1	30:COM1	-
	2297	-ve	4.540	11.532	0.042	2.606	0.063	16.422
			28:COM1	20:COM7	24:COM1	20:COM7	24:COM1	20:COM7
			-6.359	-1.842	-0.141	-1.765	-0.158	-5.951
			22:COM9	30:COM1	18:COM5	30:COM1	18:COM5	30:COM1
4240	2101	+ve	23.471	46.138	0.648	2.283	3.430	78.596
			16:COM3	16:COM3	28:COM1	32:CVOL1	20:COM7	16:COM3
			-11.677	0.000	-2.578	-1.907	-0.822	-24.147
			26:COM1	-	22:COM9	35:CVOL4	30:COM1	26:COM1
	2102	-ve	23.471	43.415	0.648	2.283	0.456	8.078
			16:COM3	16:COM3	28:COM1	32:CVOL1	28:COM1	24:COM1
			-11.677	0.000	-2.578	-1.907	-1.644	-57.801
			26:COM1	-	22:COM9	35:CVOL4	22:COM9	18:COM5
4241	2089	+ve	6.364	14.530	0.019	0.000	0.091	40.919
			20:COM7	34:CVOL3	28:COM1	-	20:COM7	16:COM3
			-4.769	0.000	-0.095	-1.853	-0.017	0.000
			30:COM1	-	22:COM9	22:COM9	30:COM1	-
	2303	-ve	6.364	12.769	0.019	0.000	0.021	17.212
			20:COM7	34:CVOL3	28:COM1	-	28:COM1	16:COM3
			-4.769	0.000	-0.095	-1.853	-0.088	-1.535
			30:COM1	-	22:COM9	22:COM9	22:COM9	26:COM1
4242	2098	+ve	9.743	8.842	8.169	9.283	0.956	19.442
			20:COM7	28:COM1	20:COM7	24:COM1	28:COM1	20:COM7
			-8.515	-20.912	-4.882	-9.996	-1.096	-10.318
			30:COM1	22:COM9	30:COM1	18:COM5	22:COM9	30:COM1
	2090	-ve	9.743	8.733	8.169	9.283	1.687	26.026
			20:COM7	28:COM1	20:COM7	24:COM1	20:COM7	20:COM7
			-8.515	-21.057	-4.882	-9.996	-0.796	-13.074
			30:COM1	22:COM9	30:COM1	18:COM5	30:COM1	30:COM1

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
4243	2099	+ve	13.346	4.785	7.134	11.422	1.977	0.672
			20:COM7	20:COM7	20:COM7	20:COM7	28:COM15	28:COM15
			-9.973	-1.961	-6.637	-1.721	-2.011	-29.760
			30:COM17	30:COM17	30:COM17	30:COM17	22:COM9	22:COM9
	2306	-ve	13.346	4.513	7.134	11.422	2.202	0.037
			20:COM7	20:COM7	20:COM7	20:COM7	20:COM7	24:COM11
			-9.973	-2.166	-6.637	-1.721	-1.942	-30.652
			30:COM17	30:COM17	30:COM17	30:COM17	30:COM17	18:COM5
4244	2100	+ve	4.689	7.306	0.268	2.660	0.297	11.895
			28:COM15	28:COM15	24:COM11	20:COM7	16:COM3	20:COM7
			-5.931	-22.030	-0.436	-1.269	-0.176	-7.220
			22:COM9	22:COM9	18:COM5	30:COM17	26:COM13	30:COM17
	2365	-ve	4.689	6.826	0.268	2.660	0.196	30.722
			28:COM15	28:COM15	24:COM11	20:COM7	24:COM11	16:COM3
			-5.931	-22.671	-0.436	-1.269	-0.309	-4.811
			22:COM9	22:COM9	18:COM5	30:COM17	18:COM5	26:COM13
4245	2102	+ve	24.957	27.687	0.175	0.704	0.299	8.206
			16:COM3	16:COM3	20:COM7	24:COM11	20:COM7	24:COM11
			-13.059	0.000	-0.268	-2.221	-0.160	-57.679
			26:COM13	-	30:COM17	35:CVOL4	30:COM17	18:COM5
	2103	-ve	24.957	24.964	0.175	0.704	0.199	0.000
			16:COM3	16:COM3	20:COM7	24:COM11	20:COM7	-
			-13.059	-0.888	-0.268	-2.221	-0.242	-84.535
			26:COM13	26:COM13	30:COM17	35:CVOL4	30:COM17	34:CVOL3
4246	2103	+ve	26.192	10.151	0.156	1.278	0.166	0.000
			16:COM3	16:COM3	28:COM15	24:COM11	20:COM7	-
			-13.836	-6.993	-0.177	-2.456	-0.146	-84.337
			26:COM13	26:COM13	22:COM9	18:COM5	30:COM17	34:CVOL3
	2104	-ve	26.192	7.604	0.156	1.278	0.174	0.000
			16:COM3	24:COM11	28:COM15	24:COM11	28:COM15	-
			-13.836	-9.211	-0.177	-2.456	-0.197	-85.297
			26:COM13	18:COM5	22:COM9	18:COM5	22:COM9	34:CVOL3
4247	2104	+ve	27.417	1.473	0.259	1.379	0.214	0.000
			16:COM3	24:COM11	28:COM15	16:COM3	20:COM7	-
			-14.493	-23.691	-0.218	-1.532	-0.207	-85.308
			26:COM13	18:COM5	22:COM9	26:COM13	30:COM17	34:CVOL3
	2105	-ve	27.417	0.000	0.259	1.379	0.314	7.575
			16:COM3	-	28:COM15	16:COM3	28:COM15	24:COM11
			-14.493	-26.414	-0.218	-1.532	-0.226	-62.029
			26:COM13	18:COM5	22:COM9	26:COM13	22:COM9	18:COM5
4248	2105	+ve	28.763	0.000	0.760	1.947	0.000	7.461
			16:COM3	-	32:CVOL1	35:CVOL4	-	24:COM11
			-15.083	-41.531	0.000	-2.168	-0.511	-62.110
			26:COM13	18:COM5	-	32:CVOL1	32:CVOL1	18:COM5
	2106	-ve	28.763	0.000	0.760	1.947	1.032	73.234
			16:COM3	-	32:CVOL1	35:CVOL4	16:COM3	16:COM3
			-15.083	-44.254	0.000	-2.168	0.000	-28.875
			26:COM13	18:COM5	-	32:CVOL1	-	26:COM13

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
4249	2106	+ve	35.003	0.000	0.446	1.375	0.368	73.130
			16:COM3	-	24:COM11	24:COM11	16:COM3	16:COM3
			-12.927	-61.950	-0.852	-4.006	-0.571	-29.014
			26:COM13	34:CVOL3	18:COM5	32:CVOL1	26:COM13	26:COM13
	2025	-ve	35.003	0.000	0.446	1.375	0.348	193.469
			16:COM3	-	24:COM11	24:COM11	28:COM15	16:COM3
			-12.927	-64.673	-0.852	-4.006	-1.349	0.000
			26:COM13	34:CVOL3	18:COM5	32:CVOL1	22:COM9	-
4250	2107	+ve	15.420	46.409	0.252	3.056	1.316	84.371
			16:COM3	16:COM3	28:COM15	32:CVOL1	20:COM7	16:COM3
			-7.378	0.000	-1.037	-1.099	-0.217	-29.293
			26:COM13	-	22:COM9	35:CVOL4	30:COM17	26:COM13
	2108	-ve	15.420	43.679	0.252	3.056	0.285	12.699
			16:COM3	16:COM3	28:COM15	32:CVOL1	28:COM15	24:COM11
			-7.378	0.000	-1.037	-1.099	-0.735	-61.933
			26:COM13	-	22:COM9	35:CVOL4	22:COM9	18:COM5
4251	2108	+ve	16.247	28.318	0.195	2.393	0.148	12.790
			16:COM3	16:COM3	16:COM3	16:COM3	24:COM11	24:COM11
			-8.424	0.000	-0.106	-1.390	-0.198	-61.843
			26:COM13	-	26:COM13	26:COM13	18:COM5	18:COM5
	2109	-ve	16.247	25.588	0.195	2.393	0.287	0.000
			16:COM3	16:COM3	16:COM3	16:COM3	20:COM7	-
			-8.424	-1.013	-0.106	-1.390	-0.162	-85.127
			26:COM13	26:COM13	26:COM13	26:COM13	30:COM17	34:CVOL3
4252	2109	+ve	17.715	10.785	0.216	3.201	0.076	0.000
			16:COM3	16:COM3	20:COM7	16:COM3	24:COM11	-
			-9.412	-6.976	-0.102	-1.846	-0.178	-85.129
			26:COM13	26:COM13	30:COM17	26:COM13	18:COM5	34:CVOL3
	2110	-ve	17.715	8.055	0.216	3.201	0.330	0.000
			16:COM3	16:COM3	20:COM7	16:COM3	20:COM7	-
			-9.412	-9.023	-0.102	-1.846	-0.207	-87.384
			26:COM13	26:COM13	30:COM17	26:COM13	30:COM17	34:CVOL3
4253	2110	+ve	19.961	1.445	0.268	2.388	0.102	0.000
			16:COM3	24:COM11	28:COM15	16:COM3	16:COM3	-
			-10.638	-23.552	-0.136	-1.710	-0.171	-87.517
			26:COM13	18:COM5	22:COM9	26:COM13	26:COM13	34:CVOL3
	2111	-ve	19.961	0.000	0.268	2.388	0.416	3.328
			16:COM3	-	28:COM15	16:COM3	20:COM7	24:COM11
			-10.638	-26.282	-0.136	-1.710	-0.225	-60.202
			26:COM13	18:COM5	22:COM9	26:COM13	30:COM17	18:COM5
4254	2111	+ve	23.972	0.000	0.989	0.400	0.236	3.170
			16:COM3	-	20:COM7	33:CVOL2	28:COM15	24:COM11
			-12.542	-41.956	-0.170	-3.920	-0.712	-60.304
			26:COM13	18:COM5	30:COM17	32:CVOL1	22:COM9	18:COM5
	2112	-ve	23.972	0.000	0.989	0.400	1.244	69.003
			16:COM3	-	20:COM7	33:CVOL2	20:COM7	16:COM3
			-12.542	-44.686	-0.170	-3.920	-0.104	-24.600
			26:COM13	18:COM5	30:COM17	32:CVOL1	30:COM17	26:COM13

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
4255	2112	+ve	36.702	0.000	0.847	0.000	0.734	68.926
			16:COM3	-	20:COM7	-	28:COM15	16:COM3
			-18.071	-64.718	-0.543	-9.396	-1.196	-24.616
			26:COM13	34:CVOL3	30:COM17	34:CVOL3	22:COM9	26:COM13
	2026	-ve	36.702	0.000	0.847	0.000	0.584	192.733
			16:COM3	-	20:COM7	-	28:COM15	16:COM3
			-18.071	-67.448	-0.543	-9.396	-0.447	0.000
			26:COM13	34:CVOL3	30:COM17	34:CVOL3	22:COM9	-
4256	2113	+ve	15.424	25.762	0.535	9.334	0.438	51.415
			28:COM15	16:COM3	20:COM7	20:COM7	28:COM15	16:COM3
			-14.830	-0.939	-0.354	0.000	-0.708	-33.557
			22:COM9	26:COM13	30:COM17	-	22:COM9	26:COM13
	2114	-ve	15.424	23.063	0.535	9.334	0.361	9.726
			28:COM15	16:COM3	20:COM7	20:COM7	28:COM15	24:COM17
			-14.830	-2.963	-0.354	0.000	-0.279	-35.668
			22:COM9	26:COM13	30:COM17	-	22:COM9	18:COM5
4257	2114	+ve	15.707	16.725	0.044	3.811	0.101	9.822
			20:COM7	16:COM3	24:COM11	16:COM3	20:COM7	24:COM17
			-13.914	-5.941	-0.127	0.000	-0.081	-35.622
			30:COM17	26:COM13	18:COM5	-	30:COM17	18:COM5
	2115	-ve	15.707	14.026	0.044	3.811	0.076	0.000
			20:COM7	16:COM3	24:COM11	16:COM3	28:COM15	-
			-13.914	-7.964	-0.127	0.000	-0.219	-28.541
			30:COM17	26:COM13	18:COM5	-	22:COM9	35:CVOL4
4258	2115	+ve	16.223	9.223	0.068	0.000	0.099	0.000
			20:COM7	24:COM11	16:COM3	-	28:COM15	-
			-13.429	-11.927	-0.069	-4.163	-0.164	-28.540
			30:COM17	18:COM5	26:COM13	18:COM5	22:COM9	35:CVOL4
	2116	-ve	16.223	7.199	0.068	0.000	0.070	7.560
			20:COM7	24:COM11	16:COM3	-	28:COM15	24:COM17
			-13.429	-14.625	-0.069	-4.163	-0.137	-39.908
			30:COM17	18:COM5	26:COM13	18:COM5	22:COM9	18:COM5
4259	2116	+ve	16.963	4.235	0.321	0.000	0.300	7.464
			20:COM7	24:COM11	28:COM15	-	28:COM15	24:COM17
			-13.296	-20.982	-0.481	-9.659	-0.228	-39.953
			30:COM17	18:COM5	22:COM9	22:COM9	22:COM9	18:COM5
	2117	-ve	16.963	2.211	0.321	0.000	0.432	43.411
			20:COM7	24:COM11	28:COM15	-	28:COM15	16:COM3
			-13.296	-23.681	-0.481	-9.659	-0.672	-38.639
			30:COM17	18:COM5	22:COM9	22:COM9	22:COM9	26:COM13
4260	2117	+ve	16.270	0.933	1.243	0.000	0.441	43.162
			20:COM7	24:COM11	20:COM7	-	28:COM15	16:COM3
			-10.974	-35.183	-0.507	-14.749	-0.682	-38.702
			30:COM17	18:COM5	30:COM17	22:COM9	22:COM9	26:COM13
	2018	-ve	16.270	0.000	1.243	0.000	1.765	114.357
			20:COM7	-	20:COM7	-	20:COM7	16:COM3
			-10.974	-37.882	-0.507	-14.749	-0.570	-38.503
			30:COM17	18:COM5	30:COM17	22:COM9	30:COM17	26:COM13

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
4261	2118	+ve	16.620	26.539	2.822	25.740	0.599	40.013
			24:COM1	16:COM3	20:COM7	20:COM7	28:COM1	24:COM1
			-31.945	-2.883	-0.637	-3.481	-3.348	-48.317
			18:COM5	26:COM1	30:COM1	30:COM1	22:COM9	18:COM5
	2119	-ve	16.620	23.840	2.822	25.740	2.178	0.779
			24:COM1	16:COM3	20:COM7	20:COM7	20:COM7	24:COM1
			-31.945	-4.907	-0.637	-3.481	-0.668	-50.608
			18:COM5	26:COM1	30:COM1	30:COM1	30:COM1	18:COM5
4262	2119	+ve	16.453	13.568	0.334	19.021	0.000	0.878
			24:COM1	16:COM3	20:COM7	20:COM7	-	24:COM1
			-26.130	-8.616	-0.060	-5.004	-0.310	-50.214
			18:COM5	26:COM1	30:COM1	30:COM1	18:COM5	18:COM5
	2120	-ve	16.453	10.869	0.334	19.021	0.469	0.000
			24:COM1	16:COM3	20:COM7	20:COM7	20:COM7	-
			-26.130	-10.640	-0.060	-5.004	-0.279	-37.931
			18:COM5	26:COM1	30:COM1	30:COM1	30:COM1	34:CVOL3
4263	2120	+ve	17.058	7.028	0.153	10.642	0.137	0.000
			24:COM1	24:COM11	16:COM3	20:COM7	28:COM1	-
			-23.206	-15.682	-0.097	-6.973	-0.301	-37.790
			18:COM5	18:COM5	26:COM1	30:COM1	22:COM9	34:CVOL3
	2121	-ve	17.058	5.004	0.153	10.642	0.115	8.801
			24:COM1	24:COM11	16:COM3	20:COM7	24:COM11	24:COM1
			-23.206	-18.381	-0.097	-6.973	-0.171	-41.534
			18:COM5	18:COM5	26:COM1	30:COM1	18:COM5	18:COM5
4264	2121	+ve	17.644	2.040	0.455	5.383	0.342	8.785
			24:COM1	24:COM11	20:COM7	28:COM1	28:COM1	24:COM1
			-21.468	-24.592	-0.468	-11.170	-0.336	-41.561
			18:COM5	18:COM5	30:COM1	22:COM9	22:COM9	18:COM5
	2122	-ve	17.644	0.016	0.455	5.383	0.564	51.592
			24:COM1	24:COM11	20:COM7	28:COM1	20:COM7	16:COM3
			-21.468	-27.290	-0.468	-11.170	-0.585	-35.787
			18:COM5	18:COM5	30:COM1	22:COM9	30:COM1	26:COM1
4265	2122	+ve	18.147	0.000	0.837	2.988	0.277	51.441
			24:COM1	-	20:COM7	28:COM1	24:COM11	16:COM3
			-18.338	-38.608	-0.303	-16.122	-0.411	-35.865
			18:COM5	18:COM5	30:COM1	22:COM9	18:COM5	26:COM1
	2017	-ve	18.147	0.000	0.837	2.988	1.253	129.201
			24:COM1	-	20:COM7	28:COM1	20:COM7	16:COM3
			-18.338	-41.307	-0.303	-16.122	-0.345	-31.031
			18:COM5	18:COM5	30:COM1	22:COM9	30:COM1	26:COM1
4266	2123	+ve	16.051	25.268	0.520	9.782	0.393	49.422
			20:COM7	16:COM3	20:COM7	20:COM7	28:COM1	16:COM3
			-11.400	-1.137	-0.306	0.000	-0.701	-34.818
			30:COM1	26:COM1	30:COM1	-	22:COM9	26:COM1
	2124	-ve	16.051	22.570	0.520	9.782	0.340	9.164
			20:COM7	16:COM3	20:COM7	20:COM7	28:COM1	24:COM1
			-11.400	-3.161	-0.306	0.000	-0.231	-37.011
			30:COM1	26:COM1	30:COM1	-	22:COM9	18:COM5

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
4267	2124	+ve	15.638	16.154	0.047	4.220	0.112	9.266
			20:COM7	16:COM3	24:COM11	16:COM3	28:COM15	24:COM11
			-11.000	-6.176	-0.088	0.000	-0.114	-36.956
			30:COM17	26:COM13	18:COM5	-	22:COM9	18:COM5
	2125	-ve	15.638	13.456	0.047	4.220	0.073	0.000
			20:COM7	16:COM3	24:COM11	16:COM3	28:COM15	-
			-11.000	-8.200	-0.088	0.000	-0.157	-28.739
			30:COM17	26:COM13	18:COM5	-	22:COM9	35:CVOL4
4268	2125	+ve	15.407	8.846	0.092	0.000	0.139	0.000
			20:COM7	24:COM11	20:COM7	-	28:COM15	-
			-10.882	-12.346	-0.080	-3.805	-0.186	-28.734
			30:COM17	18:COM5	30:COM17	18:COM5	22:COM9	35:CVOL4
	2126	-ve	15.407	6.823	0.092	0.000	0.074	7.586
			20:COM7	24:COM11	20:COM7	-	28:COM15	24:COM11
			-10.882	-15.045	-0.080	-3.805	-0.097	-38.693
			30:COM17	18:COM5	30:COM17	18:COM5	22:COM9	18:COM5
4269	2126	+ve	15.165	3.878	0.304	0.000	0.425	7.492
			20:COM7	24:COM11	28:COM15	-	20:COM7	24:COM11
			-11.103	-21.364	-0.597	-9.027	-0.201	-38.735
			30:COM17	18:COM5	22:COM9	22:COM9	30:COM17	18:COM5
	2127	-ve	15.165	1.854	0.304	0.000	0.408	44.506
			20:COM7	24:COM11	28:COM15	-	28:COM15	16:COM3
			-11.103	-24.063	-0.597	-9.027	-0.756	-37.045
			30:COM17	18:COM5	22:COM9	22:COM9	22:COM9	26:COM13
4270	2127	+ve	14.449	0.760	0.340	0.000	0.867	44.264
			20:COM7	24:COM11	28:COM15	-	20:COM7	16:COM3
			-9.018	-35.444	-0.881	-14.261	-0.103	-37.107
			30:COM17	18:COM5	22:COM9	18:COM5	30:COM17	26:COM13
	2019	-ve	14.449	0.000	0.340	0.000	0.605	115.932
			20:COM7	-	28:COM15	-	20:COM7	16:COM3
			-9.018	-38.143	-0.881	-14.261	-0.897	-36.536
			30:COM17	18:COM5	22:COM9	18:COM5	30:COM17	26:COM13
4271	2128	+ve	10.023	27.253	0.440	13.073	0.496	54.959
			24:COM11	16:COM3	28:COM15	20:COM7	20:COM7	16:COM3
			-10.545	-0.178	-0.371	-4.431	-0.538	-34.956
			18:COM5	26:COM13	22:COM9	30:COM17	30:COM17	26:COM13
	2129	-ve	10.023	24.554	0.440	13.073	0.342	10.948
			24:COM11	16:COM3	28:COM15	20:COM7	28:COM15	24:COM11
			-10.545	-2.202	-0.371	-4.431	-0.251	-39.136
			18:COM5	26:COM13	22:COM9	30:COM17	22:COM9	18:COM5
4272	2129	+ve	10.465	18.270	0.137	8.298	0.119	10.992
			24:COM11	16:COM3	28:COM15	28:COM15	28:COM15	24:COM11
			-11.688	-5.214	-0.161	-8.454	-0.130	-39.084
			18:COM5	26:COM13	22:COM9	22:COM9	22:COM9	18:COM5
	2130	-ve	10.465	15.571	0.137	8.298	0.181	0.000
			24:COM11	16:COM3	28:COM15	28:COM15	28:COM15	-
			-11.688	-7.238	-0.161	-8.454	-0.237	-33.948
			18:COM5	26:COM13	22:COM9	22:COM9	22:COM9	34:CVOL3

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
4273	2130	+ve	10.984	10.600	0.162	6.662	0.098	0.000
			24:COM1	24:COM11	20:COM7	28:COM1	28:COM1	-
			-13.230	-11.179	-0.074	-16.126	-0.151	-34.035
			18:COM5	18:COM5	30:COM1	22:COM9	22:COM9	34:CVOL
	2131	-ve	10.984	8.576	0.162	6.662	0.310	3.118
			24:COM1	24:COM11	20:COM7	28:COM1	20:COM7	24:COM1
			-13.230	-13.878	-0.074	-16.126	-0.192	-46.429
			18:COM5	18:COM5	30:COM1	22:COM9	30:COM1	18:COM5
4274	2131	+ve	11.182	5.158	0.751	5.287	0.536	3.120
			24:COM1	24:COM11	20:COM7	28:COM1	28:COM1	24:COM1
			-13.960	-23.232	-0.674	-22.131	-0.548	-46.765
			18:COM5	18:COM5	30:COM1	22:COM9	22:COM9	18:COM5
	2132	-ve	11.182	3.134	0.751	5.287	0.947	41.473
			24:COM1	24:COM11	20:COM7	28:COM1	20:COM7	24:COM1
			-13.960	-25.930	-0.674	-22.131	-0.808	-45.270
			18:COM5	18:COM5	30:COM1	22:COM9	30:COM1	18:COM5
4275	2132	+ve	11.223	0.000	0.627	18.842	1.166	42.945
			24:COM1	-	28:COM1	20:COM7	20:COM7	16:COM3
			-14.657	-39.367	-1.632	-21.052	-0.494	-41.898
			18:COM5	18:COM5	22:COM9	30:COM1	30:COM1	26:COM1
	2020	-ve	11.223	0.000	0.627	18.842	0.767	118.770
			24:COM1	-	28:COM1	20:COM7	28:COM1	16:COM3
			-14.657	-42.066	-1.632	-21.052	-2.056	-22.756
			18:COM5	18:COM5	22:COM9	30:COM1	22:COM9	26:COM1
4276	2133	+ve	56.244	27.984	2.003	7.216	1.183	31.497
			28:COM1	20:COM7	24:COM11	20:COM7	24:COM11	20:COM7
			-110.503	-16.530	-2.319	-1.632	-2.033	-24.680
			22:COM9	30:COM1	18:COM5	30:COM1	18:COM5	30:COM1
	2029	-ve	56.244	24.684	2.003	7.216	2.031	9.266
			28:COM1	20:COM7	24:COM11	20:COM7	28:COM1	28:COM1
			-110.503	-19.004	-2.319	-1.632	-3.483	-18.787
			22:COM9	30:COM1	18:COM5	30:COM1	22:COM9	22:COM9
4278	2135	+ve	167.801	196.034	0.421	6.165	2.846	110.245
			20:COM7	28:COM1	24:COM11	34:CVOL	16:COM3	20:COM7
			-144.092	-265.371	-3.696	0.000	-0.881	-74.080
			30:COM1	22:COM9	18:COM5	-	26:COM1	30:COM1
	5728	-ve	167.801	195.087	0.421	6.165	0.662	304.421
			20:COM7	28:COM1	24:COM11	34:CVOL	28:COM1	20:COM7
			-144.092	-266.634	-3.696	0.000	-1.088	-216.834
			30:COM1	22:COM9	18:COM5	-	22:COM9	30:COM1
4279	2136	+ve	87.981	59.579	6.973	5.254	1.532	117.396
			20:COM7	28:COM1	20:COM7	28:COM1	28:COM1	28:COM1
			-65.235	-102.918	-2.022	-24.406	-6.679	-145.067
			30:COM1	22:COM9	30:COM1	22:COM9	22:COM9	22:COM9
	2024	-ve	87.981	56.993	6.973	5.254	7.223	318.780
			20:COM7	28:COM1	20:COM7	28:COM1	20:COM7	20:COM7
			-65.235	-106.365	-2.022	-24.406	-2.503	-254.075
			30:COM1	22:COM9	30:COM1	22:COM9	30:COM1	30:COM1

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
4280	2137	+ve	22.138	69.694	3.163	6.472	1.454	0.000
			20:COM7	28:COM15	20:COM7	28:COM15	28:COM15	-
			-19.131	-85.439	-1.500	-12.537	-2.826	-56.039
			30:COM17	22:COM9	30:COM17	22:COM9	22:COM9	22:COM9
	2136	-ve	22.138	67.109	3.163	6.472	3.480	124.204
			20:COM7	28:COM15	20:COM7	28:COM15	20:COM7	28:COM15
			-19.131	-88.886	-1.500	-12.537	-1.538	-149.479
			30:COM17	22:COM9	30:COM17	22:COM9	30:COM17	22:COM9
4291	2148	+ve	54.697	77.745	1.395	2.944	1.833	81.964
			24:COM17	16:COM3	28:COM15	20:COM7	20:COM7	16:COM3
			-77.375	-69.546	-3.987	-1.426	-0.433	-71.183
			18:COM5	26:COM13	22:COM9	30:COM17	30:COM17	26:COM13
	2012	-ve	54.697	75.524	1.395	2.944	1.372	19.901
			24:COM17	16:COM3	28:COM15	20:COM7	28:COM15	16:COM3
			-77.375	-71.212	-3.987	-1.426	-3.301	-17.154
			18:COM5	26:COM13	22:COM9	30:COM17	22:COM9	26:COM13
4292	2149	+ve	104.931	143.169	3.263	21.775	3.211	201.231
			16:COM3	24:COM11	20:COM7	28:COM15	24:COM11	16:COM3
			-53.969	-175.140	-2.770	-23.434	-3.539	-199.932
			26:COM13	18:COM5	30:COM17	22:COM9	18:COM5	26:COM13
	5376	-ve	104.931	142.002	3.263	21.775	1.029	359.519
			16:COM3	24:COM11	20:COM7	28:COM15	16:COM3	16:COM3
			-53.969	-176.697	-2.770	-23.434	-0.912	-328.222
			26:COM13	18:COM5	30:COM17	22:COM9	26:COM13	26:COM13
4293	2150	+ve	49.434	148.327	1.960	3.509	3.142	86.994
			16:COM3	24:COM11	28:COM15	20:COM7	20:COM7	24:COM17
			-21.017	-151.119	-2.745	-2.728	-1.638	-95.001
			26:COM13	18:COM5	22:COM9	30:COM17	30:COM17	18:COM5
	2149	-ve	49.434	145.765	1.960	3.509	2.248	206.815
			16:COM3	24:COM11	28:COM15	20:COM7	28:COM15	16:COM3
			-21.017	-154.535	-2.745	-2.728	-2.295	-203.406
			26:COM13	18:COM5	22:COM9	30:COM17	22:COM9	26:COM13
4294	2151	+ve	81.377	18.232	3.805	5.779	4.414	1.176
			24:COM17	24:COM11	16:COM3	24:COM17	24:COM11	28:COM15
			-126.299	-23.240	-3.042	-7.324	-5.415	-11.891
			18:COM5	18:COM5	26:COM13	18:COM5	18:COM5	22:COM9
	2013	-ve	81.377	15.590	3.805	5.779	2.453	40.917
			24:COM17	24:COM11	16:COM3	24:COM17	16:COM3	16:COM3
			-126.299	-26.764	-3.042	-7.324	-1.899	-35.151
			18:COM5	18:COM5	26:COM13	18:COM5	26:COM13	26:COM13
4295	2152	+ve	8.642	4.760	2.519	3.891	1.695	7.870
			24:COM17	20:COM7	20:COM7	28:COM15	28:COM15	16:COM3
			-41.873	-0.806	-1.801	-4.649	-2.398	-4.265
			18:COM5	30:COM17	30:COM17	22:COM9	22:COM9	26:COM13
	2151	-ve	8.642	1.578	2.519	3.891	2.692	4.896
			24:COM17	28:COM15	20:COM7	28:COM15	16:COM3	16:COM3
			-41.873	-3.591	-1.801	-4.649	-1.979	-3.204
			18:COM5	22:COM9	30:COM17	22:COM9	26:COM13	26:COM13

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
4296	2096	+ve	13.136	49.959	0.947	1.523	2.789	30.177
			28:COM15	28:COM15	24:COM11	28:COM15	16:COM3	28:COM15
			-14.015	-51.337	-1.358	-11.697	-1.970	-41.829
			22:COM9	22:COM9	18:COM5	22:COM9	26:COM13	22:COM9
	2020	-ve	13.136	43.879	0.947	1.523	1.599	169.278
			28:COM15	28:COM15	24:COM11	28:COM15	24:COM11	20:COM7
			-14.015	-60.799	-1.358	-11.697	-2.328	-146.503
			22:COM9	22:COM9	18:COM5	22:COM9	18:COM5	30:COM17
4297	2154	+ve	6.647	29.283	0.530	33.080	1.398	23.999
			24:COM17	24:COM11	28:COM15	20:COM7	20:COM7	28:COM15
			-32.262	-36.271	-1.424	-29.036	-0.621	-49.035
			18:COM5	18:COM5	22:COM9	30:COM17	30:COM17	22:COM9
	2016	-ve	6.647	27.033	0.530	33.080	0.616	85.835
			24:COM17	24:COM11	28:COM15	20:COM7	24:COM11	24:COM17
			-32.262	-39.271	-1.424	-29.036	-1.776	-90.033
			18:COM5	18:COM5	22:COM9	30:COM17	18:COM5	18:COM5
4298	2155	+ve	2.794	40.251	2.997	7.961	1.859	42.802
			24:COM17	16:COM3	20:COM7	20:COM7	28:COM15	16:COM3
			-38.737	-20.349	-1.607	-6.186	-3.449	-30.616
			18:COM5	26:COM13	30:COM17	30:COM17	22:COM9	26:COM13
	2154	-ve	2.794	37.252	2.997	7.961	3.048	23.730
			24:COM17	16:COM3	20:COM7	20:COM7	20:COM7	28:COM15
			-38.737	-22.599	-1.607	-6.186	-1.626	-48.997
			18:COM5	26:COM13	30:COM17	30:COM17	30:COM17	22:COM9
4299	2160	+ve	23.098	38.672	1.025	6.332	1.697	53.993
			16:COM3	20:COM7	28:COM15	20:COM7	20:COM7	16:COM3
			-15.217	-13.523	-1.502	-1.556	-1.252	-39.491
			26:COM13	30:COM17	22:COM9	30:COM17	30:COM17	26:COM13
	2161	-ve	23.098	36.076	1.025	6.332	0.672	0.000
			16:COM3	20:COM7	28:COM15	20:COM7	28:COM15	-
			-15.217	-15.470	-1.502	-1.556	-1.124	-20.876
			26:COM13	30:COM17	22:COM9	30:COM17	22:COM9	18:COM5
4300	2161	+ve	18.307	25.116	0.243	3.669	0.298	0.000
			16:COM3	16:COM3	28:COM15	16:COM3	20:COM7	-
			-11.325	-21.877	-0.350	-1.989	-0.243	-20.913
			26:COM13	26:COM13	22:COM9	26:COM13	30:COM17	18:COM5
	2162	-ve	18.307	22.871	0.243	3.669	0.228	30.944
			16:COM3	24:COM11	28:COM15	16:COM3	28:COM15	28:COM15
			-11.325	-24.175	-0.350	-1.989	-0.374	-61.100
			26:COM13	18:COM5	22:COM9	26:COM13	22:COM9	22:COM9
4301	2162	+ve	15.112	17.578	1.439	0.000	0.073	31.097
			16:COM3	24:COM11	16:COM3	-	24:COM11	28:COM15
			-9.195	-36.036	-0.306	-5.683	-0.919	-61.242
			26:COM13	18:COM5	26:COM13	22:COM9	18:COM5	22:COM9
	2005	-ve	15.112	15.631	1.439	0.000	1.801	93.094
			16:COM3	24:COM11	16:COM3	-	16:COM3	16:COM3
			-9.195	-38.632	-0.306	-5.683	-0.522	-84.353
			26:COM13	18:COM5	26:COM13	22:COM9	26:COM13	26:COM13

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
4302	2163	+ve	12.738	26.429	0.033	2.876	0.356	8.011
			16:COM3	24:COM11	24:COM11	20:COM7	16:COM3	24:COM1
			-9.842	-30.626	-0.112	-1.758	-0.208	-24.243
			26:COM1	18:COM5	18:COM5	30:COM1	26:COM1	18:COM5
	2020	-ve	12.738	23.771	0.033	2.876	0.055	100.376
			16:COM3	24:COM11	24:COM11	20:COM7	24:COM11	16:COM3
			-9.842	-34.170	-0.112	-1.758	-0.212	-88.570
			26:COM1	18:COM5	18:COM5	30:COM1	18:COM5	26:COM1
4303	2164	+ve	11.596	37.114	0.007	2.756	0.212	41.661
			20:COM7	16:COM3	24:COM11	24:COM1	16:COM3	24:COM1
			-1.627	-25.092	-0.198	-9.683	-0.126	-57.146
			30:COM1	26:COM1	18:COM5	18:COM5	26:COM1	18:COM5
	2165	-ve	11.596	34.502	0.007	2.756	0.030	4.770
			20:COM7	16:COM3	24:COM11	24:COM1	28:COM15	28:COM15
			-1.627	-27.052	-0.198	-9.683	-0.305	-38.635
			30:COM1	26:COM1	18:COM5	18:COM5	22:COM9	22:COM9
4304	2165	+ve	11.968	21.994	0.675	3.742	0.207	4.282
			20:COM7	24:COM11	16:COM3	28:COM15	28:COM15	28:COM15
			-3.659	-31.056	-0.408	-10.811	-0.412	-37.987
			30:COM1	18:COM5	26:COM1	22:COM9	22:COM9	22:COM9
	2166	-ve	11.968	20.035	0.675	3.742	0.870	52.041
			20:COM7	24:COM11	16:COM3	28:COM15	16:COM3	24:COM1
			-3.659	-33.669	-0.408	-10.811	-0.572	-64.324
			30:COM1	18:COM5	26:COM1	22:COM9	26:COM1	18:COM5
4305	2166	+ve	11.054	3.894	0.000	13.051	1.681	55.978
			20:COM7	24:COM11	-	16:COM3	16:COM3	24:COM1
			-2.624	-22.212	-1.741	-8.971	0.000	-64.719
			30:COM1	18:COM5	18:COM5	26:COM1	-	18:COM5
	2167	-ve	11.054	1.934	0.000	13.051	0.000	94.805
			20:COM7	24:COM11	-	16:COM3	-	16:COM3
			-2.624	-24.825	-1.741	-8.971	-1.613	-64.651
			30:COM1	18:COM5	18:COM5	26:COM1	18:COM5	26:COM1
4306	2167	+ve	18.034	0.000	4.707	24.947	2.493	98.146
			16:COM3	-	24:COM11	16:COM3	20:COM7	16:COM3
			-4.196	-34.250	-10.710	-7.875	-0.899	-64.119
			26:COM1	18:COM5	18:COM5	26:COM1	30:COM1	26:COM1
	2028	-ve	18.034	0.000	4.707	24.947	1.672	115.399
			16:COM3	-	24:COM11	16:COM3	24:COM11	16:COM3
			-4.196	-34.971	-10.710	-7.875	-3.208	-62.678
			26:COM1	18:COM5	18:COM5	26:COM1	18:COM5	26:COM1
4307	2168	+ve	10.552	29.804	0.111	5.863	0.196	27.705
			16:COM3	16:COM3	24:COM11	20:COM7	16:COM3	24:COM1
			-0.783	-1.008	-0.155	-1.514	-0.118	-26.797
			26:COM1	26:COM1	18:COM5	30:COM1	26:COM1	18:COM5
	2169	-ve	10.552	27.710	0.111	5.863	0.091	0.000
			16:COM3	16:COM3	24:COM11	20:COM7	24:COM11	-
			-0.783	-2.578	-0.155	-1.514	-0.093	-40.643
			26:COM1	26:COM1	18:COM5	30:COM1	18:COM5	22:COM9

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
4308	2169	+ve	7.427	13.988	0.213	4.746	0.631	0.000
			20:COM7	20:COM7	28:COM15	20:COM7	20:COM7	-
			0.000	-11.253	-0.614	-1.118	-0.206	-40.720
			-	30:COM17	22:COM9	30:COM17	30:COM17	22:COM9
	2170	-ve	7.427	11.895	0.213	4.746	0.189	0.000
			20:COM7	20:COM7	28:COM15	20:COM7	28:COM15	-
			0.000	-12.823	-0.614	-1.118	-0.492	-47.490
			-	30:COM17	22:COM9	30:COM17	22:COM9	22:COM9
4309	2170	+ve	9.049	6.642	1.070	1.959	0.225	0.000
			16:COM3	28:COM15	20:COM7	28:COM15	28:COM15	-
			-1.811	-26.902	-0.220	-3.539	-0.944	-47.599
			26:COM13	22:COM9	30:COM17	22:COM9	22:COM9	22:COM9
	2171	-ve	9.049	5.072	1.070	1.959	1.000	34.638
			16:COM3	28:COM15	20:COM7	28:COM15	20:COM7	28:COM15
			-1.811	-28.996	-0.220	-3.539	-0.176	-44.329
			26:COM13	22:COM9	30:COM17	22:COM9	30:COM17	22:COM9
4310	2171	+ve	13.731	0.000	1.877	1.413	0.784	34.332
			16:COM3	-	20:COM7	28:COM15	28:COM15	28:COM15
			-5.629	-44.408	-0.856	-9.046	-1.900	-44.577
			26:COM13	22:COM9	30:COM17	22:COM9	22:COM9	22:COM9
	2007	-ve	13.731	0.000	1.877	1.413	1.756	118.583
			16:COM3	-	20:COM7	28:COM15	20:COM7	20:COM7
			-5.629	-46.648	-0.856	-9.046	-0.889	-38.295
			26:COM13	22:COM9	30:COM17	22:COM9	30:COM17	30:COM17
4311	2173	+ve	11.181	14.443	0.859	5.966	0.364	15.701
			24:COM11	28:COM15	16:COM3	16:COM3	24:COM11	28:COM15
			-12.692	-16.924	-0.353	-3.089	-1.022	-36.963
			18:COM5	22:COM9	26:COM13	26:COM13	18:COM5	22:COM9
	2028	-ve	11.181	10.825	0.859	5.966	1.252	63.414
			24:COM11	28:COM15	16:COM3	16:COM3	16:COM3	20:COM7
			-12.692	-23.335	-0.353	-3.089	-0.571	-64.839
			18:COM5	22:COM9	26:COM13	26:COM13	26:COM13	30:COM17
4312	2174	+ve	12.323	23.800	0.354	2.031	0.000	14.653
			16:COM3	20:COM7	20:COM7	24:COM11	-	28:COM15
			-10.310	-9.590	0.000	-3.054	-0.615	-14.983
			26:COM13	30:COM17	-	18:COM5	22:COM9	22:COM9
	2173	-ve	12.323	17.388	0.354	2.031	0.369	16.296
			16:COM3	20:COM7	20:COM7	24:COM11	20:COM7	28:COM15
			-10.310	-13.208	0.000	-3.054	0.000	-40.960
			26:COM13	30:COM17	-	18:COM5	-	22:COM9
4313	2244	+ve	1.393	8.370	0.000	0.017	0.012	6.860
			16:COM3	35:CVOL4	-	28:COM15	20:COM7	35:CVOL4
			-2.460	0.000	-0.004	-0.080	0.000	0.000
			26:COM13	-	34:CVOL3	22:COM9	-	-
	2101	-ve	1.393	0.000	0.000	0.017	0.000	10.925
			16:COM3	-	-	28:COM15	-	34:CVOL3
			-2.460	-9.642	-0.004	-0.080	-0.013	0.000
			26:COM13	34:CVOL3	34:CVOL3	22:COM9	34:CVOL3	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
4314	2243	+ve	5.222	8.247	0.002	0.000	0.012	5.862
			35:CVOL4	35:CVOL4	28:COM15	-	20:COM7	35:CVOL4
			-0.738	0.000	-0.004	-0.082	-0.006	0.000
			26:COM13	-	22:COM9	34:CVOL3	30:COM17	-
	2102	-ve	5.222	0.000	0.002	0.000	0.005	10.970
			35:CVOL4	-	28:COM15	-	28:COM15	34:CVOL3
			-0.738	-9.819	-0.004	-0.082	-0.012	0.000
			26:COM13	34:CVOL3	22:COM9	34:CVOL3	22:COM9	-
4315	2242	+ve	7.928	8.277	0.002	0.005	0.007	5.537
			35:CVOL4	35:CVOL4	28:COM15	24:COM17	20:COM7	35:CVOL4
			0.000	0.000	-0.002	-0.049	-0.006	0.000
			-	-	22:COM9	18:COM5	30:COM17	-
	2103	-ve	7.928	0.000	0.002	0.005	0.005	10.584
			35:CVOL4	-	28:COM15	24:COM17	28:COM15	34:CVOL3
			0.000	-9.807	-0.002	-0.049	-0.007	0.000
			-	34:CVOL3	22:COM9	18:COM5	22:COM9	-
4316	2241	+ve	8.207	8.308	0.003	0.044	0.003	5.576
			35:CVOL4	35:CVOL4	20:COM7	20:COM7	28:COM15	35:CVOL4
			0.000	0.000	-0.001	-0.016	-0.009	0.000
			-	-	30:COM17	30:COM17	22:COM9	-
	2104	-ve	8.207	0.000	0.003	0.044	0.008	10.417
			35:CVOL4	-	20:COM7	20:COM7	20:COM7	34:CVOL3
			0.000	-9.772	-0.001	-0.016	-0.003	0.000
			-	34:CVOL3	30:COM17	30:COM17	30:COM17	-
4317	2240	+ve	5.876	8.315	0.004	0.084	0.001	5.931
			35:CVOL4	35:CVOL4	16:COM3	20:COM7	28:COM15	35:CVOL4
			0.000	0.000	-0.000	-0.000	-0.012	0.000
			-	-	26:COM13	30:COM17	22:COM9	-
	2105	-ve	5.876	0.000	0.004	0.084	0.012	10.586
			35:CVOL4	-	16:COM3	20:COM7	16:COM3	34:CVOL3
			0.000	-9.742	-0.000	-0.000	-0.000	0.000
			-	34:CVOL3	26:COM13	30:COM17	26:COM13	-
4318	2239	+ve	1.222	8.425	0.005	0.077	0.000	6.898
			16:COM3	35:CVOL4	20:COM7	20:COM7	28:COM15	35:CVOL4
			-1.615	0.000	0.000	0.000	-0.016	0.000
			26:COM13	-	-	-	22:COM9	-
	2106	-ve	1.222	0.000	0.005	0.077	0.016	10.605
			16:COM3	-	20:COM7	20:COM7	16:COM3	34:CVOL3
			-1.615	-9.581	0.000	0.000	0.000	0.000
			26:COM13	34:CVOL3	-	-	-	-
4319	2250	+ve	1.471	8.399	0.000	0.000	0.013	6.863
			16:COM3	35:CVOL4	-	-	16:COM3	35:CVOL4
			-2.035	0.000	-0.005	-0.087	0.000	0.000
			26:COM13	-	18:COM5	34:CVOL3	-	-
	2107	-ve	1.471	0.000	0.000	0.000	0.000	10.746
			16:COM3	-	-	-	-	34:CVOL3
			-2.035	-9.610	-0.005	-0.087	-0.014	0.000
			26:COM13	34:CVOL3	18:COM5	34:CVOL3	18:COM5	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
4320	2249	+ve	5.713	8.297	0.000	0.000	0.012	5.931
			35:CVOL4	35:CVOL4	-	-	20:COM7	35:CVOL4
			-0.414	0.000	-0.004	-0.091	0.000	0.000
			26:COM1	-	22:COM9	34:CVOL3	-	-
	2108	-ve	5.713	0.000	0.000	0.000	0.000	10.729
			35:CVOL4	-	-	-	28:COM15	34:CVOL3
			-0.414	-9.765	-0.004	-0.091	-0.012	0.000
			26:COM1	34:CVOL3	22:COM9	34:CVOL3	22:COM9	-
4321	2248	+ve	8.034	8.308	0.000	0.002	0.007	5.622
			35:CVOL4	35:CVOL4	28:COM15	28:COM15	20:COM7	35:CVOL4
			0.000	0.000	-0.002	-0.044	-0.001	0.000
			-	-	22:COM9	22:COM9	30:COM17	-
	2109	-ve	8.034	0.000	0.000	0.002	0.001	10.522
			35:CVOL4	-	28:COM15	28:COM15	28:COM15	34:CVOL3
			0.000	-9.782	-0.002	-0.044	-0.007	0.000
			-	34:CVOL3	22:COM9	22:COM9	22:COM9	-
4322	2247	+ve	7.779	8.280	0.002	0.051	0.002	5.577
			35:CVOL4	35:CVOL4	20:COM7	20:COM7	28:COM15	35:CVOL4
			0.000	0.000	-0.001	-0.006	-0.005	0.000
			-	-	30:COM17	30:COM17	22:COM9	-
	2110	-ve	7.779	0.000	0.002	0.051	0.005	10.691
			35:CVOL4	-	20:COM7	20:COM7	20:COM7	34:CVOL3
			0.000	-9.820	-0.001	-0.006	-0.001	0.000
			-	34:CVOL3	30:COM17	30:COM17	30:COM17	-
4323	2246	+ve	5.147	8.225	0.003	0.100	0.000	5.809
			35:CVOL4	35:CVOL4	34:CVOL3	34:CVOL3	-	35:CVOL4
			-0.023	0.000	0.000	0.000	-0.010	0.000
			26:COM1	-	-	-	22:COM9	-
	2111	-ve	5.147	0.000	0.003	0.100	0.010	11.151
			35:CVOL4	-	34:CVOL3	34:CVOL3	34:CVOL3	34:CVOL3
			-0.023	-9.862	0.000	0.000	0.000	0.000
			26:COM1	34:CVOL3	-	-	-	-
4324	2245	+ve	0.876	8.326	0.005	0.108	0.000	6.732
			20:COM7	35:CVOL4	20:COM7	16:COM3	28:COM15	35:CVOL4
			-1.820	0.000	0.000	0.000	-0.017	0.000
			32:CVOL1	-	-	-	22:COM9	-
	2112	-ve	0.876	0.000	0.005	0.108	0.016	11.153
			20:COM7	-	20:COM7	16:COM3	20:COM7	34:CVOL3
			-1.820	-9.707	0.000	0.000	0.000	0.000
			32:CVOL1	34:CVOL3	-	-	-	-
4325	2118	+ve	8.629	7.284	0.001	0.020	0.007	12.356
			28:COM15	34:CVOL3	24:COM11	28:COM15	16:COM3	20:COM7
			-15.627	0.000	-0.002	-0.031	-0.005	0.000
			22:COM9	-	18:COM5	22:COM9	26:COM1	-
	2212	-ve	8.629	0.000	0.001	0.020	0.004	6.335
			28:COM15	-	24:COM11	28:COM15	28:COM15	16:COM3
			-15.627	-6.125	-0.002	-0.031	-0.009	0.000
			22:COM9	35:CVOL4	18:COM5	22:COM9	22:COM9	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
4326	2119	+ve	7.480	7.024	0.000	0.004	0.012	9.726
			20:COM7	34:CVOL3	28:COM15	28:COM15	20:COM7	20:COM7
			-6.702	0.000	-0.004	-0.041	-0.002	0.000
			30:COM17	-	22:COM9	22:COM9	30:COM17	-
	2211	-ve	7.480	0.000	0.000	0.004	0.001	6.088
			20:COM7	-	28:COM15	28:COM15	28:COM15	35:CVOL4
			-6.702	-6.341	-0.004	-0.041	-0.012	0.000
			30:COM17	35:CVOL4	22:COM9	22:COM9	22:COM9	-
4327	2120	+ve	7.224	6.859	0.000	0.008	0.009	7.750
			20:COM7	34:CVOL3	28:COM15	28:COM15	20:COM7	20:COM7
			-2.511	0.000	-0.003	-0.030	-0.000	0.000
			30:COM17	-	22:COM9	22:COM9	30:COM17	-
	2210	-ve	7.224	0.000	0.000	0.008	0.000	6.151
			20:COM7	-	28:COM15	28:COM15	28:COM15	35:CVOL4
			-2.511	-6.477	-0.003	-0.030	-0.009	0.000
			30:COM17	35:CVOL4	22:COM9	22:COM9	22:COM9	-
4328	2121	+ve	5.758	6.731	0.000	0.018	0.006	7.042
			20:COM7	34:CVOL3	28:COM15	20:COM7	20:COM7	34:CVOL3
			-0.869	0.000	-0.002	-0.007	-0.000	0.000
			30:COM17	-	22:COM9	30:COM17	30:COM17	-
	2209	-ve	5.758	0.000	0.000	0.018	0.000	6.541
			20:COM7	-	28:COM15	20:COM7	28:COM15	20:COM7
			-0.869	-6.592	-0.002	-0.007	-0.006	0.000
			30:COM17	35:CVOL4	22:COM9	30:COM17	22:COM9	-
4329	2122	+ve	2.756	6.629	0.000	0.022	0.005	7.004
			16:COM3	34:CVOL3	28:COM15	16:COM3	20:COM7	34:CVOL3
			-0.857	0.000	-0.001	0.000	-0.001	0.000
			26:COM13	-	22:COM9	-	30:COM17	-
	2208	-ve	2.756	0.000	0.000	0.022	0.002	7.655
			16:COM3	-	28:COM15	16:COM3	28:COM15	20:COM7
			-0.857	-6.684	-0.001	0.000	-0.005	0.000
			26:COM13	35:CVOL4	22:COM9	-	22:COM9	-
4330	2113	+ve	2.903	6.568	0.000	0.000	0.007	7.247
			16:COM3	35:CVOL4	28:COM15	-	20:COM7	20:COM7
			-0.124	0.000	-0.002	-0.044	-0.001	0.000
			26:COM13	-	22:COM9	22:COM9	30:COM17	-
	2217	-ve	2.903	0.000	0.000	0.000	0.000	7.940
			16:COM3	-	28:COM15	-	28:COM15	20:COM7
			-0.124	-6.756	-0.002	-0.044	-0.007	0.000
			26:COM13	34:CVOL3	22:COM9	22:COM9	22:COM9	-
4331	2114	+ve	5.255	6.619	0.000	0.000	0.006	6.625
			35:CVOL4	35:CVOL4	28:COM15	-	20:COM7	20:COM7
			0.000	0.000	-0.002	-0.038	-0.000	0.000
			-	-	22:COM9	18:COM5	30:COM17	-
	2216	-ve	5.255	0.000	0.000	0.000	0.000	7.009
			35:CVOL4	-	28:COM15	-	28:COM15	20:COM7
			0.000	-6.701	-0.002	-0.038	-0.006	0.000
			-	34:CVOL3	22:COM9	18:COM5	22:COM9	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
4332	2115	+ve	6.254	6.657	0.000	0.017	0.003	6.467
			35:CVOL4	35:CVOL4	28:COM15	16:COM3	20:COM7	20:COM7
			0.000	0.000	-0.001	-0.011	-0.001	0.000
			-	-	22:COM9	26:COM13	30:COM17	-
	2215	-ve	6.254	0.000	0.000	0.017	0.001	6.566
			35:CVOL4	-	28:COM15	16:COM3	28:COM15	20:COM7
			0.000	-6.661	-0.001	-0.011	-0.003	0.000
			-	34:CVOL3	22:COM9	26:COM13	22:COM9	-
4333	2116	+ve	5.332	6.620	0.001	0.045	0.002	6.638
			34:CVOL3	35:CVOL4	16:COM3	20:COM7	24:COM11	20:COM7
			0.000	0.000	-0.000	0.000	-0.003	0.000
			-	-	26:COM13	-	18:COM5	-
	2214	-ve	5.332	0.000	0.001	0.045	0.003	6.982
			34:CVOL3	-	16:COM3	20:COM7	16:COM3	20:COM7
			0.000	-6.700	-0.000	0.000	-0.001	0.000
			-	34:CVOL3	26:COM13	-	26:COM13	-
4334	2117	+ve	2.984	6.571	0.001	0.047	0.003	7.283
			16:COM3	35:CVOL4	20:COM7	20:COM7	28:COM15	20:COM7
			0.000	0.000	-0.001	0.000	-0.003	0.000
			-	-	30:COM17	-	22:COM9	-
	2213	-ve	2.984	0.000	0.001	0.047	0.004	7.909
			16:COM3	-	20:COM7	20:COM7	20:COM7	20:COM7
			0.000	-6.751	-0.001	0.000	-0.002	0.000
			-	34:CVOL3	30:COM17	-	30:COM17	-
4335	2123	+ve	3.023	6.573	0.001	0.000	0.004	7.250
			16:COM3	35:CVOL4	28:COM15	-	20:COM7	20:COM7
			-0.115	0.000	-0.001	-0.042	-0.003	0.000
			26:COM13	-	22:COM9	22:COM9	30:COM17	-
	2222	-ve	3.023	0.000	0.001	0.000	0.002	7.903
			16:COM3	-	28:COM15	-	28:COM15	20:COM7
			-0.115	-6.750	-0.001	-0.042	-0.005	0.000
			26:COM13	34:CVOL3	22:COM9	22:COM9	22:COM9	-
4336	2124	+ve	5.254	6.619	0.000	0.000	0.004	6.587
			35:CVOL4	35:CVOL4	28:COM15	-	20:COM7	20:COM7
			0.000	0.000	-0.001	-0.040	-0.001	0.000
			-	-	22:COM9	18:COM5	30:COM17	-
	2221	-ve	5.254	0.000	0.000	0.000	0.000	6.972
			35:CVOL4	-	28:COM15	-	28:COM15	20:COM7
			0.000	-6.700	-0.001	-0.040	-0.004	0.000
			-	34:CVOL3	22:COM9	18:COM5	22:COM9	-
4337	2125	+ve	6.248	6.659	0.001	0.014	0.002	6.407
			35:CVOL4	35:CVOL4	28:COM15	24:COM17	20:COM7	20:COM7
			0.000	0.000	-0.001	-0.013	-0.002	0.000
			-	-	22:COM9	18:COM5	30:COM17	-
	2220	-ve	6.248	0.000	0.001	0.014	0.002	6.502
			35:CVOL4	-	28:COM15	24:COM17	28:COM15	20:COM7
			0.000	-6.659	-0.001	-0.013	-0.002	0.000
			-	34:CVOL3	22:COM9	18:COM5	22:COM9	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
4338	2126	+ve	5.296	6.624	0.001	0.044	0.001	6.551
			35:CVOL4	35:CVOL4	20:COM7	20:COM7	28:COM15	20:COM7
			0.000	0.000	-0.000	0.000	-0.005	0.000
			-	-	30:COM17	-	22:COM9	-
	2219	-ve	5.296	0.000	0.001	0.044	0.005	6.868
			35:CVOL4	-	20:COM7	20:COM7	20:COM7	20:COM7
			0.000	-6.694	-0.000	0.000	-0.001	0.000
			-	34:CVOL3	30:COM17	-	30:COM17	-
4339	2127	+ve	2.801	6.576	0.001	0.048	0.001	7.138
			16:COM3	35:CVOL4	20:COM7	20:COM7	28:COM15	20:COM7
			-0.051	0.000	-0.000	0.000	-0.005	0.000
			26:COM13	-	30:COM17	-	22:COM9	-
	2218	-ve	2.801	0.000	0.001	0.048	0.005	7.738
			16:COM3	-	20:COM7	20:COM7	20:COM7	20:COM7
			-0.051	-6.745	-0.000	0.000	-0.000	0.000
			26:COM13	34:CVOL3	30:COM17	-	30:COM17	-
4340	2128	+ve	2.999	6.604	0.002	0.003	0.007	6.891
			16:COM3	34:CVOL3	28:COM15	28:COM15	28:COM15	34:CVOL3
			-0.750	0.000	-0.002	-0.042	-0.006	0.000
			26:COM13	-	22:COM9	22:COM9	22:COM9	-
	2227	-ve	2.999	0.000	0.002	0.003	0.007	7.532
			16:COM3	-	28:COM15	28:COM15	28:COM15	20:COM7
			-0.750	-6.710	-0.002	-0.042	-0.007	0.000
			26:COM13	35:CVOL4	22:COM9	22:COM9	22:COM9	-
4341	2129	+ve	6.250	6.677	0.002	0.019	0.005	6.776
			20:COM7	34:CVOL3	20:COM7	28:COM15	28:COM15	34:CVOL3
			-0.474	0.000	-0.002	-0.044	-0.006	0.000
			30:COM17	-	30:COM17	22:COM9	22:COM9	-
	2226	-ve	6.250	0.000	0.002	0.019	0.006	6.634
			20:COM7	-	20:COM7	28:COM15	20:COM7	34:CVOL3
			-0.474	-6.646	-0.002	-0.044	-0.006	0.000
			30:COM17	35:CVOL4	30:COM17	22:COM9	30:COM17	-
4342	2130	+ve	7.797	6.767	0.003	0.040	0.005	7.145
			20:COM7	34:CVOL3	20:COM7	20:COM7	28:COM15	20:COM7
			-1.383	0.000	-0.001	-0.024	-0.009	0.000
			30:COM17	-	30:COM17	30:COM17	22:COM9	-
	2225	-ve	7.797	0.000	0.003	0.040	0.008	6.284
			20:COM7	-	20:COM7	20:COM7	20:COM7	34:CVOL3
			-1.383	-6.570	-0.001	-0.024	-0.004	0.000
			30:COM17	35:CVOL4	30:COM17	30:COM17	30:COM17	-
4343	2131	+ve	8.315	6.850	0.003	0.047	0.004	8.686
			20:COM7	34:CVOL3	20:COM7	20:COM7	28:COM15	20:COM7
			-4.447	0.000	-0.001	-0.001	-0.011	0.000
			30:COM17	-	30:COM17	30:COM17	22:COM9	-
	2224	-ve	8.315	0.000	0.003	0.047	0.010	6.380
			20:COM7	-	20:COM7	20:COM7	20:COM7	35:CVOL4
			-4.447	-6.518	-0.001	-0.001	-0.003	0.000
			30:COM17	35:CVOL4	30:COM17	30:COM17	30:COM17	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
4344	2132	+ve	8.689	6.970	0.002	0.035	0.001	10.885
			28:COM15	34:CVOL3	16:COM3	16:COM3	28:COM15	20:COM7
			-10.389	0.000	-0.000	0.000	-0.007	0.000
			22:COM9	-	26:COM13	-	22:COM9	-
	2223	-ve	8.689	0.000	0.002	0.035	0.007	6.857
			28:COM15	-	16:COM3	16:COM3	16:COM3	16:COM3
			-10.389	-6.444	-0.000	0.000	-0.000	0.000
			22:COM9	35:CVOL4	26:COM13	-	26:COM13	-
4345	2233	+ve	0.000	5.846	0.008	0.185	0.002	7.022
			-	34:CVOL3	20:COM7	20:COM7	28:COM15	20:COM7
			-5.349	0.000	0.000	-0.013	-0.020	0.000
			18:COM5	-	-	30:COM17	22:COM9	-
	2133	-ve	0.000	0.000	0.008	0.185	0.026	5.468
			-	-	20:COM7	20:COM7	20:COM7	20:COM7
			-5.349	-5.377	0.000	-0.013	0.000	0.000
			18:COM5	35:CVOL4	-	30:COM17	-	-
4346	2232	+ve	0.660	4.988	0.019	0.316	0.039	4.492
			28:COM15	34:CVOL3	20:COM7	20:COM7	28:COM15	34:CVOL3
			-8.354	0.000	-0.013	-0.063	-0.055	0.000
			22:COM9	-	30:COM17	30:COM17	22:COM9	-
	2029	-ve	0.660	0.000	0.019	0.316	0.054	8.040
			28:COM15	-	20:COM7	20:COM7	20:COM7	35:CVOL4
			-8.354	-6.241	-0.013	-0.063	-0.033	0.000
			22:COM9	35:CVOL4	30:COM17	30:COM17	30:COM17	-
4347	2231	+ve	0.273	4.723	0.020	0.284	0.052	4.559
			28:COM15	20:COM7	20:COM7	20:COM7	28:COM15	20:COM7
			-10.544	0.000	-0.016	-0.141	-0.061	-1.520
			22:COM9	-	30:COM17	30:COM17	22:COM9	30:COM17
	2135	-ve	0.273	0.000	0.020	0.284	0.052	13.443
			28:COM15	-	20:COM7	20:COM7	20:COM7	20:COM7
			-10.544	-7.388	-0.016	-0.141	-0.039	0.000
			22:COM9	22:COM9	30:COM17	30:COM17	30:COM17	-
4348	2230	+ve	0.000	4.879	0.002	0.020	0.031	5.361
			-	20:COM7	24:COM11	24:COM11	16:COM3	20:COM7
			-14.328	0.000	-0.010	-0.115	-0.006	-2.841
			18:COM5	-	18:COM5	18:COM5	26:COM13	30:COM17
	2134	-ve	0.000	0.000	0.002	0.020	0.006	15.956
			-	-	24:COM11	24:COM11	24:COM11	20:COM7
			-14.328	-8.086	-0.010	-0.115	-0.025	0.000
			18:COM5	22:COM9	18:COM5	18:COM5	18:COM5	-
4349	2229	+ve	1.371	8.126	0.263	3.219	1.247	20.171
			16:COM3	28:COM15	24:COM11	24:COM11	16:COM3	28:COM15
			-0.833	-11.220	-0.381	-11.154	-0.957	-17.909
			26:COM13	22:COM9	18:COM5	18:COM5	26:COM13	22:COM9
	2137	-ve	1.371	0.000	0.263	3.219	0.559	90.256
			16:COM3	-	24:COM11	24:COM11	24:COM11	20:COM7
			-0.833	-26.515	-0.381	-11.154	-0.947	0.000
			26:COM13	22:COM9	18:COM5	18:COM5	18:COM5	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
4350	2228	+ve	0.000	5.475	0.005	0.053	0.029	6.098
			-	35:CVOL4	24:COM11	24:COM11	16:COM3	20:COM7
			-10.033	0.000	-0.009	-0.218	-0.018	0.000
			18:COM5	-	18:COM5	18:COM5	26:COM13	-
	2136	-ve	0.000	0.000	0.005	0.053	0.014	8.479
			-	-	24:COM11	24:COM11	24:COM11	20:COM7
			-10.033	-6.259	-0.009	-0.218	-0.027	0.000
			18:COM5	34:CVOL3	18:COM5	18:COM5	18:COM5	-
4351	2133	+ve	3.715	10.379	0.017	0.000	0.015	29.744
			28:COM15	20:COM7	16:COM3	-	24:COM11	20:COM7
			-9.023	0.000	-0.009	-0.401	-0.039	-10.815
			22:COM9	-	26:COM13	22:COM9	18:COM5	30:COM17
	2297	-ve	3.715	0.963	0.017	0.000	0.039	7.274
			28:COM15	28:COM15	16:COM3	-	16:COM3	28:COM15
			-9.023	-3.561	-0.009	-0.401	-0.026	-13.057
			22:COM9	22:COM9	26:COM13	22:COM9	26:COM13	22:COM9
4355	2137	+ve	0.568	19.707	1.328	12.983	2.281	78.032
			24:COM11	16:COM3	20:COM7	16:COM3	28:COM15	16:COM3
			-2.257	0.000	-1.191	-3.096	-2.549	0.000
			18:COM5	-	30:COM17	26:COM13	22:COM9	-
	2305	-ve	0.568	5.992	1.328	12.983	3.450	23.926
			24:COM11	16:COM3	20:COM7	16:COM3	20:COM7	35:CVOL4
			-2.257	-1.988	-1.191	-3.096	-3.096	0.000
			18:COM5	26:COM13	30:COM17	26:COM13	30:COM17	-
4356	2136	+ve	0.677	9.882	0.028	0.612	0.053	20.356
			28:COM15	34:CVOL3	28:COM15	16:COM3	20:COM7	34:CVOL3
			-3.685	0.000	-0.031	0.000	-0.051	0.000
			22:COM9	-	22:COM9	-	30:COM17	-
	2304	-ve	0.677	0.011	0.028	0.612	0.070	2.292
			28:COM15	24:COM11	28:COM15	16:COM3	28:COM15	16:COM3
			-3.685	-1.967	-0.031	0.000	-0.081	0.000
			22:COM9	18:COM5	22:COM9	-	22:COM9	-
4357	2307	+ve	0.000	0.917	0.000	0.060	0.070	0.000
			-	16:COM3	-	28:COM15	20:COM7	-
			-8.528	-0.036	-0.044	-0.113	0.000	-0.875
			18:COM5	26:COM13	22:COM9	22:COM9	-	18:COM5
	2233	-ve	0.000	0.000	0.000	0.060	0.000	6.125
			-	-	-	28:COM15	-	16:COM3
			-8.528	-5.206	-0.044	-0.113	-0.064	0.000
			18:COM5	35:CVOL4	22:COM9	22:COM9	22:COM9	-
4358	2308	+ve	0.000	1.432	0.020	0.069	0.079	0.000
			-	16:COM3	28:COM15	28:COM15	20:COM7	-
			-4.434	0.000	-0.052	-0.080	-0.028	-0.604
			18:COM5	-	22:COM9	22:COM9	30:COM17	18:COM5
	2232	-ve	0.000	0.000	0.020	0.069	0.032	4.664
			-	-	28:COM15	28:COM15	28:COM15	16:COM3
			-4.434	-4.624	-0.052	-0.080	-0.081	0.000
			18:COM5	35:CVOL4	22:COM9	22:COM9	22:COM9	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
4359	2309	+ve	0.000	1.801	0.033	0.059	0.066	0.099
			-	34:CVOL3	28:COM15	20:COM7	20:COM7	28:COM15
			-1.877	0.000	-0.044	-0.029	-0.048	-0.364
			18:COM5	-	22:COM9	30:COM17	30:COM17	22:COM9
	2231	-ve	0.000	0.000	0.033	0.059	0.053	3.608
			-	-	28:COM15	20:COM7	28:COM15	35:CVOL4
			-1.877	-4.234	-0.044	-0.029	-0.069	0.000
			18:COM5	35:CVOL4	22:COM9	30:COM17	22:COM9	-
4360	2310	+ve	0.000	1.951	0.007	0.051	0.025	0.145
			-	35:CVOL4	24:COM11	16:COM3	16:COM3	20:COM7
			-1.821	0.000	-0.018	-0.018	-0.009	-0.206
			22:COM9	-	18:COM5	26:COM13	26:COM13	30:COM17
	2230	-ve	0.000	0.000	0.007	0.051	0.012	3.257
			-	-	24:COM11	16:COM3	24:COM11	20:COM7
			-1.821	-4.073	-0.018	-0.018	-0.029	0.000
			22:COM9	34:CVOL3	18:COM5	26:COM13	18:COM5	-
4361	2311	+ve	0.974	5.361	0.689	4.282	0.971	0.000
			20:COM7	20:COM7	24:COM11	28:COM15	16:COM3	-
			-0.131	-4.117	-0.786	-4.537	-0.848	-0.453
			30:COM17	30:COM17	18:COM5	22:COM9	26:COM13	18:COM5
	2229	-ve	0.974	0.000	0.689	4.282	1.257	23.024
			20:COM7	-	24:COM11	28:COM15	24:COM11	20:COM7
			-0.131	-11.721	-0.786	-4.537	-1.431	-6.988
			30:COM17	22:COM9	18:COM5	22:COM9	18:COM5	30:COM17
4362	2312	+ve	0.000	1.640	0.023	0.073	0.031	0.497
			-	20:COM7	24:COM11	24:COM11	16:COM3	28:COM15
			-6.766	-0.271	-0.021	-0.130	-0.033	-1.325
			22:COM9	30:COM17	18:COM5	18:COM5	26:COM13	22:COM9
	2228	-ve	0.000	0.000	0.023	0.073	0.037	6.082
			-	-	24:COM11	24:COM11	16:COM3	20:COM7
			-6.766	-5.070	-0.021	-0.130	-0.033	0.000
			22:COM9	22:COM9	18:COM5	18:COM5	26:COM13	-
4363	2108	+ve	0.105	8.907	0.003	0.128	0.013	10.884
			24:COM11	34:CVOL3	28:COM15	35:CVOL4	20:COM7	34:CVOL3
			-0.769	0.000	-0.006	-0.042	-0.006	0.000
			18:COM5	-	22:COM9	26:COM13	30:COM17	-
	2293	-ve	0.105	0.000	0.003	0.128	0.007	0.410
			24:COM11	-	28:COM15	35:CVOL4	28:COM15	16:COM3
			-0.769	-4.354	-0.006	-0.042	-0.013	-0.091
			18:COM5	35:CVOL4	22:COM9	26:COM13	22:COM9	26:COM13
4364	2109	+ve	0.333	8.708	0.003	0.091	0.012	10.049
			24:COM11	34:CVOL3	28:COM15	24:COM11	20:COM7	34:CVOL3
			-0.504	0.000	-0.006	-0.115	-0.006	0.000
			18:COM5	-	22:COM9	18:COM5	30:COM17	-
	2321	-ve	0.333	0.000	0.003	0.091	0.007	0.377
			24:COM11	-	28:COM15	24:COM11	28:COM15	35:CVOL4
			-0.504	-4.770	-0.006	-0.115	-0.014	0.000
			18:COM5	35:CVOL4	22:COM9	18:COM5	22:COM9	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
4365	2110	+ve	0.386	9.000	0.003	0.075	0.012	11.161
			24:COM1	34:CVOL3	28:COM1	24:COM1	20:COM7	34:CVOL3
			-0.604	0.000	-0.007	-0.198	-0.005	0.000
			18:COM5	-	22:COM9	18:COM5	30:COM1	-
	2322	-ve	0.386	0.000	0.003	0.075	0.006	0.329
			24:COM1	-	28:COM1	24:COM1	28:COM1	20:COM7
			-0.604	-4.543	-0.007	-0.198	-0.015	-0.102
			18:COM5	35:CVOL4	22:COM9	18:COM5	22:COM9	30:COM1
4366	2111	+ve	0.374	9.747	0.003	0.096	0.013	13.912
			24:COM1	34:CVOL3	24:COM1	28:COM1	16:COM3	34:CVOL3
			-1.179	0.000	-0.007	-0.236	-0.006	0.000
			18:COM5	-	18:COM5	22:COM9	26:COM1	-
	2323	-ve	0.374	0.000	0.003	0.096	0.006	0.687
			24:COM1	-	24:COM1	28:COM1	24:COM1	28:COM1
			-1.179	-3.695	-0.007	-0.236	-0.017	-0.882
			18:COM5	35:CVOL4	18:COM5	22:COM9	18:COM5	22:COM9
4367	2112	+ve	0.341	10.899	0.008	0.233	0.015	17.272
			24:COM1	34:CVOL3	20:COM7	28:COM1	28:COM1	34:CVOL3
			-4.314	0.000	-0.008	-0.193	-0.017	0.000
			18:COM5	-	30:COM1	22:COM9	22:COM9	-
	2324	-ve	0.341	1.086	0.008	0.233	0.015	8.159
			24:COM1	28:COM1	20:COM7	28:COM1	20:COM7	28:COM1
			-4.314	-3.220	-0.008	-0.193	-0.018	-9.807
			18:COM5	22:COM9	30:COM1	22:COM9	30:COM1	22:COM9
4368	2101	+ve	0.199	9.769	0.002	0.174	0.027	14.452
			24:COM1	34:CVOL3	24:COM1	16:COM3	16:COM3	34:CVOL3
			-2.522	0.000	-0.013	-0.130	-0.001	0.000
			18:COM5	-	18:COM5	26:COM1	26:COM1	-
	2291	-ve	0.199	0.000	0.002	0.174	0.006	1.368
			24:COM1	-	24:COM1	16:COM3	24:COM1	16:COM3
			-2.522	-3.440	-0.013	-0.130	-0.026	-0.958
			18:COM5	35:CVOL4	18:COM5	26:COM1	18:COM5	26:COM1
4369	2102	+ve	0.403	9.378	0.007	0.175	0.012	12.410
			24:COM1	34:CVOL3	20:COM7	35:CVOL4	28:COM1	34:CVOL3
			-0.976	0.000	-0.006	0.000	-0.014	0.000
			18:COM5	-	30:COM1	-	22:COM9	-
	2290	-ve	0.403	0.000	0.007	0.175	0.017	0.341
			24:COM1	-	20:COM7	35:CVOL4	20:COM7	16:COM3
			-0.976	-4.101	-0.006	0.000	-0.013	-0.338
			18:COM5	35:CVOL4	30:COM1	-	30:COM1	26:COM1
4370	2103	+ve	0.486	8.811	0.007	0.154	0.010	10.257
			24:COM1	34:CVOL3	20:COM7	16:COM3	28:COM1	34:CVOL3
			-0.776	0.000	-0.005	-0.056	-0.014	0.000
			18:COM5	-	30:COM1	26:COM1	22:COM9	-
	2289	-ve	0.486	0.000	0.007	0.154	0.017	0.324
			24:COM1	-	20:COM7	16:COM3	20:COM7	35:CVOL4
			-0.776	-4.783	-0.005	-0.056	-0.012	-0.010
			18:COM5	35:CVOL4	30:COM1	26:COM1	30:COM1	26:COM1

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
4371	2107	+ve	0.000	9.260	0.000	0.149	0.018	13.168
			-	34:CVOL3	-	20:COM7	16:COM3	34:CVOL3
			-3.192	0.000	-0.008	-0.045	0.000	0.000
			22:COM9	-	18:COM5	30:COM1	-	-
	2294	-ve	0.000	0.000	0.000	0.149	0.001	1.158
			-	-	-	20:COM7	24:COM1	16:COM3
			-3.192	-3.699	-0.008	-0.045	-0.015	-0.017
			22:COM9	35:CVOL4	18:COM5	30:COM1	18:COM5	26:COM1
4372	2256	+ve	2.887	5.915	0.022	0.354	0.050	6.695
			24:COM1	16:COM3	16:COM3	16:COM3	24:COM1	16:COM3
			-5.358	0.000	-0.015	-0.159	-0.070	-0.961
			18:COM5	-	26:COM1	26:COM1	18:COM5	26:COM1
	2150	-ve	2.887	0.000	0.022	0.354	0.062	11.003
			24:COM1	-	16:COM3	16:COM3	16:COM3	16:COM3
			-5.358	-6.923	-0.015	-0.159	-0.042	-0.498
			18:COM5	18:COM5	26:COM1	26:COM1	26:COM1	26:COM1
4373	2255	+ve	4.517	6.039	0.019	0.250	0.021	6.836
			16:COM3	16:COM3	16:COM3	16:COM3	24:COM1	16:COM3
			-5.967	-0.095	-0.007	-0.049	-0.058	-5.019
			26:COM1	26:COM1	26:COM1	26:COM1	18:COM5	26:COM1
	2149	-ve	4.517	0.000	0.019	0.250	0.053	16.192
			16:COM3	-	16:COM3	16:COM3	16:COM3	16:COM3
			-5.967	-8.596	-0.007	-0.049	-0.017	-2.366
			26:COM1	18:COM5	26:COM1	26:COM1	26:COM1	26:COM1
4374	2254	+ve	3.909	4.966	0.019	0.192	0.034	3.949
			16:COM3	16:COM3	16:COM3	16:COM3	24:COM1	24:COM1
			-4.201	-0.026	-0.011	-0.117	-0.059	-4.715
			26:COM1	26:COM1	26:COM1	26:COM1	18:COM5	18:COM5
	2148	-ve	3.909	0.000	0.019	0.192	0.051	15.802
			16:COM3	-	16:COM3	16:COM3	16:COM3	16:COM3
			-4.201	-8.544	-0.011	-0.117	-0.027	-0.017
			26:COM1	18:COM5	26:COM1	26:COM1	26:COM1	26:COM1
4375	2253	+ve	4.115	3.948	0.011	0.128	0.027	1.401
			16:COM3	16:COM3	16:COM3	24:COM1	24:COM1	24:COM1
			-4.317	0.000	-0.010	-0.203	-0.031	-2.495
			26:COM1	-	26:COM1	18:COM5	18:COM5	18:COM5
	2152	-ve	4.115	0.000	0.011	0.128	0.030	13.140
			16:COM3	-	16:COM3	24:COM1	16:COM3	16:COM3
			-4.317	-7.661	-0.010	-0.203	-0.027	0.000
			26:COM1	18:COM5	26:COM1	18:COM5	26:COM1	-
4376	2252	+ve	4.072	4.068	0.011	0.058	0.044	1.031
			16:COM3	34:CVOL3	24:COM1	24:COM1	16:COM3	16:COM3
			-4.273	0.000	-0.015	-0.250	-0.031	0.000
			26:COM1	-	18:COM5	18:COM5	26:COM1	-
	2151	-ve	4.072	0.000	0.011	0.058	0.030	9.502
			16:COM3	-	24:COM1	24:COM1	24:COM1	16:COM3
			-4.273	-7.082	-0.015	-0.250	-0.043	0.000
			26:COM1	35:CVOL4	18:COM5	18:COM5	18:COM5	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
4377	2251	+ve	0.445	4.938	0.005	0.002	0.042	4.332
			24:COM1	34:CVOL3	24:COM1	24:COM1	16:COM3	16:COM3
			-1.911	0.000	-0.013	-0.205	-0.020	0.000
			18:COM5	-	18:COM5	18:COM5	26:COM1	-
	2013	-ve	0.445	0.000	0.005	0.002	0.010	7.519
			24:COM1	-	24:COM1	24:COM1	24:COM1	16:COM3
			-1.911	-6.212	-0.013	-0.205	-0.033	0.000
			18:COM5	35:CVOL4	18:COM5	18:COM5	18:COM5	-
4378	2318	+ve	1.090	1.726	0.087	0.050	0.011	0.361
			16:COM3	16:COM3	16:COM3	16:COM3	24:COM1	16:COM3
			-0.192	0.000	-0.030	-0.035	-0.046	-0.186
			26:COM1	-	26:COM1	26:COM1	18:COM5	26:COM1
	2253	-ve	1.090	0.000	0.087	0.050	0.063	0.422
			16:COM3	-	16:COM3	16:COM3	16:COM3	24:COM1
			-0.192	-1.407	-0.030	-0.035	-0.027	-0.446
			26:COM1	18:COM5	26:COM1	26:COM1	26:COM1	18:COM5
4379	2319	+ve	0.254	1.556	0.186	0.086	0.057	0.217
			24:COM1	16:COM3	16:COM3	16:COM3	24:COM1	16:COM3
			-1.311	-0.681	-0.112	-0.052	-0.106	-0.279
			18:COM5	26:COM1	26:COM1	26:COM1	18:COM5	26:COM1
	2252	-ve	0.254	0.000	0.186	0.086	0.126	1.510
			24:COM1	-	16:COM3	16:COM3	16:COM3	16:COM3
			-1.311	-2.492	-0.112	-0.052	-0.083	-0.531
			18:COM5	18:COM5	26:COM1	26:COM1	26:COM1	26:COM1
4380	2320	+ve	0.372	1.098	0.115	0.134	0.027	0.332
			24:COM1	24:COM1	16:COM3	16:COM3	24:COM1	24:COM1
			-4.464	-2.400	-0.072	-0.085	-0.059	-1.090
			18:COM5	18:COM5	26:COM1	26:COM1	18:COM5	18:COM5
	2251	-ve	0.372	0.000	0.115	0.134	0.085	3.267
			24:COM1	-	16:COM3	16:COM3	16:COM3	16:COM3
			-4.464	-4.566	-0.072	-0.085	-0.063	-0.262
			18:COM5	18:COM5	26:COM1	26:COM1	26:COM1	26:COM1
4391	2013	+ve	7.117	12.425	0.016	0.317	0.035	28.285
			28:COM1	20:COM7	20:COM7	16:COM3	28:COM1	20:COM7
			-9.447	-3.095	-0.015	-0.083	-0.036	-18.965
			22:COM9	30:COM1	30:COM1	26:COM1	22:COM9	30:COM1
	6239	-ve	7.117	3.027	0.016	0.317	0.050	18.788
			28:COM1	28:COM1	20:COM7	16:COM3	16:COM3	20:COM7
			-9.447	-12.446	-0.015	-0.083	-0.048	-9.228
			22:COM9	22:COM9	30:COM1	26:COM1	26:COM1	30:COM1
4392	2151	+ve	1.727	12.689	0.012	0.413	0.036	31.116
			28:COM1	20:COM7	28:COM1	16:COM3	20:COM7	20:COM7
			-3.646	-0.460	-0.013	-0.268	-0.035	-13.843
			22:COM9	30:COM1	22:COM9	26:COM1	30:COM1	30:COM1
	6240	-ve	1.727	1.860	0.012	0.413	0.037	12.957
			28:COM1	28:COM1	28:COM1	16:COM3	28:COM1	20:COM7
			-3.646	-10.259	-0.013	-0.268	-0.041	-7.124
			22:COM9	22:COM9	22:COM9	26:COM1	22:COM9	30:COM1

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
4393	2152	+ve	3.834	13.327	0.058	0.317	0.047	34.707
			24:COM1	20:COM7	16:COM3	24:COM1	24:COM1	20:COM7
			-5.808	0.000	-0.041	-0.374	-0.067	-14.344
			18:COM5	-	26:COM1	18:COM5	18:COM5	30:COM1
	5722	-ve	3.834	8.352	0.058	0.317	0.064	11.051
			24:COM1	20:COM7	16:COM3	24:COM1	16:COM3	28:COM1
			-5.808	-2.508	-0.041	-0.374	-0.046	-12.319
			18:COM5	30:COM1	26:COM1	18:COM5	26:COM1	22:COM9
4394	2148	+ve	1.637	6.393	0.010	0.473	0.022	20.304
			24:COM1	20:COM7	24:COM1	24:COM1	16:COM3	16:COM3
			-3.444	0.000	-0.014	-0.474	-0.015	-11.185
			18:COM5	-	18:COM5	18:COM5	26:COM1	26:COM1
	2163	-ve	1.637	0.000	0.010	0.473	0.028	18.521
			24:COM1	-	24:COM1	24:COM1	24:COM1	20:COM7
			-3.444	-4.958	-0.014	-0.474	-0.037	-14.376
			18:COM5	22:COM9	18:COM5	18:COM5	18:COM5	30:COM1
4395	2149	+ve	1.945	15.349	0.002	0.328	0.013	37.685
			24:COM1	20:COM7	24:COM1	24:COM1	20:COM7	20:COM7
			-2.860	-2.195	-0.004	-0.348	-0.007	-21.069
			18:COM5	30:COM1	18:COM5	18:COM5	30:COM1	30:COM1
	2020	-ve	1.945	2.488	0.002	0.328	0.011	33.236
			24:COM1	28:COM1	24:COM1	24:COM1	24:COM1	20:COM7
			-2.860	-14.967	-0.004	-0.348	-0.017	-19.124
			18:COM5	22:COM9	18:COM5	18:COM5	18:COM5	30:COM1
4396	2150	+ve	1.684	11.886	0.017	0.852	0.049	19.188
			24:COM1	16:COM3	24:COM1	16:COM3	16:COM3	16:COM3
			-5.876	-4.384	-0.026	-0.694	-0.026	-11.744
			18:COM5	26:COM1	18:COM5	26:COM1	26:COM1	26:COM1
	2096	-ve	1.684	4.644	0.017	0.852	0.044	26.084
			24:COM1	24:COM1	24:COM1	16:COM3	24:COM1	20:COM7
			-5.876	-11.821	-0.026	-0.694	-0.060	-19.332
			18:COM5	18:COM5	18:COM5	26:COM1	18:COM5	30:COM1
4397	2154	+ve	8.405	6.672	0.006	0.160	0.013	11.244
			28:COM1	34:CVOL3	20:COM7	20:COM7	28:COM1	20:COM7
			-15.036	0.000	-0.004	-0.056	-0.020	0.000
			22:COM9	-	30:COM1	30:COM1	22:COM9	-
	6223	-ve	8.405	0.000	0.006	0.160	0.020	7.812
			28:COM1	-	20:COM7	20:COM7	20:COM7	34:CVOL3
			-15.036	-6.514	-0.004	-0.056	-0.015	0.000
			22:COM9	35:CVOL4	30:COM1	30:COM1	30:COM1	-
4398	2281	+ve	1.629	6.036	0.005	0.023	0.017	6.098
			24:COM1	34:CVOL3	24:COM1	24:COM1	16:COM3	20:COM7
			-3.817	0.000	-0.005	-0.029	-0.016	0.000
			18:COM5	-	18:COM5	18:COM5	26:COM1	-
	2156	-ve	1.629	0.000	0.005	0.023	0.014	6.724
			24:COM1	-	24:COM1	24:COM1	24:COM1	20:COM7
			-3.817	-6.004	-0.005	-0.029	-0.014	0.000
			18:COM5	35:CVOL4	18:COM5	18:COM5	18:COM5	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
4399	5467	+ve	29.032	10.981	0.388	15.881	0.376	12.149
			28:COM15	16:COM3	24:COM11	16:COM3	16:COM3	16:COM3
			-58.720	-1.912	-0.362	-5.032	-0.321	-4.506
			22:COM9	26:COM13	18:COM5	26:COM13	26:COM13	26:COM13
	5508	-ve	29.032	6.200	0.388	15.881	0.438	2.576
			28:COM15	24:COM11	24:COM11	16:COM3	24:COM11	24:COM11
			-58.720	-5.655	-0.362	-5.032	-0.332	-4.306
			22:COM9	18:COM5	18:COM5	26:COM13	18:COM5	18:COM5
4400	2263	+ve	2.981	13.782	0.018	0.011	0.000	17.518
			16:COM3	20:COM7	20:COM7	28:COM15	-	20:COM7
			-0.165	0.000	0.000	-0.719	-0.066	0.000
			26:COM13	-	-	22:COM9	22:COM9	-
	2158	-ve	2.981	0.000	0.018	0.011	0.046	14.211
			16:COM3	-	20:COM7	28:COM15	16:COM3	28:COM15
			-0.165	-9.110	0.000	-0.719	0.000	-15.135
			26:COM13	22:COM9	-	22:COM9	-	22:COM9
4401	2264	+ve	6.672	6.736	0.007	0.004	0.017	8.446
			20:COM7	34:CVOL3	20:COM7	28:COM15	28:COM15	20:COM7
			-6.311	0.000	-0.004	-0.323	-0.028	0.000
			30:COM17	-	30:COM17	22:COM9	22:COM9	-
	2159	-ve	6.672	0.000	0.007	0.004	0.016	6.351
			20:COM7	-	20:COM7	28:COM15	20:COM7	20:COM7
			-6.311	-5.394	-0.004	-0.323	-0.009	-1.337
			30:COM17	35:CVOL4	30:COM17	22:COM9	30:COM17	30:COM17
4402	2313	+ve	0.000	1.995	0.000	0.000	0.041	0.695
			-	20:COM7	-	-	20:COM7	28:COM15
			-7.342	-0.417	-0.026	-0.173	0.000	-1.117
			22:COM9	30:COM17	22:COM9	18:COM5	-	22:COM9
	2236	-ve	0.000	0.000	0.000	0.000	0.000	6.598
			-	-	-	-	-	20:COM7
			-7.342	-5.171	-0.026	-0.173	-0.039	0.000
			22:COM9	22:COM9	22:COM9	18:COM5	22:COM9	-
4403	2314	+ve	0.000	1.593	0.005	0.066	0.036	0.137
			-	16:COM3	24:COM11	24:COM11	16:COM3	16:COM3
			-4.450	0.000	-0.023	-0.158	-0.007	-0.226
			18:COM5	-	18:COM5	18:COM5	26:COM13	26:COM13
	2235	-ve	0.000	0.000	0.005	0.066	0.008	4.551
			-	-	24:COM11	24:COM11	24:COM11	16:COM3
			-4.450	-4.469	-0.023	-0.158	-0.035	0.000
			18:COM5	34:CVOL3	18:COM5	18:COM5	18:COM5	-
4404	2315	+ve	0.409	1.412	0.005	0.099	0.024	0.808
			28:COM15	20:COM7	28:COM15	16:COM3	20:COM7	20:COM7
			-0.850	-1.496	-0.015	-0.088	-0.010	-0.662
			22:COM9	30:COM17	22:COM9	26:COM13	30:COM17	30:COM17
	2234	-ve	0.409	0.000	0.005	0.099	0.007	12.617
			28:COM15	-	28:COM15	16:COM3	28:COM15	20:COM7
			-0.850	-7.170	-0.015	-0.088	-0.021	0.000
			22:COM9	22:COM9	22:COM9	26:COM13	22:COM9	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
4405	2236	+ve	0.000	5.958	0.005	0.047	0.034	6.663
			-	35:CVOL4	28:COM15	24:COM17	20:COM7	20:COM7
			-4.042	0.000	-0.011	-0.184	-0.015	0.000
			22:COM9	-	22:COM9	18:COM5	30:COM17	-
	2160	-ve	0.000	0.000	0.005	0.047	0.013	7.202
			-	-	28:COM15	24:COM17	28:COM15	20:COM7
			-4.042	-5.998	-0.011	-0.184	-0.032	0.000
			22:COM9	34:CVOL3	22:COM9	18:COM5	22:COM9	-
4406	2235	+ve	0.000	6.249	0.007	0.075	0.043	8.377
			-	20:COM7	28:COM15	28:COM15	20:COM7	20:COM7
			-3.492	0.000	-0.014	-0.243	-0.021	0.000
			22:COM9	-	22:COM9	22:COM9	30:COM17	-
	2161	-ve	0.000	0.000	0.007	0.075	0.020	7.345
			-	-	28:COM15	28:COM15	28:COM15	20:COM7
			-3.492	-5.714	-0.014	-0.243	-0.042	-0.139
			22:COM9	22:COM9	22:COM9	22:COM9	22:COM9	30:COM17
4407	2234	+ve	0.331	7.237	0.007	0.081	0.040	11.347
			28:COM15	20:COM7	28:COM15	28:COM15	20:COM7	20:COM7
			-3.698	0.000	-0.013	-0.206	-0.022	0.000
			22:COM9	-	22:COM9	22:COM9	30:COM17	-
	2162	-ve	0.331	0.000	0.007	0.081	0.021	7.626
			28:COM15	-	28:COM15	28:COM15	28:COM15	20:COM7
			-3.698	-5.792	-0.013	-0.206	-0.039	-2.711
			22:COM9	22:COM9	22:COM9	22:COM9	22:COM9	30:COM17
4408	2163	+ve	1.261	22.534	0.012	0.295	0.029	21.869
			28:COM15	20:COM7	28:COM15	28:COM15	16:COM3	20:COM7
			-1.305	-13.473	-0.020	-0.692	-0.014	-14.516
			22:COM9	30:COM17	22:COM9	22:COM9	26:COM13	30:COM17
	6241	-ve	1.261	16.724	0.012	0.295	0.021	26.553
			28:COM15	28:COM15	28:COM15	28:COM15	28:COM15	28:COM15
			-1.305	-17.012	-0.020	-0.692	-0.030	-31.079
			22:COM9	22:COM9	22:COM9	22:COM9	22:COM9	22:COM9
4409	2160	+ve	0.257	7.279	0.005	0.090	0.016	10.419
			24:COM17	34:CVOL3	24:COM17	16:COM3	16:COM3	20:COM7
			-2.488	0.000	-0.007	-0.047	-0.011	0.000
			18:COM5	-	18:COM5	26:COM13	26:COM13	-
	2303	-ve	0.257	0.000	0.005	0.090	0.010	1.971
			24:COM17	-	24:COM17	16:COM3	24:COM17	20:COM7
			-2.488	-3.913	-0.007	-0.047	-0.013	0.000
			18:COM5	22:COM9	18:COM5	26:COM13	18:COM5	-
4410	2161	+ve	0.393	7.427	0.005	0.074	0.015	8.882
			24:COM17	34:CVOL3	28:COM15	28:COM15	20:COM7	20:COM7
			-1.253	0.000	-0.008	-0.175	-0.009	0.000
			18:COM5	-	22:COM9	22:COM9	30:COM17	-
	2302	-ve	0.393	0.000	0.005	0.074	0.013	0.484
			24:COM17	-	28:COM15	28:COM15	28:COM15	16:COM3
			-1.253	-3.850	-0.008	-0.175	-0.018	-0.008
			18:COM5	35:CVOL4	22:COM9	22:COM9	22:COM9	26:COM13

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
4412	2005	+ve	5.733	18.562	0.352	13.465	0.608	50.200
			16:COM3	16:COM3	20:COM7	16:COM3	28:COM15	16:COM3
			-2.745	0.000	-0.304	-13.357	-0.703	0.000
			26:COM13	-	30:COM17	26:COM13	22:COM9	-
	2300	-ve	5.733	5.833	0.352	13.465	0.773	0.000
			16:COM3	16:COM3	20:COM7	16:COM3	20:COM7	-
			-2.745	-3.743	-0.304	-13.357	-0.668	-1.074
			26:COM13	26:COM13	30:COM17	26:COM13	30:COM17	22:COM9
4413	2168	+ve	1.096	13.335	0.007	0.202	0.018	21.842
			24:COM11	20:COM7	16:COM3	16:COM3	24:COM11	20:COM7
			-1.421	0.000	-0.006	-0.029	-0.023	-3.169
			18:COM5	-	26:COM13	26:COM13	18:COM5	30:COM17
	2164	-ve	1.096	1.816	0.007	0.202	0.024	19.987
			24:COM11	28:COM15	16:COM3	16:COM3	16:COM3	20:COM7
			-1.421	-10.475	-0.006	-0.029	-0.019	-16.446
			18:COM5	22:COM9	26:COM13	26:COM13	26:COM13	30:COM17
4414	2169	+ve	1.566	11.874	0.006	0.171	0.016	15.493
			24:COM11	20:COM7	16:COM3	16:COM3	24:COM11	20:COM7
			-2.174	0.000	-0.005	-0.038	-0.021	-1.744
			18:COM5	-	26:COM13	26:COM13	18:COM5	30:COM17
	2165	-ve	1.566	0.010	0.006	0.171	0.021	20.827
			24:COM11	28:COM15	16:COM3	16:COM3	16:COM3	20:COM7
			-2.174	-10.913	-0.005	-0.038	-0.018	-13.380
			18:COM5	22:COM9	26:COM13	26:COM13	26:COM13	30:COM17
4415	2170	+ve	11.005	10.429	0.004	0.069	0.010	11.537
			20:COM7	35:CVOL4	20:COM7	28:COM15	28:COM15	20:COM7
			-4.968	0.000	-0.003	-0.075	-0.013	0.000
			30:COM17	-	30:COM17	22:COM9	22:COM9	-
	2166	-ve	11.005	0.000	0.004	0.069	0.012	12.981
			20:COM7	-	20:COM7	28:COM15	28:COM15	20:COM7
			-4.968	-10.372	-0.003	-0.075	-0.010	-0.649
			30:COM17	34:CVOL3	30:COM17	22:COM9	22:COM9	30:COM17
4416	2171	+ve	8.788	11.064	0.004	0.077	0.017	13.509
			20:COM7	35:CVOL4	24:COM11	28:COM15	16:COM3	20:COM7
			-3.906	0.000	-0.005	-0.163	-0.014	0.000
			30:COM17	-	18:COM5	22:COM9	26:COM13	-
	2167	-ve	8.788	0.000	0.004	0.077	0.014	14.307
			20:COM7	-	24:COM11	28:COM15	24:COM11	20:COM7
			-3.906	-10.981	-0.005	-0.163	-0.018	-0.017
			30:COM17	34:CVOL3	18:COM5	22:COM9	18:COM5	30:COM17
4417	2316	+ve	0.000	2.819	0.019	0.116	0.009	0.296
			-	35:CVOL4	20:COM7	20:COM7	28:COM15	16:COM3
			-2.829	0.000	-0.006	-0.049	-0.029	-0.115
			22:COM9	-	30:COM17	30:COM17	22:COM9	26:COM13
	2170	-ve	0.000	0.000	0.019	0.116	0.031	5.814
			-	-	20:COM7	20:COM7	20:COM7	34:CVOL3
			-2.829	-6.403	-0.006	-0.049	-0.010	0.000
			22:COM9	34:CVOL3	30:COM17	30:COM17	30:COM17	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
4418	2317	+ve	0.000	2.371	0.022	0.130	0.000	0.326
			-	34:CVOL3	20:COM7	20:COM7	-	28:COM15
			-4.670	0.000	0.000	0.000	-0.033	-0.902
			18:COM5	-	-	-	22:COM9	22:COM9
	2171	-ve	0.000	0.000	0.022	0.130	0.035	6.855
			-	-	20:COM7	20:COM7	20:COM7	35:CVOL4
			-4.670	-6.951	0.000	0.000	0.000	0.000
			18:COM5	35:CVOL4	-	-	-	-
4419	2164	+ve	0.655	9.244	0.017	0.456	0.019	16.952
			24:COM11	20:COM7	16:COM3	16:COM3	24:COM11	20:COM7
			-0.850	0.000	-0.011	-0.164	-0.030	-4.617
			18:COM5	-	26:COM13	26:COM13	18:COM5	30:COM17
	2299	-ve	0.655	1.591	0.017	0.456	0.034	1.056
			24:COM11	28:COM15	16:COM3	16:COM3	16:COM3	20:COM7
			-0.850	-4.885	-0.011	-0.164	-0.021	-0.607
			18:COM5	22:COM9	26:COM13	26:COM13	26:COM13	30:COM17
4420	2165	+ve	1.795	10.057	0.026	0.276	0.024	18.230
			24:COM11	20:COM7	16:COM3	16:COM3	24:COM11	20:COM7
			-2.364	-4.448	-0.015	0.000	-0.039	-10.689
			18:COM5	30:COM17	26:COM13	-	18:COM5	30:COM17
	2298	-ve	1.795	4.240	0.026	0.276	0.045	11.397
			24:COM11	28:COM15	16:COM3	16:COM3	16:COM3	20:COM7
			-2.364	-9.841	-0.015	0.000	-0.023	-3.868
			18:COM5	22:COM9	26:COM13	-	26:COM13	30:COM17
4421	2166	+ve	2.363	15.209	0.071	0.699	0.011	16.849
			24:COM11	28:COM15	20:COM7	16:COM3	28:COM15	20:COM7
			-4.110	-22.164	-0.009	-0.419	-0.070	-17.116
			18:COM5	22:COM9	30:COM17	26:COM13	22:COM9	30:COM17
	2292	-ve	2.363	12.901	0.071	0.699	0.080	37.871
			24:COM11	28:COM15	20:COM7	16:COM3	20:COM7	16:COM3
			-4.110	-27.347	-0.009	-0.419	-0.009	-15.608
			18:COM5	22:COM9	30:COM17	26:COM13	30:COM17	26:COM13
4422	2162	+ve	0.477	7.945	0.006	0.103	0.019	10.752
			24:COM11	34:CVOL3	28:COM15	24:COM11	20:COM7	34:CVOL3
			-1.000	0.000	-0.010	-0.230	-0.012	0.000
			18:COM5	-	22:COM9	18:COM5	30:COM17	-
	2301	-ve	0.477	0.000	0.006	0.103	0.015	0.936
			24:COM11	-	28:COM15	24:COM11	28:COM15	16:COM3
			-1.000	-3.477	-0.010	-0.230	-0.021	-0.697
			18:COM5	35:CVOL4	22:COM9	18:COM5	22:COM9	26:COM13
4423	2237	+ve	5.888	5.938	0.017	0.161	0.014	4.333
			28:COM15	35:CVOL4	20:COM7	20:COM7	28:COM15	20:COM7
			-8.984	0.000	-0.006	-0.055	-0.037	0.000
			22:COM9	-	30:COM17	30:COM17	22:COM9	-
	2173	-ve	5.888	0.000	0.017	0.161	0.030	5.087
			28:COM15	-	20:COM7	20:COM7	20:COM7	16:COM3
			-8.984	-5.803	-0.006	-0.055	-0.011	-0.377
			22:COM9	34:CVOL3	30:COM17	30:COM17	30:COM17	26:COM13

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
4424	2238	+ve	9.404	3.679	0.095	0.217	0.039	3.365
			28:COM15	16:COM3	20:COM7	20:COM7	28:COM15	20:COM7
			-19.339	-0.252	-0.041	-0.085	-0.090	-0.425
			22:COM9	26:COM13	30:COM17	30:COM17	22:COM9	30:COM17
	2174	-ve	9.404	0.317	0.095	0.217	0.091	4.802
			28:COM15	24:COM11	20:COM7	20:COM7	20:COM7	20:COM7
			-19.339	-3.233	-0.041	-0.085	-0.038	-2.348
			22:COM9	18:COM5	30:COM17	30:COM17	30:COM17	30:COM17
4425	2155	+ve	0.887	8.099	0.002	0.242	0.011	23.390
			28:COM15	20:COM7	28:COM15	20:COM7	20:COM7	20:COM7
			-1.233	0.000	-0.003	-0.000	-0.005	-2.672
			22:COM9	-	22:COM9	30:COM17	30:COM17	30:COM17
	6224	-ve	0.887	0.000	0.002	0.242	0.005	11.725
			28:COM15	-	28:COM15	20:COM7	28:COM15	16:COM3
			-1.233	-7.160	-0.003	-0.000	-0.012	0.000
			22:COM9	22:COM9	22:COM9	30:COM17	22:COM9	-
4426	2177	+ve	3.460	0.406	0.011	0.000	0.009	2.761
			20:COM7	28:COM15	20:COM7	-	28:COM15	16:COM3
			0.000	-4.010	-0.006	-1.104	-0.019	-1.638
			-	22:COM9	30:COM17	18:COM5	22:COM9	26:COM13
	2178	-ve	3.460	0.000	0.011	0.000	0.005	11.514
			20:COM7	-	20:COM7	-	28:COM15	20:COM7
			0.000	-5.009	-0.006	-1.104	-0.006	-0.687
			-	22:COM9	30:COM17	18:COM5	22:COM9	30:COM17
4427	2178	+ve	5.836	0.000	0.114	0.113	0.002	11.344
			20:COM7	-	20:COM7	28:COM15	28:COM15	20:COM7
			-3.064	-5.638	-0.016	-0.432	-0.112	-0.752
			30:COM17	22:COM9	30:COM17	22:COM9	22:COM9	30:COM17
	2064	-ve	5.836	0.000	0.114	0.113	0.135	24.095
			20:COM7	-	20:COM7	28:COM15	20:COM7	20:COM7
			-3.064	-6.637	-0.016	-0.432	-0.032	0.000
			30:COM17	22:COM9	30:COM17	22:COM9	30:COM17	-
4428	2179	+ve	4.644	6.931	0.044	0.000	0.051	11.285
			20:COM7	16:COM3	28:COM15	-	28:COM15	16:COM3
			-1.722	0.000	-0.055	-0.607	-0.047	-7.317
			30:COM17	-	22:COM9	18:COM5	22:COM9	26:COM13
	2180	-ve	4.644	5.119	0.044	0.000	0.038	1.375
			20:COM7	16:COM3	28:COM15	-	28:COM15	24:COM11
			-1.722	0.000	-0.055	-0.607	-0.056	-10.666
			30:COM17	-	22:COM9	18:COM5	22:COM9	18:COM5
4429	2180	+ve	3.412	4.749	0.015	0.273	0.025	1.254
			16:COM3	16:COM3	24:COM11	24:COM11	16:COM3	24:COM11
			-1.497	-0.815	-0.028	-0.529	-0.015	-10.677
			26:COM13	26:COM13	18:COM5	18:COM5	26:COM13	18:COM5
	2181	-ve	3.412	2.937	0.015	0.273	0.015	0.000
			16:COM3	16:COM3	24:COM11	24:COM11	24:COM11	-
			-1.497	-2.175	-0.028	-0.529	-0.030	-9.079
			26:COM13	26:COM13	18:COM5	18:COM5	18:COM5	35:CVOL4

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
4430	2181	+ve	2.570	1.892	0.003	0.552	0.035	0.000
			20:COM7	24:COM11	24:COM11	16:COM3	16:COM3	-
			-2.069	-2.842	-0.036	-0.209	-0.002	-9.073
			30:COM17	18:COM5	18:COM5	26:COM13	26:COM13	35:CVOL4
	2182	-ve	2.570	0.533	0.003	0.552	0.005	0.502
			20:COM7	24:COM11	24:COM11	16:COM3	24:COM11	24:COM11
			-2.069	-4.654	-0.036	-0.209	-0.037	-9.552
			30:COM17	18:COM5	18:COM5	26:COM13	18:COM5	18:COM5
4431	2182	+ve	2.289	0.000	0.000	0.572	0.027	0.621
			28:COM15	-	-	34:CVOL3	16:COM3	24:COM11
			-2.865	-4.552	-0.023	0.000	0.000	-9.516
			22:COM9	18:COM5	18:COM5	-	-	18:COM5
	2183	-ve	2.289	0.000	0.000	0.572	0.000	9.394
			28:COM15	-	-	34:CVOL3	-	16:COM3
			-2.865	-6.364	-0.023	0.000	-0.019	-4.907
			22:COM9	18:COM5	18:COM5	-	18:COM5	26:COM13
4432	2183	+ve	1.712	0.000	0.101	1.128	0.000	9.481
			28:COM15	-	16:COM3	16:COM3	-	16:COM3
			-4.121	-5.464	0.000	-0.207	-0.097	-4.788
			22:COM9	35:CVOL4	-	26:COM13	18:COM5	26:COM13
	2065	-ve	1.712	0.000	0.101	1.128	0.100	21.155
			28:COM15	-	16:COM3	16:COM3	16:COM3	16:COM3
			-4.121	-7.309	0.000	-0.207	0.000	0.000
			22:COM9	33:CVOL2	-	26:COM13	-	-
4433	2184	+ve	1.914	6.244	0.023	0.000	0.005	9.565
			28:COM15	16:COM3	16:COM3	-	24:COM11	16:COM3
			-5.244	0.000	-0.003	-0.611	-0.022	-4.040
			22:COM9	-	26:COM13	22:COM9	18:COM5	26:COM13
	2185	-ve	1.914	4.432	0.023	0.000	0.024	0.831
			28:COM15	16:COM3	16:COM3	-	16:COM3	24:COM11
			-5.244	0.000	-0.003	-0.611	-0.002	-8.827
			22:COM9	-	26:COM13	22:COM9	26:COM13	18:COM5
4434	2185	+ve	1.794	4.523	0.030	0.254	0.019	0.698
			28:COM15	16:COM3	16:COM3	24:COM11	24:COM11	24:COM11
			-6.051	-0.261	-0.019	-0.608	-0.027	-8.850
			22:COM9	26:COM13	26:COM13	18:COM5	18:COM5	18:COM5
	2186	-ve	1.794	2.711	0.030	0.254	0.032	0.000
			28:COM15	16:COM3	16:COM3	24:COM11	16:COM3	-
			-6.051	-1.620	-0.019	-0.608	-0.018	-8.713
			22:COM9	26:COM13	26:COM13	18:COM5	26:COM13	35:CVOL4
4435	2186	+ve	1.716	1.812	0.013	0.551	0.036	0.000
			28:COM15	24:COM11	24:COM11	16:COM3	16:COM3	-
			-6.483	-2.432	-0.035	-0.286	-0.011	-8.721
			22:COM9	18:COM5	18:COM5	26:COM13	26:COM13	35:CVOL4
	2187	-ve	1.716	0.453	0.013	0.551	0.015	0.431
			28:COM15	24:COM11	24:COM11	16:COM3	24:COM11	24:COM11
			-6.483	-4.244	-0.035	-0.286	-0.033	-9.511
			22:COM9	18:COM5	18:COM5	26:COM13	18:COM5	18:COM5

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
4436	2187	+ve	1.682	0.000	0.000	0.586	0.030	0.556
			28:COM15	-	-	16:COM3	20:COM7	24:COM11
			-6.436	-4.286	-0.028	0.000	0.000	-9.499
			22:COM9	18:COM5	18:COM5	-	-	18:COM5
	2188	-ve	1.682	0.000	0.000	0.586	0.000	8.756
			28:COM15	-	-	16:COM3	-	16:COM3
			-6.436	-6.098	-0.028	0.000	-0.025	-4.804
			22:COM9	18:COM5	18:COM5	-	18:COM5	26:COM13
4437	2188	+ve	1.259	0.000	0.087	1.079	0.000	8.847
			28:COM15	-	16:COM3	16:COM3	-	16:COM3
			-6.504	-5.505	0.000	-0.177	-0.084	-4.698
			22:COM9	22:COM9	-	26:COM13	18:COM5	26:COM13
	2066	-ve	1.259	0.000	0.087	1.079	0.085	20.194
			28:COM15	-	16:COM3	16:COM3	16:COM3	16:COM3
			-6.504	-7.318	0.000	-0.177	0.000	0.000
			22:COM9	22:COM9	-	26:COM13	-	-
4438	2189	+ve	1.576	6.230	0.029	0.000	0.001	9.464
			28:COM15	16:COM3	20:COM7	-	28:COM15	16:COM3
			-7.015	0.000	0.000	-0.611	-0.026	-4.371
			22:COM9	-	-	22:COM9	22:COM9	26:COM13
	2190	-ve	1.576	4.418	0.029	0.000	0.031	0.808
			28:COM15	16:COM3	20:COM7	-	20:COM7	24:COM11
			-7.015	0.000	0.000	-0.611	0.000	-9.025
			22:COM9	-	-	22:COM9	-	18:COM5
4439	2190	+ve	1.525	4.473	0.036	0.251	0.016	0.675
			28:COM15	16:COM3	16:COM3	24:COM11	24:COM11	24:COM11
			-7.568	-0.314	-0.015	-0.611	-0.032	-9.050
			22:COM9	26:COM13	26:COM13	18:COM5	18:COM5	18:COM5
	2191	-ve	1.525	2.660	0.036	0.251	0.038	0.000
			28:COM15	16:COM3	16:COM3	24:COM11	16:COM3	-
			-7.568	-1.674	-0.015	-0.611	-0.014	-8.718
			22:COM9	26:COM13	26:COM13	18:COM5	26:COM13	35:CVOL4
4440	2191	+ve	1.505	1.759	0.018	0.544	0.031	0.000
			28:COM15	24:COM11	24:COM11	16:COM3	16:COM3	-
			-7.680	-2.484	-0.030	-0.286	-0.015	-8.726
			22:COM9	18:COM5	18:COM5	26:COM13	26:COM13	35:CVOL4
	2192	-ve	1.505	0.400	0.018	0.544	0.021	0.418
			28:COM15	24:COM11	24:COM11	16:COM3	24:COM11	24:COM11
			-7.680	-4.296	-0.030	-0.286	-0.028	-9.317
			22:COM9	18:COM5	18:COM5	26:COM13	18:COM5	18:COM5
4441	2192	+ve	1.501	0.000	0.002	0.578	0.023	0.542
			28:COM15	-	24:COM11	16:COM3	16:COM3	24:COM11
			-7.401	-4.321	-0.021	0.000	0.000	-9.305
			22:COM9	18:COM5	18:COM5	-	-	18:COM5
	2193	-ve	1.501	0.000	0.002	0.578	0.005	8.864
			28:COM15	-	24:COM11	16:COM3	24:COM11	16:COM3
			-7.401	-6.133	-0.021	0.000	-0.019	-4.511
			22:COM9	18:COM5	18:COM5	-	18:COM5	26:COM13

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
4442	2193	+ve	1.089	0.000	0.088	1.091	0.000	8.955
			28:COM1	-	16:COM3	16:COM3	-	16:COM3
			-7.509	-5.459	0.000	-0.177	-0.085	-4.405
			22:COM9	34:CVOL3	-	26:COM1	18:COM5	26:COM1
	2067	-ve	1.089	0.000	0.088	1.091	0.087	20.337
			28:COM1	-	16:COM3	16:COM3	16:COM3	16:COM3
			-7.509	-7.272	0.000	-0.177	0.000	0.000
			22:COM9	32:CVOL1	-	26:COM1	-	-
4443	2194	+ve	1.279	6.380	0.025	0.000	0.004	9.933
			28:COM1	16:COM3	16:COM3	-	24:COM1	16:COM3
			-6.152	0.000	-0.002	-0.582	-0.021	-4.412
			22:COM9	-	26:COM1	22:COM9	18:COM5	26:COM1
	2195	-ve	1.279	4.568	0.025	0.000	0.028	0.966
			28:COM1	16:COM3	16:COM3	-	16:COM3	24:COM1
			-6.152	0.000	-0.002	-0.582	-0.001	-9.237
			22:COM9	-	26:COM1	22:COM9	26:COM1	18:COM5
4444	2195	+ve	1.464	4.711	0.043	0.240	0.020	0.838
			28:COM1	16:COM3	16:COM3	24:COM1	24:COM1	24:COM1
			-5.955	-0.227	-0.019	-0.590	-0.041	-9.263
			22:COM9	26:COM1	26:COM1	18:COM5	18:COM5	18:COM5
	2196	-ve	1.464	2.899	0.043	0.240	0.042	0.000
			28:COM1	16:COM3	16:COM3	24:COM1	16:COM3	-
			-5.955	-1.586	-0.019	-0.590	-0.017	-9.148
			22:COM9	26:COM1	26:COM1	18:COM5	26:COM1	35:CVOL4
4445	2196	+ve	2.139	2.056	0.031	0.526	0.034	0.000
			28:COM1	24:COM1	24:COM1	16:COM3	16:COM3	-
			-5.626	-2.337	-0.031	-0.291	-0.032	-9.157
			22:COM9	18:COM5	18:COM5	26:COM1	26:COM1	35:CVOL4
	2197	-ve	2.139	0.697	0.031	0.526	0.029	0.000
			28:COM1	24:COM1	24:COM1	16:COM3	24:COM1	-
			-5.626	-4.150	-0.031	-0.291	-0.027	-10.348
			22:COM9	18:COM5	18:COM5	26:COM1	18:COM5	18:COM5
4446	2197	+ve	3.101	0.000	0.029	0.530	0.027	0.017
			28:COM1	-	28:COM1	16:COM3	28:COM1	24:COM1
			-5.108	-4.250	-0.020	0.000	-0.035	-10.343
			22:COM9	18:COM5	22:COM9	-	22:COM9	18:COM5
	2198	-ve	3.101	0.000	0.029	0.530	0.021	7.899
			28:COM1	-	28:COM1	16:COM3	28:COM1	16:COM3
			-5.108	-6.062	-0.020	0.000	-0.012	-6.194
			22:COM9	18:COM5	22:COM9	-	22:COM9	26:COM1
4447	2198	+ve	2.832	0.000	0.096	0.919	0.000	7.981
			28:COM1	-	20:COM7	16:COM3	-	16:COM3
			-4.669	-5.494	0.000	-0.217	-0.103	-6.111
			22:COM9	22:COM9	-	26:COM1	22:COM9	26:COM1
	2068	-ve	2.832	0.000	0.096	0.919	0.088	19.630
			28:COM1	-	20:COM7	16:COM3	16:COM3	16:COM3
			-4.669	-7.306	0.000	-0.217	0.000	0.000
			22:COM9	22:COM9	-	26:COM1	-	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
4448	2199	+ve	4.095	6.353	0.033	0.087	0.000	7.381
			20:COM7	16:COM3	20:COM7	28:COM15	-	24:COM17
			-3.489	0.000	-0.013	-0.485	-0.027	-7.879
			30:COM17	-	30:COM17	22:COM9	22:COM9	18:COM5
	2200	-ve	4.095	4.438	0.033	0.087	0.043	0.000
			20:COM7	16:COM3	20:COM7	28:COM15	20:COM7	-
			-3.489	-1.410	-0.013	-0.485	-0.028	-8.628
			30:COM17	26:COM13	30:COM17	22:COM9	30:COM17	18:COM5
4449	2200	+ve	3.149	4.919	0.029	0.362	0.035	0.000
			20:COM7	16:COM3	28:COM15	28:COM15	20:COM7	-
			-1.762	-3.081	-0.042	-0.545	-0.024	-8.610
			30:COM17	26:COM13	22:COM9	22:COM9	30:COM17	18:COM5
	2201	-ve	3.149	3.126	0.029	0.362	0.036	1.462
			20:COM7	24:COM11	28:COM15	28:COM15	28:COM15	24:COM17
			-1.762	-4.639	-0.042	-0.545	-0.053	-12.104
			30:COM17	18:COM5	22:COM9	22:COM9	22:COM9	18:COM5
4450	2201	+ve	2.609	2.430	0.024	0.520	0.014	1.553
			20:COM7	24:COM11	20:COM7	20:COM7	28:COM15	24:COM17
			-1.873	-6.798	-0.016	-0.392	-0.023	-12.173
			30:COM17	18:COM5	30:COM17	30:COM17	22:COM9	18:COM5
	2202	-ve	2.609	0.995	0.024	0.520	0.027	15.049
			20:COM7	24:COM11	20:COM7	20:COM7	16:COM3	16:COM3
			-1.873	-8.712	-0.016	-0.392	-0.020	-13.222
			30:COM17	18:COM5	30:COM17	30:COM17	26:COM13	26:COM13
4451	2202	+ve	6.109	0.000	0.092	0.293	0.000	15.117
			28:COM15	-	20:COM7	20:COM7	-	16:COM3
			-7.144	-10.225	-0.001	-0.143	-0.070	-13.222
			22:COM9	18:COM5	30:COM17	30:COM17	22:COM9	26:COM13
	2070	-ve	6.109	0.000	0.092	0.293	0.119	37.976
			28:COM15	-	20:COM7	20:COM7	20:COM7	16:COM3
			-7.144	-12.140	-0.001	-0.143	-0.018	-11.232
			22:COM9	18:COM5	30:COM17	30:COM17	30:COM17	26:COM13
4452	2203	+ve	4.458	0.000	0.016	0.000	0.024	12.050
			20:COM7	-	28:COM15	-	16:COM3	16:COM3
			-2.802	-3.759	-0.025	-0.397	-0.012	-8.264
			30:COM17	22:COM9	22:COM9	18:COM5	26:COM13	26:COM13
	2095	-ve	4.458	0.000	0.016	0.000	0.019	14.993
			20:COM7	-	28:COM15	-	28:COM15	16:COM3
			-2.802	-4.433	-0.025	-0.397	-0.025	-2.428
			30:COM17	22:COM9	22:COM9	18:COM5	22:COM9	26:COM13
4453	2204	+ve	3.942	0.663	0.029	0.000	0.017	3.104
			20:COM7	24:COM11	16:COM3	-	24:COM11	24:COM17
			-2.423	-4.750	-0.014	-0.305	-0.034	-8.803
			30:COM17	18:COM5	26:COM13	18:COM5	18:COM5	18:COM5
	2203	-ve	3.942	0.157	0.029	0.000	0.023	11.770
			20:COM7	24:COM11	16:COM3	-	16:COM3	16:COM3
			-2.423	-5.424	-0.014	-0.305	-0.011	-8.348
			30:COM17	18:COM5	26:COM13	18:COM5	26:COM13	26:COM13

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
4454	2205	+ve	4.163	2.365	0.032	0.001	0.025	0.000
			20:COM7	24:COM11	16:COM3	24:COM1	24:COM11	-
			-2.885	-3.351	-0.024	-0.113	-0.029	-5.975
			30:COM1	18:COM5	26:COM1	18:COM5	18:COM5	35:CVOL4
	2204	-ve	4.163	1.859	0.032	0.001	0.033	2.985
			20:COM7	24:COM11	16:COM3	24:COM1	16:COM3	24:COM1
			-2.885	-4.026	-0.024	-0.113	-0.023	-8.866
			30:COM1	18:COM5	26:COM1	18:COM5	26:COM1	18:COM5
4455	2206	+ve	4.276	4.342	0.021	0.126	0.040	3.454
			20:COM7	16:COM3	24:COM11	16:COM3	16:COM3	24:COM1
			-3.008	-1.671	-0.039	0.000	-0.020	-8.347
			30:COM1	26:COM1	18:COM5	-	26:COM1	18:COM5
	2205	-ve	4.276	3.667	0.021	0.126	0.020	0.000
			20:COM7	16:COM3	24:COM11	16:COM3	24:COM11	-
			-3.008	-2.177	-0.039	0.000	-0.035	-5.970
			30:COM1	26:COM1	18:COM5	-	18:COM5	35:CVOL4
4456	2207	+ve	4.243	5.641	0.012	0.328	0.029	12.931
			20:COM7	16:COM3	24:COM11	16:COM3	16:COM3	16:COM3
			-2.695	-0.042	-0.036	0.000	-0.009	-7.857
			30:COM1	26:COM1	18:COM5	-	26:COM1	26:COM1
	2206	-ve	4.243	4.966	0.012	0.328	0.014	3.580
			20:COM7	16:COM3	24:COM11	16:COM3	24:COM11	24:COM1
			-2.695	-0.548	-0.036	0.000	-0.041	-8.272
			30:COM1	26:COM1	18:COM5	-	18:COM5	18:COM5
4457	2207	+ve	1.716	2.512	0.000	0.000	0.171	0.436
			24:COM1	24:COM11	-	-	16:COM3	24:COM1
			-4.929	-5.005	-0.456	-0.239	0.000	-0.877
			18:COM5	18:COM5	22:COM9	18:COM5	-	18:COM5
	2123	-ve	1.716	1.763	0.000	0.000	0.000	3.364
			24:COM1	24:COM11	-	-	-	16:COM3
			-4.929	-6.305	-0.456	-0.239	-0.171	-1.168
			18:COM5	18:COM5	22:COM9	18:COM5	22:COM9	26:COM1
4458	2206	+ve	0.872	1.596	0.000	0.000	0.138	0.271
			16:COM3	16:COM3	-	-	16:COM3	16:COM3
			-0.678	0.000	-0.337	-0.135	-0.002	0.000
			26:COM1	-	18:COM5	18:COM5	26:COM1	-
	2124	-ve	0.872	0.374	0.000	0.000	0.000	0.194
			16:COM3	24:COM11	-	-	-	24:COM1
			-0.678	-0.676	-0.337	-0.135	-0.115	-0.444
			26:COM1	18:COM5	18:COM5	18:COM5	18:COM5	18:COM5
4459	2205	+ve	0.788	1.790	0.074	0.020	0.041	0.295
			20:COM7	35:CVOL4	24:COM11	24:COM1	16:COM3	20:COM7
			0.000	0.000	-0.091	-0.023	-0.034	0.000
			-	-	18:COM5	18:COM5	26:COM1	-
	2125	-ve	0.788	0.369	0.074	0.020	0.022	0.000
			20:COM7	20:COM7	24:COM11	24:COM1	24:COM11	-
			0.000	0.000	-0.091	-0.023	-0.027	-0.505
			-	-	18:COM5	18:COM5	18:COM5	35:CVOL4

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
4460	2204	+ve	0.865	1.717	0.302	0.124	0.008	0.266
			16:COM3	16:COM3	16:COM3	16:COM3	24:COM11	16:COM3
			-0.453	0.000	-0.006	0.000	-0.123	0.000
			26:COM13	-	26:COM13	-	18:COM5	-
	2126	-ve	0.865	0.449	0.302	0.124	0.103	0.186
			16:COM3	24:COM11	16:COM3	16:COM3	16:COM3	24:COM11
			-0.453	-0.577	-0.006	0.000	0.000	-0.544
			26:COM13	18:COM5	26:COM13	-	-	18:COM5
4461	2203	+ve	1.989	3.033	0.438	0.225	0.000	0.506
			24:COM11	24:COM11	20:COM7	20:COM7	-	24:COM11
			-4.332	-4.389	0.000	0.000	-0.165	-0.758
			18:COM5	18:COM5	-	-	22:COM9	18:COM5
	2127	-ve	1.989	2.283	0.438	0.225	0.164	3.021
			24:COM11	24:COM11	20:COM7	20:COM7	20:COM7	16:COM3
			-4.332	-5.688	0.000	0.000	0.000	-1.488
			18:COM5	18:COM5	-	-	-	26:COM13
4462	2208	+ve	6.019	0.000	0.633	6.447	0.000	46.186
			24:COM11	-	16:COM3	16:COM3	-	16:COM3
			-6.663	-39.887	0.000	-0.531	-0.585	-32.510
			18:COM5	18:COM5	-	26:COM13	18:COM5	26:COM13
	2032	-ve	6.019	0.000	0.633	6.447	0.666	126.129
			24:COM11	-	16:COM3	16:COM3	16:COM3	16:COM3
			-6.663	-42.136	0.000	-0.531	0.000	-19.518
			18:COM5	18:COM5	-	26:COM13	-	26:COM13
4463	2209	+ve	5.915	0.427	0.387	3.643	0.063	2.654
			24:COM11	24:COM11	20:COM7	20:COM7	24:COM11	24:COM11
			-7.941	-26.166	-0.088	0.000	-0.281	-42.773
			18:COM5	18:COM5	30:COM17	-	18:COM5	18:COM5
	2208	-ve	5.915	0.000	0.387	3.643	0.489	46.288
			24:COM11	-	20:COM7	20:COM7	20:COM7	16:COM3
			-7.941	-28.414	-0.088	0.000	-0.123	-32.379
			18:COM5	18:COM5	30:COM17	-	30:COM17	26:COM13
4464	2210	+ve	6.894	6.655	0.261	2.403	0.098	0.000
			24:COM11	24:COM11	20:COM7	16:COM3	24:COM11	-
			-6.530	-13.761	-0.100	-0.633	-0.264	-39.226
			18:COM5	18:COM5	30:COM17	26:COM13	18:COM5	35:CVOL4
	2209	-ve	6.894	4.969	0.261	2.403	0.273	2.782
			24:COM11	24:COM11	20:COM7	16:COM3	20:COM7	24:COM11
			-6.530	-16.009	-0.100	-0.633	-0.123	-42.734
			18:COM5	18:COM5	30:COM17	26:COM13	30:COM17	18:COM5
4465	2211	+ve	7.684	15.900	0.247	0.948	0.325	2.669
			16:COM3	16:COM3	20:COM7	24:COM11	28:COM15	24:COM11
			-5.472	-5.096	-0.226	-2.598	-0.320	-43.096
			26:COM13	26:COM13	30:COM17	18:COM5	22:COM9	18:COM5
	2210	-ve	7.684	13.651	0.247	0.948	0.167	0.000
			16:COM3	16:COM3	20:COM7	24:COM11	20:COM7	-
			-5.472	-6.783	-0.226	-2.598	-0.121	-39.236
			26:COM13	26:COM13	30:COM17	18:COM5	30:COM17	35:CVOL4

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
4466	2212	+ve	6.855	27.899	0.863	0.000	1.314	45.406
			16:COM3	16:COM3	28:COM15	-	20:COM7	16:COM3
			-4.991	0.000	-1.300	-3.778	-0.969	-33.408
			26:COM13	-	22:COM9	18:COM5	30:COM17	26:COM13
	2211	-ve	6.855	25.650	0.863	0.000	0.719	2.535
			16:COM3	16:COM3	28:COM15	-	28:COM15	24:COM11
			-4.991	-0.645	-1.300	-3.778	-1.226	-43.133
			26:COM13	26:COM13	22:COM9	18:COM5	22:COM9	18:COM5
4467	2213	+ve	3.493	0.000	0.290	6.295	0.314	44.257
			28:COM15	-	28:COM15	20:COM7	20:COM7	16:COM3
			-9.472	-39.205	-0.192	-0.685	-0.308	-33.171
			22:COM9	18:COM5	22:COM9	30:COM17	30:COM17	26:COM13
	2033	-ve	3.493	0.000	0.290	6.295	0.301	122.846
			28:COM15	-	28:COM15	20:COM7	28:COM15	16:COM3
			-9.472	-41.453	-0.192	-0.685	-0.104	-20.583
			22:COM9	18:COM5	22:COM9	30:COM17	22:COM9	26:COM13
4468	2214	+ve	2.098	0.631	0.284	3.548	0.374	2.279
			28:COM15	24:COM11	28:COM15	20:COM7	20:COM7	24:COM11
			-10.868	-25.485	-0.434	0.000	-0.200	-43.237
			22:COM9	18:COM5	22:COM9	-	30:COM17	18:COM5
	2213	-ve	2.098	0.000	0.284	3.548	0.361	44.387
			28:COM15	-	28:COM15	20:COM7	28:COM15	16:COM3
			-10.868	-27.734	-0.434	0.000	-0.480	-33.043
			22:COM9	18:COM5	22:COM9	-	22:COM9	26:COM13
4469	2215	+ve	2.589	6.900	0.088	2.341	0.121	0.000
			28:COM15	24:COM11	24:COM11	16:COM3	16:COM3	-
			-9.599	-13.054	-0.090	-1.037	-0.078	-38.650
			22:COM9	18:COM5	18:COM5	26:COM13	26:COM13	34:CVOL3
	2214	-ve	2.589	5.214	0.088	2.341	0.118	2.430
			28:COM15	24:COM11	24:COM11	16:COM3	24:COM11	24:COM11
			-9.599	-15.303	-0.090	-1.037	-0.079	-43.198
			22:COM9	18:COM5	18:COM5	26:COM13	18:COM5	18:COM5
4470	2216	+ve	2.609	16.545	0.182	0.868	0.071	3.628
			28:COM15	16:COM3	16:COM3	24:COM11	24:COM11	24:COM11
			-8.862	-4.525	-0.045	-2.713	-0.170	-40.637
			22:COM9	26:COM13	26:COM13	18:COM5	18:COM5	18:COM5
	2215	-ve	2.609	14.296	0.182	0.868	0.204	0.000
			28:COM15	16:COM3	16:COM3	24:COM11	16:COM3	-
			-8.862	-6.212	-0.045	-2.713	-0.036	-38.656
			22:COM9	26:COM13	26:COM13	18:COM5	26:COM13	34:CVOL3
4471	2217	+ve	2.275	29.112	0.466	0.000	0.275	49.267
			28:COM15	16:COM3	20:COM7	-	28:COM15	16:COM3
			-8.710	0.000	-0.217	-3.908	-0.515	-30.119
			22:COM9	-	30:COM17	22:COM9	22:COM9	26:COM13
	2216	-ve	2.275	26.863	0.466	0.000	0.398	3.473
			28:COM15	16:COM3	20:COM7	-	20:COM7	24:COM11
			-8.710	0.000	-0.217	-3.908	-0.153	-40.682
			22:COM9	-	30:COM17	22:COM9	30:COM17	18:COM5

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
4472	2218	+ve	3.280	0.000	0.389	6.008	0.209	44.386
			28:COM15	-	20:COM7	20:COM7	28:COM15	16:COM3
			-10.103	-39.317	-0.213	-0.451	-0.337	-32.643
			22:COM9	18:COM5	30:COM17	30:COM17	22:COM9	26:COM13
	2034	-ve	3.280	0.000	0.389	6.008	0.458	123.203
			28:COM15	-	20:COM7	20:COM7	20:COM7	16:COM3
			-10.103	-41.566	-0.213	-0.451	-0.242	-19.988
			22:COM9	18:COM5	30:COM17	30:COM17	30:COM17	26:COM13
4473	2219	+ve	1.887	0.568	0.221	3.300	0.207	2.130
			28:COM15	24:COM11	28:COM15	20:COM7	20:COM7	24:COM11
			-11.776	-25.588	-0.216	0.000	-0.151	-42.755
			22:COM9	18:COM5	22:COM9	-	30:COM17	18:COM5
	2218	-ve	1.887	0.000	0.221	3.300	0.289	44.515
			28:COM15	-	28:COM15	20:COM7	28:COM15	16:COM3
			-11.776	-27.836	-0.216	0.000	-0.223	-32.515
			22:COM9	18:COM5	22:COM9	-	22:COM9	26:COM13
4474	2220	+ve	2.271	6.807	0.083	2.315	0.129	0.000
			28:COM15	24:COM11	24:COM11	16:COM3	16:COM3	-
			-11.281	-13.141	-0.105	-1.032	-0.050	-38.658
			22:COM9	18:COM5	18:COM5	26:COM13	26:COM13	34:CVOL3
	2219	-ve	2.271	5.120	0.083	2.315	0.146	2.279
			28:COM15	24:COM11	24:COM11	16:COM3	20:COM7	24:COM11
			-11.281	-15.390	-0.105	-1.032	-0.109	-42.720
			22:COM9	18:COM5	18:COM5	26:COM13	30:COM17	18:COM5
4475	2221	+ve	2.185	16.383	0.145	0.868	0.069	3.609
			28:COM15	16:COM3	16:COM3	24:COM17	24:COM11	24:COM11
			-11.407	-4.548	-0.050	-2.730	-0.114	-41.009
			22:COM9	26:COM13	26:COM13	18:COM5	18:COM5	18:COM5
	2220	-ve	2.185	14.134	0.145	0.868	0.191	0.000
			28:COM15	16:COM3	16:COM3	24:COM17	20:COM7	-
			-11.407	-6.234	-0.050	-2.730	-0.051	-38.668
			22:COM9	26:COM13	26:COM13	18:COM5	30:COM17	34:CVOL3
4476	2222	+ve	1.715	28.917	0.579	0.000	0.324	48.792
			28:COM15	16:COM3	20:COM7	-	28:COM15	16:COM3
			-12.126	0.000	-0.255	-3.960	-0.643	-30.389
			22:COM9	-	30:COM17	22:COM9	22:COM9	26:COM13
	2221	-ve	1.715	26.668	0.579	0.000	0.492	3.453
			28:COM15	16:COM3	20:COM7	-	20:COM7	24:COM17
			-12.126	0.000	-0.255	-3.960	-0.178	-41.057
			22:COM9	-	30:COM17	22:COM9	30:COM17	18:COM5
4477	2223	+ve	2.917	0.000	1.021	5.127	0.502	42.378
			28:COM15	-	20:COM7	16:COM3	28:COM15	16:COM3
			-9.767	-38.820	-0.530	0.000	-1.143	-33.707
			22:COM9	18:COM5	30:COM17	-	22:COM9	26:COM13
	2035	-ve	2.917	0.000	1.021	5.127	0.856	120.267
			28:COM15	-	20:COM7	16:COM3	20:COM7	16:COM3
			-9.767	-41.069	-0.530	0.000	-0.540	-22.295
			22:COM9	18:COM5	30:COM17	-	30:COM17	26:COM13

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
4478	2224	+ve	1.426	0.894	0.296	3.096	0.260	0.994
			28:COM15	24:COM11	24:COM11	16:COM3	16:COM3	24:COM11
			-11.476	-25.278	-0.183	0.000	-0.322	-43.504
			22:COM9	18:COM5	18:COM5	-	26:COM13	18:COM5
	2223	-ve	1.426	0.000	0.296	3.096	0.297	42.473
			28:COM15	-	24:COM11	16:COM3	24:COM11	16:COM3
			-11.476	-27.526	-0.183	0.000	-0.139	-33.599
			22:COM9	18:COM5	18:COM5	-	18:COM5	26:COM13
4479	2225	+ve	1.656	7.045	0.175	2.394	0.366	0.000
			28:COM15	24:COM11	28:COM15	16:COM3	20:COM7	-
			-11.183	-12.886	-0.352	-1.141	-0.166	-39.224
			22:COM9	18:COM5	22:COM9	26:COM13	30:COM17	35:CVOL4
	2224	-ve	1.656	5.358	0.175	2.394	0.181	1.128
			28:COM15	24:COM11	28:COM15	16:COM3	28:COM15	24:COM11
			-11.183	-15.135	-0.352	-1.141	-0.325	-43.466
			22:COM9	18:COM5	22:COM9	26:COM13	22:COM9	18:COM5
4480	2226	+ve	1.476	16.666	0.218	0.839	0.302	4.059
			28:COM15	16:COM3	28:COM15	24:COM11	20:COM7	24:COM11
			-11.571	-4.344	-0.309	-2.682	-0.203	-41.433
			22:COM9	26:COM13	22:COM9	18:COM5	30:COM17	18:COM5
	2225	-ve	1.476	14.417	0.218	0.839	0.227	0.000
			28:COM15	16:COM3	28:COM15	24:COM11	28:COM15	-
			-11.571	-6.031	-0.309	-2.682	-0.306	-39.222
			22:COM9	26:COM13	22:COM9	18:COM5	22:COM9	35:CVOL4
4481	2227	+ve	1.109	29.151	0.172	0.000	0.324	49.772
			28:COM15	16:COM3	20:COM7	-	20:COM7	16:COM3
			-12.467	0.000	-0.234	-3.855	-0.209	-30.351
			22:COM9	-	30:COM17	22:COM9	30:COM17	26:COM13
	2226	-ve	1.109	26.902	0.172	0.000	0.177	3.922
			28:COM15	16:COM3	20:COM7	-	16:COM3	24:COM11
			-12.467	0.000	-0.234	-3.855	-0.182	-41.474
			22:COM9	-	30:COM17	22:COM9	26:COM13	18:COM5
4482	2228	+ve	7.368	2.860	1.783	10.822	1.592	40.639
			20:COM7	28:COM15	20:COM7	20:COM7	28:COM15	20:COM7
			-1.377	-43.852	-1.633	-0.939	-1.795	-32.016
			30:COM17	22:COM9	30:COM17	30:COM17	22:COM9	30:COM17
	2036	-ve	7.368	1.145	1.783	10.822	1.758	129.852
			20:COM7	28:COM15	20:COM7	20:COM7	20:COM7	20:COM7
			-1.377	-46.139	-1.633	-0.939	-1.664	-35.978
			30:COM17	22:COM9	30:COM17	30:COM17	30:COM17	30:COM17
4483	2229	+ve	4.891	8.895	3.123	12.704	3.072	0.000
			20:COM7	28:COM15	20:COM7	20:COM7	28:COM15	-
			-1.953	-31.317	-2.805	-1.739	-3.094	-25.839
			30:COM17	22:COM9	30:COM17	30:COM17	22:COM9	33:CVOL2
	2228	-ve	4.891	7.180	3.123	12.704	3.102	40.679
			20:COM7	28:COM15	20:COM7	20:COM7	20:COM7	20:COM7
			-1.953	-33.604	-2.805	-1.739	-2.493	-31.941
			30:COM17	22:COM9	30:COM17	30:COM17	30:COM17	30:COM17

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
4484	2230	+ve	9.899	1.400	2.222	0.349	3.849	0.000
			20:COM7	28:COM15	28:COM15	24:COM17	20:COM7	-
			-5.421	-10.807	-3.976	-3.190	-1.796	-44.514
			30:COM17	22:COM9	22:COM9	18:COM5	30:COM17	22:COM9
	2229	-ve	9.899	0.000	2.222	0.349	2.612	0.000
			20:COM7	-	28:COM15	24:COM17	28:COM15	-
			-5.421	-13.094	-3.976	-3.190	-4.038	-21.182
			30:COM17	22:COM9	22:COM9	18:COM5	22:COM9	22:COM9
4485	2231	+ve	10.471	6.058	0.841	0.657	2.837	0.000
			20:COM7	20:COM7	28:COM15	28:COM15	20:COM7	-
			-6.313	-0.619	-1.956	-3.654	-1.846	-46.645
			30:COM17	30:COM17	22:COM9	22:COM9	30:COM17	22:COM9
	2230	-ve	10.471	3.770	0.841	0.657	0.000	0.000
			20:COM7	20:COM7	28:COM15	28:COM15	-	-
			-6.313	-2.334	-1.956	-3.654	-1.064	-44.435
			30:COM17	30:COM17	22:COM9	22:COM9	22:COM9	22:COM9
4486	2232	+ve	13.249	14.572	3.297	2.273	4.248	17.429
			20:COM7	20:COM7	28:COM15	28:COM15	20:COM7	28:COM15
			-6.778	0.000	-4.390	-6.383	-2.859	-27.644
			30:COM17	-	22:COM9	22:COM9	30:COM17	22:COM9
	2231	-ve	13.249	12.285	3.297	2.273	3.680	0.000
			20:COM7	20:COM7	28:COM15	28:COM15	28:COM15	-
			-6.778	0.000	-4.390	-6.383	-4.459	-46.548
			30:COM17	-	22:COM9	22:COM9	22:COM9	22:COM9
4487	2233	+ve	17.374	25.650	0.393	2.305	1.286	62.100
			20:COM7	34:CVOL3	28:COM15	28:COM15	16:COM3	20:COM7
			0.000	0.000	-1.660	-6.596	-0.011	-0.391
			-	-	22:COM9	22:COM9	26:COM13	30:COM17
	2232	-ve	17.374	23.363	0.393	2.305	1.243	17.191
			20:COM7	34:CVOL3	28:COM15	28:COM15	28:COM15	28:COM15
			0.000	0.000	-1.660	-6.596	-2.481	-27.777
			-	-	22:COM9	22:COM9	22:COM9	22:COM9
4488	2234	+ve	20.513	14.027	1.300	2.443	1.123	41.264
			20:COM7	28:COM15	28:COM15	20:COM7	20:COM7	20:COM7
			-18.777	-47.044	-1.441	0.000	-0.891	-38.387
			30:COM17	22:COM9	22:COM9	-	30:COM17	30:COM17
	2006	-ve	20.513	12.402	1.300	2.443	1.552	131.665
			20:COM7	28:COM15	28:COM15	20:COM7	28:COM15	20:COM7
			-18.777	-49.211	-1.441	0.000	-1.586	-63.202
			30:COM17	22:COM9	22:COM9	-	22:COM9	30:COM17
4489	2235	+ve	13.861	19.991	0.430	2.490	0.053	0.000
			20:COM7	28:COM15	20:COM7	24:COM17	28:COM15	-
			-12.046	-30.894	-0.103	-1.753	-0.343	-18.701
			30:COM17	22:COM9	30:COM17	18:COM5	22:COM9	22:COM9
	2234	-ve	13.861	18.366	0.430	2.490	0.471	41.390
			20:COM7	28:COM15	20:COM7	24:COM17	20:COM7	20:COM7
			-12.046	-33.061	-0.103	-1.753	-0.147	-38.445
			30:COM17	22:COM9	30:COM17	18:COM5	30:COM17	30:COM17

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
4490	2236	+ve	9.862	27.911	0.752	5.532	0.049	45.977
			28:COM15	20:COM7	16:COM3	16:COM3	24:COM11	28:COM15
			-9.060	-20.170	-0.047	-1.585	-0.778	-55.897
			22:COM9	30:COM17	26:COM13	26:COM13	18:COM5	22:COM9
	2235	-ve	9.862	25.744	0.752	5.532	0.639	0.000
			28:COM15	20:COM7	16:COM3	16:COM3	16:COM3	-
			-9.060	-21.794	-0.047	-1.585	-0.043	-18.341
			22:COM9	30:COM17	26:COM13	26:COM13	26:COM13	22:COM9
4491	2237	+ve	19.498	32.347	0.955	2.648	3.294	20.408
			16:COM3	20:COM7	28:COM15	28:COM15	20:COM7	28:COM15
			-8.373	-24.830	-4.069	-6.767	-0.822	-40.811
			26:COM13	30:COM17	22:COM9	22:COM9	30:COM17	22:COM9
	2037	-ve	19.498	30.522	0.955	2.648	1.053	70.811
			16:COM3	28:COM15	28:COM15	28:COM15	28:COM15	28:COM15
			-8.373	-26.967	-4.069	-6.767	-4.694	-102.083
			26:COM13	22:COM9	22:COM9	22:COM9	22:COM9	22:COM9
4492	2238	+ve	18.607	40.578	0.005	1.851	0.557	36.354
			16:COM3	20:COM7	24:COM11	28:COM15	20:COM7	20:COM7
			-11.255	-19.219	-0.395	-2.496	-0.035	-19.135
			26:COM13	30:COM17	18:COM5	22:COM9	30:COM17	30:COM17
	2237	-ve	18.607	38.290	0.005	1.851	0.085	20.761
			16:COM3	20:COM7	24:COM11	28:COM15	28:COM15	28:COM15
			-11.255	-20.935	-0.395	-2.496	-0.337	-41.941
			26:COM13	30:COM17	18:COM5	22:COM9	22:COM9	22:COM9
4493	2239	+ve	16.168	0.000	0.143	0.000	1.405	46.888
			16:COM3	-	28:COM15	-	20:COM7	16:COM3
			-4.396	-41.336	-1.690	-12.406	-0.057	-23.102
			26:COM13	18:COM5	22:COM9	34:CVOL3	30:COM17	26:COM13
	2038	-ve	16.168	0.000	0.143	0.000	0.231	129.798
			16:COM3	-	28:COM15	-	28:COM15	16:COM3
			-4.396	-43.590	-1.690	-12.406	-1.907	-10.639
			26:COM13	18:COM5	22:COM9	34:CVOL3	22:COM9	26:COM13
4494	2240	+ve	15.468	0.000	0.000	0.000	0.481	6.182
			16:COM3	-	-	-	20:COM7	24:COM11
			-6.179	-25.448	-0.440	-9.725	0.000	-39.496
			26:COM13	18:COM5	22:COM9	34:CVOL3	-	18:COM5
	2239	-ve	15.468	0.000	0.000	0.000	0.030	47.102
			16:COM3	-	-	-	28:COM15	16:COM3
			-6.179	-27.703	-0.440	-9.725	-0.398	-22.996
			26:COM13	18:COM5	22:COM9	34:CVOL3	22:COM9	26:COM13
4495	2241	+ve	17.473	2.015	0.047	0.000	0.174	0.000
			16:COM3	24:COM11	28:COM15	-	28:COM15	-
			-5.871	-14.100	-0.165	-5.531	-0.065	-48.349
			26:COM13	18:COM5	22:COM9	18:COM5	22:COM9	35:CVOL4
	2240	-ve	17.473	0.324	0.047	0.000	0.041	6.294
			16:COM3	24:COM11	28:COM15	-	28:COM15	24:COM11
			-5.871	-16.355	-0.165	-5.531	-0.162	-39.402
			26:COM13	18:COM5	22:COM9	18:COM5	22:COM9	18:COM5

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
4496	2242	+ve	18.979	6.509	0.079	2.102	0.086	0.000
			16:COM3	16:COM3	20:COM7	16:COM3	28:COM15	-
			-6.321	-4.949	-0.071	-1.471	-0.111	-49.016
			26:COM13	26:COM13	30:COM17	26:COM13	22:COM9	35:CVOL4
	2241	-ve	18.979	4.685	0.079	2.102	0.066	0.000
			16:COM3	24:COM11	20:COM7	16:COM3	28:COM15	-
			-6.321	-7.071	-0.071	-1.471	-0.074	-48.306
			26:COM13	18:COM5	30:COM17	26:COM13	22:COM9	35:CVOL4
4497	2243	+ve	20.044	15.868	0.204	6.188	0.076	5.035
			16:COM3	16:COM3	16:COM3	16:COM3	24:COM11	24:COM17
			-7.129	-0.476	-0.058	0.000	-0.215	-40.266
			26:COM13	26:COM13	26:COM13	-	18:COM5	18:COM5
	2242	-ve	20.044	13.613	0.204	6.188	0.190	0.000
			16:COM3	16:COM3	16:COM3	16:COM3	16:COM3	-
			-7.129	-2.167	-0.058	0.000	-0.043	-49.112
			26:COM13	26:COM13	26:COM13	-	26:COM13	35:CVOL4
4498	2244	+ve	19.652	27.740	0.465	9.587	0.776	44.850
			16:COM3	16:COM3	28:COM15	34:CVOL3	20:COM7	16:COM3
			-8.161	0.000	-0.400	0.000	-0.572	-22.297
			26:COM13	-	22:COM9	-	30:COM17	26:COM13
	2243	-ve	19.652	25.485	0.465	9.587	0.449	4.907
			16:COM3	16:COM3	28:COM15	34:CVOL3	16:COM3	24:COM17
			-8.161	0.000	-0.400	0.000	-0.117	-40.426
			26:COM13	-	22:COM9	-	26:COM13	18:COM5
4499	2245	+ve	15.585	0.000	0.146	0.000	1.117	51.374
			16:COM3	-	28:COM15	-	20:COM7	16:COM3
			-4.619	-40.888	-1.364	-12.852	-0.044	-27.791
			26:COM13	18:COM5	22:COM9	34:CVOL3	30:COM17	26:COM13
	2039	-ve	15.585	0.000	0.146	0.000	0.261	134.239
			16:COM3	-	28:COM15	-	28:COM15	16:COM3
			-4.619	-43.163	-1.364	-12.852	-1.589	-17.009
			26:COM13	18:COM5	22:COM9	34:CVOL3	22:COM9	26:COM13
4500	2246	+ve	15.885	0.000	0.362	0.000	0.624	10.049
			20:COM7	-	24:COM11	-	16:COM3	24:COM17
			-7.048	-25.648	-0.664	-10.363	-0.201	-41.948
			30:COM17	18:COM5	18:COM5	34:CVOL3	26:COM13	18:COM5
	2245	-ve	15.885	0.000	0.362	0.000	0.517	51.573
			20:COM7	-	24:COM11	-	24:COM11	16:COM3
			-7.048	-27.923	-0.664	-10.363	-0.688	-27.672
			30:COM17	18:COM5	18:COM5	34:CVOL3	18:COM5	26:COM13
4501	2247	+ve	15.928	3.411	0.120	0.000	0.292	0.000
			20:COM7	24:COM11	28:COM15	-	20:COM7	-
			-5.908	-14.551	-0.259	-6.436	-0.133	-46.844
			30:COM17	18:COM5	22:COM9	18:COM5	30:COM17	35:CVOL4
	2246	-ve	15.928	1.704	0.120	0.000	0.139	10.154
			20:COM7	24:COM11	28:COM15	-	24:COM11	24:COM17
			-5.908	-16.826	-0.259	-6.436	-0.254	-41.840
			30:COM17	18:COM5	22:COM9	18:COM5	18:COM5	18:COM5

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
4502	2248	+ve	15.447	8.257	0.068	1.669	0.165	0.000
			16:COM3	16:COM3	28:COM15	24:COM17	20:COM7	-
			-5.318	-5.765	-0.129	-1.817	-0.106	-45.795
			26:COM13	26:COM13	22:COM9	18:COM5	30:COM17	35:CVOL4
	2247	-ve	15.447	6.028	0.068	1.669	0.055	0.000
			16:COM3	24:COM11	28:COM15	24:COM17	24:COM11	-
			-5.318	-7.518	-0.129	-1.817	-0.117	-46.771
			26:COM13	18:COM5	22:COM9	18:COM5	18:COM5	35:CVOL4
4503	2249	+ve	14.863	17.481	0.081	5.740	0.059	10.854
			16:COM3	16:COM3	24:COM11	16:COM3	16:COM3	24:COM17
			-5.322	-1.269	-0.046	0.000	-0.082	-39.367
			26:COM13	26:COM13	18:COM5	-	26:COM13	18:COM5
	2248	-ve	14.863	15.206	0.081	5.740	0.093	0.000
			16:COM3	16:COM3	24:COM11	16:COM3	24:COM11	-
			-5.322	-2.975	-0.046	0.000	-0.048	-45.837
			26:COM13	26:COM13	18:COM5	-	18:COM5	35:CVOL4
4504	2250	+ve	13.626	28.852	0.468	9.973	0.274	55.540
			16:COM3	16:COM3	20:COM7	34:CVOL3	20:COM7	16:COM3
			-5.744	0.000	-0.157	0.000	-0.480	-25.593
			26:COM13	-	30:COM17	-	30:COM17	26:COM13
	2249	-ve	13.626	26.576	0.468	9.973	0.449	10.730
			16:COM3	16:COM3	20:COM7	34:CVOL3	20:COM7	24:COM17
			-5.744	0.000	-0.157	0.000	-0.041	-39.444
			26:COM13	-	30:COM17	-	30:COM17	18:COM5
4505	2251	+ve	5.333	0.000	1.318	4.071	3.910	21.433
			20:COM7	-	24:COM11	24:COM17	16:COM3	16:COM3
			-3.036	-25.863	-2.945	-5.211	-2.259	-4.357
			30:COM17	18:COM5	18:COM5	18:COM5	26:COM13	26:COM13
	2041	-ve	5.333	0.000	1.318	4.071	0.383	74.621
			20:COM7	-	24:COM11	24:COM17	24:COM11	16:COM3
			-3.036	-28.137	-2.945	-5.211	-1.938	0.000
			30:COM17	18:COM5	18:COM5	18:COM5	18:COM5	-
4506	2252	+ve	8.165	0.000	0.943	3.966	0.751	0.000
			20:COM7	-	24:COM11	24:COM17	16:COM3	-
			-4.266	-14.281	-1.363	-3.740	-0.467	-22.762
			30:COM17	18:COM5	18:COM5	18:COM5	26:COM13	18:COM5
	2251	-ve	8.165	0.000	0.943	3.966	2.487	21.638
			20:COM7	-	24:COM11	24:COM17	24:COM11	16:COM3
			-4.266	-16.554	-1.363	-3.740	-3.030	-4.249
			30:COM17	18:COM5	18:COM5	18:COM5	18:COM5	26:COM13
4507	2253	+ve	10.093	0.000	2.941	3.359	1.966	0.000
			20:COM7	-	16:COM3	24:COM17	24:COM11	-
			-5.067	-6.187	-2.326	-3.044	-2.524	-31.697
			30:COM17	18:COM5	26:COM13	18:COM5	18:COM5	18:COM5
	2252	-ve	10.093	0.000	2.941	3.359	3.274	0.000
			20:COM7	-	16:COM3	24:COM17	16:COM3	-
			-5.067	-8.460	-2.326	-3.044	-2.620	-22.666
			30:COM17	18:COM5	26:COM13	18:COM5	26:COM13	18:COM5

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
4508	2254	+ve	12.357	3.219	3.703	1.220	2.968	0.000
			20:COM7	16:COM3	16:COM3	24:COM1	24:COM1	-
			-6.055	-0.839	-2.446	-1.811	-4.261	-28.740
			30:COM1	26:COM1	26:COM1	18:COM5	18:COM5	35:CVOL
	2253	-ve	12.357	1.040	3.703	1.220	3.044	0.000
			20:COM7	24:COM1	16:COM3	24:COM1	16:COM3	-
			-6.055	-2.637	-2.446	-1.811	-1.859	-31.745
			30:COM1	18:COM5	26:COM1	18:COM5	26:COM1	18:COM5
4509	2255	+ve	13.108	11.376	1.994	1.452	0.418	0.000
			20:COM7	16:COM3	16:COM3	24:COM1	24:COM1	-
			-5.875	0.000	-0.240	-2.594	-2.057	-19.653
			30:COM1	-	26:COM1	18:COM5	18:COM5	18:COM5
	2254	-ve	13.108	9.103	1.994	1.452	3.186	0.000
			20:COM7	16:COM3	16:COM3	24:COM1	16:COM3	-
			-5.875	-0.272	-0.240	-2.594	-1.369	-28.779
			30:COM1	26:COM1	26:COM1	18:COM5	26:COM1	35:CVOL
4510	2256	+ve	13.577	22.343	4.748	5.257	4.117	33.978
			20:COM7	16:COM3	16:COM3	16:COM3	24:COM1	16:COM3
			-6.712	0.000	-3.649	-5.418	-4.745	-11.460
			30:COM1	-	26:COM1	26:COM1	18:COM5	26:COM1
	2255	-ve	13.577	20.069	4.748	5.257	4.619	0.000
			20:COM7	16:COM3	16:COM3	16:COM3	16:COM3	-
			-6.712	0.000	-3.649	-5.418	-3.080	-19.767
			30:COM1	-	26:COM1	26:COM1	26:COM1	18:COM5
4511	6250	+ve	3.987	0.000	3.018	4.366	1.889	45.342
			24:COM1	-	20:COM7	20:COM7	28:COM1	16:COM3
			-4.912	-36.858	-2.112	-4.021	-2.751	-39.525
			18:COM5	18:COM5	30:COM1	30:COM1	22:COM9	26:COM1
	2022	-ve	3.987	0.000	3.018	4.366	3.483	122.566
			24:COM1	-	20:COM7	20:COM7	20:COM7	16:COM3
			-4.912	-39.224	-2.112	-4.021	-2.486	-34.307
			18:COM5	18:COM5	30:COM1	30:COM1	30:COM1	26:COM1
4512	6249	+ve	5.783	4.889	0.821	3.345	0.293	3.462
			16:COM3	24:COM1	20:COM7	20:COM7	28:COM1	24:COM1
			-5.530	-24.020	-0.422	-2.664	-0.672	-41.090
			26:COM1	18:COM5	30:COM1	30:COM1	22:COM9	18:COM5
	6250	-ve	5.783	3.100	0.821	3.345	1.032	45.717
			16:COM3	24:COM1	20:COM7	20:COM7	20:COM7	16:COM3
			-5.530	-26.405	-0.422	-2.664	-0.585	-39.452
			26:COM1	18:COM5	30:COM1	30:COM1	30:COM1	26:COM1
4513	6248	+ve	5.198	12.938	0.295	2.750	0.778	0.000
			16:COM3	16:COM3	24:COM1	28:COM1	16:COM3	-
			-4.040	-12.383	-0.626	-3.407	-0.355	-33.752
			26:COM1	26:COM1	18:COM5	22:COM9	26:COM1	18:COM5
	6249	-ve	5.198	10.913	0.295	2.750	0.298	3.705
			16:COM3	24:COM1	24:COM1	28:COM1	28:COM1	24:COM1
			-4.040	-14.531	-0.626	-3.407	-0.558	-40.921
			26:COM1	18:COM5	18:COM5	22:COM9	22:COM9	18:COM5

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
4514	6247	+ve	3.748	26.363	0.201	2.261	0.880	35.864
			28:COM15	16:COM3	24:COM11	28:COM15	16:COM3	24:COM11
			-4.932	-6.086	-0.980	-3.246	-0.266	-38.557
			22:COM9	26:COM13	18:COM5	22:COM9	26:COM13	18:COM5
	6248	-ve	3.748	23.981	0.201	2.261	0.220	0.000
			28:COM15	16:COM3	24:COM11	28:COM15	24:COM11	-
			-4.932	-7.873	-0.980	-3.246	-1.216	-33.498
			22:COM9	26:COM13	18:COM5	22:COM9	18:COM5	18:COM5
4515	6223	+ve	4.653	9.024	2.609	1.259	0.727	27.961
			24:COM11	24:COM11	20:COM7	28:COM15	28:COM15	16:COM3
			-6.258	-22.867	-0.783	-7.857	-2.402	-25.106
			18:COM5	18:COM5	30:COM17	22:COM9	22:COM9	26:COM13
	2031	-ve	4.653	7.150	2.609	1.259	3.262	80.212
			24:COM11	24:COM11	20:COM7	28:COM15	20:COM7	16:COM3
			-6.258	-25.365	-0.783	-7.857	-0.980	-42.627
			18:COM5	18:COM5	30:COM17	22:COM9	30:COM17	26:COM13
4516	6224	+ve	1.685	16.554	0.187	0.000	0.617	9.508
			24:COM11	16:COM3	24:COM11	-	16:COM3	34:CVOL3
			-6.964	-11.233	-0.643	-10.975	-0.256	0.000
			18:COM5	26:COM13	18:COM5	18:COM5	26:COM13	-
	6223	-ve	1.685	14.055	0.187	0.000	0.173	27.901
			24:COM11	16:COM3	24:COM11	-	24:COM11	16:COM3
			-6.964	-13.107	-0.643	-10.975	-0.799	-25.183
			18:COM5	26:COM13	18:COM5	18:COM5	18:COM5	26:COM13
4517	2263	+ve	69.517	43.066	6.291	23.911	1.031	118.789
			34:CVOL3	34:CVOL3	20:COM7	20:COM7	28:COM15	34:CVOL3
			0.000	0.000	-1.269	0.000	-6.578	0.000
			-	-	30:COM17	-	22:COM9	-
	2343	-ve	69.517	39.719	6.291	23.911	5.596	39.622
			34:CVOL3	34:CVOL3	20:COM7	20:COM7	20:COM7	32:CVOL1
			0.000	0.000	-1.269	0.000	-1.426	0.000
			-	-	30:COM17	-	30:COM17	-
4518	2264	+ve	117.690	65.082	4.069	17.111	0.574	212.840
			34:CVOL3	34:CVOL3	20:COM7	20:COM7	28:COM15	34:CVOL3
			0.000	0.000	-0.081	0.000	-2.733	0.000
			-	-	30:COM17	-	22:COM9	-
	2263	-ve	117.690	62.257	4.069	17.111	3.917	108.875
			34:CVOL3	34:CVOL3	20:COM7	20:COM7	20:COM7	34:CVOL3
			0.000	0.000	-0.081	0.000	0.000	0.000
			-	-	30:COM17	-	-	-
4519	2159	+ve	159.942	45.448	3.444	85.178	8.393	187.820
			20:COM7	28:COM15	28:COM15	20:COM7	20:COM7	20:COM7
			-57.038	-74.715	-13.276	-15.598	-2.365	-57.126
			30:COM17	22:COM9	22:COM9	30:COM17	30:COM17	30:COM17
	2023	-ve	159.942	42.899	3.444	85.178	3.328	312.886
			20:COM7	28:COM15	28:COM15	20:COM7	28:COM15	20:COM7
			-57.038	-78.113	-13.276	-15.598	-13.395	-129.413
			30:COM17	22:COM9	22:COM9	30:COM17	22:COM9	30:COM17

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
4520	2158	+ve	115.492	38.987	0.000	72.888	8.885	97.290
			20:COM7	28:COM15	-	20:COM7	20:COM7	20:COM7
			-35.804	-59.383	-9.748	-10.859	-0.520	0.000
			30:COM17	22:COM9	22:COM9	30:COM17	30:COM17	-
	2159	-ve	115.492	36.445	0.000	72.888	0.000	196.919
			20:COM7	28:COM15	-	20:COM7	-	20:COM7
			-35.804	-62.772	-9.748	-10.859	-7.044	-61.242
			30:COM17	22:COM9	22:COM9	30:COM17	22:COM9	30:COM17
4521	2265	+ve	4.382	0.000	0.014	0.070	0.124	15.991
			16:COM3	-	24:COM11	24:COM11	16:COM3	16:COM3
			-3.356	-6.939	-0.137	-1.227	-0.020	-5.637
			26:COM13	18:COM5	18:COM5	18:COM5	26:COM13	26:COM13
	2075	-ve	4.382	0.000	0.014	0.070	0.008	23.724
			16:COM3	-	24:COM11	24:COM11	24:COM11	16:COM3
			-3.356	-7.841	-0.137	-1.227	-0.143	0.000
			26:COM13	18:COM5	18:COM5	18:COM5	18:COM5	-
4522	2266	+ve	6.038	0.000	0.050	0.000	0.002	4.193
			16:COM3	-	16:COM3	-	24:COM11	24:COM11
			-1.626	-6.693	-0.001	-1.123	-0.054	-12.106
			26:COM13	35:CVOL4	26:COM13	35:CVOL4	18:COM5	18:COM5
	2265	-ve	6.038	0.000	0.050	0.000	0.044	15.710
			16:COM3	-	16:COM3	-	16:COM3	16:COM3
			-1.626	-7.594	-0.001	-1.123	0.000	-5.767
			26:COM13	35:CVOL4	26:COM13	35:CVOL4	-	26:COM13
4523	2267	+ve	6.763	0.720	0.068	0.012	0.013	0.000
			16:COM3	24:COM11	16:COM3	24:COM11	24:COM11	-
			-1.575	-5.380	-0.012	-0.684	-0.059	-15.015
			26:COM13	18:COM5	26:COM13	18:COM5	18:COM5	18:COM5
	2266	-ve	6.763	0.044	0.068	0.012	0.073	4.043
			16:COM3	24:COM11	16:COM3	24:COM11	16:COM3	24:COM11
			-1.575	-6.281	-0.012	-0.684	-0.011	-12.251
			26:COM13	18:COM5	26:COM13	18:COM5	26:COM13	18:COM5
4524	2268	+ve	7.482	2.803	0.018	0.251	0.035	0.000
			16:COM3	16:COM3	24:COM11	16:COM3	16:COM3	-
			-1.958	-2.134	-0.030	-0.171	-0.013	-14.972
			26:COM13	26:COM13	18:COM5	26:COM13	26:COM13	35:CVOL4
	2267	-ve	7.482	2.063	0.018	0.251	0.022	0.000
			16:COM3	24:COM11	24:COM11	16:COM3	16:COM3	-
			-1.958	-2.971	-0.030	-0.171	-0.023	-15.020
			26:COM13	18:COM5	18:COM5	26:COM13	26:COM13	18:COM5
4525	2269	+ve	8.367	5.963	0.000	0.790	0.091	3.404
			16:COM3	16:COM3	24:COM11	16:COM3	16:COM3	24:COM11
			-2.327	-0.194	-0.086	0.000	0.000	-12.714
			26:COM13	26:COM13	18:COM5	-	-	18:COM5
	2268	-ve	8.367	5.062	0.000	0.790	0.003	0.000
			16:COM3	16:COM3	24:COM11	16:COM3	24:COM11	-
			-2.327	-0.870	-0.086	0.000	-0.077	-14.894
			26:COM13	26:COM13	18:COM5	-	18:COM5	18:COM5

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
4526	2270	+ve	8.785	6.803	0.000	1.167	0.066	13.174
			16:COM3	16:COM3	-	35:CVOL4	20:COM7	16:COM3
			-2.648	0.000	-0.069	0.000	-0.000	-7.292
			26:COM1	-	22:COM9	-	30:COM1	26:COM1
	2269	-ve	8.785	5.901	0.000	1.167	0.000	3.562
			16:COM3	16:COM3	-	35:CVOL4	-	24:COM1
			-2.648	0.000	-0.069	0.000	-0.074	-12.535
			26:COM1	-	22:COM9	-	18:COM5	18:COM5
4527	2271	+ve	7.632	0.000	0.016	0.000	0.097	18.695
			20:COM7	-	28:COM1	-	20:COM7	16:COM3
			-4.935	-5.710	-0.113	-1.116	-0.009	-8.105
			30:COM1	35:CVOL4	22:COM9	18:COM5	30:COM1	26:COM1
	2076	-ve	7.632	0.000	0.016	0.000	0.024	28.517
			20:COM7	-	28:COM1	-	28:COM1	16:COM3
			-4.935	-6.620	-0.113	-1.116	-0.127	-0.662
			30:COM1	35:CVOL4	22:COM9	18:COM5	22:COM9	26:COM1
4528	2272	+ve	7.600	0.000	0.046	0.000	0.004	5.923
			20:COM7	-	35:CVOL4	-	24:COM1	24:COM1
			-2.650	-7.119	0.000	-1.178	-0.053	-13.298
			30:COM1	18:COM5	-	35:CVOL4	18:COM5	18:COM5
	2271	-ve	7.600	0.000	0.046	0.000	0.041	18.376
			20:COM7	-	35:CVOL4	-	35:CVOL4	16:COM3
			-2.650	-8.029	0.000	-1.178	0.000	-8.224
			30:COM1	18:COM5	-	35:CVOL4	-	26:COM1
4529	2273	+ve	7.683	1.301	0.059	0.000	0.013	0.000
			20:COM7	24:COM1	16:COM3	-	24:COM1	-
			-2.654	-5.617	-0.009	-0.747	-0.054	-14.733
			30:COM1	18:COM5	26:COM1	18:COM5	18:COM5	18:COM5
	2272	-ve	7.683	0.618	0.059	0.000	0.062	5.759
			20:COM7	24:COM1	16:COM3	-	16:COM3	24:COM1
			-2.654	-6.527	-0.009	-0.747	-0.005	-13.449
			30:COM1	18:COM5	26:COM1	18:COM5	26:COM1	18:COM5
4530	2274	+ve	7.357	3.508	0.020	0.195	0.034	0.000
			20:COM7	16:COM3	24:COM1	24:COM1	16:COM3	-
			-2.569	-2.468	-0.027	-0.204	-0.018	-14.295
			30:COM1	26:COM1	18:COM5	18:COM5	26:COM1	18:COM5
	2273	-ve	7.357	2.604	0.020	0.195	0.024	0.000
			20:COM7	24:COM1	24:COM1	24:COM1	16:COM3	-
			-2.569	-3.157	-0.027	-0.204	-0.022	-14.748
			30:COM1	18:COM5	18:COM5	18:COM5	26:COM1	18:COM5
4531	2275	+ve	6.921	6.788	0.011	0.707	0.079	5.875
			20:COM7	16:COM3	24:COM1	16:COM3	16:COM3	24:COM1
			-2.146	-0.438	-0.074	0.000	-0.009	-12.216
			30:COM1	26:COM1	18:COM5	-	26:COM1	18:COM5
	2274	-ve	6.921	5.877	0.011	0.707	0.013	0.000
			20:COM7	16:COM3	24:COM1	16:COM3	24:COM1	-
			-2.146	-1.121	-0.074	0.000	-0.068	-14.277
			30:COM1	26:COM1	18:COM5	-	18:COM5	18:COM5

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
4532	2276	+ve	6.432	7.938	0.000	1.155	0.046	18.937
			16:COM3	16:COM3	24:COM11	35:CVOL4	16:COM3	16:COM3
			-2.098	0.000	-0.054	0.000	0.000	-7.066
			26:COM13	-	18:COM5	-	-	26:COM13
	2275	-ve	6.432	7.028	0.000	1.155	0.006	6.029
			16:COM3	16:COM3	24:COM11	35:CVOL4	24:COM11	24:COM11
			-2.098	0.000	-0.054	0.000	-0.062	-12.055
			26:COM13	-	18:COM5	-	18:COM5	18:COM5
4533	2279	+ve	6.855	6.745	0.080	0.658	0.103	11.934
			20:COM7	35:CVOL4	24:COM11	16:COM3	16:COM3	16:COM3
			-1.788	0.000	-0.097	-0.445	-0.077	-1.684
			30:COM17	-	18:COM5	26:COM13	26:COM13	26:COM13
	2278	-ve	6.855	5.126	0.080	0.658	0.081	2.080
			20:COM7	35:CVOL4	24:COM11	16:COM3	24:COM11	24:COM11
			-1.788	0.000	-0.097	-0.445	-0.089	-9.341
			30:COM17	-	18:COM5	26:COM13	18:COM5	18:COM5
4535	2281	+ve	2.378	75.304	0.052	0.000	1.528	14.408
			24:COM11	16:COM3	28:COM15	-	20:COM7	16:COM3
			-1.220	-65.677	-1.391	-3.366	-0.266	-0.699
			18:COM5	26:COM13	22:COM9	18:COM5	30:COM17	26:COM13
	5467	-ve	2.378	72.979	0.052	0.000	0.085	133.618
			24:COM11	16:COM3	28:COM15	-	24:COM11	24:COM11
			-1.220	-67.421	-1.391	-3.366	-1.522	-135.220
			18:COM5	26:COM13	22:COM9	18:COM5	18:COM5	18:COM5
4539	2156	+ve	28.550	110.620	2.351	10.090	1.232	13.041
			16:COM3	16:COM3	20:COM7	20:COM7	28:COM15	24:COM11
			-17.675	-102.502	-1.601	-7.053	-2.044	-15.990
			26:COM13	26:COM13	30:COM17	30:COM17	22:COM9	18:COM5
	5481	-ve	28.550	107.829	2.351	10.090	2.698	194.066
			16:COM3	16:COM3	20:COM7	20:COM7	20:COM7	24:COM11
			-17.675	-104.595	-1.601	-7.053	-1.996	-208.461
			26:COM13	26:COM13	30:COM17	30:COM17	30:COM17	18:COM5
4540	2282	+ve	59.112	44.386	0.766	0.761	2.434	21.708
			20:COM7	28:COM15	28:COM15	28:COM15	20:COM7	28:COM15
			-50.344	-81.826	-2.081	-14.210	-1.540	-24.266
			30:COM17	22:COM9	22:COM9	22:COM9	30:COM17	22:COM9
	2014	-ve	59.112	40.556	0.766	0.761	0.308	221.956
			20:COM7	28:COM15	28:COM15	28:COM15	28:COM15	20:COM7
			-50.344	-87.786	-2.081	-14.210	-2.530	-124.156
			30:COM17	22:COM9	22:COM9	22:COM9	22:COM9	30:COM17
4541	2283	+ve	55.641	37.526	3.356	12.046	4.214	56.186
			20:COM7	28:COM15	20:COM7	20:COM7	20:COM7	28:COM15
			-49.716	-45.276	-2.921	-3.259	-3.358	-101.071
			30:COM17	22:COM9	30:COM17	30:COM17	30:COM17	22:COM9
	2282	-ve	55.641	34.068	3.356	12.046	4.018	6.006
			20:COM7	28:COM15	20:COM7	20:COM7	20:COM7	28:COM15
			-49.716	-50.658	-2.921	-3.259	-2.233	-24.841
			30:COM17	22:COM9	30:COM17	30:COM17	30:COM17	22:COM9

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
4542	2284	+ve	4.551	3.527	0.078	0.585	0.026	3.455
			20:COM7	16:COM3	16:COM3	16:COM3	24:COM11	28:COM15
			-1.421	-0.951	-0.023	-0.194	-0.074	-9.524
			30:COM17	26:COM13	26:COM13	26:COM13	18:COM5	22:COM9
	2316	-ve	4.551	2.690	0.078	0.585	0.067	3.608
			20:COM7	16:COM3	16:COM3	16:COM3	16:COM3	28:COM15
			-1.421	-1.579	-0.023	-0.194	-0.016	-13.021
			30:COM17	26:COM13	26:COM13	26:COM13	26:COM13	22:COM9
4543	2285	+ve	6.984	5.194	0.033	0.846	0.030	6.489
			20:COM7	20:COM7	24:COM11	16:COM3	16:COM3	16:COM3
			-2.954	0.000	-0.034	-0.062	-0.027	-3.705
			30:COM17	-	18:COM5	26:COM13	26:COM13	26:COM13
	2284	-ve	6.984	4.357	0.033	0.846	0.033	3.564
			20:COM7	20:COM7	24:COM11	16:COM3	24:COM11	28:COM15
			-2.954	-0.300	-0.034	-0.062	-0.031	-9.465
			30:COM17	30:COM17	18:COM5	26:COM13	18:COM5	22:COM9
4544	2286	+ve	6.721	4.432	0.029	0.000	0.114	7.340
			16:COM3	28:COM15	28:COM15	-	20:COM7	20:COM7
			-3.923	-5.165	-0.117	-0.261	-0.026	-8.030
			26:COM13	22:COM9	22:COM9	22:COM9	30:COM17	30:COM17
	2074	-ve	6.721	3.765	0.029	0.000	0.029	18.068
			16:COM3	28:COM15	28:COM15	-	28:COM15	20:COM7
			-3.923	-6.054	-0.117	-0.261	-0.113	-15.846
			26:COM13	22:COM9	22:COM9	22:COM9	22:COM9	30:COM17
4545	2287	+ve	10.528	6.887	0.047	0.862	0.185	5.049
			20:COM7	20:COM7	24:COM11	16:COM3	16:COM3	20:COM7
			-4.379	-4.052	-0.165	-0.401	-0.053	-1.647
			30:COM17	30:COM17	18:COM5	26:COM13	26:COM13	30:COM17
	2286	-ve	10.528	5.984	0.047	0.862	0.039	7.290
			20:COM7	20:COM7	24:COM11	16:COM3	24:COM11	20:COM7
			-4.379	-4.729	-0.165	-0.401	-0.138	-7.892
			30:COM17	30:COM17	18:COM5	26:COM13	18:COM5	30:COM17
4546	2288	+ve	9.764	4.923	0.053	0.391	0.146	13.727
			20:COM7	20:COM7	24:COM11	28:COM15	16:COM3	20:COM7
			-3.814	-1.456	-0.139	-0.398	-0.053	-5.039
			30:COM17	30:COM17	18:COM5	22:COM9	26:COM13	30:COM17
	2287	-ve	9.764	4.043	0.053	0.391	0.050	5.183
			20:COM7	20:COM7	24:COM11	28:COM15	24:COM11	20:COM7
			-3.814	-2.116	-0.139	-0.398	-0.120	-1.640
			30:COM17	30:COM17	18:COM5	22:COM9	18:COM5	30:COM17
4548	2292	+ve	7.999	38.455	2.784	5.872	2.379	61.653
			20:COM7	20:COM7	24:COM11	24:COM17	16:COM3	20:COM7
			-2.375	-2.714	-3.183	-33.014	-2.238	-13.422
			30:COM17	30:COM17	18:COM5	18:COM5	26:COM13	30:COM17
	2090	-ve	7.999	34.900	2.784	5.872	1.890	8.379
			20:COM7	20:COM7	24:COM11	24:COM17	24:COM11	24:COM17
			-2.375	-4.720	-3.183	-33.014	-2.333	-8.508
			30:COM17	30:COM17	18:COM5	18:COM5	18:COM5	18:COM5

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
4549	2293	+ve	9.709	8.065	0.016	0.200	0.020	2.231
			20:COM7	34:CVOL3	20:COM7	24:COM1	28:COM1	24:COM1
			-5.719	0.000	-0.020	-0.324	-0.020	-14.074
			30:COM1	-	30:COM1	18:COM5	22:COM9	18:COM5
	2321	-ve	9.709	6.589	0.016	0.200	0.012	0.000
			20:COM7	16:COM3	20:COM7	24:COM1	24:COM1	-
			-5.719	0.000	-0.020	-0.324	-0.020	-24.670
			30:COM1	-	30:COM1	18:COM5	18:COM5	34:CVOL3
4550	2294	+ve	10.253	13.673	0.000	0.000	0.062	19.202
			20:COM7	34:CVOL3	-	-	20:COM7	16:COM3
			-5.075	0.000	-0.063	-0.515	0.000	-2.706
			30:COM1	-	22:COM9	35:CVOL4	-	26:COM1
	2293	-ve	10.253	11.826	0.000	0.000	0.000	2.292
			20:COM7	34:CVOL3	-	-	-	24:COM1
			-5.075	0.000	-0.063	-0.515	-0.063	-14.056
			30:COM1	-	22:COM9	35:CVOL4	22:COM9	18:COM5
4551	2295	+ve	4.345	5.661	1.013	0.000	0.187	10.216
			20:COM7	34:CVOL3	20:COM7	-	24:COM1	28:COM1
			-1.862	0.000	-0.415	-3.010	-0.627	-16.460
			30:COM1	-	30:COM1	18:COM5	18:COM5	22:COM9
	2099	-ve	4.345	5.019	1.013	0.000	0.846	8.230
			20:COM7	34:CVOL3	20:COM7	-	20:COM7	28:COM1
			-1.862	0.000	-0.415	-3.010	-0.452	-22.761
			30:COM1	-	30:COM1	18:COM5	30:COM1	22:COM9
4552	2296	+ve	3.995	5.752	0.487	3.185	0.358	14.251
			20:COM7	16:COM3	20:COM7	20:COM7	28:COM1	20:COM7
			-2.340	0.000	-0.417	-0.618	-0.406	-10.838
			30:COM1	-	30:COM1	30:COM1	22:COM9	30:COM1
	2295	-ve	3.995	4.823	0.487	3.185	0.575	9.622
			20:COM7	16:COM3	20:COM7	20:COM7	20:COM7	28:COM1
			-2.340	-0.583	-0.417	-0.618	-0.481	-16.381
			30:COM1	26:COM1	30:COM1	30:COM1	30:COM1	22:COM9
4553	2297	+ve	2.228	4.217	0.045	1.414	0.127	16.889
			28:COM1	20:COM7	24:COM1	20:COM7	16:COM3	20:COM7
			-3.211	0.000	-0.088	-0.303	-0.073	-5.796
			22:COM9	-	18:COM5	30:COM1	26:COM1	30:COM1
	2296	-ve	2.228	3.316	0.045	1.414	0.035	13.882
			28:COM1	20:COM7	24:COM1	20:COM7	28:COM1	20:COM7
			-3.211	0.000	-0.088	-0.303	-0.065	-10.894
			22:COM9	-	18:COM5	30:COM1	22:COM9	30:COM1
4554	2298	+ve	11.943	8.988	6.075	11.206	1.279	10.427
			20:COM7	28:COM1	16:COM3	20:COM7	24:COM1	16:COM3
			-8.512	-20.717	-5.343	-3.896	-1.728	-9.952
			30:COM1	22:COM9	26:COM1	30:COM1	18:COM5	26:COM1
	2098	-ve	11.943	8.842	6.075	11.206	0.956	18.608
			20:COM7	28:COM1	16:COM3	20:COM7	28:COM1	20:COM7
			-8.512	-20.912	-5.343	-3.896	-1.096	-13.101
			30:COM1	22:COM9	26:COM1	30:COM1	22:COM9	30:COM1

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
4555	2299	+ve	9.244	5.436	0.045	0.060	0.006	0.234
			20:COM7	28:COM15	20:COM7	24:COM17	28:COM15	28:COM15
			-5.754	-10.057	-0.003	-0.279	-0.038	-9.488
			30:COM17	22:COM9	30:COM17	18:COM5	22:COM9	22:COM9
	2298	-ve	9.244	4.791	0.045	0.060	0.045	10.719
			20:COM7	28:COM15	20:COM7	24:COM17	20:COM7	16:COM3
			-5.754	-10.918	-0.003	-0.279	-0.001	-9.949
			30:COM17	22:COM9	30:COM17	18:COM5	30:COM17	26:COM13
4556	2300	+ve	8.560	5.665	0.058	0.595	0.055	8.502
			20:COM7	16:COM3	20:COM7	24:COM17	20:COM7	24:COM17
			-6.256	-5.571	-0.049	-1.258	-0.055	-18.542
			30:COM17	26:COM13	30:COM17	18:COM5	30:COM17	18:COM5
	2299	-ve	8.560	4.871	0.058	0.595	0.053	0.135
			20:COM7	24:COM11	20:COM7	24:COM17	16:COM3	28:COM15
			-6.256	-6.198	-0.049	-1.258	-0.036	-9.090
			30:COM17	18:COM5	30:COM17	18:COM5	26:COM13	22:COM9
4557	2301	+ve	8.593	0.910	0.067	1.306	0.058	0.000
			20:COM7	24:COM11	20:COM7	16:COM3	20:COM7	-
			-6.236	-1.407	-0.056	-0.695	-0.059	-9.474
			30:COM17	18:COM5	30:COM17	26:COM13	30:COM17	34:CVOL3
	2300	-ve	8.593	0.268	0.067	1.306	0.069	0.000
			20:COM7	24:COM11	20:COM7	16:COM3	16:COM3	-
			-6.236	-2.313	-0.056	-0.695	-0.050	-7.396
			30:COM17	32:CVOL1	30:COM17	26:COM13	26:COM13	18:COM5
4558	2302	+ve	8.418	4.780	0.053	0.456	0.057	1.877
			20:COM7	16:COM3	28:COM15	16:COM3	20:COM7	24:COM17
			-5.063	0.000	-0.060	-0.084	-0.054	-6.024
			30:COM17	-	22:COM9	26:COM13	30:COM17	18:COM5
	2301	-ve	8.418	3.915	0.053	0.456	0.046	0.000
			20:COM7	16:COM3	28:COM15	16:COM3	28:COM15	-
			-5.063	-0.284	-0.060	-0.084	-0.056	-9.566
			30:COM17	26:COM13	22:COM9	26:COM13	22:COM9	34:CVOL3
4559	2303	+ve	8.367	9.275	0.015	0.178	0.051	17.231
			20:COM7	34:CVOL3	28:COM15	28:COM15	16:COM3	16:COM3
			-4.602	0.000	-0.058	-0.282	-0.015	-1.587
			30:COM17	-	22:COM9	22:COM9	26:COM13	26:COM13
	2302	-ve	8.367	8.241	0.015	0.178	0.016	1.841
			20:COM7	16:COM3	28:COM15	28:COM15	28:COM15	24:COM17
			-4.602	0.000	-0.058	-0.282	-0.059	-6.092
			30:COM17	-	22:COM9	22:COM9	22:COM9	18:COM5
4560	2304	+ve	5.650	0.000	0.140	0.062	0.195	11.733
			20:COM7	-	28:COM15	28:COM15	20:COM7	28:COM15
			-4.238	-24.088	-0.137	-0.261	-0.185	-11.532
			30:COM17	22:COM9	22:COM9	35:CVOL4	30:COM17	22:COM9
	2089	-ve	5.650	0.000	0.140	0.062	0.094	59.936
			20:COM7	-	28:COM15	28:COM15	20:COM7	20:COM7
			-4.238	-25.001	-0.137	-0.261	-0.077	-1.845
			30:COM17	22:COM9	22:COM9	35:CVOL4	30:COM17	30:COM17

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
4561	2305	+ve	6.810	0.000	0.418	0.000	0.394	0.000
			20:COM7	-	20:COM7	-	28:COM15	-
			-2.908	-22.451	-0.395	-2.408	-0.436	-40.277
			30:COM17	22:COM9	30:COM17	18:COM5	22:COM9	34:CVOL3
	2304	-ve	6.810	0.000	0.418	0.000	0.397	11.962
			20:COM7	-	20:COM7	-	28:COM15	28:COM15
			-2.908	-23.366	-0.395	-2.408	-0.394	-11.056
			30:COM17	22:COM9	30:COM17	18:COM5	22:COM9	22:COM9
4562	2306	+ve	7.557	7.470	0.459	1.915	0.186	0.000
			20:COM7	20:COM7	20:COM7	16:COM3	28:COM15	-
			-3.168	-1.805	-0.241	-0.671	-0.462	-30.411
			30:COM17	30:COM17	30:COM17	26:COM13	22:COM9	18:COM5
	2305	-ve	7.557	6.555	0.459	1.915	0.449	0.000
			20:COM7	20:COM7	20:COM7	16:COM3	20:COM7	-
			-3.168	-2.491	-0.241	-0.671	-0.293	-36.147
			30:COM17	30:COM17	30:COM17	26:COM13	30:COM17	18:COM5
4563	2212	+ve	0.000	5.034	0.028	0.138	0.000	5.694
			-	16:COM3	20:COM7	34:CVOL3	-	16:COM3
			-7.043	0.000	0.000	0.000	-0.035	0.000
			18:COM5	-	-	-	22:COM9	-
	2179	-ve	0.000	0.994	0.028	0.138	0.033	0.449
			-	24:COM11	20:COM7	34:CVOL3	20:COM7	24:COM11
			-7.043	-1.329	0.000	0.000	0.000	-1.441
			18:COM5	18:COM5	-	-	-	18:COM5
4564	2211	+ve	0.000	3.995	0.028	0.159	0.011	3.978
			-	16:COM3	16:COM3	16:COM3	24:COM11	16:COM3
			-4.665	0.000	-0.009	-0.028	-0.035	0.000
			22:COM9	-	26:COM13	26:COM13	18:COM5	-
	2180	-ve	0.000	0.208	0.028	0.159	0.035	0.311
			-	24:COM11	16:COM3	16:COM3	16:COM3	24:COM11
			-4.665	-1.487	-0.009	-0.028	-0.012	-0.610
			22:COM9	18:COM5	26:COM13	26:COM13	26:COM13	18:COM5
4565	2210	+ve	0.000	3.459	0.016	0.088	0.031	2.965
			-	35:CVOL4	24:COM11	24:COM11	16:COM3	20:COM7
			-3.133	0.000	-0.026	-0.096	-0.020	0.000
			22:COM9	-	18:COM5	18:COM5	26:COM13	-
	2181	-ve	0.000	0.000	0.016	0.088	0.019	0.208
			-	-	24:COM11	24:COM11	24:COM11	20:COM7
			-3.133	-1.408	-0.026	-0.096	-0.032	-0.156
			22:COM9	22:COM9	18:COM5	18:COM5	18:COM5	30:COM17
4566	2209	+ve	0.344	4.360	0.000	0.007	0.046	4.676
			24:COM11	16:COM3	-	24:COM11	16:COM3	16:COM3
			-5.470	0.000	-0.038	-0.156	0.000	0.000
			18:COM5	-	18:COM5	18:COM5	-	-
	2182	-ve	0.344	0.549	0.000	0.007	0.000	0.481
			24:COM11	24:COM11	-	24:COM11	-	24:COM11
			-5.470	-1.705	-0.038	-0.156	-0.047	-0.808
			18:COM5	18:COM5	18:COM5	18:COM5	18:COM5	18:COM5

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
4567	2208	+ve	0.000	5.534	0.000	0.000	0.047	6.609
			-	16:COM3	-	-	16:COM3	16:COM3
			-8.228	0.000	-0.039	-0.172	0.000	0.000
			18:COM5	-	18:COM5	18:COM5	-	-
	2183	-ve	0.000	1.423	0.000	0.000	0.000	0.594
			-	24:COM11	-	-	-	24:COM1
			-8.228	-1.389	-0.039	-0.172	-0.048	-1.752
			18:COM5	18:COM5	18:COM5	18:COM5	18:COM5	18:COM5
4568	2217	+ve	0.000	5.632	0.034	0.163	0.000	6.744
			-	16:COM3	20:COM7	16:COM3	-	16:COM3
			-8.452	0.000	0.000	0.000	-0.043	0.000
			18:COM5	-	-	-	22:COM9	-
	2184	-ve	0.000	1.470	0.034	0.163	0.041	0.582
			-	24:COM11	20:COM7	16:COM3	20:COM7	24:COM1
			-8.452	-1.288	0.000	0.000	0.000	-1.857
			18:COM5	18:COM5	-	-	-	18:COM5
4569	2216	+ve	0.166	4.348	0.035	0.171	0.007	4.638
			24:COM1	16:COM3	16:COM3	16:COM3	24:COM11	16:COM3
			-5.372	0.000	-0.006	-0.019	-0.044	0.000
			18:COM5	-	26:COM1	26:COM1	18:COM5	-
	2185	-ve	0.166	0.509	0.035	0.171	0.043	0.456
			24:COM1	24:COM11	16:COM3	16:COM3	16:COM3	24:COM1
			-5.372	-1.597	-0.006	-0.019	-0.007	-0.817
			18:COM5	18:COM5	26:COM1	26:COM1	26:COM1	18:COM5
4570	2215	+ve	0.000	3.464	0.022	0.109	0.027	2.759
			-	34:CVOL3	16:COM3	16:COM3	24:COM11	20:COM7
			-2.635	0.000	-0.022	-0.097	-0.027	0.000
			22:COM9	-	26:COM1	26:COM1	18:COM5	-
	2186	-ve	0.000	0.000	0.022	0.109	0.027	0.142
			-	-	16:COM3	16:COM3	16:COM3	35:CVOL4
			-2.635	-1.370	-0.022	-0.097	-0.027	-0.023
			22:COM9	35:CVOL4	26:COM1	26:COM1	26:COM1	30:COM1
4571	2214	+ve	0.250	4.230	0.005	0.026	0.044	4.446
			24:COM1	16:COM3	24:COM11	24:COM1	16:COM3	16:COM3
			-5.008	0.000	-0.036	-0.159	-0.006	0.000
			18:COM5	-	18:COM5	18:COM5	26:COM1	-
	2187	-ve	0.250	0.434	0.005	0.026	0.006	0.477
			24:COM1	24:COM11	24:COM11	24:COM1	24:COM11	24:COM1
			-5.008	-1.670	-0.036	-0.159	-0.044	-0.723
			18:COM5	18:COM5	18:COM5	18:COM5	18:COM5	18:COM5
4572	2213	+ve	0.000	5.453	0.000	0.000	0.046	6.461
			-	16:COM3	-	-	20:COM7	16:COM3
			-7.932	0.000	-0.037	-0.158	0.000	0.000
			18:COM5	-	22:COM9	18:COM5	-	-
	2188	-ve	0.000	1.359	0.000	0.000	0.000	0.630
			-	24:COM11	-	-	-	24:COM1
			-7.932	-1.423	-0.037	-0.158	-0.044	-1.701
			18:COM5	18:COM5	22:COM9	18:COM5	22:COM9	18:COM5

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
4573	2222	+ve	0.000	5.612	0.035	0.160	0.000	6.717
			-	16:COM3	20:COM7	16:COM3	-	16:COM3
			-8.312	0.000	0.000	0.000	-0.045	0.000
			18:COM5	-	-	-	22:COM9	-
	2189	-ve	0.000	1.451	0.035	0.160	0.042	0.562
			-	24:COM11	20:COM7	16:COM3	20:COM7	24:COM1
			-8.312	-1.267	0.000	0.000	0.000	-1.833
			18:COM5	18:COM5	-	-	-	18:COM5
4574	2221	+ve	0.134	4.332	0.037	0.172	0.006	4.616
			24:COM1	16:COM3	16:COM3	16:COM3	24:COM11	16:COM3
			-5.254	0.000	-0.005	-0.019	-0.046	0.000
			18:COM5	-	26:COM1	26:COM1	18:COM5	-
	2190	-ve	0.134	0.493	0.037	0.172	0.046	0.443
			24:COM1	24:COM11	16:COM3	16:COM3	16:COM3	24:COM1
			-5.254	-1.575	-0.005	-0.019	-0.006	-0.799
			18:COM5	18:COM5	26:COM1	26:COM1	26:COM1	18:COM5
4575	2220	+ve	0.000	3.462	0.024	0.109	0.026	2.765
			-	34:CVOL3	16:COM3	16:COM3	24:COM11	20:COM7
			-2.599	0.000	-0.022	-0.096	-0.030	0.000
			22:COM9	-	26:COM1	26:COM1	18:COM5	-
	2191	-ve	0.000	0.000	0.024	0.109	0.030	0.146
			-	-	16:COM3	16:COM3	16:COM3	34:CVOL3
			-2.599	-1.372	-0.022	-0.096	-0.026	-0.025
			22:COM9	35:CVOL4	26:COM1	26:COM1	26:COM1	30:COM1
4576	2219	+ve	0.286	4.235	0.006	0.025	0.042	4.453
			24:COM1	16:COM3	24:COM11	24:COM1	16:COM3	16:COM3
			-5.043	0.000	-0.035	-0.157	-0.008	0.000
			18:COM5	-	18:COM5	18:COM5	26:COM1	-
	2192	-ve	0.286	0.440	0.006	0.025	0.008	0.486
			24:COM1	24:COM11	24:COM11	24:COM1	24:COM11	24:COM1
			-5.043	-1.684	-0.035	-0.157	-0.042	-0.725
			18:COM5	18:COM5	18:COM5	18:COM5	18:COM5	18:COM5
4577	2218	+ve	0.000	5.454	0.000	0.000	0.041	6.467
			-	16:COM3	-	-	20:COM7	16:COM3
			-7.945	0.000	-0.033	-0.158	0.000	0.000
			18:COM5	-	22:COM9	18:COM5	-	-
	2193	-ve	0.000	1.362	0.000	0.000	0.000	0.638
			-	24:COM11	-	-	-	24:COM1
			-7.945	-1.434	-0.033	-0.158	-0.040	-1.697
			18:COM5	18:COM5	22:COM9	18:COM5	22:COM9	18:COM5
4578	2227	+ve	0.000	5.638	0.036	0.159	0.000	6.768
			-	16:COM3	20:COM7	16:COM3	-	16:COM3
			-8.451	0.000	0.000	0.000	-0.044	0.000
			18:COM5	-	-	-	22:COM9	-
	2194	-ve	0.000	1.469	0.036	0.159	0.044	0.553
			-	24:COM11	20:COM7	16:COM3	20:COM7	24:COM1
			-8.451	-1.242	0.000	0.000	0.000	-1.846
			18:COM5	18:COM5	-	-	-	18:COM5

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
4579	2226	+ve	0.155	4.408	0.042	0.165	0.008	4.751
			24:COM1	16:COM3	16:COM3	16:COM3	24:COM1	16:COM3
			-5.547	0.000	-0.006	-0.016	-0.051	0.000
			18:COM5	-	26:COM1	26:COM1	18:COM5	-
	2195	-ve	0.155	0.552	0.042	0.165	0.052	0.445
			24:COM1	24:COM1	16:COM3	16:COM3	16:COM3	24:COM1
			-5.547	-1.555	-0.006	-0.016	-0.008	-0.850
			18:COM5	18:COM5	26:COM1	26:COM1	26:COM1	18:COM5
4580	2225	+ve	0.000	3.547	0.030	0.106	0.027	3.042
			-	34:CVOL3	16:COM3	16:COM3	24:COM1	20:COM7
			-3.079	0.000	-0.022	-0.093	-0.036	0.000
			22:COM9	-	26:COM1	26:COM1	18:COM5	-
	2196	-ve	0.000	0.000	0.030	0.106	0.037	0.153
			-	-	16:COM3	16:COM3	16:COM3	20:COM7
			-3.079	-1.300	-0.022	-0.093	-0.027	-0.137
			22:COM9	35:CVOL4	26:COM1	26:COM1	26:COM1	30:COM1
4581	2224	+ve	0.000	4.202	0.013	0.029	0.040	4.388
			-	16:COM3	24:COM1	24:COM1	16:COM3	16:COM3
			-4.808	0.000	-0.032	-0.152	-0.016	0.000
			18:COM5	-	18:COM5	18:COM5	26:COM1	-
	2197	-ve	0.000	0.384	0.013	0.029	0.016	0.361
			-	24:COM1	24:COM1	24:COM1	24:COM1	24:COM1
			-4.808	-1.516	-0.032	-0.152	-0.039	-0.710
			18:COM5	18:COM5	18:COM5	18:COM5	18:COM5	18:COM5
4582	2223	+ve	0.000	5.286	0.000	0.000	0.028	6.122
			-	16:COM3	24:COM1	-	16:COM3	16:COM3
			-7.302	0.000	-0.023	-0.132	0.000	0.000
			18:COM5	-	18:COM5	18:COM5	-	-
	2198	-ve	0.000	1.200	0.000	0.000	0.000	0.495
			-	24:COM1	24:COM1	-	24:COM1	24:COM1
			-7.302	-1.301	-0.023	-0.132	-0.028	-1.630
			18:COM5	18:COM5	18:COM5	18:COM5	18:COM5	18:COM5
4583	2270	+ve	0.587	1.246	0.000	0.000	0.154	0.395
			24:COM1	24:COM1	-	-	34:CVOL3	24:COM1
			-8.465	-5.481	-0.249	-0.298	0.000	-2.298
			18:COM5	18:COM5	34:CVOL3	35:CVOL4	-	18:COM5
	2244	-ve	0.587	0.000	0.000	0.000	0.000	6.379
			24:COM1	-	-	-	-	16:COM3
			-8.465	-8.397	-0.249	-0.298	-0.158	-0.381
			18:COM5	18:COM5	34:CVOL3	35:CVOL4	34:CVOL3	26:COM1
4584	2269	+ve	1.159	1.956	0.000	0.000	0.142	0.516
			24:COM1	16:COM3	-	-	16:COM3	16:COM3
			-3.542	-0.910	-0.216	-0.264	0.000	-0.358
			18:COM5	26:COM1	18:COM5	18:COM5	-	26:COM1
	2243	-ve	1.159	0.121	0.000	0.000	0.000	1.988
			24:COM1	24:COM1	-	-	-	16:COM3
			-3.542	-3.241	-0.216	-0.264	-0.129	-0.534
			18:COM5	18:COM5	18:COM5	18:COM5	34:CVOL3	26:COM1

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
4585	2268	+ve	1.654	3.166	0.006	0.015	0.067	0.862
			16:COM3	35:CVOL4	24:COM11	24:COM11	16:COM3	35:CVOL4
			-0.328	0.000	-0.101	-0.131	-0.004	0.000
			26:COM13	-	18:COM5	18:COM5	26:COM13	-
	2242	-ve	1.654	0.021	0.006	0.015	0.003	0.000
			16:COM3	24:COM11	24:COM11	24:COM11	24:COM11	-
			-0.328	-0.664	-0.101	-0.131	-0.060	-0.811
			26:COM13	18:COM5	18:COM5	18:COM5	18:COM5	18:COM5
4586	2267	+ve	1.737	3.329	0.086	0.104	0.010	0.909
			35:CVOL4	35:CVOL4	16:COM3	16:COM3	24:COM11	35:CVOL4
			0.000	0.000	-0.015	-0.029	-0.056	0.000
			-	-	26:COM13	26:COM13	18:COM5	-
	2241	-ve	1.737	0.107	0.086	0.104	0.051	0.000
			35:CVOL4	24:COM11	16:COM3	16:COM3	16:COM3	-
			0.000	-0.520	-0.015	-0.029	-0.009	-0.988
			-	18:COM5	26:COM13	26:COM13	26:COM13	18:COM5
4587	2266	+ve	1.497	2.628	0.199	0.238	0.000	0.701
			24:COM11	16:COM3	16:COM3	16:COM3	-	16:COM3
			-2.255	-0.514	0.000	0.000	-0.130	-0.196
			18:COM5	26:COM13	-	-	18:COM5	26:COM13
	2240	-ve	1.497	0.517	0.199	0.238	0.120	1.401
			24:COM11	24:COM11	16:COM3	16:COM3	16:COM3	16:COM3
			-2.255	-2.569	0.000	0.000	0.000	-0.935
			18:COM5	18:COM5	-	-	-	26:COM13
4588	2265	+ve	1.452	2.184	0.259	0.316	0.000	0.735
			24:COM11	24:COM11	34:CVOL3	35:CVOL4	-	24:COM11
			-7.067	-4.032	0.000	0.000	-0.163	-1.713
			18:COM5	18:COM5	-	-	34:CVOL3	18:COM5
	2239	-ve	1.452	0.935	0.259	0.316	0.161	5.152
			24:COM11	24:COM11	34:CVOL3	35:CVOL4	34:CVOL3	16:COM3
			-7.067	-6.948	0.000	0.000	0.000	-1.216
			18:COM5	18:COM5	-	-	-	26:COM13
4589	2276	+ve	1.353	2.008	0.000	0.000	0.165	0.681
			24:COM11	24:COM11	-	-	34:CVOL3	24:COM11
			-7.645	-4.350	-0.264	-0.321	0.000	-1.847
			18:COM5	18:COM5	35:CVOL4	35:CVOL4	-	18:COM5
	2250	-ve	1.353	0.759	0.000	0.000	0.000	5.416
			24:COM11	24:COM11	-	-	-	16:COM3
			-7.645	-7.266	-0.264	-0.321	-0.164	-1.049
			18:COM5	18:COM5	35:CVOL4	35:CVOL4	35:CVOL4	26:COM13
4590	2274	+ve	1.805	3.307	0.017	0.021	0.065	0.905
			16:COM3	35:CVOL4	24:COM11	24:COM11	16:COM3	35:CVOL4
			0.000	0.000	-0.099	-0.111	-0.012	0.000
			-	-	18:COM5	18:COM5	26:COM13	-
	2248	-ve	1.805	0.101	0.017	0.021	0.010	0.000
			16:COM3	24:COM11	24:COM11	24:COM11	24:COM11	-
			0.000	-0.551	-0.099	-0.111	-0.059	-0.944
			-	18:COM5	18:COM5	18:COM5	18:COM5	18:COM5

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
4591	2273	+ve	1.790	3.325	0.099	0.119	0.015	0.908
			35:CVOL4	35:CVOL4	16:COM3	16:COM3	24:COM11	35:CVOL4
			0.000	0.000	-0.023	-0.023	-0.065	0.000
			-	-	26:COM13	26:COM13	18:COM5	-
	2247	-ve	1.790	0.056	0.099	0.119	0.059	0.000
			35:CVOL4	24:COM11	16:COM3	16:COM3	16:COM3	-
			0.000	-0.458	-0.023	-0.023	-0.014	-0.957
			-	18:COM5	26:COM13	26:COM13	26:COM13	35:CVOL4
4592	2272	+ve	1.397	2.413	0.212	0.256	0.000	0.639
			24:COM11	16:COM3	16:COM3	16:COM3	-	16:COM3
			-2.030	-0.234	0.000	0.000	-0.138	-0.108
			18:COM5	26:COM13	-	-	18:COM5	26:COM13
	2246	-ve	1.397	0.339	0.212	0.256	0.128	1.174
			24:COM11	24:COM11	16:COM3	16:COM3	16:COM3	16:COM3
			-2.030	-2.326	0.000	0.000	0.000	-0.763
			18:COM5	18:COM5	-	-	-	26:COM13
4593	2271	+ve	0.959	1.784	0.266	0.329	0.000	0.571
			24:COM11	24:COM11	34:CVOL3	35:CVOL4	-	24:COM11
			-6.504	-3.513	0.000	0.000	-0.167	-1.487
			18:COM5	18:COM5	-	-	34:CVOL3	18:COM5
	2245	-ve	0.959	0.534	0.266	0.329	0.166	4.730
			24:COM11	24:COM11	34:CVOL3	35:CVOL4	34:CVOL3	16:COM3
			-6.504	-6.430	0.000	0.000	0.000	-0.878
			18:COM5	18:COM5	-	-	-	26:COM13
4594	2275	+ve	1.482	2.499	0.000	0.000	0.136	0.685
			24:COM11	16:COM3	-	-	16:COM3	16:COM3
			-2.524	-0.573	-0.210	-0.243	0.000	-0.233
			18:COM5	26:COM13	18:COM5	18:COM5	-	26:COM13
	2249	-ve	1.482	0.436	0.000	0.000	0.000	1.485
			24:COM11	24:COM11	-	-	-	16:COM3
			-2.524	-2.676	-0.210	-0.243	-0.126	-0.837
			18:COM5	18:COM5	18:COM5	18:COM5	18:COM5	26:COM13
4595	2279	+ve	3.189	2.678	0.214	0.103	0.159	0.920
			24:COM11	24:COM11	24:COM11	24:COM11	16:COM3	24:COM11
			-7.610	-3.963	-0.282	-0.178	-0.116	-1.574
			18:COM5	18:COM5	18:COM5	18:COM5	26:COM13	18:COM5
	2256	-ve	3.189	1.428	0.214	0.103	0.152	4.737
			24:COM11	24:COM11	24:COM11	24:COM11	24:COM11	16:COM3
			-7.610	-6.129	-0.282	-0.178	-0.194	-1.648
			18:COM5	18:COM5	18:COM5	18:COM5	18:COM5	26:COM13
4596	2278	+ve	1.658	1.962	0.205	0.115	0.111	0.169
			16:COM3	16:COM3	24:COM11	24:COM11	16:COM3	16:COM3
			-2.549	-0.947	-0.183	-0.139	-0.115	-0.116
			26:COM13	26:COM13	18:COM5	18:COM5	26:COM13	26:COM13
	2255	-ve	1.658	0.288	0.205	0.115	0.142	1.959
			16:COM3	24:COM11	24:COM11	24:COM11	16:COM3	16:COM3
			-2.549	-2.688	-0.183	-0.139	-0.119	-1.039
			26:COM13	18:COM5	18:COM5	18:COM5	26:COM13	26:COM13

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
4597	2277	+ve	1.303	1.524	0.136	0.034	0.033	0.376
			16:COM3	35:CVOL4	16:COM3	16:COM3	24:COM11	16:COM3
			-0.462	0.000	-0.075	-0.023	-0.065	-0.173
			26:COM13	-	26:COM13	26:COM13	18:COM5	26:COM13
	2254	-ve	1.303	0.000	0.136	0.034	0.106	0.325
			16:COM3	-	16:COM3	16:COM3	16:COM3	24:COM1
			-0.462	-0.956	-0.075	-0.023	-0.062	-0.369
			26:COM13	32:CVOL1	26:COM13	26:COM13	26:COM13	18:COM5
4598	6247	+ve	0.923	4.969	0.027	0.132	0.000	5.698
			24:COM1	16:COM3	20:COM7	20:COM7	-	16:COM3
			-7.077	0.000	0.000	-0.004	-0.035	0.000
			18:COM5	-	-	30:COM17	22:COM9	-
	2199	-ve	0.923	0.891	0.027	0.132	0.034	0.770
			24:COM1	24:COM11	20:COM7	20:COM7	20:COM7	24:COM1
			-7.077	-1.892	0.000	-0.004	0.000	-1.348
			18:COM5	18:COM5	-	30:COM17	-	18:COM5
4599	6248	+ve	0.142	5.567	0.016	0.233	0.032	8.140
			28:COM15	16:COM3	28:COM15	20:COM7	20:COM7	16:COM3
			-0.752	0.000	-0.023	-0.111	-0.021	-0.558
			22:COM9	-	22:COM9	30:COM17	30:COM17	26:COM13
	2200	-ve	0.142	1.036	0.016	0.233	0.023	0.362
			28:COM15	24:COM11	28:COM15	20:COM7	28:COM15	16:COM3
			-0.752	-2.227	-0.023	-0.111	-0.029	-0.148
			22:COM9	18:COM5	22:COM9	30:COM17	22:COM9	26:COM13
4600	6249	+ve	0.591	4.924	0.021	0.169	0.032	4.420
			28:COM15	34:CVOL3	28:COM15	28:COM15	20:COM7	16:COM3
			-1.044	0.000	-0.024	-0.194	-0.028	0.000
			22:COM9	-	22:COM9	22:COM9	30:COM17	-
	2201	-ve	0.591	0.000	0.021	0.169	0.031	0.306
			28:COM15	-	28:COM15	28:COM15	28:COM15	16:COM3
			-1.044	-2.278	-0.024	-0.194	-0.036	0.000
			22:COM9	35:CVOL4	22:COM9	22:COM9	22:COM9	-
4601	6250	+ve	0.780	5.701	0.021	0.125	0.027	6.915
			28:COM15	20:COM7	28:COM15	28:COM15	20:COM7	20:COM7
			-1.164	0.000	-0.022	-0.194	-0.027	-0.188
			22:COM9	-	22:COM9	22:COM9	30:COM17	30:COM17
	2202	-ve	0.780	0.132	0.021	0.125	0.033	0.287
			28:COM15	28:COM15	28:COM15	28:COM15	28:COM15	20:COM7
			-1.164	-2.802	-0.022	-0.194	-0.036	-0.266
			22:COM9	22:COM9	22:COM9	22:COM9	22:COM9	30:COM17
4603	2023	+ve	6.411	14.409	0.006	0.227	0.000	34.881
			20:COM7	20:COM7	16:COM3	24:COM1	-	28:COM15
			-6.044	-7.974	0.000	-0.501	-0.024	-39.141
			30:COM17	30:COM17	-	18:COM5	22:COM9	22:COM9
	2155	-ve	6.411	4.724	0.006	0.227	0.020	38.073
			20:COM7	28:COM15	16:COM3	24:COM1	20:COM7	20:COM7
			-6.044	-19.430	0.000	-0.501	-0.001	-17.009
			30:COM17	22:COM9	-	18:COM5	30:COM17	30:COM17

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
4604	2158	+ve	2.083	13.484	0.066	0.000	0.045	25.984
			20:COM7	28:COM15	20:COM7	-	28:COM15	28:COM15
			-0.797	-25.394	-0.030	-1.012	-0.107	-40.857
			30:COM17	22:COM9	30:COM17	22:COM9	22:COM9	22:COM9
	2282	-ve	2.083	10.319	0.066	0.000	0.064	32.391
			20:COM7	28:COM15	20:COM7	-	20:COM7	20:COM7
			-0.797	-31.168	-0.030	-1.012	-0.031	-4.854
			30:COM17	22:COM9	30:COM17	22:COM9	30:COM17	30:COM17
4605	6225	+ve	1.237	22.430	0.021	0.738	0.013	24.610
			24:COM17	28:COM15	20:COM7	28:COM15	28:COM15	28:COM15
			-1.424	-24.772	-0.012	-0.934	-0.027	-31.245
			18:COM5	22:COM9	30:COM17	22:COM9	22:COM9	22:COM9
	2154	-ve	1.237	18.869	0.021	0.738	0.036	51.442
			24:COM17	28:COM15	20:COM7	28:COM15	20:COM7	20:COM7
			-1.424	-31.268	-0.012	-0.934	-0.022	-36.606
			18:COM5	22:COM9	30:COM17	22:COM9	30:COM17	30:COM17
4606	2159	+ve	17.671	7.302	0.046	0.209	0.253	8.468
			28:COM15	28:COM15	28:COM15	28:COM15	20:COM7	28:COM15
			-18.033	-11.665	-0.467	-0.897	-0.030	-11.094
			22:COM9	22:COM9	22:COM9	22:COM9	30:COM17	22:COM9
	2283	-ve	17.671	5.883	0.046	0.209	0.028	5.294
			28:COM15	28:COM15	28:COM15	28:COM15	28:COM15	20:COM7
			-18.033	-14.314	-0.467	-0.897	-0.337	0.000
			22:COM9	22:COM9	22:COM9	22:COM9	22:COM9	-
4607	2285	+ve	0.283	1.517	0.015	0.093	0.019	0.544
			28:COM15	16:COM3	20:COM7	28:COM15	28:COM15	20:COM7
			-0.792	-1.761	-0.012	-0.429	-0.023	-0.515
			22:COM9	26:COM13	30:COM17	22:COM9	22:COM9	30:COM17
	2168	-ve	0.283	0.000	0.015	0.093	0.023	15.751
			28:COM15	-	20:COM7	28:COM15	20:COM7	16:COM3
			-0.792	-9.103	-0.012	-0.429	-0.019	0.000
			22:COM9	34:CVOL3	30:COM17	22:COM9	30:COM17	-
4608	2284	+ve	0.165	2.093	0.014	0.077	0.016	0.604
			24:COM17	16:COM3	16:COM3	24:COM17	24:COM17	20:COM7
			-0.578	-0.612	-0.009	-0.230	-0.023	-0.205
			18:COM5	26:COM13	26:COM13	18:COM5	18:COM5	30:COM17
	2169	-ve	0.165	0.000	0.014	0.077	0.021	11.637
			24:COM17	-	16:COM3	24:COM17	16:COM3	16:COM3
			-0.578	-7.966	-0.009	-0.230	-0.014	0.000
			18:COM5	34:CVOL3	26:COM13	18:COM5	26:COM13	-
4609	2287	+ve	2.312	2.115	0.038	0.059	0.099	0.876
			28:COM15	20:COM7	24:COM11	24:COM17	16:COM3	28:COM15
			-9.259	-3.023	-0.102	-0.187	-0.037	-2.387
			22:COM9	30:COM17	18:COM5	18:COM5	26:COM13	22:COM9
	2238	-ve	2.312	0.154	0.038	0.059	0.033	6.931
			28:COM15	28:COM15	24:COM11	24:COM17	24:COM11	20:COM7
			-9.259	-7.204	-0.102	-0.187	-0.090	-1.106
			22:COM9	22:COM9	18:COM5	18:COM5	18:COM5	30:COM17

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
4610	2286	+ve	0.371	2.767	0.063	0.103	0.089	0.916
			24:COM1	16:COM3	24:COM1	24:COM1	16:COM3	16:COM3
			-2.914	-0.779	-0.114	-0.188	-0.049	-0.552
			18:COM5	26:COM1	18:COM5	18:COM5	26:COM1	26:COM1
	2237	-ve	0.371	0.499	0.063	0.103	0.048	2.414
			24:COM1	24:COM1	24:COM1	24:COM1	24:COM1	16:COM3
			-2.914	-3.661	-0.114	-0.188	-0.088	-1.143
			18:COM5	18:COM5	18:COM5	18:COM5	18:COM5	26:COM1
4611	2288	+ve	1.074	1.357	0.068	0.327	0.048	0.600
			24:COM1	28:COM1	20:COM7	20:COM7	28:COM1	28:COM1
			-11.587	-3.364	-0.045	-0.193	-0.068	-3.314
			18:COM5	22:COM9	30:COM1	30:COM1	22:COM9	22:COM9
	2007	-ve	1.074	0.000	0.068	0.327	0.076	9.040
			24:COM1	-	20:COM7	20:COM7	20:COM7	20:COM7
			-11.587	-8.301	-0.045	-0.193	-0.048	-0.039
			18:COM5	22:COM9	30:COM1	30:COM1	30:COM1	30:COM1
4613	2156	+ve	9.295	7.342	0.025	0.475	0.034	15.424
			28:COM1	20:COM7	16:COM3	28:COM1	24:COM1	20:COM7
			-12.942	-1.183	-0.017	-0.609	-0.049	-12.495
			22:COM9	30:COM1	26:COM1	22:COM9	18:COM5	30:COM1
	6242	-ve	9.295	0.601	0.025	0.475	0.050	10.930
			28:COM1	28:COM1	16:COM3	28:COM1	16:COM3	16:COM3
			-12.942	-8.236	-0.017	-0.609	-0.035	-5.053
			22:COM9	22:COM9	26:COM1	22:COM9	26:COM1	26:COM1
4615	2307	+ve	3.653	10.803	0.000	0.464	0.139	26.531
			28:COM1	20:COM7	-	20:COM7	20:COM7	20:COM7
			-12.211	0.000	-0.160	-0.174	0.000	0.000
			22:COM9	-	22:COM9	30:COM1	-	-
	2308	-ve	3.653	8.912	0.000	0.464	0.033	7.107
			28:COM1	20:COM7	-	20:COM7	28:COM1	28:COM1
			-12.211	0.000	-0.160	-0.174	-0.183	-7.234
			22:COM9	-	22:COM9	30:COM1	22:COM9	22:COM9
4616	2308	+ve	5.457	7.977	0.132	0.205	0.243	7.179
			28:COM1	20:COM7	28:COM1	20:COM7	20:COM7	28:COM1
			-8.374	0.000	-0.251	-0.175	-0.109	-7.322
			22:COM9	-	22:COM9	30:COM1	30:COM1	22:COM9
	2309	-ve	5.457	6.086	0.132	0.205	0.154	0.000
			28:COM1	20:COM7	28:COM1	20:COM7	28:COM1	-
			-8.374	0.000	-0.251	-0.175	-0.255	-13.869
			22:COM9	-	22:COM9	30:COM1	22:COM9	22:COM9
4617	2309	+ve	6.766	4.662	0.047	0.008	0.185	0.000
			28:COM1	20:COM7	28:COM1	24:COM1	20:COM7	-
			-6.469	-0.131	-0.150	-0.125	-0.079	-13.896
			22:COM9	30:COM1	22:COM9	18:COM5	30:COM1	22:COM9
	2310	-ve	6.766	2.771	0.047	0.008	0.014	0.000
			28:COM1	20:COM7	28:COM1	24:COM1	28:COM1	-
			-6.469	-1.549	-0.150	-0.125	-0.113	-15.245
			22:COM9	30:COM1	22:COM9	18:COM5	22:COM9	35:CVOL

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
4618	2310	+ve	4.541	1.411	0.027	0.149	0.115	0.000
			28:COM1	28:COM1	24:COM1	28:COM1	16:COM3	-
			-4.521	-2.805	-0.109	-0.495	-0.017	-15.221
			22:COM9	22:COM9	18:COM5	22:COM9	26:COM1	35:CVOL
	2311	-ve	4.541	0.000	0.027	0.149	0.037	0.000
			28:COM1	-	24:COM1	28:COM1	24:COM1	-
			-4.521	-4.696	-0.109	-0.495	-0.101	-14.380
			22:COM9	22:COM9	18:COM5	22:COM9	18:COM5	22:COM9
4619	2311	+ve	2.862	0.290	0.129	0.497	0.072	1.952
			28:COM1	28:COM1	20:COM7	16:COM3	28:COM1	28:COM1
			-3.452	-6.237	-0.070	-0.292	-0.120	-18.885
			22:COM9	22:COM9	30:COM1	26:COM1	22:COM9	22:COM9
	2312	-ve	2.862	0.000	0.129	0.497	0.136	4.532
			28:COM1	-	20:COM7	16:COM3	20:COM7	24:COM1
			-3.452	-8.128	-0.070	-0.292	-0.066	-6.389
			22:COM9	22:COM9	30:COM1	26:COM1	30:COM1	18:COM5
4620	2312	+ve	2.342	0.000	0.025	0.219	0.072	4.608
			28:COM1	-	28:COM1	28:COM1	20:COM7	24:COM1
			-4.869	-9.766	-0.074	-0.396	-0.034	-6.523
			22:COM9	22:COM9	22:COM9	22:COM9	30:COM1	18:COM5
	2072	-ve	2.342	0.000	0.025	0.219	0.017	17.973
			28:COM1	-	28:COM1	28:COM1	28:COM1	20:COM7
			-4.869	-11.654	-0.074	-0.396	-0.077	0.000
			22:COM9	22:COM9	22:COM9	22:COM9	22:COM9	-
4621	2313	+ve	4.650	5.070	0.031	0.728	0.015	10.208
			20:COM7	20:COM7	16:COM3	16:COM3	24:COM1	20:COM7
			-3.257	-2.527	-0.019	-0.078	-0.029	-8.149
			30:COM1	30:COM1	26:COM1	26:COM1	18:COM5	30:COM1
	2314	-ve	4.650	3.425	0.031	0.728	0.030	2.625
			20:COM7	28:COM1	16:COM3	16:COM3	16:COM3	20:COM7
			-3.257	-4.018	-0.019	-0.078	-0.020	-2.398
			30:COM1	22:COM9	26:COM1	26:COM1	26:COM1	30:COM1
4622	2314	+ve	6.940	2.770	0.005	0.366	0.068	2.461
			20:COM7	28:COM1	28:COM1	24:COM1	20:COM7	20:COM7
			-3.693	-5.426	-0.065	-0.472	-0.009	-2.358
			30:COM1	22:COM9	22:COM9	18:COM5	30:COM1	30:COM1
	2315	-ve	6.940	2.120	0.005	0.366	0.001	9.565
			20:COM7	28:COM1	28:COM1	24:COM1	28:COM1	20:COM7
			-3.693	-6.293	-0.065	-0.472	-0.055	-3.047
			30:COM1	22:COM9	22:COM9	18:COM5	22:COM9	30:COM1
4623	2315	+ve	9.208	0.723	0.070	0.317	0.060	9.588
			20:COM7	28:COM1	28:COM1	28:COM1	20:COM7	20:COM7
			-4.838	-4.811	-0.091	-0.569	-0.035	-3.065
			30:COM1	22:COM9	22:COM9	22:COM9	30:COM1	30:COM1
	2071	-ve	9.208	0.074	0.070	0.317	0.096	19.350
			20:COM7	28:COM1	28:COM1	28:COM1	28:COM1	20:COM7
			-4.838	-5.676	-0.091	-0.569	-0.111	-3.743
			30:COM1	22:COM9	22:COM9	22:COM9	22:COM9	30:COM1

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
4624	2316	+ve	3.529	1.296	0.046	0.102	0.007	3.681
			20:COM7	24:COM11	16:COM3	28:COM15	24:COM11	28:COM15
			-0.865	-3.305	0.000	-0.449	-0.047	-13.052
			30:COM17	18:COM5	-	22:COM9	18:COM5	22:COM9
	2317	-ve	3.529	0.668	0.046	0.102	0.038	7.575
			20:COM7	24:COM11	16:COM3	28:COM15	16:COM3	28:COM15
			-0.865	-4.142	0.000	-0.449	0.000	-11.974
			30:COM17	18:COM5	-	22:COM9	-	22:COM9
4625	2317	+ve	3.408	0.000	0.012	0.003	0.030	7.669
			20:COM7	-	24:COM11	28:COM15	16:COM3	28:COM15
			-1.218	-5.562	-0.048	-0.551	-0.007	-11.939
			30:COM17	18:COM5	18:COM5	22:COM9	26:COM13	22:COM9
	2092	-ve	3.408	0.000	0.012	0.003	0.021	18.314
			20:COM7	-	24:COM11	28:COM15	24:COM11	20:COM7
			-1.218	-6.580	-0.048	-0.551	-0.076	-7.298
			30:COM17	18:COM5	18:COM5	22:COM9	18:COM5	30:COM17
4629	2100	+ve	5.654	11.406	0.042	0.000	0.201	14.495
			28:COM15	20:COM7	24:COM11	-	16:COM3	28:COM15
			-10.423	-9.985	-0.083	-2.576	-0.104	-15.843
			22:COM9	30:COM17	18:COM5	34:CVOL3	26:COM13	22:COM9
	2329	-ve	5.654	6.891	0.042	0.000	0.084	44.927
			28:COM15	28:COM15	24:COM11	-	28:COM15	20:COM7
			-10.423	-17.494	-0.083	-2.576	-0.167	-25.959
			22:COM9	22:COM9	18:COM5	34:CVOL3	22:COM9	30:COM17
4630	2099	+ve	9.651	5.063	0.134	2.081	0.227	0.807
			20:COM7	20:COM7	20:COM7	20:COM7	28:COM15	28:COM15
			-9.619	-2.500	-0.085	-1.389	-0.329	-20.233
			30:COM17	30:COM17	30:COM17	30:COM17	22:COM9	22:COM9
	2327	-ve	9.651	0.289	0.134	2.081	0.254	6.017
			20:COM7	28:COM15	20:COM7	20:COM7	20:COM7	28:COM15
			-9.619	-9.567	-0.085	-1.389	-0.143	-10.811
			30:COM17	22:COM9	30:COM17	30:COM17	30:COM17	22:COM9
4631	2321	+ve	9.420	3.409	0.014	0.447	0.027	0.000
			20:COM7	16:COM3	28:COM15	16:COM3	20:COM7	-
			-6.642	-1.073	-0.025	-0.228	-0.018	-24.631
			30:COM17	26:COM13	22:COM9	26:COM13	30:COM17	34:CVOL3
	2322	-ve	9.420	2.499	0.014	0.447	0.011	0.000
			20:COM7	16:COM3	28:COM15	16:COM3	24:COM11	-
			-6.642	-1.756	-0.025	-0.228	-0.025	-27.285
			30:COM17	26:COM13	22:COM9	26:COM13	18:COM5	34:CVOL3
4632	2322	+ve	9.293	0.704	0.014	0.669	0.031	0.000
			20:COM7	24:COM11	28:COM15	20:COM7	20:COM7	-
			-7.437	-4.591	-0.030	-0.224	-0.017	-27.196
			30:COM17	18:COM5	22:COM9	30:COM17	30:COM17	34:CVOL3
	2323	-ve	9.293	0.022	0.014	0.669	0.012	0.000
			20:COM7	24:COM11	28:COM15	20:COM7	24:COM11	-
			-7.437	-5.501	-0.030	-0.224	-0.029	-19.697
			30:COM17	18:COM5	22:COM9	30:COM17	18:COM5	18:COM5

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
4633	2323	+ve	9.117	0.000	0.066	1.284	0.003	0.000
			20:COM7	-	16:COM3	20:COM7	24:COM11	-
			-8.716	-7.956	-0.002	-1.033	-0.057	-19.704
			30:COM17	34:CVOL3	26:COM13	30:COM17	18:COM5	18:COM5
	2324	-ve	9.117	0.000	0.066	1.284	0.074	7.621
			20:COM7	-	16:COM3	20:COM7	16:COM3	24:COM17
			-8.716	-9.803	-0.002	-1.033	-0.002	-9.431
			30:COM17	34:CVOL3	26:COM13	30:COM17	26:COM13	18:COM5
4634	2324	+ve	8.807	0.000	6.367	9.330	0.709	7.656
			28:COM15	-	20:COM7	28:COM15	28:COM15	24:COM17
			-14.964	-11.525	-2.750	-10.727	-1.768	-9.506
			22:COM9	34:CVOL3	30:COM17	22:COM9	22:COM9	18:COM5
	2100	-ve	8.807	0.000	6.367	9.330	1.950	13.505
			28:COM15	-	20:COM7	28:COM15	20:COM7	16:COM3
			-14.964	-12.071	-2.750	-10.727	-0.898	-7.733
			22:COM9	34:CVOL3	30:COM17	22:COM9	30:COM17	26:COM13
4635	2325	+ve	0.000	0.000	1.205	0.546	0.000	17.898
			-	-	34:CVOL3	20:COM7	-	34:CVOL3
			-13.409	-6.766	0.000	0.000	-1.008	0.000
			22:COM9	22:COM9	-	-	34:CVOL3	-
	2326	-ve	0.000	0.000	1.205	0.546	0.959	29.619
			-	-	34:CVOL3	20:COM7	34:CVOL3	20:COM7
			-13.409	-8.322	0.000	0.000	0.000	0.000
			22:COM9	22:COM9	-	-	-	-
4636	2326	+ve	0.858	0.000	0.053	0.013	0.000	29.537
			28:COM15	-	28:COM15	24:COM17	28:COM15	20:COM7
			-17.998	-9.527	-0.208	-0.468	-0.191	0.000
			22:COM9	22:COM9	22:COM9	18:COM5	22:COM9	-
	2073	-ve	0.858	0.000	0.053	0.013	0.000	46.317
			28:COM15	-	28:COM15	24:COM17	-	20:COM7
			-17.998	-11.080	-0.208	-0.468	-0.381	0.000
			22:COM9	22:COM9	22:COM9	18:COM5	22:COM9	-
4637	2325	+ve	2.707	0.000	0.166	0.030	0.000	0.322
			32:CVOL1	-	34:CVOL3	28:COM15	-	20:COM7
			0.000	-1.373	0.000	-0.349	-0.264	-0.233
			-	22:COM9	-	22:COM9	34:CVOL3	30:COM17
	2263	-ve	2.707	0.000	0.166	0.030	0.243	12.706
			32:CVOL1	-	34:CVOL3	28:COM15	34:CVOL3	34:CVOL3
			0.000	-7.353	0.000	-0.349	0.000	0.000
			-	34:CVOL3	-	22:COM9	-	-
4638	2326	+ve	0.000	1.205	0.064	0.000	0.000	0.442
			-	20:COM7	20:COM7	-	-	20:COM7
			-4.774	0.000	0.000	-0.098	-0.106	-0.388
			22:COM9	-	-	22:COM9	22:COM9	30:COM17
	2264	-ve	0.000	0.000	0.064	0.000	0.089	5.879
			-	-	20:COM7	-	20:COM7	34:CVOL3
			-4.774	-4.903	0.000	-0.098	0.000	0.000
			22:COM9	34:CVOL3	-	22:COM9	-	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
4639	2327	+ve	13.695	0.469	0.467	2.808	0.766	6.414
			28:COM15	28:COM15	24:COM11	16:COM3	16:COM3	28:COM15
			-18.777	-19.312	-0.977	-0.300	-0.405	-12.928
			22:COM9	22:COM9	18:COM5	26:COM13	26:COM13	22:COM9
	2328	-ve	13.695	0.000	0.467	2.808	0.370	37.706
			28:COM15	-	24:COM11	16:COM3	24:COM11	20:COM7
			-18.777	-20.262	-0.977	-0.300	-0.849	-11.828
			22:COM9	22:COM9	18:COM5	26:COM13	18:COM5	30:COM17
4640	2296	+ve	3.102	3.599	0.053	0.145	0.032	2.682
			28:COM15	20:COM7	20:COM7	28:COM15	28:COM15	28:COM15
			-5.918	-3.600	-0.026	-0.358	-0.065	-18.423
			22:COM9	30:COM17	30:COM17	22:COM9	22:COM9	22:COM9
	2327	-ve	3.102	0.182	0.053	0.145	0.081	1.580
			28:COM15	28:COM15	20:COM7	28:COM15	20:COM7	28:COM15
			-5.918	-9.747	-0.026	-0.358	-0.040	-4.072
			22:COM9	22:COM9	30:COM17	22:COM9	30:COM17	22:COM9
4641	2297	+ve	3.451	7.643	0.016	0.218	0.041	5.683
			28:COM15	20:COM7	24:COM11	16:COM3	16:COM3	28:COM15
			-7.726	-5.489	-0.017	-0.227	-0.038	-11.742
			22:COM9	30:COM17	18:COM5	26:COM13	26:COM13	22:COM9
	2118	-ve	3.451	1.547	0.016	0.218	0.030	29.488
			28:COM15	28:COM15	24:COM11	16:COM3	24:COM11	20:COM7
			-7.726	-14.303	-0.017	-0.227	-0.031	-12.651
			22:COM9	22:COM9	18:COM5	26:COM13	18:COM5	30:COM17
4642	2328	+ve	9.325	0.000	2.484	2.028	0.275	33.842
			28:COM15	-	16:COM3	24:COM11	24:COM11	20:COM7
			-15.689	-18.142	-0.571	-6.651	-1.010	-11.471
			22:COM9	22:COM9	26:COM13	18:COM5	18:COM5	30:COM17
	2118	-ve	9.325	0.000	2.484	2.028	0.949	48.301
			28:COM15	-	16:COM3	24:COM11	16:COM3	20:COM7
			-15.689	-18.597	-0.571	-6.651	-0.176	-9.017
			22:COM9	22:COM9	26:COM13	18:COM5	26:COM13	30:COM17
4643	2328	+ve	2.600	2.689	0.176	1.383	0.066	2.356
			28:COM15	28:COM15	20:COM7	20:COM7	28:COM15	24:COM11
			-5.016	-2.145	-0.088	-0.253	-0.147	-10.221
			22:COM9	22:COM9	30:COM17	30:COM17	22:COM9	18:COM5
	2334	-ve	2.600	2.246	0.176	1.383	0.154	0.749
			28:COM15	28:COM15	20:COM7	20:COM7	20:COM7	24:COM11
			-5.016	-2.735	-0.088	-0.253	-0.085	-8.660
			22:COM9	22:COM9	30:COM17	30:COM17	30:COM17	18:COM5
4644	2329	+ve	6.837	3.814	0.412	6.523	0.380	40.912
			28:COM15	28:COM15	24:COM11	20:COM7	20:COM7	20:COM7
			-12.309	-15.709	-0.682	-3.503	-0.179	-24.504
			22:COM9	22:COM9	18:COM5	30:COM17	30:COM17	30:COM17
	2132	-ve	6.837	3.022	0.412	6.523	0.189	53.714
			28:COM15	28:COM15	24:COM11	20:COM7	24:COM11	20:COM7
			-12.309	-17.046	-0.682	-3.503	-0.201	-27.152
			22:COM9	22:COM9	18:COM5	30:COM17	18:COM5	30:COM17

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
4645	2095	+ve	4.090	4.563	0.023	0.443	0.018	18.447
			20:COM7	16:COM3	20:COM7	20:COM7	28:COM15	16:COM3
			-2.672	0.000	-0.015	-0.094	-0.023	-2.575
			30:COM17	-	30:COM17	30:COM17	22:COM9	26:COM13
	2330	-ve	4.090	3.888	0.023	0.443	0.023	14.673
			20:COM7	16:COM3	20:COM7	20:COM7	20:COM7	16:COM3
			-2.672	0.000	-0.015	-0.094	-0.012	-7.815
			30:COM17	-	30:COM17	30:COM17	30:COM17	26:COM13
4646	2330	+ve	3.041	6.214	0.018	0.379	0.034	14.474
			16:COM3	16:COM3	24:COM11	20:COM7	16:COM3	16:COM3
			-2.356	0.000	-0.041	-0.088	-0.013	-7.929
			26:COM13	-	18:COM5	30:COM17	26:COM13	26:COM13
	2331	-ve	3.041	5.539	0.018	0.379	0.021	4.027
			16:COM3	16:COM3	24:COM11	20:COM7	24:COM11	24:COM11
			-2.356	-0.365	-0.041	-0.088	-0.046	-8.723
			26:COM13	26:COM13	18:COM5	30:COM17	18:COM5	18:COM5
4647	2331	+ve	3.056	4.678	0.034	0.215	0.046	3.974
			24:COM11	16:COM3	24:COM11	28:COM15	16:COM3	24:COM11
			-3.063	-1.455	-0.045	-0.214	-0.032	-8.791
			18:COM5	26:COM13	18:COM5	22:COM9	26:COM13	18:COM5
	2332	-ve	3.056	4.003	0.034	0.215	0.035	0.000
			24:COM11	16:COM3	24:COM11	28:COM15	24:COM11	-
			-3.063	-1.961	-0.045	-0.214	-0.041	-6.757
			18:COM5	26:COM13	18:COM5	22:COM9	18:COM5	34:CVOL3
4648	2332	+ve	3.525	1.924	0.044	0.206	0.044	0.000
			24:COM11	24:COM11	16:COM3	28:COM15	24:COM11	-
			-3.883	-2.325	-0.050	-0.532	-0.045	-6.657
			18:COM5	18:COM5	26:COM13	22:COM9	18:COM5	34:CVOL3
	2333	-ve	3.525	1.418	0.044	0.206	0.043	0.382
			24:COM11	24:COM11	16:COM3	28:COM15	24:COM11	24:COM11
			-3.883	-3.000	-0.050	-0.532	-0.055	-8.284
			18:COM5	18:COM5	26:COM13	22:COM9	18:COM5	18:COM5
4649	2333	+ve	4.828	2.415	0.094	0.576	0.155	0.425
			24:COM11	20:COM7	28:COM15	28:COM15	20:COM7	24:COM11
			-5.623	-2.664	-0.179	-1.375	-0.082	-7.946
			18:COM5	30:COM17	22:COM9	22:COM9	30:COM17	18:COM5
	2329	-ve	4.828	1.819	0.094	0.576	0.080	3.506
			24:COM11	20:COM7	28:COM15	28:COM15	28:COM15	28:COM15
			-5.623	-3.111	-0.179	-1.375	-0.153	-9.701
			18:COM5	30:COM17	22:COM9	22:COM9	22:COM9	22:COM9
4650	2330	+ve	1.546	2.463	0.078	0.023	0.198	0.407
			24:COM11	24:COM11	28:COM15	28:COM15	20:COM7	24:COM11
			-4.649	-4.786	-0.532	-0.268	-0.025	-0.815
			18:COM5	18:COM5	22:COM9	22:COM9	30:COM17	18:COM5
	2128	-ve	1.546	1.714	0.078	0.023	0.033	3.263
			24:COM11	24:COM11	28:COM15	28:COM15	28:COM15	16:COM3
			-4.649	-6.086	-0.532	-0.268	-0.201	-1.160
			18:COM5	18:COM5	22:COM9	22:COM9	22:COM9	26:COM13

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
4651	2331	+ve	0.757	1.699	0.144	0.078	0.131	0.270
			16:COM3	16:COM3	28:COM15	28:COM15	20:COM7	16:COM3
			-0.407	0.000	-0.341	-0.168	-0.051	0.000
			26:COM13	-	22:COM9	22:COM9	30:COM17	-
	2129	-ve	0.757	0.414	0.144	0.078	0.058	0.170
			16:COM3	24:COM11	28:COM15	28:COM15	28:COM15	24:COM17
			-0.407	-0.512	-0.341	-0.168	-0.126	-0.523
			26:COM13	18:COM5	22:COM9	22:COM9	22:COM9	18:COM5
4652	2332	+ve	1.162	2.202	0.398	0.194	0.079	0.446
			16:COM3	16:COM3	20:COM7	20:COM7	28:COM15	20:COM7
			-0.278	0.000	-0.210	-0.107	-0.150	0.000
			26:COM13	-	30:COM17	30:COM17	22:COM9	-
	2130	-ve	1.162	0.903	0.398	0.194	0.149	0.128
			16:COM3	16:COM3	20:COM7	20:COM7	20:COM7	24:COM17
			-0.278	-0.508	-0.210	-0.107	-0.079	-0.732
			26:COM13	26:COM13	30:COM17	30:COM17	30:COM17	18:COM5
4653	2333	+ve	2.221	1.960	0.778	0.444	0.079	0.496
			28:COM15	24:COM11	20:COM7	20:COM7	28:COM15	16:COM3
			-5.006	-3.293	-0.234	-0.145	-0.271	-0.440
			22:COM9	18:COM5	30:COM17	30:COM17	22:COM9	26:COM13
	2131	-ve	2.221	1.210	0.778	0.444	0.313	2.859
			28:COM15	24:COM11	20:COM7	20:COM7	20:COM7	20:COM7
			-5.006	-4.592	-0.234	-0.145	-0.098	-1.035
			22:COM9	18:COM5	30:COM17	30:COM17	30:COM17	30:COM17
4654	2334	+ve	4.108	3.189	0.028	0.614	0.036	0.581
			28:COM15	16:COM3	28:COM15	20:COM7	20:COM7	24:COM17
			-6.143	-1.394	-0.036	-0.145	-0.035	-9.022
			22:COM9	26:COM13	22:COM9	30:COM17	30:COM17	18:COM5
	2335	-ve	4.108	2.514	0.028	0.614	0.020	0.000
			28:COM15	16:COM3	28:COM15	20:COM7	28:COM15	-
			-6.143	-1.900	-0.036	-0.145	-0.035	-7.710
			22:COM9	26:COM13	22:COM9	30:COM17	22:COM9	22:COM9
4655	2335	+ve	4.384	1.966	0.029	0.277	0.025	0.000
			24:COM17	24:COM11	24:COM11	20:COM7	16:COM3	-
			-5.905	-3.961	-0.026	-0.187	-0.025	-7.664
			18:COM5	18:COM5	18:COM5	30:COM17	26:COM13	22:COM9
	2336	-ve	4.384	1.460	0.029	0.277	0.032	3.426
			24:COM17	24:COM11	24:COM11	20:COM7	16:COM3	24:COM17
			-5.905	-4.635	-0.026	-0.187	-0.025	-9.372
			18:COM5	18:COM5	18:COM5	30:COM17	26:COM13	18:COM5
4656	2336	+ve	4.552	0.278	0.035	0.125	0.018	3.450
			24:COM17	24:COM11	16:COM3	28:COM15	24:COM11	24:COM17
			-5.164	-5.601	-0.014	-0.335	-0.040	-9.342
			18:COM5	18:COM5	26:COM13	22:COM9	18:COM5	18:COM5
	2337	-ve	4.552	0.000	0.035	0.125	0.028	13.705
			24:COM17	-	16:COM3	28:COM15	16:COM3	16:COM3
			-5.164	-6.276	-0.014	-0.335	-0.010	-8.065
			18:COM5	18:COM5	26:COM13	22:COM9	26:COM13	26:COM13

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
4657	2337	+ve	5.071	0.000	0.023	0.077	0.020	13.871
			20:COM7	-	20:COM7	28:COM1	28:COM1	16:COM3
			-4.439	-4.509	-0.021	-0.387	-0.018	-7.976
			30:COM1	22:COM9	30:COM1	22:COM9	22:COM9	26:COM1
	2093	-ve	5.071	0.000	0.023	0.077	0.026	18.946
			20:COM7	-	20:COM7	28:COM1	20:COM7	16:COM3
			-4.439	-5.184	-0.021	-0.387	-0.021	-2.190
			30:COM1	22:COM9	30:COM1	22:COM9	30:COM1	26:COM1
4658	2334	+ve	1.518	1.960	0.074	0.082	0.300	0.448
			28:COM1	28:COM1	28:COM1	28:COM1	20:COM7	24:COM1
			-5.942	-4.243	-0.850	-0.495	-0.014	-0.450
			22:COM9	22:COM9	22:COM9	22:COM9	30:COM1	18:COM5
	2119	-ve	1.518	1.210	0.074	0.082	0.042	3.368
			28:COM1	28:COM1	28:COM1	28:COM1	28:COM1	20:COM7
			-5.942	-5.542	-0.850	-0.495	-0.338	-0.889
			22:COM9	22:COM9	22:COM9	22:COM9	22:COM9	30:COM1
4659	2335	+ve	1.087	2.243	0.139	0.089	0.179	0.458
			16:COM3	16:COM3	28:COM1	28:COM1	20:COM7	16:COM3
			-0.245	0.000	-0.475	-0.237	-0.049	0.000
			26:COM1	-	22:COM9	22:COM9	30:COM1	-
	2120	-ve	1.087	0.944	0.139	0.089	0.055	0.067
			16:COM3	16:COM3	28:COM1	28:COM1	28:COM1	24:COM1
			-0.245	-0.385	-0.475	-0.237	-0.178	-0.749
			26:COM1	26:COM1	22:COM9	22:COM9	22:COM9	18:COM5
4660	2336	+ve	0.742	1.809	0.275	0.142	0.073	0.283
			16:COM3	16:COM3	20:COM7	20:COM7	28:COM1	20:COM7
			-0.179	0.000	-0.195	-0.100	-0.107	0.000
			26:COM1	-	30:COM1	30:COM1	22:COM9	-
	2121	-ve	0.742	0.510	0.275	0.142	0.099	0.139
			16:COM3	16:COM3	20:COM7	20:COM7	20:COM7	24:COM1
			-0.179	-0.410	-0.195	-0.100	-0.074	-0.598
			26:COM1	26:COM1	30:COM1	30:COM1	30:COM1	18:COM5
4661	2337	+ve	1.722	2.798	0.472	0.244	0.038	0.454
			24:COM1	24:COM1	20:COM7	20:COM7	28:COM1	24:COM1
			-4.022	-4.322	-0.109	-0.044	-0.175	-0.699
			18:COM5	18:COM5	30:COM1	30:COM1	22:COM9	18:COM5
	2122	-ve	1.722	2.048	0.472	0.244	0.179	3.030
			24:COM1	24:COM1	20:COM7	20:COM7	20:COM7	16:COM3
			-4.022	-5.621	-0.109	-0.044	-0.045	-1.363
			18:COM5	18:COM5	30:COM1	30:COM1	30:COM1	26:COM1
4662	2338	+ve	0.893	11.421	0.018	0.134	0.079	8.686
			24:COM1	24:COM1	28:COM1	24:COM1	20:COM7	34:CVOL
			-3.484	-12.601	-0.080	-0.553	-0.023	0.000
			18:COM5	18:COM5	22:COM9	18:COM5	30:COM1	-
	5507	-ve	0.893	10.179	0.018	0.134	0.018	34.521
			24:COM1	24:COM1	28:COM1	24:COM1	24:COM1	16:COM3
			-3.484	-14.258	-0.080	-0.553	-0.087	-16.313
			18:COM5	18:COM5	22:COM9	18:COM5	18:COM5	26:COM1

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
4664	2338	+ve	0.260	1.451	0.177	0.153	0.142	0.556
			24:COM1	34:CVOL3	24:COM1	24:COM1	16:COM3	20:COM7
			-1.862	0.000	-0.239	-0.230	-0.106	0.000
			18:COM5	-	18:COM5	18:COM5	26:COM1	-
	2281	-ve	0.260	0.000	0.177	0.153	0.115	0.414
			24:COM1	-	24:COM1	24:COM1	24:COM1	35:CVOL4
			-1.862	-1.226	-0.239	-0.230	-0.156	-0.010
			18:COM5	35:CVOL4	18:COM5	18:COM5	18:COM5	32:CVOL1
4665	5507	+ve	3.534	10.995	0.517	25.436	0.008	0.786
			20:COM7	24:COM1	28:COM1	16:COM3	24:COM1	24:COM1
			-1.052	-21.675	-0.218	-7.490	-0.284	-1.078
			30:COM1	18:COM5	22:COM9	26:COM1	18:COM5	18:COM5
	5467	-ve	3.534	8.877	0.517	25.436	0.431	27.965
			20:COM7	24:COM1	28:COM1	16:COM3	28:COM1	16:COM3
			-1.052	-24.997	-0.218	-7.490	-0.336	-11.581
			30:COM1	18:COM5	22:COM9	26:COM1	22:COM9	26:COM1
4666	6251	+ve	3.734	25.137	3.592	5.623	0.975	29.244
			20:COM7	20:COM7	20:COM7	20:COM7	28:COM1	20:COM7
			-3.539	-8.140	-2.676	-5.029	-1.364	-14.705
			30:COM1	30:COM1	30:COM1	30:COM1	22:COM9	30:COM1
	6246	-ve	3.734	24.128	3.592	5.623	1.896	7.695
			20:COM7	20:COM7	20:COM7	20:COM7	20:COM7	20:COM7
			-3.539	-8.897	-2.676	-5.029	-1.484	-7.254
			30:COM1	30:COM1	30:COM1	30:COM1	30:COM1	30:COM1
4668	2341	+ve	34.695	2.073	0.000	22.892	5.377	34.344
			20:COM7	28:COM1	-	34:CVOL3	34:CVOL3	20:COM7
			0.000	-16.670	-5.440	0.000	0.000	-2.134
			-	22:COM9	34:CVOL3	-	-	30:COM1
	2342	-ve	34.695	0.000	0.000	22.892	0.000	54.344
			20:COM7	-	-	34:CVOL3	-	34:CVOL3
			0.000	-20.728	-5.440	0.000	-5.259	0.000
			-	22:COM9	34:CVOL3	-	34:CVOL3	-
4669	2342	+ve	73.639	19.833	0.000	48.038	9.168	51.285
			20:COM7	28:COM1	-	20:COM7	20:COM7	34:CVOL3
			-12.536	-35.044	-8.391	0.000	0.000	0.000
			30:COM1	22:COM9	34:CVOL3	-	-	-
	2158	-ve	73.639	16.789	0.000	48.038	0.000	105.430
			20:COM7	28:COM1	-	20:COM7	-	20:COM7
			-12.536	-39.104	-8.391	0.000	-7.768	-5.114
			30:COM1	22:COM9	34:CVOL3	-	34:CVOL3	30:COM1
4670	2343	+ve	27.876	25.685	5.050	24.360	1.493	47.857
			32:CVOL1	34:CVOL3	20:COM7	20:COM7	28:COM1	32:CVOL1
			0.000	0.000	-1.116	-2.236	-5.845	0.000
			-	-	30:COM1	30:COM1	22:COM9	-
	2344	-ve	27.876	22.304	5.050	24.360	4.031	3.410
			32:CVOL1	34:CVOL3	20:COM7	20:COM7	20:COM7	28:COM1
			0.000	0.000	-1.116	-2.236	-0.691	-4.737
			-	-	30:COM1	30:COM1	30:COM1	22:COM9

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
4671	2343	+ve	2.618	8.948	0.017	0.000	0.000	7.901
			20:COM7	20:COM7	20:COM7	-	-	35:CVOL4
			-1.245	0.000	-0.001	-0.744	-0.058	0.000
			30:COM1	-	30:COM1	22:COM9	22:COM9	-
	2342	-ve	2.618	0.000	0.017	0.000	0.048	11.020
			20:COM7	-	20:COM7	-	20:COM7	28:COM1
			-1.245	-6.452	-0.001	-0.744	-0.005	-12.152
			30:COM1	22:COM9	30:COM1	22:COM9	30:COM1	22:COM9
4672	2344	+ve	6.560	13.969	6.042	22.553	1.293	6.141
			20:COM7	32:CVOL1	20:COM7	20:COM7	28:COM1	20:COM7
			0.000	0.000	-3.598	-0.080	-3.419	-1.599
			-	-	30:COM1	30:COM1	22:COM9	30:COM1
	2080	-ve	6.560	12.386	6.042	22.553	1.452	0.000
			20:COM7	32:CVOL1	20:COM7	20:COM7	28:COM1	-
			0.000	0.000	-3.598	-0.080	-1.661	-5.088
			-	-	30:COM1	30:COM1	22:COM9	22:COM9
4673	2344	+ve	11.809	5.955	0.005	0.000	0.027	5.204
			20:COM7	35:CVOL4	28:COM1	-	20:COM7	35:CVOL4
			-6.999	0.000	-0.010	-0.408	-0.014	0.000
			30:COM1	-	22:COM9	22:COM9	30:COM1	-
	2341	-ve	11.809	0.000	0.005	0.000	0.015	6.844
			20:COM7	-	28:COM1	-	28:COM1	20:COM7
			-6.999	-6.351	-0.010	-0.408	-0.035	0.000
			30:COM1	34:CVOL3	22:COM9	22:COM9	22:COM9	-
4674	2345	+ve	0.455	21.084	0.195	2.996	0.378	55.905
			28:COM1	34:CVOL3	28:COM1	20:COM7	20:COM7	34:CVOL3
			-1.410	0.000	-0.281	-0.332	-0.215	0.000
			22:COM9	-	22:COM9	30:COM1	30:COM1	-
	2346	-ve	0.455	18.808	0.195	2.996	0.194	17.552
			28:COM1	34:CVOL3	28:COM1	20:COM7	24:COM1	32:CVOL1
			-1.410	0.000	-0.281	-0.332	-0.201	0.000
			22:COM9	-	22:COM9	30:COM1	18:COM5	-
4675	2346	+ve	0.502	10.887	0.158	1.117	0.111	17.857
			24:COM1	32:CVOL1	20:COM7	28:COM1	24:COM1	32:CVOL1
			-0.664	0.000	-0.122	-0.981	-0.196	0.000
			18:COM5	-	30:COM1	22:COM9	18:COM5	-
	2085	-ve	0.502	8.232	0.158	1.117	0.126	0.000
			24:COM1	32:CVOL1	20:COM7	28:COM1	20:COM7	-
			-0.664	0.000	-0.122	-0.981	-0.141	-1.006
			18:COM5	-	30:COM1	22:COM9	30:COM1	32:CVOL1
4676	2347	+ve	4.819	30.002	1.400	0.000	0.585	49.921
			16:COM3	20:COM7	16:COM3	-	24:COM1	20:COM7
			-2.228	0.000	-0.604	-10.592	-0.979	0.000
			26:COM1	-	26:COM1	22:COM9	18:COM5	-
	2088	-ve	4.819	27.618	1.400	0.000	1.457	2.562
			16:COM3	20:COM7	16:COM3	-	16:COM3	20:COM7
			-2.228	0.000	-0.604	-10.592	-0.479	-0.034
			26:COM1	-	26:COM1	22:COM9	26:COM1	30:COM1

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
4677	2345	+ve	0.000	6.271	0.001	0.155	0.010	5.072
			-	34:CVOL3	24:COM11	20:COM7	16:COM3	20:COM7
			-4.666	0.000	-0.003	0.000	-0.002	0.000
			18:COM5	-	18:COM5	-	26:COM1	-
	2347	-ve	0.000	0.000	0.001	0.155	0.006	6.411
			-	-	24:COM11	20:COM7	24:COM11	20:COM7
			-4.666	-6.631	-0.003	0.000	-0.010	0.000
			18:COM5	35:CVOL4	18:COM5	-	18:COM5	-
4678	2346	+ve	4.088	5.826	0.005	0.142	0.000	4.891
			16:COM3	35:CVOL4	20:COM7	20:COM7	-	35:CVOL4
			0.000	0.000	0.000	0.000	-0.014	0.000
			-	-	-	-	22:COM9	-
	2088	-ve	4.088	0.000	0.005	0.142	0.016	6.344
			16:COM3	-	20:COM7	20:COM7	20:COM7	35:CVOL4
			0.000	-6.320	0.000	0.000	0.000	0.000
			-	34:CVOL3	-	-	-	-
4679	2348	+ve	0.000	0.000	0.540	1.082	0.000	0.149
			-	-	34:CVOL3	20:COM7	-	28:COM15
			-3.633	-3.065	0.000	-0.302	-0.474	-1.711
			22:COM9	34:CVOL3	-	30:COM17	34:CVOL3	22:COM9
	2349	-ve	0.000	0.000	0.540	1.082	0.582	6.771
			-	-	34:CVOL3	20:COM7	34:CVOL3	34:CVOL3
			-3.633	-5.029	0.000	-0.302	0.000	0.000
			22:COM9	32:CVOL1	-	30:COM17	-	-
4680	2349	+ve	0.000	0.000	0.798	0.853	0.000	6.464
			-	-	34:CVOL3	20:COM7	-	34:CVOL3
			-9.687	-5.409	0.000	-0.180	-0.739	0.000
			22:COM9	22:COM9	-	30:COM17	34:CVOL3	-
	2325	-ve	0.000	0.000	0.798	0.853	0.798	18.136
			-	-	34:CVOL3	20:COM7	34:CVOL3	34:CVOL3
			-9.687	-7.245	0.000	-0.180	0.000	0.000
			22:COM9	22:COM9	-	30:COM17	-	-
4681	2348	+ve	0.000	2.258	0.051	0.049	0.000	0.890
			-	35:CVOL4	20:COM7	28:COM15	-	20:COM7
			-3.786	0.000	0.000	-0.285	-0.078	0.000
			32:CVOL1	-	-	22:COM9	22:COM9	-
	2344	-ve	0.000	0.000	0.051	0.049	0.075	3.363
			-	-	20:COM7	28:COM15	20:COM7	34:CVOL3
			-3.786	-3.888	0.000	-0.285	0.000	0.000
			32:CVOL1	34:CVOL3	-	22:COM9	-	-
4682	2349	+ve	0.673	0.570	0.149	0.061	0.000	0.229
			32:CVOL1	20:COM7	34:CVOL3	28:COM15	-	20:COM7
			0.000	-0.456	0.000	-0.479	-0.234	-0.122
			-	30:COM17	-	22:COM9	34:CVOL3	30:COM17
	2343	-ve	0.673	0.000	0.149	0.061	0.219	9.215
			32:CVOL1	-	34:CVOL3	28:COM15	34:CVOL3	20:COM7
			0.000	-6.172	0.000	-0.479	0.000	0.000
			-	34:CVOL3	-	22:COM9	-	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
4683	2350	+ve	0.798	6.690	0.000	0.413	0.029	19.467
			28:COM15	16:COM3	-	20:COM7	20:COM7	16:COM3
			-1.071	0.000	-0.037	0.000	0.000	0.000
			22:COM9	-	18:COM5	-	-	-
	2351	-ve	0.798	5.041	0.000	0.413	0.000	8.836
			28:COM15	16:COM3	-	20:COM7	-	34:CVOL3
			-1.071	0.000	-0.037	0.000	-0.055	0.000
			22:COM9	-	18:COM5	-	18:COM5	-
4684	2351	+ve	0.247	4.723	0.002	0.257	0.088	8.737
			28:COM15	32:CVOL1	24:COM11	16:COM3	16:COM3	34:CVOL3
			-0.349	0.000	-0.079	0.000	-0.002	0.000
			22:COM9	-	18:COM5	-	26:COM13	-
	2084	-ve	0.247	2.681	0.002	0.257	0.004	0.093
			28:COM15	34:CVOL3	24:COM11	16:COM3	24:COM11	24:COM11
			-0.349	0.000	-0.079	0.000	-0.101	-0.104
			22:COM9	-	18:COM5	-	18:COM5	18:COM5
4685	2350	+ve	0.000	0.279	0.036	0.042	0.070	0.095
			-	24:COM11	24:COM11	24:COM11	16:COM3	24:COM11
			-6.988	-4.936	-0.111	-0.127	-0.025	-2.026
			18:COM5	18:COM5	18:COM5	18:COM5	26:COM13	18:COM5
	2345	-ve	0.000	0.000	0.036	0.042	0.019	5.442
			-	-	24:COM11	24:COM11	24:COM11	16:COM3
			-6.988	-7.087	-0.111	-0.127	-0.069	0.000
			18:COM5	18:COM5	18:COM5	18:COM5	18:COM5	-
4686	2351	+ve	0.153	0.895	0.000	0.000	0.073	0.257
			24:COM11	24:COM11	-	-	16:COM3	24:COM11
			-4.277	-1.655	-0.109	-0.101	0.000	-0.584
			18:COM5	18:COM5	22:COM9	22:COM9	-	18:COM5
	2346	-ve	0.153	0.000	0.000	0.000	0.000	2.798
			24:COM11	-	-	-	-	16:COM3
			-4.277	-3.802	-0.109	-0.101	-0.062	-0.087
			18:COM5	18:COM5	22:COM9	22:COM9	22:COM9	26:COM13
4688	2347	+ve	4.071	12.005	0.020	0.306	0.026	8.791
			28:COM15	20:COM7	16:COM3	20:COM7	24:COM11	34:CVOL3
			-7.488	-1.067	-0.013	0.000	-0.035	0.000
			22:COM9	30:COM17	26:COM13	-	18:COM5	-
	6243	-ve	4.071	5.414	0.020	0.306	0.027	14.710
			28:COM15	28:COM15	16:COM3	20:COM7	16:COM3	28:COM15
			-7.488	-5.092	-0.013	0.000	-0.015	-20.013
			22:COM9	22:COM9	26:COM13	-	26:COM13	22:COM9
4692	6238	+ve	14.493	15.007	0.023	0.581	0.041	29.256
			28:COM15	20:COM7	20:COM7	20:COM7	28:COM15	28:COM15
			-17.734	-10.100	-0.019	-0.151	-0.052	-29.488
			22:COM9	30:COM17	30:COM17	30:COM17	22:COM9	22:COM9
	6246	-ve	14.493	8.230	0.023	0.581	0.048	29.142
			28:COM15	28:COM15	20:COM7	20:COM7	20:COM7	20:COM7
			-17.734	-17.899	-0.019	-0.151	-0.042	-18.964
			22:COM9	22:COM9	30:COM17	30:COM17	30:COM17	30:COM17

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
4694	2342	+ve	7.201	10.473	0.004	0.053	0.015	17.666
			28:COM15	28:COM15	28:COM15	28:COM15	16:COM3	28:COM15
			-8.146	-24.023	-0.012	-0.714	-0.010	-37.657
			22:COM9	22:COM9	22:COM9	22:COM9	26:COM13	22:COM9
	2014	-ve	7.201	5.566	0.004	0.053	0.007	76.750
			28:COM15	28:COM15	28:COM15	28:COM15	28:COM15	20:COM7
			-8.146	-32.973	-0.012	-0.714	-0.037	-14.545
			22:COM9	22:COM9	22:COM9	22:COM9	22:COM9	30:COM17
4695	2355	+ve	1.914	0.000	1.693	19.275	3.351	52.455
			28:COM15	-	28:COM15	20:COM7	20:COM7	34:CVOL3
			-8.826	-48.365	-3.373	-12.511	-1.948	0.000
			22:COM9	22:COM9	22:COM9	30:COM17	30:COM17	-
	2014	-ve	1.914	0.000	1.693	19.275	2.199	170.767
			28:COM15	-	28:COM15	20:COM7	28:COM15	34:CVOL3
			-8.826	-51.754	-3.373	-12.511	-4.910	0.000
			22:COM9	22:COM9	22:COM9	30:COM17	22:COM9	-
4696	2341	+ve	4.988	5.648	0.002	0.552	0.020	6.290
			28:COM15	28:COM15	24:COM11	20:COM7	16:COM3	28:COM15
			-7.087	-23.021	-0.018	-0.278	-0.007	-24.574
			22:COM9	22:COM9	18:COM5	30:COM17	26:COM13	22:COM9
	2355	-ve	4.988	2.384	0.002	0.552	0.000	44.867
			28:COM15	28:COM15	24:COM11	20:COM7	-	20:COM7
			-7.087	-28.975	-0.018	-0.278	-0.029	-4.465
			22:COM9	22:COM9	18:COM5	30:COM17	18:COM5	30:COM17
4697	6221	+ve	2.380	0.000	0.765	16.234	1.316	2.531
			28:COM15	-	28:COM15	20:COM7	20:COM7	16:COM3
			-2.925	-23.326	-1.028	-0.037	-0.945	-0.658
			22:COM9	34:CVOL3	22:COM9	30:COM17	30:COM17	26:COM13
	6222	-ve	2.380	0.000	0.765	16.234	0.920	61.675
			28:COM15	-	28:COM15	20:COM7	28:COM15	34:CVOL3
			-2.925	-26.134	-1.028	-0.037	-1.189	0.000
			22:COM9	34:CVOL3	22:COM9	30:COM17	22:COM9	-
4698	2355	+ve	1.947	10.333	0.001	0.055	0.007	22.201
			28:COM15	34:CVOL3	24:COM11	24:COM11	16:COM3	20:COM7
			-2.451	0.000	-0.002	-0.414	-0.007	0.000
			22:COM9	-	18:COM5	18:COM5	26:COM13	-
	6221	-ve	1.947	0.000	0.001	0.055	0.001	12.191
			28:COM15	-	24:COM11	24:COM11	24:COM11	20:COM7
			-2.451	-7.030	-0.002	-0.414	-0.008	0.000
			22:COM9	35:CVOL4	18:COM5	18:COM5	18:COM5	-
4699	2357	+ve	4.122	5.826	0.015	0.314	0.029	13.485
			20:COM7	16:COM3	24:COM11	16:COM3	16:COM3	16:COM3
			-3.591	0.000	-0.035	0.000	-0.013	-7.485
			30:COM17	-	18:COM5	-	26:COM13	26:COM13
	2358	-ve	4.122	5.151	0.015	0.314	0.017	3.679
			20:COM7	16:COM3	24:COM11	16:COM3	24:COM11	24:COM11
			-3.591	-0.452	-0.035	0.000	-0.039	-7.994
			30:COM17	26:COM13	18:COM5	-	18:COM5	18:COM5

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
4700	2358	+ve	4.285	4.465	0.023	0.115	0.038	3.559
			28:COM15	16:COM3	24:COM11	16:COM3	16:COM3	24:COM11
			-3.852	-1.626	-0.036	-0.004	-0.023	-8.060
			22:COM9	26:COM13	18:COM5	26:COM13	26:COM13	18:COM5
	2359	-ve	4.285	3.791	0.023	0.115	0.022	0.000
			28:COM15	16:COM3	24:COM11	16:COM3	24:COM11	-
			-3.852	-2.132	-0.036	-0.004	-0.033	-5.932
			22:COM9	26:COM13	18:COM5	26:COM13	18:COM5	35:CVOL4
4701	2359	+ve	4.264	2.450	0.033	0.000	0.023	0.000
			28:COM15	24:COM11	16:COM3	-	24:COM11	-
			-3.624	-3.255	-0.023	-0.123	-0.031	-5.928
			22:COM9	18:COM5	26:COM13	18:COM5	18:COM5	35:CVOL4
	2360	-ve	4.264	1.944	0.033	0.000	0.034	2.992
			28:COM15	24:COM11	16:COM3	-	16:COM3	24:COM11
			-3.624	-3.930	-0.023	-0.123	-0.021	-9.152
			22:COM9	18:COM5	26:COM13	18:COM5	26:COM13	18:COM5
4702	2360	+ve	4.266	0.784	0.030	0.000	0.015	3.115
			20:COM7	24:COM11	16:COM3	-	24:COM11	24:COM11
			-3.072	-4.626	-0.012	-0.316	-0.036	-9.081
			30:COM17	18:COM5	26:COM13	18:COM5	18:COM5	18:COM5
	2361	-ve	4.266	0.278	0.030	0.000	0.023	11.471
			20:COM7	24:COM11	16:COM3	-	16:COM3	16:COM3
			-3.072	-5.301	-0.012	-0.316	-0.009	-8.793
			30:COM17	18:COM5	26:COM13	18:COM5	26:COM13	26:COM13
4703	2361	+ve	5.893	0.000	0.029	0.000	0.019	11.759
			20:COM7	-	20:COM7	-	28:COM15	16:COM3
			-3.184	-3.191	-0.021	-0.399	-0.021	-8.708
			30:COM17	18:COM5	30:COM17	18:COM5	22:COM9	26:COM13
	2094	-ve	5.893	0.000	0.029	0.000	0.036	14.053
			20:COM7	-	20:COM7	-	20:COM7	16:COM3
			-3.184	-3.866	-0.021	-0.399	-0.021	-3.310
			30:COM17	18:COM5	30:COM17	18:COM5	30:COM17	26:COM13
4704	2357	+ve	2.056	2.884	0.000	0.000	0.170	0.506
			24:COM11	24:COM11	-	-	20:COM7	24:COM11
			-4.757	-4.683	-0.451	-0.231	0.000	-0.831
			18:COM5	18:COM5	22:COM9	18:COM5	-	18:COM5
	2113	-ve	2.056	2.134	0.000	0.000	0.000	3.169
			24:COM11	24:COM11	-	-	-	16:COM3
			-4.757	-5.982	-0.451	-0.231	-0.168	-1.376
			18:COM5	18:COM5	22:COM9	18:COM5	22:COM9	26:COM13
4705	2358	+ve	1.053	1.678	0.006	0.000	0.132	0.293
			16:COM3	16:COM3	24:COM11	-	16:COM3	16:COM3
			-0.670	0.000	-0.323	-0.127	-0.008	0.000
			26:COM13	-	18:COM5	18:COM5	26:COM13	-
	2114	-ve	1.053	0.426	0.006	0.000	0.000	0.173
			16:COM3	24:COM11	24:COM11	-	-	24:COM11
			-0.670	-0.615	-0.323	-0.127	-0.110	-0.485
			26:COM13	18:COM5	18:COM5	18:COM5	18:COM5	18:COM5

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
4706	2359	+ve	0.837	1.783	0.080	0.023	0.037	0.302
			20:COM7	35:CVOL4	16:COM3	16:COM3	24:COM11	20:COM7
			0.000	0.000	-0.083	-0.018	-0.037	0.000
			-	-	26:COM13	26:COM13	18:COM5	-
	2115	-ve	0.837	0.365	0.080	0.023	0.024	0.000
			20:COM7	20:COM7	16:COM3	16:COM3	16:COM3	-
			0.000	0.000	-0.083	-0.018	-0.025	-0.496
			-	-	26:COM13	26:COM13	26:COM13	35:CVOL4
4707	2360	+ve	0.768	1.661	0.312	0.130	0.005	0.257
			16:COM3	16:COM3	16:COM3	16:COM3	24:COM11	16:COM3
			-0.391	0.000	-0.001	0.000	-0.127	0.000
			26:COM13	-	26:COM13	-	18:COM5	-
	2116	-ve	0.768	0.411	0.312	0.130	0.107	0.201
			16:COM3	24:COM11	16:COM3	16:COM3	16:COM3	24:COM11
			-0.391	-0.604	-0.001	0.000	0.000	-0.514
			26:COM13	18:COM5	26:COM13	-	-	18:COM5
4708	2361	+ve	1.812	2.812	0.454	0.234	0.000	0.465
			24:COM11	24:COM11	20:COM7	20:COM7	-	24:COM11
			-4.273	-4.480	0.000	0.000	-0.170	-0.756
			18:COM5	18:COM5	-	-	22:COM9	18:COM5
	2117	-ve	1.812	2.063	0.454	0.234	0.171	3.091
			24:COM11	24:COM11	20:COM7	20:COM7	20:COM7	16:COM3
			-4.273	-5.780	0.000	0.000	0.000	-1.364
			18:COM5	18:COM5	-	-	-	26:COM13
4709	2104	+ve	0.430	8.584	0.007	0.097	0.008	9.421
			24:COM11	34:CVOL3	20:COM7	24:COM11	28:COM15	34:CVOL3
			-0.749	0.000	-0.004	-0.097	-0.012	0.000
			18:COM5	-	30:COM17	18:COM5	22:COM9	-
	2362	-ve	0.430	0.000	0.007	0.097	0.015	0.385
			24:COM11	-	20:COM7	24:COM11	20:COM7	35:CVOL4
			-0.749	-4.949	-0.004	-0.097	-0.010	0.000
			18:COM5	35:CVOL4	30:COM17	18:COM5	30:COM17	-
4710	2105	+ve	0.181	8.797	0.006	0.021	0.006	10.375
			24:COM11	34:CVOL3	20:COM7	24:COM11	28:COM15	34:CVOL3
			-1.082	0.000	-0.003	-0.147	-0.012	0.000
			18:COM5	-	30:COM17	35:CVOL4	22:COM9	-
	2363	-ve	0.181	0.000	0.006	0.021	0.014	0.442
			24:COM11	-	20:COM7	24:COM11	20:COM7	16:COM3
			-1.082	-4.510	-0.003	-0.147	-0.009	-0.086
			18:COM5	35:CVOL4	30:COM17	35:CVOL4	30:COM17	26:COM13
4711	2106	+ve	0.000	9.155	0.010	0.011	0.000	12.754
			-	34:CVOL3	20:COM7	24:COM11	-	34:CVOL3
			-3.524	0.000	0.000	-0.183	-0.020	0.000
			22:COM9	-	-	35:CVOL4	22:COM9	-
	2364	-ve	0.000	0.000	0.010	0.011	0.020	1.223
			-	-	20:COM7	24:COM11	20:COM7	16:COM3
			-3.524	-3.831	0.000	-0.183	-0.000	-0.003
			22:COM9	35:CVOL4	-	35:CVOL4	30:COM17	26:COM13

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
4712	2365	+ve	3.302	1.654	0.181	0.033	0.221	29.530
			28:COM15	24:COM11	24:COM11	28:COM15	16:COM3	16:COM3
			-6.392	-5.482	-0.259	-2.182	-0.145	-4.886
			22:COM9	18:COM5	18:COM5	22:COM9	26:COM13	26:COM13
	2096	-ve	3.302	1.080	0.181	0.033	0.158	30.190
			28:COM15	24:COM11	24:COM11	28:COM15	24:COM11	20:COM7
			-6.392	-6.248	-0.259	-2.182	-0.211	0.000
			22:COM9	18:COM5	18:COM5	22:COM9	18:COM5	-
4713	2009	+ve	5.237	27.526	0.057	1.607	0.088	57.840
			20:COM7	20:COM7	24:COM11	16:COM3	16:COM3	20:COM7
			-3.125	-7.494	-0.072	-0.340	-0.074	-24.175
			30:COM17	30:COM17	18:COM5	26:COM13	26:COM13	30:COM17
	2365	-ve	5.237	22.349	0.057	1.607	0.059	1.103
			20:COM7	20:COM7	24:COM11	16:COM3	24:COM11	28:COM15
			-3.125	-10.332	-0.072	-0.340	-0.079	-4.643
			30:COM17	30:COM17	18:COM5	26:COM13	18:COM5	22:COM9
4714	2291	+ve	9.859	11.425	0.030	0.084	0.124	12.845
			16:COM3	34:CVOL3	24:COM11	28:COM15	16:COM3	20:COM7
			-4.931	0.000	-0.102	-0.526	-0.038	-5.963
			26:COM13	-	18:COM5	22:COM9	26:COM13	30:COM17
	2290	-ve	9.859	9.575	0.030	0.084	0.024	0.000
			16:COM3	34:CVOL3	24:COM11	28:COM15	24:COM11	-
			-4.931	0.000	-0.102	-0.526	-0.079	-16.287
			26:COM13	-	18:COM5	22:COM9	18:COM5	22:COM9
4715	2290	+ve	9.950	6.167	0.033	0.042	0.017	0.000
			16:COM3	34:CVOL3	20:COM7	24:COM17	28:COM15	-
			-5.065	0.000	-0.020	-0.483	-0.031	-16.351
			26:COM13	-	30:COM17	18:COM5	22:COM9	22:COM9
	2289	-ve	9.950	5.079	0.033	0.042	0.033	0.000
			16:COM3	20:COM7	20:COM7	24:COM17	20:COM7	-
			-5.065	0.000	-0.020	-0.483	-0.022	-25.466
			26:COM13	-	30:COM17	18:COM5	30:COM17	34:CVOL3
4716	2289	+ve	10.127	1.715	0.033	0.205	0.022	0.000
			16:COM3	24:COM11	20:COM7	24:COM17	28:COM15	-
			-4.912	-1.427	-0.022	-0.379	-0.034	-25.533
			26:COM13	18:COM5	30:COM17	18:COM5	22:COM9	34:CVOL3
	2362	-ve	10.127	1.019	0.033	0.205	0.032	0.000
			16:COM3	24:COM11	20:COM7	24:COM17	20:COM7	-
			-4.912	-2.355	-0.022	-0.379	-0.023	-24.429
			26:COM13	18:COM5	30:COM17	18:COM5	30:COM17	34:CVOL3
4717	2362	+ve	10.591	0.000	0.033	0.355	0.021	0.000
			16:COM3	-	20:COM7	16:COM3	28:COM15	-
			-4.704	-5.833	-0.021	-0.168	-0.035	-24.448
			26:COM13	18:COM5	30:COM17	26:COM13	22:COM9	34:CVOL3
	2363	-ve	10.591	0.000	0.033	0.355	0.030	0.448
			16:COM3	-	20:COM7	16:COM3	20:COM7	24:COM17
			-4.704	-7.505	-0.021	-0.168	-0.021	-13.457
			26:COM13	34:CVOL3	30:COM17	26:COM13	30:COM17	18:COM5

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
4718	2363	+ve	10.874	0.000	0.077	0.579	0.000	0.531
			16:COM3	-	16:COM3	35:CVOL4	-	24:COM1
			-4.665	-11.437	0.000	0.000	-0.070	-13.431
			26:COM1	34:CVOL3	-	-	18:COM5	18:COM5
	2364	-ve	10.874	0.000	0.077	0.579	0.084	16.103
			16:COM3	-	16:COM3	35:CVOL4	16:COM3	16:COM3
			-4.665	-13.288	0.000	0.000	0.000	-1.709
			26:COM1	34:CVOL3	-	-	-	26:COM1
4719	2364	+ve	8.800	0.000	0.121	1.581	0.000	16.151
			16:COM3	-	20:COM7	16:COM3	-	16:COM3
			-6.832	-16.843	0.000	0.000	-0.120	-1.603
			26:COM1	34:CVOL3	-	-	22:COM9	26:COM1
	2091	-ve	8.800	0.000	0.121	1.581	0.121	48.224
			16:COM3	-	20:COM7	16:COM3	20:COM7	34:CVOL3
			-6.832	-18.694	0.000	0.000	0.000	0.000
			26:COM1	34:CVOL3	-	-	-	-
4720	2278	+ve	6.836	5.313	0.045	0.327	0.077	1.927
			20:COM7	16:COM3	24:COM1	16:COM3	16:COM3	24:COM1
			-1.675	0.000	-0.047	-0.300	-0.063	-9.208
			30:COM1	-	18:COM5	26:COM1	26:COM1	18:COM5
	2277	-ve	6.836	3.694	0.045	0.327	0.036	0.000
			20:COM7	16:COM3	24:COM1	16:COM3	20:COM7	-
			-1.675	-0.075	-0.047	-0.300	-0.025	-12.535
			30:COM1	26:COM1	18:COM5	26:COM1	30:COM1	18:COM5
4721	2277	+ve	6.916	2.476	0.050	0.019	0.021	0.000
			20:COM7	16:COM3	20:COM7	24:COM1	24:COM1	-
			-2.054	-0.762	-0.007	-0.070	-0.052	-12.510
			30:COM1	26:COM1	30:COM1	18:COM5	18:COM5	18:COM5
	2318	-ve	6.916	0.951	0.050	0.019	0.060	0.000
			20:COM7	24:COM1	20:COM7	24:COM1	20:COM7	-
			-2.054	-2.070	-0.007	-0.070	-0.006	-11.579
			30:COM1	18:COM5	30:COM1	18:COM5	30:COM1	22:COM9
4722	2318	+ve	6.144	0.000	0.069	0.166	0.000	0.000
			20:COM7	-	16:COM3	24:COM1	-	-
			-1.652	-2.845	0.000	-0.258	-0.054	-11.538
			30:COM1	18:COM5	-	18:COM5	22:COM9	22:COM9
	2319	-ve	6.144	0.000	0.069	0.166	0.089	0.000
			20:COM7	-	16:COM3	24:COM1	16:COM3	-
			-1.652	-4.464	0.000	-0.258	-0.002	-8.139
			30:COM1	18:COM5	-	18:COM5	26:COM1	18:COM5
4723	2319	+ve	4.853	0.000	0.069	0.259	0.000	0.000
			20:COM7	-	16:COM3	24:COM1	-	-
			-1.568	-4.492	-0.021	-0.447	-0.048	-8.030
			30:COM1	22:COM9	26:COM1	18:COM5	22:COM9	18:COM5
	2320	-ve	4.853	0.000	0.069	0.259	0.100	7.100
			20:COM7	-	16:COM3	24:COM1	16:COM3	20:COM7
			-1.568	-6.111	-0.021	-0.447	-0.057	-0.141
			30:COM1	22:COM9	26:COM1	18:COM5	26:COM1	30:COM1

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
4724	2320	+ve	3.102	0.000	0.000	0.644	0.100	7.107
			28:COM15	-	-	24:COM17	16:COM3	20:COM7
			-2.724	-6.649	-0.100	-0.688	-0.008	-0.092
			22:COM9	18:COM5	22:COM9	18:COM5	26:COM13	30:COM17
	2077	-ve	3.102	0.000	0.000	0.644	0.000	18.845
			28:COM15	-	-	24:COM17	-	20:COM7
			-2.724	-8.270	-0.100	-0.688	-0.106	0.000
			22:COM9	18:COM5	22:COM9	18:COM5	22:COM9	-
4725	2367	+ve	15.533	67.923	2.564	31.093	1.454	101.720
			20:COM7	20:COM7	16:COM3	24:COM17	16:COM3	20:COM7
			-4.909	-14.393	-2.068	-39.914	-1.327	-19.989
			30:COM17	30:COM17	26:COM13	18:COM5	26:COM13	30:COM17
	2292	-ve	15.533	65.787	2.564	31.093	0.985	42.799
			20:COM7	20:COM7	16:COM3	24:COM17	16:COM3	20:COM7
			-4.909	-15.599	-2.068	-39.914	-0.421	-6.788
			30:COM17	30:COM17	26:COM13	18:COM5	26:COM13	30:COM17
5354	6253	+ve	0.572	43.812	1.881	16.631	1.685	48.606
			24:COM17	16:COM3	16:COM3	16:COM3	24:COM17	16:COM3
			-5.781	-38.582	-1.445	-3.961	-2.228	-25.253
			18:COM5	26:COM13	26:COM13	26:COM13	18:COM5	26:COM13
	6261	-ve	0.572	41.406	1.881	16.631	1.708	63.861
			24:COM17	16:COM3	16:COM3	16:COM3	16:COM3	20:COM7
			-5.781	-40.386	-1.445	-3.961	-1.340	-47.025
			18:COM5	26:COM13	26:COM13	26:COM13	26:COM13	30:COM17
5356	6262	+ve	1.813	16.542	0.557	7.975	0.557	13.713
			16:COM3	20:COM7	28:COM15	20:COM7	16:COM3	20:COM7
			-1.453	-8.390	-1.521	0.000	-0.097	-7.878
			26:COM13	30:COM17	22:COM9	-	26:COM13	30:COM17
	6252	-ve	1.813	15.714	0.557	7.975	0.414	2.147
			16:COM3	20:COM7	28:COM15	20:COM7	28:COM15	20:COM7
			-1.453	-9.011	-1.521	0.000	-0.646	-1.646
			26:COM13	30:COM17	22:COM9	-	22:COM9	30:COM17
5364	2376	+ve	0.938	4.194	0.033	0.115	0.018	8.180
			24:COM17	32:CVOL1	16:COM3	16:COM3	24:COM17	20:COM7
			-1.137	0.000	-0.017	-0.230	-0.039	0.000
			18:COM5	-	26:COM13	26:COM13	18:COM5	-
	1836	-ve	0.938	1.440	0.033	0.115	0.043	3.169
			24:COM17	28:COM15	16:COM3	16:COM3	16:COM3	20:COM7
			-1.137	-1.391	-0.017	-0.230	-0.024	0.000
			18:COM5	34:CVOL3	26:COM13	26:COM13	26:COM13	-
5365	1670	+ve	7.961	37.616	0.000	4.594	3.053	129.967
			20:COM7	16:COM3	-	24:COM17	16:COM3	16:COM3
			-7.055	0.000	-2.631	0.000	0.000	0.000
			30:COM17	-	22:COM9	-	-	-
	2377	-ve	7.961	35.240	0.000	4.594	0.000	55.010
			20:COM7	16:COM3	-	24:COM17	-	16:COM3
			-7.055	0.000	-2.631	0.000	-2.557	-4.625
			30:COM17	-	22:COM9	-	22:COM9	26:COM13

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
5366	2377	+ve	0.000	5.518	0.000	0.015	0.016	6.328
			-	16:COM3	-	16:COM3	32:CVOL1	16:COM3
			-8.656	0.000	-0.012	-0.103	0.000	0.000
			18:COM5	-	32:CVOL1	26:COM1	-	-
	1834	-ve	0.000	1.077	0.000	0.015	0.001	0.373
			-	24:COM1	-	16:COM3	20:COM7	24:COM1
			-8.656	-1.061	-0.012	-0.103	-0.013	-1.623
			18:COM5	18:COM5	32:CVOL1	26:COM1	30:COM1	18:COM5
5367	2378	+ve	0.000	4.660	0.009	0.055	0.041	5.134
			-	16:COM3	20:COM7	24:COM1	28:COM1	16:COM3
			-6.323	0.000	-0.032	-0.200	-0.013	0.000
			18:COM5	-	30:COM1	18:COM5	22:COM9	-
	1835	-ve	0.000	0.412	0.009	0.055	0.010	0.000
			-	24:COM1	20:COM7	24:COM1	20:COM7	-
			-6.323	-0.952	-0.032	-0.200	-0.036	-0.724
			18:COM5	18:COM5	30:COM1	18:COM5	30:COM1	18:COM5
5368	2378	+ve	1.677	7.864	5.415	12.926	4.068	9.449
			20:COM7	24:COM1	16:COM3	16:COM3	24:COM1	24:COM1
			-1.372	-6.638	-4.792	0.000	-4.376	-8.789
			30:COM1	18:COM5	26:COM1	-	18:COM5	18:COM5
	2376	-ve	1.677	6.623	5.415	12.926	3.409	1.993
			20:COM7	24:COM1	16:COM3	16:COM3	16:COM3	24:COM1
			-1.372	-8.294	-4.792	0.000	-2.823	-1.013
			30:COM1	18:COM5	26:COM1	-	26:COM1	18:COM5
5369	2377	+ve	2.132	23.916	1.234	7.844	1.524	54.945
			24:COM1	16:COM3	24:COM1	16:COM3	16:COM3	16:COM3
			-4.278	0.000	-1.810	-1.112	-0.869	-4.594
			18:COM5	-	18:COM5	26:COM1	26:COM1	26:COM1
	2378	-ve	2.132	21.540	1.234	7.844	1.677	9.233
			24:COM1	16:COM3	24:COM1	16:COM3	24:COM1	24:COM1
			-4.278	0.000	-1.810	-1.112	-2.209	-9.665
			18:COM5	-	18:COM5	26:COM1	18:COM5	18:COM5
5384	271	+ve	936.707	21.450	37.497	3.171	177.743	121.015
			20:COM7	16:COM3	28:COM1	20:COM7	20:COM7	16:COM3
			-606.208	-16.277	-40.265	-2.497	-165.324	-99.667
			30:COM1	26:COM1	22:COM9	30:COM1	30:COM1	26:COM1
	2022	-ve	913.691	21.450	37.497	3.171	149.658	37.261
			20:COM7	16:COM3	28:COM1	20:COM7	28:COM1	24:COM1
			-623.469	-16.277	-40.265	-2.497	-160.487	-59.361
			30:COM1	26:COM1	22:COM9	30:COM1	22:COM9	18:COM5
5387	259	+ve	302.650	6.538	31.177	0.992	146.662	22.550
			20:COM7	20:COM7	28:COM1	24:COM1	20:COM7	24:COM1
			-44.765	-3.421	-60.365	-1.356	-88.550	-20.423
			30:COM1	30:COM1	22:COM9	18:COM5	30:COM1	18:COM5
	1650	-ve	294.946	6.538	31.177	0.992	42.467	2.073
			20:COM7	20:COM7	28:COM1	24:COM1	28:COM1	24:COM1
			-50.543	-3.421	-60.365	-1.356	-106.945	-13.036
			30:COM1	30:COM1	22:COM9	18:COM5	22:COM9	18:COM5

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
5388	1650	+ve	134.020	18.155	25.838	1.230	136.039	37.313
			20:COM7	16:COM3	28:COM15	16:COM3	20:COM7	16:COM3
			-10.707	-8.875	-70.636	-0.809	-51.023	-21.031
			30:COM17	26:COM13	22:COM9	26:COM13	30:COM17	26:COM13
	2015	-ve	126.316	18.155	25.838	1.230	57.509	16.289
			20:COM7	16:COM3	28:COM15	16:COM3	28:COM15	24:COM11
			-16.485	-8.875	-70.636	-0.809	-160.644	-38.984
			30:COM17	26:COM13	22:COM9	26:COM13	22:COM9	18:COM5
5389	258	+ve	343.408	71.708	128.102	3.637	228.214	213.386
			16:COM3	16:COM3	20:COM7	16:COM3	28:COM15	16:COM3
			0.000	-43.648	-85.585	-2.113	-322.464	-167.630
			-	26:COM13	30:COM17	26:COM13	22:COM9	26:COM13
	1649	-ve	331.900	71.708	128.102	3.637	215.724	15.880
			16:COM3	16:COM3	20:COM7	16:COM3	20:COM7	24:COM11
			0.000	-43.648	-85.585	-2.113	-131.404	-87.975
			-	26:COM13	30:COM17	26:COM13	30:COM17	18:COM5
5390	1649	+ve	185.684	72.226	164.782	2.214	190.688	131.468
			20:COM7	16:COM3	20:COM7	24:COM11	28:COM15	16:COM3
			0.000	-18.296	-104.081	-2.053	-295.295	-33.916
			-	26:COM13	30:COM17	18:COM5	22:COM9	26:COM13
	2014	-ve	174.177	72.226	164.782	2.214	396.800	43.087
			20:COM7	16:COM3	20:COM7	24:COM11	20:COM7	24:COM11
			0.000	-18.296	-104.081	-2.053	-246.462	-172.040
			-	26:COM13	30:COM17	18:COM5	30:COM17	18:COM5
5391	246	+ve	326.984	33.769	24.744	1.357	101.944	83.931
			20:COM7	24:COM11	28:COM15	20:COM7	20:COM7	24:COM11
			-6.571	-36.837	-38.669	-0.831	-69.800	-97.365
			30:COM17	18:COM5	22:COM9	30:COM17	30:COM17	18:COM5
	1642	-ve	319.281	33.769	24.744	1.357	34.366	57.478
			20:COM7	24:COM11	28:COM15	20:COM7	28:COM15	24:COM11
			-12.348	-36.837	-38.669	-0.831	-60.705	-58.024
			30:COM17	18:COM5	22:COM9	30:COM17	22:COM9	18:COM5
5392	1642	+ve	158.507	41.815	31.451	1.159	101.356	79.088
			20:COM7	16:COM3	28:COM15	16:COM3	20:COM7	16:COM3
			-2.294	-46.452	-55.346	-1.090	-62.388	-84.362
			30:COM17	26:COM13	22:COM9	26:COM13	30:COM17	26:COM13
	2007	-ve	150.804	41.815	31.451	1.159	69.718	110.847
			20:COM7	16:COM3	28:COM15	16:COM3	28:COM15	24:COM11
			-8.071	-46.452	-55.346	-1.090	-131.112	-96.645
			30:COM17	26:COM13	22:COM9	26:COM13	22:COM9	18:COM5
5393	244	+ve	764.897	57.473	30.212	1.751	146.328	152.418
			34:CVOL3	24:COM11	28:COM15	20:COM7	20:COM7	24:COM11
			0.000	-89.857	-59.743	-1.533	-93.310	-223.532
			-	18:COM5	22:COM9	30:COM17	30:COM17	18:COM5
	1640	-ve	757.193	57.473	30.212	1.751	33.605	153.877
			34:CVOL3	24:COM11	28:COM15	20:COM7	28:COM15	16:COM3
			0.000	-89.857	-59.743	-1.533	-104.616	-88.980
			-	18:COM5	22:COM9	30:COM17	22:COM9	26:COM13

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
5394	1640	+ve	675.347	40.974	18.227	1.619	107.600	81.572
			34:CVOL3	24:COM11	28:COM15	20:COM7	20:COM7	24:COM1
			0.000	-69.188	-47.005	-1.107	-38.522	-142.306
			-	18:COM5	22:COM9	30:COM1	30:COM1	18:COM5
	2005	-ve	667.644	40.974	18.227	1.619	38.076	148.303
			34:CVOL3	24:COM11	28:COM15	20:COM7	28:COM15	16:COM3
			0.000	-69.188	-47.005	-1.107	-89.867	-90.540
			-	18:COM5	22:COM9	30:COM1	22:COM9	26:COM1
5395	245	+ve	316.303	33.534	43.403	1.537	129.555	88.195
			20:COM7	24:COM11	28:COM15	24:COM1	20:COM7	24:COM1
			0.000	-45.207	-44.714	-1.457	-117.330	-119.747
			-	18:COM5	22:COM9	18:COM5	30:COM1	18:COM5
	1641	-ve	308.599	33.534	43.403	1.537	65.970	70.183
			20:COM7	24:COM11	28:COM15	24:COM1	20:COM7	16:COM3
			0.000	-45.207	-44.714	-1.457	-59.255	-52.710
			-	18:COM5	22:COM9	18:COM5	30:COM1	26:COM1
5396	1641	+ve	155.065	37.973	50.285	1.398	84.805	71.398
			20:COM7	24:COM11	20:COM7	20:COM7	28:COM15	24:COM1
			0.000	-53.263	-48.997	-0.944	-95.680	-96.019
			-	18:COM5	30:COM1	30:COM1	22:COM9	18:COM5
	2006	-ve	147.361	37.973	50.285	1.398	115.524	127.707
			20:COM7	24:COM11	20:COM7	20:COM7	20:COM7	16:COM3
			0.000	-53.263	-48.997	-0.944	-120.990	-88.111
			-	18:COM5	30:COM1	30:COM1	30:COM1	26:COM1
5472	2423	+ve	8.526	45.499	0.982	0.000	0.879	147.539
			20:COM7	16:COM3	28:COM15	-	28:COM15	16:COM3
			-0.354	0.000	-1.307	-5.049	-1.005	-17.903
			30:COM1	-	22:COM9	18:COM5	22:COM9	26:COM1
	2604	-ve	8.526	43.250	0.982	0.000	0.945	61.021
			20:COM7	16:COM3	28:COM15	-	28:COM15	16:COM3
			-0.354	0.000	-1.307	-5.049	-1.705	-31.681
			30:COM1	-	22:COM9	18:COM5	22:COM9	26:COM1
5473	2424	+ve	10.447	46.933	0.257	3.217	0.903	139.186
			20:COM7	16:COM3	28:COM15	24:COM1	20:COM7	16:COM3
			-8.233	0.000	-0.915	-4.803	-0.269	-15.072
			30:COM1	-	22:COM9	18:COM5	30:COM1	26:COM1
	2609	-ve	10.447	44.684	0.257	3.217	0.243	49.900
			20:COM7	16:COM3	28:COM15	24:COM1	28:COM15	16:COM3
			-8.233	0.000	-0.915	-4.803	-0.892	-30.609
			30:COM1	-	22:COM9	18:COM5	22:COM9	26:COM1
5474	2425	+ve	14.604	46.590	0.000	3.017	0.935	138.577
			28:COM15	16:COM3	-	24:COM1	20:COM7	16:COM3
			-15.610	0.000	-0.868	-4.829	0.000	-14.896
			22:COM9	-	22:COM9	18:COM5	-	26:COM1
	2614	-ve	14.604	44.342	0.000	3.017	0.000	49.962
			28:COM15	16:COM3	-	24:COM1	-	16:COM3
			-15.610	0.000	-0.868	-4.829	-0.841	-30.601
			22:COM9	-	22:COM9	18:COM5	22:COM9	26:COM1

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
5475	2426	+ve	16.321	47.066	0.219	3.197	1.646	141.106
			20:COM7	16:COM3	28:COM15	24:COM11	20:COM7	16:COM3
			-15.919	0.000	-1.406	-4.843	-0.407	-15.145
			30:COM17	-	22:COM9	18:COM5	30:COM17	26:COM13
	2619	-ve	16.321	44.817	0.219	3.197	0.040	51.539
			20:COM7	16:COM3	28:COM15	24:COM11	28:COM15	16:COM3
			-15.919	0.000	-1.406	-4.843	-1.117	-31.024
			30:COM17	-	22:COM9	18:COM5	22:COM9	26:COM13
5477	2408	+ve	13.888	62.240	2.435	17.502	1.166	166.521
			24:COM11	20:COM7	16:COM3	28:COM15	24:COM11	16:COM3
			-20.462	0.000	-0.491	-28.848	-2.568	-19.205
			18:COM5	-	26:COM13	22:COM9	18:COM5	26:COM13
	2510	-ve	13.888	59.542	2.435	17.502	2.196	59.202
			24:COM11	20:COM7	16:COM3	28:COM15	16:COM3	16:COM3
			-20.462	0.000	-0.491	-28.848	0.000	-48.660
			18:COM5	-	26:COM13	22:COM9	-	26:COM13
5478	2409	+ve	12.243	40.181	1.648	14.323	0.120	129.598
			20:COM7	16:COM3	20:COM7	20:COM7	28:COM15	16:COM3
			-9.837	0.000	-0.072	0.000	-1.680	-32.636
			30:COM17	-	30:COM17	-	22:COM9	26:COM13
	2505	-ve	12.243	37.483	1.648	14.323	1.570	53.970
			20:COM7	16:COM3	20:COM7	20:COM7	20:COM7	16:COM3
			-9.837	0.000	-0.072	0.000	-0.057	-35.691
			30:COM17	-	30:COM17	-	30:COM17	26:COM13
5479	2410	+ve	19.108	39.802	1.229	14.616	0.131	127.259
			20:COM7	16:COM3	20:COM7	20:COM7	28:COM15	16:COM3
			-12.801	0.000	0.000	0.000	-1.293	-33.307
			30:COM17	-	-	-	22:COM9	26:COM13
	2515	-ve	19.108	37.103	1.229	14.616	1.259	52.340
			20:COM7	16:COM3	20:COM7	20:COM7	20:COM7	16:COM3
			-12.801	0.000	0.000	0.000	0.000	-36.451
			30:COM17	-	-	-	-	26:COM13
5480	2411	+ve	19.124	42.429	1.427	17.251	0.255	140.239
			20:COM7	16:COM3	20:COM7	20:COM7	28:COM15	16:COM3
			-13.614	0.000	0.000	-3.787	-1.612	-31.442
			30:COM17	-	-	30:COM17	22:COM9	26:COM13
	2520	-ve	19.124	39.730	1.427	17.251	1.237	60.147
			20:COM7	16:COM3	20:COM7	20:COM7	20:COM7	16:COM3
			-13.614	0.000	0.000	-3.787	0.000	-36.982
			30:COM17	-	-	30:COM17	-	26:COM13
5483	2408	+ve	15.140	260.024	1.128	26.397	6.809	237.261
			28:COM15	20:COM7	28:COM15	28:COM15	20:COM7	20:COM7
			-57.011	-237.662	-9.585	-31.107	-0.773	-211.976
			22:COM9	30:COM17	22:COM9	22:COM9	30:COM17	30:COM17
	2446	-ve	15.140	255.384	1.128	26.397	1.034	170.789
			28:COM15	20:COM7	28:COM15	28:COM15	28:COM15	28:COM15
			-57.011	-240.661	-9.585	-31.107	-8.528	-175.173
			22:COM9	30:COM17	22:COM9	22:COM9	22:COM9	22:COM9

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
5484	2409	+ve	0.394	50.964	0.578	13.926	0.203	30.224
			28:COM15	28:COM15	16:COM3	16:COM3	28:COM15	28:COM15
			-36.337	-68.062	-0.196	-13.007	-0.383	-42.801
			22:COM9	22:COM9	26:COM13	26:COM13	22:COM9	22:COM9
	2447	-ve	0.394	48.241	0.578	13.926	0.571	69.518
			28:COM15	28:COM15	16:COM3	16:COM3	16:COM3	20:COM7
			-36.337	-72.333	-0.196	-13.007	-0.141	-49.143
			22:COM9	22:COM9	26:COM13	26:COM13	26:COM13	30:COM17
5485	2410	+ve	2.453	47.426	0.412	14.191	0.220	26.827
			28:COM15	28:COM15	16:COM3	16:COM3	24:COM11	28:COM15
			-36.950	-65.828	-0.258	-12.251	-0.295	-40.552
			22:COM9	22:COM9	26:COM13	26:COM13	18:COM5	22:COM9
	2448	-ve	2.453	44.703	0.412	14.191	0.407	68.190
			28:COM15	28:COM15	16:COM3	16:COM3	16:COM3	20:COM7
			-36.950	-70.098	-0.258	-12.251	-0.234	-46.877
			22:COM9	22:COM9	26:COM13	26:COM13	26:COM13	30:COM17
5486	2411	+ve	0.000	46.965	0.489	15.132	0.252	27.981
			-	28:COM15	16:COM3	16:COM3	24:COM11	28:COM15
			-41.871	-67.564	-0.284	-12.181	-0.416	-42.992
			22:COM9	22:COM9	26:COM13	26:COM13	18:COM5	22:COM9
	2449	-ve	0.000	44.241	0.489	15.132	0.411	68.534
			-	28:COM15	16:COM3	16:COM3	16:COM3	20:COM7
			-41.871	-71.835	-0.284	-12.181	-0.247	-44.990
			22:COM9	22:COM9	26:COM13	26:COM13	26:COM13	30:COM17
5487	2412	+ve	0.000	227.910	3.753	26.610	1.917	211.381
			-	20:COM7	20:COM7	24:COM11	28:COM15	20:COM7
			-49.618	-216.864	-1.954	-28.816	-3.197	-194.772
			22:COM9	30:COM17	30:COM17	18:COM5	22:COM9	30:COM17
	2450	-ve	0.000	223.002	3.753	26.610	2.845	155.529
			-	20:COM7	20:COM7	24:COM11	20:COM7	20:COM7
			-49.618	-220.065	-1.954	-28.816	-1.247	-150.107
			22:COM9	30:COM17	30:COM17	18:COM5	30:COM17	30:COM17
5488	2432	+ve	7.048	42.064	4.867	0.000	0.000	48.117
			24:COM11	20:COM7	16:COM3	-	-	20:COM7
			-29.035	0.000	0.000	-30.291	-5.445	0.000
			18:COM5	-	-	34:CVOL3	18:COM5	-
	2434	-ve	7.048	36.409	4.867	0.000	4.047	2.912
			24:COM11	20:COM7	16:COM3	-	16:COM3	28:COM15
			-29.035	0.000	0.000	-30.291	0.000	-28.916
			18:COM5	-	-	34:CVOL3	-	22:COM9
5489	2395	+ve	46.639	144.773	0.230	1.434	5.978	382.033
			20:COM7	20:COM7	24:COM11	28:COM15	20:COM7	20:COM7
			-19.955	-124.147	-1.706	-21.347	0.000	-378.434
			30:COM17	30:COM17	18:COM5	22:COM9	-	30:COM17
	2489	-ve	46.639	135.395	0.230	1.434	3.078	58.290
			20:COM7	20:COM7	24:COM11	28:COM15	20:COM7	28:COM15
			-19.955	-130.475	-1.706	-21.347	-0.338	-84.708
			30:COM17	30:COM17	18:COM5	22:COM9	30:COM17	22:COM9

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
5490	2428	+ve	7.236	79.604	2.796	9.879	0.756	73.092
			28:COM15	20:COM7	20:COM7	28:COM15	28:COM15	20:COM7
			-57.159	-22.513	-0.851	-9.337	-2.405	-10.323
			22:COM9	30:COM17	30:COM17	22:COM9	22:COM9	30:COM17
	2435	-ve	7.236	74.399	2.796	9.879	3.049	36.816
			28:COM15	20:COM7	20:COM7	28:COM15	20:COM7	28:COM15
			-57.159	-25.832	-0.851	-9.337	-0.904	-77.061
			22:COM9	30:COM17	30:COM17	22:COM9	30:COM17	22:COM9
5492	2429	+ve	5.336	54.174	0.310	7.571	4.072	44.190
			28:COM15	20:COM7	28:COM15	16:COM3	20:COM7	20:COM7
			-61.040	-41.229	-4.551	-5.357	-0.377	-31.370
			22:COM9	30:COM17	22:COM9	26:COM13	30:COM17	30:COM17
	2436	-ve	5.336	49.260	0.310	7.571	0.228	53.121
			28:COM15	28:COM15	28:COM15	16:COM3	28:COM15	20:COM7
			-61.040	-45.412	-4.551	-5.357	-4.803	-56.673
			22:COM9	22:COM9	22:COM9	26:COM13	22:COM9	30:COM17
5493	2430	+ve	1.590	45.325	0.848	10.807	0.304	37.093
			28:COM15	20:COM7	20:COM7	16:COM3	28:COM15	20:COM7
			-62.787	-35.596	-0.463	-9.161	-0.622	-26.744
			22:COM9	30:COM17	30:COM17	26:COM13	22:COM9	30:COM17
	2437	-ve	1.590	41.216	0.848	10.807	1.032	47.629
			28:COM15	28:COM15	20:COM7	16:COM3	20:COM7	20:COM7
			-62.787	-40.584	-0.463	-9.161	-0.600	-47.382
			22:COM9	22:COM9	30:COM17	26:COM13	30:COM17	30:COM17
5494	2431	+ve	20.898	63.260	0.658	8.557	0.328	52.767
			28:COM15	20:COM7	16:COM3	24:COM17	24:COM11	20:COM7
			-70.757	-40.753	-0.404	-9.641	-0.555	-30.700
			22:COM9	30:COM17	26:COM13	18:COM5	18:COM5	30:COM17
	2438	-ve	20.898	58.055	0.658	8.557	0.760	52.015
			28:COM15	20:COM7	16:COM3	24:COM17	16:COM3	28:COM15
			-70.757	-44.071	-0.404	-9.641	-0.494	-65.526
			22:COM9	30:COM17	26:COM13	18:COM5	26:COM13	22:COM9
5495	2415	+ve	31.608	174.008	23.900	0.000	5.352	99.448
			28:COM15	20:COM7	20:COM7	-	28:COM15	20:COM7
			-59.095	-162.918	-7.452	-51.467	-24.910	-87.953
			22:COM9	30:COM17	30:COM17	22:COM9	22:COM9	30:COM17
	2395	-ve	31.608	166.909	23.900	0.000	18.094	209.555
			28:COM15	28:COM15	20:COM7	-	20:COM7	20:COM7
			-59.095	-167.824	-7.452	-51.467	-8.106	-207.199
			22:COM9	22:COM9	30:COM17	22:COM9	30:COM17	30:COM17
5496	2416	+ve	0.000	0.000	0.616	16.635	0.888	2.972
			-	-	16:COM3	20:COM7	20:COM7	24:COM17
			-30.903	-35.603	-0.332	-13.911	-0.959	-28.693
			22:COM9	22:COM9	26:COM13	30:COM17	30:COM17	18:COM5
	2396	-ve	0.000	0.000	0.616	16.635	0.857	41.553
			-	-	16:COM3	20:COM7	20:COM7	34:CVOL3
			-30.903	-40.700	-0.332	-13.911	-0.418	0.000
			22:COM9	22:COM9	26:COM13	30:COM17	30:COM17	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
5497	2417	+ve	0.000	0.000	0.341	5.269	0.076	0.000
			-	-	20:COM7	16:COM3	28:COM15	-
			-70.486	-48.927	-0.221	-4.316	-0.158	-37.124
			22:COM9	34:CVOL3	30:COM17	26:COM13	22:COM9	22:COM9
	2400	-ve	0.000	0.000	0.341	5.269	0.456	60.754
			-	-	20:COM7	16:COM3	20:COM7	34:CVOL3
			-70.486	-54.454	-0.221	-4.316	-0.324	0.000
			22:COM9	34:CVOL3	30:COM17	26:COM13	30:COM17	-
5498	2418	+ve	2.178	76.177	0.710	13.927	0.660	52.167
			24:COM11	28:COM15	16:COM3	24:COM11	24:COM11	28:COM15
			-52.179	-99.589	-0.707	-20.996	-0.614	-67.577
			18:COM5	22:COM9	26:COM13	18:COM5	18:COM5	22:COM9
	2401	-ve	2.178	72.894	0.710	13.927	1.595	115.999
			24:COM11	28:COM15	16:COM3	24:COM11	16:COM3	20:COM7
			-52.179	-104.685	-0.707	-20.996	-1.544	-81.832
			18:COM5	22:COM9	26:COM13	18:COM5	26:COM13	30:COM17
5499	2433	+ve	40.423	14.362	1.341	16.328	1.362	13.180
			28:COM15	20:COM7	24:COM11	24:COM11	24:COM11	20:COM7
			-56.303	-3.212	-1.363	-21.871	-1.475	-2.022
			22:COM9	30:COM17	18:COM5	18:COM5	18:COM5	30:COM17
	2439	-ve	40.423	8.748	1.341	16.328	1.165	7.879
			28:COM15	28:COM15	24:COM11	24:COM11	24:COM11	28:COM15
			-56.303	-6.909	-1.363	-21.871	-1.321	-9.386
			22:COM9	22:COM9	18:COM5	18:COM5	18:COM5	22:COM9
5500	2419	+ve	9.091	322.346	23.171	39.974	17.291	74.836
			24:COM11	20:COM7	16:COM3	16:COM3	24:COM11	20:COM7
			-50.156	-270.687	-20.291	-24.591	-22.003	-66.008
			18:COM5	30:COM17	26:COM13	26:COM13	18:COM5	30:COM17
	2402	-ve	9.091	314.143	23.171	39.974	20.276	425.236
			24:COM11	20:COM7	16:COM3	16:COM3	16:COM3	28:COM15
			-50.156	-276.300	-20.291	-24.591	-19.815	-496.787
			18:COM5	30:COM17	26:COM13	26:COM13	26:COM13	22:COM9
5501	2416	+ve	15.332	63.748	0.854	3.063	2.085	181.262
			20:COM7	20:COM7	28:COM15	20:COM7	20:COM7	20:COM7
			-2.954	-10.945	-2.044	-0.285	-0.748	-67.951
			30:COM17	30:COM17	22:COM9	30:COM17	30:COM17	30:COM17
	2552	-ve	15.332	61.152	0.854	3.063	0.860	64.888
			20:COM7	20:COM7	28:COM15	20:COM7	28:COM15	16:COM3
			-2.954	-12.892	-2.044	-0.285	-1.755	-46.363
			30:COM17	30:COM17	22:COM9	30:COM17	22:COM9	26:COM13
5502	2420	+ve	0.000	17.655	0.354	5.358	0.833	20.776
			-	28:COM15	28:COM15	16:COM3	20:COM7	28:COM15
			-46.079	-48.238	-1.068	-1.602	-0.275	-42.448
			22:COM9	22:COM9	22:COM9	26:COM13	30:COM17	22:COM9
	2759	-ve	0.000	14.294	0.354	5.358	0.380	51.094
			-	28:COM15	28:COM15	16:COM3	28:COM15	20:COM7
			-46.079	-53.456	-1.068	-1.602	-1.133	-8.640
			22:COM9	22:COM9	22:COM9	26:COM13	22:COM9	30:COM17

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
5505	2432	+ve	25.422	41.736	0.533	2.752	0.982	154.806
			34:CVOL3	20:COM7	28:COM15	28:COM15	20:COM7	20:COM7
			0.000	0.000	-1.811	-7.279	-0.469	0.000
			-	-	22:COM9	22:COM9	30:COM17	-
	2625	-ve	25.422	39.450	0.533	2.752	0.745	74.360
			34:CVOL3	20:COM7	28:COM15	28:COM15	28:COM15	20:COM7
			0.000	0.000	-1.811	-7.279	-2.765	-6.819
			-	-	22:COM9	22:COM9	22:COM9	30:COM17
5506	2428	+ve	2.963	37.025	2.359	3.022	0.066	119.397
			20:COM7	16:COM3	20:COM7	16:COM3	28:COM15	16:COM3
			-3.277	0.000	0.000	-5.422	-2.673	0.000
			30:COM17	-	-	26:COM13	22:COM9	-
	2628	-ve	2.963	34.858	2.359	3.022	1.779	51.874
			20:COM7	16:COM3	20:COM7	16:COM3	20:COM7	16:COM3
			-3.277	0.000	0.000	-5.422	0.000	-7.381
			30:COM17	-	-	26:COM13	-	26:COM13
5509	2429	+ve	12.332	40.992	1.070	8.648	1.068	139.678
			20:COM7	16:COM3	20:COM7	20:COM7	20:COM7	16:COM3
			0.000	0.000	-0.825	0.000	-1.232	-3.672
			-	-	30:COM17	-	30:COM17	26:COM13
	2636	-ve	12.332	38.714	1.070	8.648	0.888	61.065
			20:COM7	16:COM3	20:COM7	20:COM7	20:COM7	16:COM3
			0.000	0.000	-0.825	0.000	-0.566	-22.945
			-	-	30:COM17	-	30:COM17	26:COM13
5510	2420	+ve	11.960	59.799	0.695	4.166	2.880	200.544
			16:COM3	16:COM3	28:COM15	20:COM7	20:COM7	16:COM3
			0.000	0.000	-3.275	-1.325	-0.730	0.000
			-	-	22:COM9	30:COM17	30:COM17	-
	2493	-ve	11.960	57.076	0.695	4.166	0.658	85.887
			16:COM3	16:COM3	28:COM15	20:COM7	28:COM15	16:COM3
			0.000	0.000	-3.275	-1.325	-3.585	-31.334
			-	-	22:COM9	30:COM17	22:COM9	26:COM13
5511	2417	+ve	18.626	66.712	1.032	10.096	1.369	222.171
			16:COM3	16:COM3	28:COM15	20:COM7	20:COM7	16:COM3
			0.000	0.000	-1.518	0.000	-1.168	0.000
			-	-	22:COM9	-	30:COM17	-
	2499	-ve	18.626	63.982	1.032	10.096	0.872	93.403
			16:COM3	16:COM3	28:COM15	20:COM7	28:COM15	16:COM3
			0.000	0.000	-1.518	0.000	-1.631	-27.608
			-	-	22:COM9	-	22:COM9	26:COM13
5512	2430	+ve	18.583	41.725	1.518	8.348	0.000	136.233
			20:COM7	16:COM3	20:COM7	16:COM3	-	16:COM3
			-7.567	0.000	0.000	-0.313	-1.659	-8.855
			30:COM17	-	-	26:COM13	22:COM9	26:COM13
	2642	-ve	18.583	39.449	1.518	8.348	1.342	56.183
			20:COM7	16:COM3	20:COM7	16:COM3	20:COM7	16:COM3
			-7.567	0.000	0.000	-0.313	0.000	-24.649
			30:COM17	-	-	26:COM13	-	26:COM13

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
5513	2418	+ve	104.331	166.018	2.850	10.827	3.427	417.980
			16:COM3	16:COM3	24:COM11	28:COM15	16:COM3	16:COM3
			-77.888	-144.714	-3.423	-15.156	-2.871	-382.758
			26:COM13	26:COM13	18:COM5	22:COM9	26:COM13	26:COM13
	2542	-ve	104.331	162.601	2.850	10.827	2.790	94.324
			16:COM3	16:COM3	24:COM11	28:COM15	24:COM11	24:COM17
			-77.888	-147.276	-3.423	-15.156	-3.365	-95.271
			26:COM13	26:COM13	18:COM5	22:COM9	18:COM5	18:COM5
5514	2404	+ve	20.444	17.022	19.511	7.225	5.707	23.439
			24:COM17	16:COM3	20:COM7	24:COM17	20:COM7	16:COM3
			-49.962	-10.016	-18.734	-7.219	-5.556	-18.728
			18:COM5	26:COM13	30:COM17	18:COM5	30:COM17	26:COM13
	2544	-ve	20.444	15.829	19.511	7.225	8.025	12.131
			24:COM17	16:COM3	20:COM7	24:COM17	20:COM7	16:COM3
			-49.962	-10.911	-18.734	-7.219	-7.339	-11.531
			18:COM5	26:COM13	30:COM17	18:COM5	30:COM17	26:COM13
5515	2401	+ve	23.383	70.918	2.890	29.865	5.221	186.045
			20:COM7	20:COM7	24:COM11	16:COM3	16:COM3	20:COM7
			-5.044	-49.269	-3.636	-8.137	-3.999	-176.543
			30:COM17	30:COM17	18:COM5	26:COM13	26:COM13	30:COM17
	2488	-ve	23.383	66.967	2.890	29.865	4.281	3.426
			20:COM7	20:COM7	24:COM11	16:COM3	24:COM11	28:COM15
			-5.044	-52.232	-3.636	-8.137	-5.188	-45.850
			30:COM17	30:COM17	18:COM5	26:COM13	18:COM5	22:COM9
5516	2405	+ve	26.069	82.001	4.902	3.832	4.917	92.650
			24:COM17	16:COM3	24:COM11	24:COM17	24:COM11	16:COM3
			-42.864	-69.150	-5.393	-4.575	-4.955	-68.517
			18:COM5	26:COM13	18:COM5	18:COM5	18:COM5	26:COM13
	2419	-ve	26.069	78.614	4.902	3.832	5.190	71.976
			24:COM17	16:COM3	24:COM11	24:COM17	24:COM11	16:COM3
			-42.864	-71.690	-5.393	-4.575	-6.188	-67.196
			18:COM5	26:COM13	18:COM5	18:COM5	18:COM5	26:COM13
5517	2404	+ve	6.913	25.192	1.518	7.803	1.918	20.047
			28:COM15	28:COM15	20:COM7	20:COM7	28:COM15	28:COM15
			-26.100	-27.969	-1.297	-6.842	-2.281	-22.232
			22:COM9	22:COM9	30:COM17	30:COM17	22:COM9	22:COM9
	2403	-ve	6.913	23.635	1.518	7.803	1.142	43.046
			28:COM15	28:COM15	20:COM7	20:COM7	20:COM7	20:COM7
			-26.100	-30.045	-1.297	-6.842	-1.008	-34.893
			22:COM9	22:COM9	30:COM17	30:COM17	30:COM17	30:COM17
5520	2403	+ve	21.402	54.603	0.847	4.553	0.723	136.027
			20:COM7	20:COM7	20:COM7	28:COM15	16:COM3	20:COM7
			-21.134	-41.063	-0.869	-5.593	-0.636	-119.984
			30:COM17	30:COM17	30:COM17	22:COM9	26:COM13	30:COM17
	2555	-ve	21.402	52.306	0.847	4.553	1.539	7.792
			20:COM7	20:COM7	20:COM7	28:COM15	20:COM7	24:COM17
			-21.134	-42.786	-0.869	-5.593	-1.507	-20.458
			30:COM17	30:COM17	30:COM17	22:COM9	30:COM17	18:COM5

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
5521	2415	+ve	22.085	118.213	1.499	9.448	6.694	187.094
			16:COM3	16:COM3	24:COM11	20:COM7	16:COM3	16:COM3
			-7.987	-10.404	-5.551	0.000	-1.539	0.000
			26:COM13	26:COM13	18:COM5	-	26:COM13	-
	2525	-ve	22.085	114.691	1.499	9.448	2.068	37.648
			16:COM3	16:COM3	24:COM11	20:COM7	28:COM15	24:COM11
			-7.987	-13.046	-5.551	0.000	-5.165	-50.107
			26:COM13	26:COM13	18:COM5	-	22:COM9	18:COM5
5522	2421	+ve	55.107	53.793	1.291	4.095	0.422	38.164
			20:COM7	28:COM15	20:COM7	16:COM3	28:COM15	28:COM15
			-53.691	-67.148	-0.821	-1.466	-0.624	-44.457
			30:COM17	22:COM9	30:COM17	26:COM13	22:COM9	22:COM9
	2527	-ve	55.107	51.121	1.291	4.095	2.046	97.528
			20:COM7	28:COM15	20:COM7	16:COM3	20:COM7	20:COM7
			-53.691	-70.711	-0.821	-1.466	-1.280	-69.893
			30:COM17	22:COM9	30:COM17	26:COM13	30:COM17	30:COM17
5523	2526	+ve	57.929	105.927	3.532	4.287	2.033	196.608
			20:COM7	20:COM7	20:COM7	20:COM7	28:COM15	20:COM7
			-29.945	-79.048	-2.477	-3.279	-3.560	-185.867
			30:COM17	30:COM17	30:COM17	30:COM17	22:COM9	30:COM17
	2529	-ve	57.929	102.489	3.532	4.287	3.461	0.000
			20:COM7	20:COM7	20:COM7	20:COM7	20:COM7	-
			-29.945	-81.627	-2.477	-3.279	-2.891	-34.657
			30:COM17	30:COM17	30:COM17	30:COM17	30:COM17	22:COM9
5525	2431	+ve	20.170	37.061	2.904	5.986	1.889	105.293
			20:COM7	16:COM3	16:COM3	16:COM3	28:COM15	16:COM3
			-11.827	0.000	-1.973	-3.698	-2.842	-6.247
			30:COM17	-	26:COM13	26:COM13	22:COM9	26:COM13
	2648	-ve	20.170	34.787	2.904	5.986	3.610	34.474
			20:COM7	16:COM3	16:COM3	16:COM3	16:COM3	16:COM3
			-11.827	0.000	-1.973	-3.698	-2.728	-12.067
			30:COM17	-	26:COM13	26:COM13	26:COM13	26:COM13
5526	2427	+ve	12.449	40.397	1.291	3.432	4.425	114.038
			24:COM11	16:COM3	28:COM15	24:COM11	20:COM7	16:COM3
			-16.878	0.000	-3.560	-5.651	-1.831	-34.383
			18:COM5	-	22:COM9	18:COM5	30:COM17	26:COM13
	6167	-ve	12.449	38.017	1.291	3.432	0.845	34.536
			24:COM11	16:COM3	28:COM15	24:COM11	28:COM15	24:COM11
			-16.878	0.000	-3.560	-5.651	-2.934	-40.193
			18:COM5	-	22:COM9	18:COM5	22:COM9	18:COM5
5529	2434	+ve	0.000	22.613	0.066	0.886	2.064	25.491
			-	20:COM7	28:COM15	16:COM3	34:CVOL3	20:COM7
			-37.026	-2.680	-0.713	-0.501	0.000	-3.056
			18:COM5	30:COM17	22:COM9	26:COM13	-	30:COM17
	2440	-ve	0.000	15.363	0.066	0.886	1.510	9.656
			-	20:COM7	28:COM15	16:COM3	20:COM7	28:COM15
			-37.026	-7.367	-0.713	-0.501	-0.262	-22.131
			18:COM5	30:COM17	22:COM9	26:COM13	30:COM17	22:COM9

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
5530	2435	+ve	17.889	77.130	0.894	1.658	0.468	95.638
			20:COM7	28:COM15	20:COM7	20:COM7	28:COM15	28:COM15
			-0.167	-82.633	-0.778	-0.776	-1.073	-102.432
			30:COM17	22:COM9	30:COM17	30:COM17	22:COM9	22:COM9
	2441	-ve	17.889	72.875	0.894	1.658	1.269	112.494
			20:COM7	28:COM15	20:COM7	20:COM7	28:COM15	20:COM7
			-0.167	-89.306	-0.778	-0.776	-1.582	-91.869
			30:COM17	22:COM9	30:COM17	30:COM17	22:COM9	30:COM17
5531	2436	+ve	15.241	86.798	0.000	1.325	1.353	105.397
			20:COM7	20:COM7	-	28:COM15	16:COM3	20:COM7
			0.000	-83.477	-0.629	-2.597	0.000	-106.511
			-	30:COM17	18:COM5	22:COM9	-	30:COM17
	2442	-ve	15.241	80.444	0.000	1.325	0.000	107.895
			20:COM7	28:COM15	-	28:COM15	-	28:COM15
			0.000	-88.786	-0.629	-2.597	-0.336	-102.731
			-	22:COM9	18:COM5	22:COM9	22:COM9	22:COM9
5532	2437	+ve	16.140	72.277	0.142	0.923	0.266	86.694
			16:COM3	20:COM7	20:COM7	24:COM17	28:COM15	20:COM7
			0.000	-67.147	-0.092	-1.512	-0.396	-85.185
			-	30:COM17	30:COM17	18:COM5	22:COM9	30:COM17
	2443	-ve	16.140	65.950	0.142	0.923	0.096	88.397
			16:COM3	28:COM15	20:COM7	24:COM17	24:COM11	28:COM15
			0.000	-72.483	-0.092	-1.512	-0.101	-85.133
			-	22:COM9	30:COM17	18:COM5	18:COM5	22:COM9
5533	2438	+ve	18.438	75.898	0.909	2.557	0.421	93.366
			20:COM7	28:COM15	16:COM3	24:COM17	24:COM11	28:COM15
			-3.062	-86.565	-0.842	-3.388	-0.591	-110.985
			30:COM17	22:COM9	26:COM13	18:COM5	18:COM5	22:COM9
	2444	-ve	18.438	71.643	0.909	2.557	1.753	113.791
			20:COM7	28:COM15	16:COM3	24:COM17	24:COM11	20:COM7
			-3.062	-93.238	-0.842	-3.388	-1.753	-91.081
			30:COM17	22:COM9	26:COM13	18:COM5	18:COM5	30:COM17
5534	2439	+ve	36.570	13.528	0.147	0.647	0.220	12.513
			28:COM15	20:COM7	16:COM3	28:COM15	16:COM3	20:COM7
			-59.048	-5.301	-0.106	-1.242	-0.152	-6.832
			22:COM9	30:COM17	26:COM13	22:COM9	26:COM13	30:COM17
	2445	-ve	36.570	7.166	0.147	0.647	0.404	12.419
			28:COM15	28:COM15	16:COM3	28:COM15	16:COM3	20:COM7
			-59.048	-10.876	-0.106	-1.242	-0.233	-12.385
			22:COM9	22:COM9	26:COM13	22:COM9	26:COM13	30:COM17
5535	2440	+ve	0.000	55.608	5.103	20.927	8.819	37.827
			-	20:COM7	24:COM11	20:COM7	16:COM3	20:COM7
			-32.837	-33.074	-11.477	0.000	-4.629	-19.823
			22:COM9	30:COM17	18:COM5	-	26:COM13	30:COM17
	2415	-ve	0.000	50.823	5.103	20.927	3.837	37.312
			-	20:COM7	24:COM11	20:COM7	24:COM11	28:COM15
			-32.837	-36.168	-11.477	0.000	-10.164	-49.989
			22:COM9	30:COM17	18:COM5	-	18:COM5	22:COM9

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
5536	2441	+ve	0.000	42.498	0.222	16.423	1.270	52.141
			-	20:COM7	24:COM11	28:COM15	16:COM3	20:COM7
			-30.570	-40.139	-1.629	-19.610	-0.085	-43.647
			22:COM9	30:COM17	18:COM5	22:COM9	26:COM13	30:COM17
	2416	-ve	0.000	39.335	0.222	16.423	0.648	27.621
			-	28:COM15	24:COM11	28:COM15	28:COM15	20:COM7
			-30.570	-44.189	-1.629	-19.610	-1.785	-17.069
			22:COM9	22:COM9	18:COM5	22:COM9	22:COM9	30:COM17
5537	2442	+ve	0.000	57.921	1.040	1.624	0.933	60.070
			-	28:COM15	20:COM7	24:COM11	28:COM15	20:COM7
			-47.073	-55.835	-1.167	-7.411	-0.934	-53.893
			22:COM9	22:COM9	30:COM17	18:COM5	22:COM9	30:COM17
	2420	-ve	0.000	54.905	1.040	1.624	0.782	42.585
			-	28:COM15	20:COM7	24:COM11	20:COM7	20:COM7
			-47.073	-60.517	-1.167	-7.411	-0.994	-33.499
			22:COM9	22:COM9	30:COM17	18:COM5	30:COM17	30:COM17
5538	2443	+ve	0.000	37.355	0.303	5.223	0.410	43.765
			-	28:COM15	28:COM15	24:COM11	20:COM7	28:COM15
			-50.779	-45.914	-0.348	-7.021	-0.352	-45.369
			22:COM9	22:COM9	22:COM9	18:COM5	30:COM17	22:COM9
	2417	-ve	0.000	34.338	0.303	5.223	0.183	34.252
			-	28:COM15	28:COM15	24:COM11	24:COM11	20:COM7
			-50.779	-50.595	-0.348	-7.021	-0.199	-15.382
			22:COM9	22:COM9	22:COM9	18:COM5	18:COM5	30:COM17
5539	2444	+ve	0.000	70.749	2.204	25.016	2.607	68.971
			-	20:COM7	24:COM11	16:COM3	16:COM3	20:COM7
			-44.352	-62.860	-1.962	-16.848	-2.693	-57.262
			18:COM5	30:COM17	18:COM5	26:COM13	26:COM13	30:COM17
	2418	-ve	0.000	66.352	2.204	25.016	1.167	50.571
			-	28:COM15	24:COM11	16:COM3	28:COM15	20:COM7
			-44.352	-65.676	-1.962	-16.848	-0.856	-45.929
			18:COM5	22:COM9	18:COM5	26:COM13	22:COM9	30:COM17
5540	2445	+ve	19.172	39.393	12.718	11.712	11.866	21.769
			28:COM15	20:COM7	24:COM11	24:COM11	16:COM3	28:COM15
			-48.613	-37.505	-14.851	-16.130	-10.868	-22.201
			22:COM9	30:COM17	18:COM5	18:COM5	26:COM13	22:COM9
	2419	-ve	19.172	35.859	12.718	11.712	10.373	42.910
			28:COM15	28:COM15	24:COM11	24:COM11	24:COM11	20:COM7
			-48.613	-41.850	-14.851	-16.130	-12.895	-39.957
			22:COM9	22:COM9	18:COM5	18:COM5	18:COM5	30:COM17
5541	2446	+ve	8.367	82.231	0.130	1.637	0.795	128.596
			20:COM7	20:COM7	20:COM7	28:COM15	20:COM7	28:COM15
			-5.664	-80.188	-0.039	-2.501	-0.028	-133.374
			30:COM17	30:COM17	30:COM17	22:COM9	30:COM17	22:COM9
	2451	-ve	8.367	75.552	0.130	1.637	1.024	155.008
			20:COM7	28:COM15	20:COM7	28:COM15	16:COM3	20:COM7
			-5.664	-89.744	-0.039	-2.501	0.000	-139.134
			30:COM17	22:COM9	30:COM17	22:COM9	-	30:COM17

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
5542	2447	+ve	0.000	60.756	0.069	0.684	0.121	97.349
			-	20:COM7	28:COM15	24:COM17	28:COM15	20:COM7
			-2.160	-45.724	-0.127	-0.779	-0.118	-80.665
			22:COM9	30:COM17	22:COM9	18:COM5	22:COM9	30:COM17
	2452	-ve	0.000	51.681	0.069	0.684	0.134	84.635
			-	20:COM7	28:COM15	24:COM17	28:COM15	28:COM15
			-2.160	-51.511	-0.127	-0.779	-0.329	-93.795
			22:COM9	30:COM17	22:COM9	18:COM5	22:COM9	22:COM9
5543	2448	+ve	0.000	61.483	0.051	0.651	0.061	98.751
			-	20:COM7	28:COM15	28:COM15	28:COM15	20:COM7
			-3.250	-44.492	-0.068	-0.861	-0.068	-78.713
			22:COM9	30:COM17	22:COM9	22:COM9	22:COM9	30:COM17
	2453	-ve	0.000	52.407	0.051	0.651	0.124	82.396
			-	20:COM7	28:COM15	28:COM15	28:COM15	28:COM15
			-3.250	-50.278	-0.068	-0.861	-0.191	-94.862
			22:COM9	30:COM17	22:COM9	22:COM9	22:COM9	22:COM9
5544	2449	+ve	0.198	58.776	0.080	0.762	0.044	94.067
			24:COM17	20:COM7	16:COM3	28:COM15	28:COM15	20:COM7
			-2.141	-40.869	-0.046	-1.024	-0.093	-72.362
			18:COM5	30:COM17	26:COM13	22:COM9	22:COM9	30:COM17
	2454	-ve	0.198	49.701	0.080	0.762	0.213	76.429
			24:COM17	20:COM7	16:COM3	28:COM15	16:COM3	28:COM15
			-2.141	-46.655	-0.046	-1.024	-0.149	-90.344
			18:COM5	30:COM17	26:COM13	22:COM9	26:COM13	22:COM9
5545	2450	+ve	8.637	74.426	0.173	2.346	0.383	114.103
			20:COM7	20:COM7	24:COM11	20:COM7	24:COM11	20:COM7
			0.000	-61.481	-0.390	-1.288	-0.567	-101.676
			-	30:COM17	18:COM5	30:COM17	18:COM5	30:COM17
	2455	-ve	8.637	65.040	0.173	2.346	0.080	118.933
			20:COM7	28:COM15	24:COM11	20:COM7	24:COM11	28:COM15
			0.000	-69.329	-0.390	-1.288	-1.005	-121.223
			-	22:COM9	18:COM5	30:COM17	18:COM5	22:COM9
5546	2451	+ve	7.795	71.288	6.493	16.494	0.000	84.139
			28:COM15	28:COM15	16:COM3	16:COM3	-	28:COM15
			-70.733	-98.888	0.000	-6.274	-6.020	-97.200
			22:COM9	22:COM9	-	26:COM13	18:COM5	22:COM9
	2423	-ve	7.795	68.007	6.493	16.494	5.343	80.322
			28:COM15	28:COM15	16:COM3	16:COM3	16:COM3	20:COM7
			-70.733	-103.963	0.000	-6.274	0.000	-37.771
			22:COM9	22:COM9	-	26:COM13	-	30:COM17
5547	2452	+ve	0.000	34.483	0.320	10.746	0.979	42.677
			-	28:COM15	28:COM15	24:COM17	16:COM3	28:COM15
			-39.258	-67.060	-0.948	-12.607	-0.334	-65.114
			22:COM9	22:COM9	22:COM9	18:COM5	26:COM13	22:COM9
	2424	-ve	0.000	31.505	0.320	10.746	0.248	56.332
			-	28:COM15	28:COM15	24:COM17	28:COM15	20:COM7
			-39.258	-71.731	-0.948	-12.607	-0.701	-15.066
			22:COM9	22:COM9	22:COM9	18:COM5	22:COM9	30:COM17

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
5548	2453	+ve	0.000	33.698	0.368	10.586	0.681	41.835
			-	28:COM15	24:COM11	24:COM11	16:COM3	28:COM15
			-41.837	-68.253	-0.605	-11.884	-0.433	-65.787
			22:COM9	22:COM9	18:COM5	18:COM5	26:COM13	22:COM9
	2425	-ve	0.000	30.719	0.368	10.586	0.247	57.743
			-	28:COM15	24:COM11	24:COM11	28:COM15	20:COM7
			-41.837	-72.924	-0.605	-11.884	-0.415	-14.530
			22:COM9	22:COM9	18:COM5	18:COM5	22:COM9	30:COM17
5549	2454	+ve	0.000	30.905	0.682	10.724	0.673	38.769
			-	28:COM15	16:COM3	24:COM11	24:COM11	28:COM15
			-44.819	-66.722	-0.565	-12.059	-0.782	-64.353
			22:COM9	22:COM9	26:COM13	18:COM5	18:COM5	22:COM9
	2426	-ve	0.000	27.927	0.682	10.724	0.425	56.499
			-	28:COM15	16:COM3	24:COM11	16:COM3	20:COM7
			-44.819	-71.393	-0.565	-12.059	-0.328	-12.710
			22:COM9	22:COM9	26:COM13	18:COM5	26:COM13	30:COM17
5550	2455	+ve	12.375	58.088	0.000	15.972	4.766	69.142
			28:COM15	28:COM15	-	16:COM3	16:COM3	28:COM15
			-72.554	-89.863	-4.898	-15.734	0.000	-88.377
			22:COM9	22:COM9	18:COM5	26:COM13	-	22:COM9
	2427	-ve	12.375	54.587	0.000	15.972	0.000	73.593
			28:COM15	28:COM15	-	16:COM3	-	20:COM7
			-72.554	-95.232	-4.898	-15.734	-3.845	-29.460
			22:COM9	22:COM9	18:COM5	26:COM13	18:COM5	30:COM17
5551	2470	+ve	0.000	0.555	0.134	0.293	0.000	0.027
			-	32:CVOL1	32:CVOL1	20:COM7	-	28:COM15
			-5.164	-1.097	0.000	0.000	-0.200	-0.388
			34:CVOL3	35:CVOL4	-	-	32:CVOL1	22:COM9
	2472	-ve	0.000	0.000	0.134	0.293	0.211	9.950
			-	-	32:CVOL1	20:COM7	32:CVOL1	32:CVOL1
			-5.164	-7.157	0.000	0.000	0.000	0.000
			34:CVOL3	32:CVOL1	-	-	-	-
5552	2470	+ve	1.523	1.097	4.404	0.398	0.000	0.257
			32:CVOL1	35:CVOL4	32:CVOL1	20:COM7	-	20:COM7
			0.000	-0.555	0.000	0.000	-0.126	-0.054
			-	32:CVOL1	-	-	32:CVOL1	30:COM17
	2740	-ve	1.523	0.885	4.404	0.398	0.773	0.230
			32:CVOL1	35:CVOL4	32:CVOL1	20:COM7	32:CVOL1	32:CVOL1
			0.000	-0.802	0.000	0.000	0.000	-0.043
			-	32:CVOL1	-	-	-	35:CVOL4
5553	2465	+ve	0.000	13.687	0.000	0.889	0.314	52.151
			-	20:COM7	-	20:COM7	34:CVOL3	20:COM7
			-18.852	0.000	-0.302	-0.073	0.000	0.000
			22:COM9	-	34:CVOL3	30:COM17	-	-
	2699	-ve	0.000	11.629	0.000	0.889	0.000	27.038
			-	20:COM7	-	20:COM7	-	20:COM7
			-18.852	0.000	-0.302	-0.073	-0.291	-0.961
			22:COM9	-	34:CVOL3	30:COM17	22:COM9	30:COM17

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
5554	2464	+ve	0.158	9.188	0.114	1.357	0.000	22.481
			28:COM15	20:COM7	20:COM7	16:COM3	-	20:COM7
			-4.051	0.000	0.000	0.000	-0.127	0.000
			22:COM9	-	-	-	22:COM9	-
	2705	-ve	0.158	7.236	0.114	1.357	0.088	8.057
			28:COM15	20:COM7	20:COM7	16:COM3	20:COM7	34:CVOL3
			-4.051	0.000	0.000	0.000	0.000	0.000
			22:COM9	-	-	-	-	-
5555	2465	+ve	17.350	0.000	0.000	10.633	10.341	0.000
			20:COM7	-	-	20:COM7	34:CVOL3	-
			0.000	-23.333	-6.170	-7.125	0.000	-1.364
			-	22:COM9	34:CVOL3	30:COM17	-	34:CVOL3
	2432	-ve	17.350	0.000	0.000	10.633	0.000	83.493
			20:COM7	-	-	20:COM7	-	20:COM7
			0.000	-32.189	-6.170	-7.125	-8.503	0.000
			-	22:COM9	34:CVOL3	30:COM17	34:CVOL3	-
5556	2464	+ve	5.734	0.000	0.516	4.602	0.223	0.000
			20:COM7	-	20:COM7	28:COM15	28:COM15	-
			0.000	-18.483	-0.149	-6.667	-0.699	-2.447
			-	22:COM9	30:COM17	22:COM9	22:COM9	34:CVOL3
	2428	-ve	5.734	0.000	0.516	4.602	0.877	66.631
			20:COM7	-	20:COM7	28:COM15	20:COM7	20:COM7
			0.000	-26.744	-0.149	-6.667	-0.234	0.000
			-	34:CVOL3	30:COM17	22:COM9	30:COM17	-
5558	2472	+ve	0.000	10.045	0.005	0.102	0.000	11.759
			-	32:CVOL1	16:COM3	16:COM3	-	20:COM7
			-5.715	0.000	-0.001	-0.088	-0.022	0.000
			18:COM5	-	26:COM13	26:COM13	18:COM5	-
	2473	-ve	0.000	0.000	0.005	0.102	0.012	14.043
			-	-	16:COM3	16:COM3	20:COM7	20:COM7
			-5.715	-10.768	-0.001	-0.088	-0.007	0.000
			18:COM5	32:CVOL1	26:COM13	26:COM13	30:COM17	-
5559	2432	+ve	169.312	80.333	0.000	3.790	5.175	358.028
			34:CVOL3	34:CVOL3	-	28:COM15	20:COM7	34:CVOL3
			0.000	0.000	-3.995	-2.174	0.000	0.000
			-	-	22:COM9	22:COM9	-	-
	2656	-ve	169.312	77.508	0.000	3.790	1.228	229.159
			34:CVOL3	34:CVOL3	-	28:COM15	16:COM3	34:CVOL3
			0.000	0.000	-3.995	-2.174	-1.653	0.000
			-	-	22:COM9	22:COM9	26:COM13	-
5560	2473	+ve	0.000	10.414	0.000	0.000	0.377	11.521
			-	32:CVOL1	-	-	32:CVOL1	32:CVOL1
			-2.380	0.000	-0.449	-1.975	0.000	0.000
			34:CVOL3	-	22:COM9	22:COM9	-	-
	2475	-ve	0.000	6.238	0.000	0.000	0.038	1.037
			-	32:CVOL1	-	-	28:COM15	34:CVOL3
			-2.380	0.000	-0.449	-1.975	-0.210	0.000
			34:CVOL3	-	22:COM9	22:COM9	22:COM9	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
5566	2423	+ve	3.934	26.647	1.293	17.351	0.000	54.709
			20:COM7	16:COM3	20:COM7	16:COM3	-	16:COM3
			-0.878	0.000	0.000	-3.469	-2.015	0.000
			30:COM1	-	-	26:COM1	22:COM9	-
	2456	-ve	3.934	19.131	1.293	17.351	1.157	0.000
			20:COM7	16:COM3	20:COM7	16:COM3	20:COM7	-
			-0.878	0.000	0.000	-3.469	0.000	-1.486
			30:COM1	-	-	26:COM1	-	22:COM9
5567	2424	+ve	3.511	20.440	0.032	11.711	0.115	40.267
			20:COM7	35:CVOL4	24:COM1	24:COM1	28:COM1	20:COM7
			-0.669	0.000	-0.057	-14.429	-0.133	0.000
			30:COM1	-	18:COM5	18:COM5	22:COM9	-
	2457	-ve	3.511	13.339	0.032	11.711	0.074	0.000
			20:COM7	20:COM7	24:COM1	24:COM1	28:COM1	-
			-0.669	0.000	-0.057	-14.429	-0.154	-1.100
			30:COM1	-	18:COM5	18:COM5	22:COM9	34:CVOL3
5568	2425	+ve	3.902	21.089	0.023	11.507	0.042	42.166
			20:COM7	35:CVOL4	28:COM1	24:COM1	28:COM1	20:COM7
			-0.279	0.000	-0.029	-12.836	-0.048	0.000
			30:COM1	-	22:COM9	18:COM5	22:COM9	-
	2458	-ve	3.902	14.106	0.023	11.507	0.048	0.000
			20:COM7	20:COM7	28:COM1	24:COM1	28:COM1	-
			-0.279	0.000	-0.029	-12.836	-0.070	-1.089
			30:COM1	-	22:COM9	18:COM5	22:COM9	34:CVOL3
5569	2426	+ve	4.504	21.169	0.087	11.585	0.160	41.924
			20:COM7	35:CVOL4	20:COM7	24:COM1	20:COM7	33:CVOL2
			-1.004	0.000	-0.077	-13.240	-0.150	0.000
			30:COM1	-	30:COM1	18:COM5	30:COM1	-
	2459	-ve	4.504	14.006	0.087	11.585	0.099	0.000
			20:COM7	33:CVOL2	20:COM7	24:COM1	16:COM3	-
			-1.004	0.000	-0.077	-13.240	-0.065	-1.092
			30:COM1	-	30:COM1	18:COM5	26:COM1	34:CVOL3
5570	2427	+ve	11.691	22.154	0.158	17.746	1.876	44.249
			20:COM7	20:COM7	24:COM1	16:COM3	16:COM3	20:COM7
			-6.038	0.000	-1.114	-15.612	-0.406	0.000
			30:COM1	-	18:COM5	26:COM1	26:COM1	-
	2460	-ve	11.691	14.637	0.158	17.746	0.000	0.000
			20:COM7	20:COM7	24:COM1	16:COM3	-	-
			-6.038	0.000	-1.114	-15.612	-0.868	-0.918
			30:COM1	-	18:COM5	26:COM1	18:COM5	35:CVOL4
5571	2414	+ve	49.067	29.269	1.599	24.970	7.362	59.099
			20:COM7	16:COM3	28:COM1	16:COM3	20:COM7	16:COM3
			-43.675	0.000	-2.577	-11.977	-4.667	0.000
			30:COM1	-	22:COM9	26:COM1	30:COM1	-
	2462	-ve	49.067	15.568	1.599	24.970	9.620	0.000
			20:COM7	16:COM3	28:COM1	16:COM3	28:COM1	-
			-43.675	0.000	-2.577	-11.977	-9.858	-8.980
			30:COM1	-	22:COM9	26:COM1	22:COM9	22:COM9

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
5574	2456	+ve	3.054	10.007	0.032	0.000	0.076	40.414
			20:COM7	16:COM3	28:COM15	-	20:COM7	16:COM3
			-2.029	0.000	-0.083	-0.940	-0.025	0.000
			30:COM17	-	22:COM9	18:COM5	30:COM17	-
	2571	-ve	3.054	8.195	0.032	0.000	0.038	22.855
			20:COM7	16:COM3	28:COM15	-	28:COM15	16:COM3
			-2.029	0.000	-0.083	-0.940	-0.087	-6.156
			30:COM17	-	22:COM9	18:COM5	22:COM9	26:COM13
5575	2457	+ve	6.688	7.143	0.003	0.344	0.039	19.343
			20:COM7	16:COM3	24:COM11	24:COM11	20:COM7	16:COM3
			-6.920	0.000	-0.036	-0.988	-0.004	0.000
			30:COM17	-	18:COM5	18:COM5	30:COM17	-
	2576	-ve	6.688	5.331	0.003	0.344	0.003	10.685
			20:COM7	16:COM3	24:COM11	24:COM11	24:COM11	16:COM3
			-6.920	0.000	-0.036	-0.988	-0.032	-4.520
			30:COM17	-	18:COM5	18:COM5	18:COM5	26:COM13
5576	2458	+ve	9.321	7.255	0.002	0.259	0.048	21.067
			28:COM15	20:COM7	24:COM11	24:COM11	20:COM7	16:COM3
			-12.325	0.000	-0.040	-0.993	-0.004	0.000
			22:COM9	-	18:COM5	18:COM5	30:COM17	-
	2581	-ve	9.321	5.443	0.002	0.259	0.004	11.640
			28:COM15	20:COM7	24:COM11	24:COM11	24:COM11	16:COM3
			-12.325	0.000	-0.040	-0.993	-0.035	-4.621
			22:COM9	-	18:COM5	18:COM5	18:COM5	26:COM13
5577	2459	+ve	10.110	7.209	0.012	0.283	0.065	21.720
			28:COM15	20:COM7	28:COM15	24:COM11	20:COM7	16:COM3
			-12.748	0.000	-0.052	-0.997	-0.019	0.000
			22:COM9	-	22:COM9	18:COM5	30:COM17	-
	2586	-ve	10.110	5.397	0.012	0.283	0.008	12.151
			28:COM15	20:COM7	28:COM15	24:COM11	24:COM11	16:COM3
			-12.748	0.000	-0.052	-0.997	-0.040	-4.786
			22:COM9	-	22:COM9	18:COM5	18:COM5	26:COM13
5578	2460	+ve	10.938	7.462	0.015	0.198	0.138	20.309
			28:COM15	20:COM7	28:COM15	24:COM11	20:COM7	16:COM3
			-13.806	0.000	-0.093	-0.851	-0.050	-2.948
			22:COM9	-	22:COM9	18:COM5	30:COM17	26:COM13
	2591	-ve	10.938	5.548	0.015	0.198	0.000	8.542
			28:COM15	20:COM7	28:COM15	24:COM11	-	16:COM3
			-13.806	0.000	-0.093	-0.851	-0.071	-7.941
			22:COM9	-	22:COM9	18:COM5	18:COM5	26:COM13
5579	2473	+ve	20.830	0.000	0.000	3.676	2.867	0.000
			32:CVOL1	-	-	28:COM15	20:COM7	-
			0.000	-21.182	-2.636	-3.671	0.000	-6.402
			-	32:CVOL1	22:COM9	22:COM9	-	22:COM9
	2733	-ve	20.830	0.000	0.000	3.676	0.000	39.776
			32:CVOL1	-	-	28:COM15	-	32:CVOL1
			0.000	-25.917	-2.636	-3.671	-2.287	0.000
			-	32:CVOL1	22:COM9	22:COM9	22:COM9	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
5580	2466	+ve	2.246	9.036	0.117	0.786	0.000	38.222
			20:COM7	32:CVOL1	20:COM7	16:COM3	-	16:COM3
			-1.049	0.000	0.000	0.000	-0.130	0.000
			30:COM1	-	-	-	22:COM9	-
	2662	-ve	2.246	7.198	0.117	0.786	0.102	23.089
			20:COM7	20:COM7	20:COM7	16:COM3	20:COM7	16:COM3
			-1.049	0.000	0.000	0.000	-0.000	-6.820
			30:COM1	-	-	-	30:COM1	26:COM1
5581	2467	+ve	6.437	8.783	0.156	0.924	0.011	28.449
			20:COM7	16:COM3	16:COM3	16:COM3	24:COM1	16:COM3
			-6.043	0.000	-0.011	-0.204	-0.172	0.000
			30:COM1	-	26:COM1	26:COM1	18:COM5	-
	2668	-ve	6.437	7.069	0.156	0.924	0.137	19.102
			20:COM7	16:COM3	16:COM3	16:COM3	16:COM3	16:COM3
			-6.043	0.000	-0.011	-0.204	-0.010	-6.297
			30:COM1	-	26:COM1	26:COM1	26:COM1	26:COM1
5582	2468	+ve	12.688	10.718	0.155	0.288	0.096	21.058
			20:COM7	16:COM3	20:COM7	16:COM3	28:COM1	35:CVOL
			-10.763	0.000	-0.066	0.000	-0.192	0.000
			30:COM1	-	30:COM1	-	22:COM9	-
	2671	-ve	12.688	9.005	0.155	0.288	0.118	12.582
			20:COM7	16:COM3	20:COM7	16:COM3	20:COM7	16:COM3
			-10.763	0.000	-0.066	0.000	-0.038	-1.577
			30:COM1	-	30:COM1	-	30:COM1	26:COM1
5583	2469	+ve	2.814	7.707	0.445	16.259	0.183	0.746
			20:COM7	24:COM1	16:COM3	24:COM1	16:COM3	24:COM1
			-0.522	-23.225	-0.416	-25.386	-0.136	-1.384
			30:COM1	18:COM5	26:COM1	18:COM5	26:COM1	18:COM5
	2433	-ve	2.814	5.362	0.445	16.259	0.498	29.943
			20:COM7	24:COM1	16:COM3	24:COM1	16:COM3	16:COM3
			-0.522	-26.851	-0.416	-25.386	-0.415	-7.442
			30:COM1	18:COM5	26:COM1	18:COM5	26:COM1	26:COM1
5584	2468	+ve	4.881	0.000	0.713	11.203	0.434	0.000
			20:COM7	-	16:COM3	16:COM3	24:COM1	-
			-3.601	-17.176	-0.811	-10.658	-0.449	-0.973
			30:COM1	18:COM5	26:COM1	26:COM1	18:COM5	18:COM5
	2431	-ve	4.881	0.000	0.713	11.203	0.458	23.222
			20:COM7	-	16:COM3	16:COM3	16:COM3	16:COM3
			-3.601	-20.514	-0.811	-10.658	-0.596	0.000
			30:COM1	18:COM5	26:COM1	26:COM1	26:COM1	-
5585	2467	+ve	3.076	0.000	0.626	17.063	0.397	0.000
			20:COM7	-	16:COM3	16:COM3	24:COM1	-
			-0.273	-16.156	-0.403	-14.262	-0.553	-1.238
			30:COM1	33:CVOL2	26:COM1	26:COM1	18:COM5	22:COM9
	2430	-ve	3.076	0.000	0.626	17.063	0.312	21.483
			20:COM7	-	16:COM3	16:COM3	16:COM3	33:CVOL2
			-0.273	-19.712	-0.403	-14.262	-0.190	0.000
			30:COM1	33:CVOL2	26:COM1	26:COM1	26:COM1	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
5586	2466	+ve	2.372	0.000	0.375	7.555	0.706	0.000
			20:COM7	-	28:COM15	16:COM3	20:COM7	-
			-0.295	-17.803	-2.570	-8.982	0.000	-1.062
			30:COM17	18:COM5	22:COM9	26:COM13	-	22:COM9
	2429	-ve	2.372	0.000	0.375	7.555	0.494	23.724
			20:COM7	-	28:COM15	16:COM3	28:COM15	16:COM3
			-0.295	-21.351	-2.570	-8.982	-2.523	0.000
			30:COM17	18:COM5	22:COM9	26:COM13	22:COM9	-
5587	2476	+ve	0.072	2.630	0.000	0.082	0.135	0.220
			28:COM15	34:CVOL3	-	24:COM17	16:COM3	20:COM7
			-0.377	0.000	-0.160	-0.171	0.000	0.000
			22:COM9	-	18:COM5	18:COM5	-	-
	2477	-ve	0.072	0.000	0.000	0.082	0.000	0.137
			28:COM15	-	-	24:COM17	-	24:COM17
			-0.377	-1.465	-0.160	-0.171	-0.079	-0.859
			22:COM9	32:CVOL1	18:COM5	18:COM5	18:COM5	18:COM5
5588	2477	+ve	0.109	6.857	0.003	0.661	0.015	1.125
			28:COM15	32:CVOL1	28:COM15	20:COM7	20:COM7	28:COM15
			-2.649	0.000	-0.005	0.000	-0.001	-1.390
			22:COM9	-	22:COM9	-	30:COM17	22:COM9
	2480	-ve	0.109	0.000	0.003	0.661	0.017	17.592
			28:COM15	-	28:COM15	20:COM7	28:COM15	32:CVOL1
			-2.649	-12.046	-0.005	0.000	-0.019	0.000
			22:COM9	32:CVOL1	22:COM9	-	22:COM9	-
5589	2433	+ve	9.041	86.692	2.223	4.010	0.996	158.794
			28:COM15	16:COM3	16:COM3	16:COM3	24:COM11	16:COM3
			-11.642	-61.232	-1.430	0.000	-1.848	-104.729
			22:COM9	26:COM13	26:COM13	-	18:COM5	26:COM13
	2673	-ve	9.041	84.751	2.223	4.010	1.952	14.599
			28:COM15	16:COM3	16:COM3	16:COM3	16:COM3	16:COM3
			-11.642	-62.688	-1.430	0.000	-1.468	-0.542
			22:COM9	26:COM13	26:COM13	-	26:COM13	26:COM13
5592	6166	+ve	45.222	5.530	0.011	0.409	0.068	21.460
			20:COM7	20:COM7	28:COM15	20:COM7	20:COM7	20:COM7
			-44.349	-1.090	-0.014	-0.062	-0.050	-10.001
			30:COM17	30:COM17	22:COM9	30:COM17	30:COM17	30:COM17
	2462	-ve	45.222	0.624	0.011	0.409	0.111	12.586
			20:COM7	28:COM15	28:COM15	20:COM7	20:COM7	20:COM7
			-44.349	-6.262	-0.014	-0.062	-0.105	0.000
			30:COM17	22:COM9	22:COM9	30:COM17	30:COM17	-
5594	2469	+ve	6.830	14.706	0.101	0.616	0.053	32.041
			28:COM15	16:COM3	16:COM3	16:COM3	28:COM15	16:COM3
			-10.335	-10.657	-0.046	-0.040	-0.107	-14.201
			22:COM9	26:COM13	26:COM13	26:COM13	22:COM9	26:COM13
	2730	-ve	6.830	13.243	0.101	0.616	0.075	9.016
			28:COM15	16:COM3	16:COM3	16:COM3	16:COM3	34:CVOL3
			-10.335	-11.754	-0.046	-0.040	-0.036	0.000
			22:COM9	26:COM13	26:COM13	26:COM13	26:COM13	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
5595	2480	+ve	3.128	13.280	0.030	1.035	0.007	12.116
			28:COM15	20:COM7	16:COM3	20:COM7	28:COM15	16:COM3
			-10.170	-4.523	0.000	0.000	-0.064	0.000
			22:COM9	30:COM17	-	-	22:COM9	-
	6159	-ve	3.128	6.754	0.030	1.035	0.044	30.740
			28:COM15	28:COM15	16:COM3	20:COM7	20:COM7	20:COM7
			-10.170	-9.918	0.000	0.000	-0.002	-22.968
			22:COM9	22:COM9	-	-	30:COM17	30:COM17
5596	2419	+ve	45.902	127.550	1.773	4.584	3.226	224.235
			16:COM3	16:COM3	28:COM15	28:COM15	20:COM7	16:COM3
			-28.786	-97.974	-3.126	-8.010	-1.706	-180.067
			26:COM13	26:COM13	22:COM9	22:COM9	30:COM17	26:COM13
	2548	-ve	45.902	125.222	1.773	4.584	1.299	12.480
			16:COM3	16:COM3	28:COM15	28:COM15	28:COM15	24:COM11
			-28.786	-99.720	-3.126	-8.010	-2.056	-14.632
			26:COM13	26:COM13	22:COM9	22:COM9	22:COM9	18:COM5
5600	2482	+ve	0.000	13.094	0.006	0.398	0.064	35.918
			-	34:CVOL3	28:COM15	24:COM11	20:COM7	16:COM3
			-1.262	0.000	-0.085	-0.339	-0.012	-0.629
			18:COM5	-	22:COM9	18:COM5	30:COM17	26:COM13
	2683	-ve	0.000	11.275	0.006	0.398	0.001	14.639
			-	34:CVOL3	28:COM15	24:COM11	28:COM15	16:COM3
			-1.262	0.000	-0.085	-0.339	-0.102	-9.803
			18:COM5	-	22:COM9	18:COM5	22:COM9	26:COM13
5601	2485	+ve	0.634	0.000	1.035	20.799	0.391	0.000
			28:COM15	-	20:COM7	16:COM3	24:COM11	-
			-0.531	-8.293	-0.504	-19.971	-0.484	-0.708
			22:COM9	22:COM9	30:COM17	26:COM13	18:COM5	22:COM9
	2409	-ve	0.634	0.000	1.035	20.799	0.668	6.789
			28:COM15	-	20:COM7	16:COM3	20:COM7	20:COM7
			-0.531	-10.468	-0.504	-19.971	-0.364	0.000
			22:COM9	22:COM9	30:COM17	26:COM13	30:COM17	-
5602	2486	+ve	0.529	0.000	0.418	21.149	0.408	0.000
			28:COM15	-	16:COM3	16:COM3	24:COM11	-
			-0.790	-6.125	-0.245	-18.196	-0.463	-0.659
			22:COM9	22:COM9	26:COM13	26:COM13	18:COM5	22:COM9
	2410	-ve	0.529	0.000	0.418	21.149	0.457	4.978
			28:COM15	-	16:COM3	16:COM3	16:COM3	20:COM7
			-0.790	-8.300	-0.245	-18.196	-0.381	0.000
			22:COM9	22:COM9	26:COM13	26:COM13	26:COM13	-
5603	2487	+ve	0.700	0.000	0.355	23.765	0.386	0.000
			24:COM11	-	24:COM11	16:COM3	24:COM11	-
			-0.460	-8.889	-0.344	-18.180	-0.434	-0.704
			18:COM5	22:COM9	18:COM5	26:COM13	18:COM5	22:COM9
	2411	-ve	0.700	0.000	0.355	23.765	0.316	7.213
			24:COM11	-	24:COM11	16:COM3	24:COM11	20:COM7
			-0.460	-11.064	-0.344	-18.180	-0.356	0.000
			18:COM5	22:COM9	18:COM5	26:COM13	18:COM5	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
5604	2485	+ve	3.567	3.762	0.028	0.363	0.000	18.573
			20:COM7	20:COM7	20:COM7	16:COM3	-	16:COM3
			-3.506	0.000	0.000	0.000	-0.029	-3.614
			30:COM1	-	-	-	22:COM9	26:COM1
	2749	-ve	3.567	3.088	0.028	0.363	0.025	14.410
			20:COM7	20:COM7	20:COM7	16:COM3	20:COM7	16:COM3
			-3.506	0.000	0.000	0.000	0.000	-7.982
			30:COM1	-	-	-	-	26:COM1
5605	2486	+ve	6.035	3.159	0.028	0.356	0.004	17.703
			20:COM7	16:COM3	16:COM3	20:COM7	28:COM1	16:COM3
			-4.582	0.000	-0.002	0.000	-0.029	-4.336
			30:COM1	-	26:COM1	-	22:COM9	26:COM1
	2599	-ve	6.035	2.484	0.028	0.356	0.026	13.994
			20:COM7	16:COM3	16:COM3	20:COM7	16:COM3	16:COM3
			-4.582	0.000	-0.002	0.000	-0.000	-8.209
			30:COM1	-	26:COM1	-	26:COM1	26:COM1
5606	2396	+ve	6.902	29.088	0.685	26.775	1.112	58.609
			20:COM7	34:CVOL3	28:COM1	28:COM1	20:COM7	34:CVOL3
			-1.167	0.000	-0.716	-28.789	-1.175	0.000
			30:COM1	-	22:COM9	22:COM9	30:COM1	-
	2481	-ve	6.902	21.849	0.685	26.775	0.440	0.000
			20:COM7	34:CVOL3	28:COM1	28:COM1	28:COM1	-
			-1.167	0.000	-0.716	-28.789	-0.576	-1.410
			30:COM1	-	22:COM9	22:COM9	22:COM9	22:COM9
5607	2400	+ve	8.501	40.961	0.185	13.749	0.156	85.471
			20:COM7	34:CVOL3	20:COM7	24:COM1	28:COM1	34:CVOL3
			0.000	0.000	-0.114	-24.789	-0.243	0.000
			-	-	30:COM1	18:COM5	22:COM9	-
	2483	-ve	8.501	33.733	0.185	13.749	0.191	0.000
			20:COM7	34:CVOL3	20:COM7	24:COM1	20:COM7	-
			0.000	0.000	-0.114	-24.789	-0.113	-2.251
			-	-	30:COM1	18:COM5	30:COM1	34:CVOL3
5609	2483	+ve	7.228	17.729	0.000	0.055	0.112	51.563
			20:COM7	34:CVOL3	-	24:COM1	20:COM7	34:CVOL3
			-6.789	0.000	-0.112	-1.115	0.000	0.000
			30:COM1	-	22:COM9	18:COM5	-	-
	2686	-ve	7.228	15.883	0.000	0.055	0.000	24.177
			20:COM7	34:CVOL3	-	24:COM1	-	16:COM3
			-6.789	0.000	-0.112	-1.115	-0.109	0.000
			30:COM1	-	22:COM9	18:COM5	22:COM9	-
5610	2489	+ve	26.694	124.159	0.000	11.364	3.882	59.384
			20:COM7	28:COM1	-	20:COM7	16:COM3	28:COM1
			-21.750	-132.122	-3.142	-0.107	0.000	-88.709
			30:COM1	22:COM9	22:COM9	30:COM1	-	22:COM9
	2408	-ve	26.694	115.326	0.000	11.364	0.547	366.142
			20:COM7	28:COM1	-	20:COM7	28:COM1	20:COM7
			-21.750	-145.211	-3.142	-0.107	-7.264	-333.395
			30:COM1	22:COM9	22:COM9	30:COM1	22:COM9	30:COM1

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
5611	2489	+ve	1.757	12.999	0.107	2.146	0.016	25.084
			28:COM15	20:COM7	20:COM7	20:COM7	28:COM15	20:COM7
			-6.336	-0.116	-0.001	-1.829	-0.073	0.000
			22:COM9	30:COM17	30:COM17	30:COM17	22:COM9	-
	2689	-ve	1.757	12.168	0.107	2.146	0.133	19.624
			28:COM15	20:COM7	20:COM7	20:COM7	16:COM3	20:COM7
			-6.336	-0.739	-0.001	-1.829	-0.001	-10.205
			22:COM9	30:COM17	30:COM17	30:COM17	26:COM13	30:COM17
5612	2493	+ve	11.161	42.924	0.319	1.985	3.488	85.968
			20:COM7	16:COM3	28:COM15	32:CVOL1	20:COM7	16:COM3
			-1.013	0.000	-2.721	-1.205	-0.385	-31.243
			30:COM17	-	22:COM9	33:CVOL2	30:COM17	26:COM13
	2494	-ve	11.161	40.201	0.319	1.985	0.245	14.294
			20:COM7	16:COM3	28:COM15	32:CVOL1	28:COM15	24:COM11
			-1.013	0.000	-2.721	-1.205	-1.867	-59.220
			30:COM17	-	22:COM9	33:CVOL2	22:COM9	18:COM5
5613	2481	+ve	1.818	10.621	0.011	0.000	0.078	29.312
			24:COM11	34:CVOL3	28:COM15	-	16:COM3	16:COM3
			-2.677	0.000	-0.080	-1.145	-0.001	0.000
			18:COM5	-	22:COM9	22:COM9	26:COM13	-
	2695	-ve	1.818	9.440	0.011	0.000	0.022	10.747
			24:COM11	16:COM3	28:COM15	-	28:COM15	16:COM3
			-2.677	0.000	-0.080	-1.145	-0.075	-2.338
			18:COM5	-	22:COM9	22:COM9	22:COM9	26:COM13
5615	2491	+ve	10.917	2.380	6.398	8.766	1.535	2.736
			20:COM7	28:COM15	20:COM7	20:COM7	28:COM15	28:COM15
			-9.570	-5.196	-4.890	-3.414	-1.868	-23.423
			30:COM17	22:COM9	30:COM17	30:COM17	22:COM9	22:COM9
	2698	-ve	10.917	2.176	6.398	8.766	1.911	1.582
			20:COM7	28:COM15	20:COM7	20:COM7	20:COM7	28:COM15
			-9.570	-5.468	-4.890	-3.414	-1.353	-20.466
			30:COM17	22:COM9	30:COM17	30:COM17	30:COM17	22:COM9
5616	2492	+ve	5.374	3.483	0.179	3.233	0.248	17.120
			20:COM7	28:COM15	24:COM11	20:COM7	16:COM3	16:COM3
			-5.112	-29.546	-0.349	-1.093	-0.115	-5.539
			30:COM17	22:COM9	18:COM5	30:COM17	26:COM13	26:COM13
	2757	-ve	5.374	3.002	0.179	3.233	0.135	44.968
			20:COM7	28:COM15	24:COM11	20:COM7	24:COM11	16:COM3
			-5.112	-30.187	-0.349	-1.093	-0.238	0.000
			30:COM17	22:COM9	18:COM5	30:COM17	18:COM5	-
5617	2494	+ve	11.528	26.866	0.059	0.689	0.443	14.470
			20:COM7	16:COM3	28:COM15	24:COM11	20:COM7	24:COM11
			-2.171	0.000	-0.459	-1.687	0.000	-59.110
			30:COM17	-	22:COM9	18:COM5	-	18:COM5
	2495	-ve	11.528	24.143	0.059	0.689	0.124	0.000
			20:COM7	16:COM3	28:COM15	24:COM11	28:COM15	-
			-2.171	-1.179	-0.459	-1.687	-0.465	-70.255
			30:COM17	26:COM13	22:COM9	18:COM5	22:COM9	18:COM5

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
5618	2495	+ve	12.299	11.991	0.112	0.804	0.147	0.000
			20:COM7	16:COM3	28:COM15	24:COM17	16:COM3	-
			-3.189	-8.428	-0.218	-2.157	-0.062	-70.227
			30:COM17	26:COM13	22:COM9	18:COM5	26:COM13	18:COM5
	2496	-ve	12.299	9.275	0.112	0.804	0.183	0.000
			20:COM7	24:COM11	28:COM15	24:COM17	28:COM15	-
			-3.189	-10.477	-0.218	-2.157	-0.306	-67.082
			30:COM17	18:COM5	22:COM9	18:COM5	22:COM9	34:CVOL3
5619	2496	+ve	13.494	2.617	0.232	0.789	0.034	0.000
			20:COM7	24:COM11	20:COM7	24:COM17	24:COM11	-
			-4.124	-22.881	-0.082	-1.442	-0.159	-67.113
			30:COM17	18:COM5	30:COM17	18:COM5	18:COM5	34:CVOL3
	2497	-ve	13.494	0.575	0.232	0.789	0.333	7.349
			20:COM7	24:COM11	20:COM7	24:COM17	20:COM7	24:COM17
			-4.124	-25.604	-0.082	-1.442	-0.162	-59.463
			30:COM17	18:COM5	30:COM17	18:COM5	30:COM17	18:COM5
5620	2497	+ve	15.139	0.000	0.951	1.633	0.000	7.190
			20:COM7	-	20:COM7	35:CVOL4	-	24:COM17
			-4.900	-38.925	0.000	-1.352	-0.733	-59.582
			30:COM17	18:COM5	-	32:CVOL1	22:COM9	18:COM5
	2498	-ve	15.139	0.000	0.951	1.633	1.159	74.288
			20:COM7	-	20:COM7	35:CVOL4	20:COM7	16:COM3
			-4.900	-41.647	0.000	-1.352	0.000	-33.855
			30:COM17	18:COM5	-	32:CVOL1	-	26:COM13
5621	2498	+ve	18.798	0.000	0.662	3.196	0.060	74.139
			16:COM3	-	16:COM3	16:COM3	28:COM15	16:COM3
			-0.057	-55.676	-0.176	-3.262	-0.922	-34.080
			26:COM13	18:COM5	26:COM13	26:COM13	22:COM9	26:COM13
	2417	-ve	18.798	0.000	0.662	3.196	0.549	186.275
			16:COM3	-	16:COM3	16:COM3	16:COM3	16:COM3
			-0.057	-58.399	-0.176	-3.262	-0.454	-3.239
			26:COM13	18:COM5	26:COM13	26:COM13	26:COM13	26:COM13
5622	2499	+ve	15.266	49.047	0.019	8.629	1.216	93.362
			20:COM7	16:COM3	28:COM15	34:CVOL3	20:COM7	16:COM3
			-4.023	0.000	-1.060	0.000	0.000	-27.467
			30:COM17	-	22:COM9	-	-	26:COM13
	2500	-ve	15.266	46.317	0.019	8.629	0.122	11.515
			20:COM7	16:COM3	28:COM15	34:CVOL3	28:COM15	24:COM17
			-4.023	0.000	-1.060	0.000	-0.884	-62.599
			30:COM17	-	22:COM9	-	22:COM9	18:COM5
5623	2500	+ve	15.187	31.526	0.043	8.028	0.285	11.585
			16:COM3	16:COM3	24:COM11	34:CVOL3	20:COM7	24:COM17
			-4.712	0.000	-0.202	0.000	-0.124	-62.643
			26:COM13	-	18:COM5	-	30:COM17	18:COM5
	2501	-ve	15.187	28.796	0.043	8.028	0.135	0.000
			16:COM3	16:COM3	24:COM11	34:CVOL3	28:COM15	-
			-4.712	0.000	-0.202	0.000	-0.288	-82.486
			26:COM13	-	18:COM5	-	22:COM9	18:COM5

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
5624	2501	+ve	15.969	14.176	0.155	6.385	0.125	0.000
			16:COM3	16:COM3	16:COM3	16:COM3	28:COM15	-
			-5.492	-6.340	-0.112	0.000	-0.197	-82.752
			26:COM13	26:COM13	26:COM13	-	22:COM9	18:COM5
	2502	-ve	15.969	11.445	0.155	6.385	0.274	0.000
			16:COM3	16:COM3	16:COM3	16:COM3	20:COM7	-
			-5.492	-8.388	-0.112	0.000	-0.262	-89.054
			26:COM13	26:COM13	26:COM13	-	30:COM17	34:CVOL3
5625	2502	+ve	16.866	1.680	0.376	2.406	0.166	0.000
			20:COM7	24:COM11	16:COM3	20:COM7	24:COM11	-
			-5.743	-22.542	-0.211	-1.628	-0.326	-89.369
			30:COM17	18:COM5	26:COM13	30:COM17	18:COM5	34:CVOL3
	2503	-ve	16.866	0.000	0.376	2.406	0.479	0.000
			20:COM7	-	16:COM3	20:COM7	16:COM3	-
			-5.743	-25.272	-0.211	-1.628	-0.315	-75.669
			30:COM17	18:COM5	26:COM13	30:COM17	26:COM13	18:COM5
5626	2503	+ve	19.680	0.000	1.362	0.000	0.507	0.000
			16:COM3	-	20:COM7	-	28:COM15	-
			-6.620	-52.366	-0.521	-13.021	-1.170	-76.966
			26:COM13	18:COM5	30:COM17	34:CVOL3	22:COM9	18:COM5
	2504	-ve	19.680	0.000	1.362	0.000	1.521	76.325
			16:COM3	-	20:COM7	-	20:COM7	16:COM3
			-6.620	-55.096	-0.521	-13.021	-0.526	-26.154
			26:COM13	18:COM5	30:COM17	34:CVOL3	30:COM17	26:COM13
5627	2504	+ve	25.463	0.000	1.313	0.000	0.627	76.444
			16:COM3	-	20:COM7	-	28:COM15	16:COM3
			-6.497	-73.700	-0.363	-20.749	-1.663	-26.074
			26:COM13	18:COM5	30:COM17	34:CVOL3	22:COM9	26:COM13
	2418	-ve	25.463	0.000	1.313	0.000	1.166	224.512
			16:COM3	-	20:COM7	-	20:COM7	16:COM3
			-6.497	-76.430	-0.363	-20.749	-0.329	0.000
			26:COM13	18:COM5	30:COM17	34:CVOL3	30:COM17	-
5628	2505	+ve	13.976	26.385	0.516	9.237	0.437	54.198
			20:COM7	16:COM3	20:COM7	20:COM7	28:COM15	16:COM3
			-11.333	-1.396	-0.355	0.000	-0.582	-35.622
			30:COM17	26:COM13	30:COM17	-	22:COM9	26:COM13
	2506	-ve	13.976	23.687	0.516	9.237	0.460	11.263
			20:COM7	16:COM3	20:COM7	20:COM7	20:COM7	24:COM11
			-11.333	-3.420	-0.355	0.000	-0.292	-36.813
			30:COM17	26:COM13	30:COM17	-	30:COM17	18:COM5
5629	2506	+ve	15.223	17.490	0.038	3.753	0.204	11.349
			20:COM7	16:COM3	24:COM11	16:COM3	20:COM7	24:COM11
			-11.583	-6.485	-0.128	0.000	-0.132	-36.762
			30:COM17	26:COM13	18:COM5	-	30:COM17	18:COM5
	2507	-ve	15.223	14.791	0.038	3.753	0.152	0.000
			20:COM7	16:COM3	24:COM11	16:COM3	28:COM15	-
			-11.583	-8.509	-0.128	0.000	-0.256	-28.587
			30:COM17	26:COM13	18:COM5	-	22:COM9	35:CVOL4

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
5630	2507	+ve	16.569	9.987	0.097	0.000	0.183	0.000
			20:COM7	24:COM11	16:COM3	-	28:COM15	-
			-12.083	-12.411	-0.057	-3.928	-0.233	-28.583
			30:COM17	18:COM5	26:COM13	18:COM5	22:COM9	35:CVOL4
	2508	-ve	16.569	7.963	0.097	0.000	0.182	8.481
			20:COM7	24:COM11	16:COM3	-	20:COM7	24:COM11
			-12.083	-15.109	-0.057	-3.928	-0.155	-41.411
			30:COM17	18:COM5	26:COM13	18:COM5	30:COM17	18:COM5
5631	2508	+ve	17.927	4.946	0.206	0.000	0.419	8.397
			20:COM7	24:COM11	28:COM15	-	20:COM7	24:COM11
			-12.820	-21.299	-0.388	-9.485	-0.201	-41.452
			30:COM17	18:COM5	22:COM9	22:COM9	30:COM17	18:COM5
	2509	-ve	17.927	2.922	0.206	0.000	0.267	44.851
			20:COM7	24:COM11	28:COM15	-	28:COM15	16:COM3
			-12.820	-23.998	-0.388	-9.485	-0.404	-41.414
			30:COM17	18:COM5	22:COM9	22:COM9	22:COM9	26:COM13
5632	2509	+ve	18.098	1.181	0.110	0.000	1.029	44.621
			20:COM7	24:COM11	28:COM15	-	20:COM7	16:COM3
			-12.027	-34.733	-1.185	-14.468	0.000	-41.473
			30:COM17	18:COM5	22:COM9	22:COM9	-	26:COM13
	2410	-ve	18.098	0.000	0.110	0.000	0.490	114.937
			20:COM7	-	28:COM15	-	28:COM15	16:COM3
			-12.027	-37.432	-1.185	-14.468	-1.378	-41.757
			30:COM17	18:COM5	22:COM9	22:COM9	22:COM9	26:COM13
5633	2510	+ve	15.201	31.119	4.286	24.815	2.497	59.948
			28:COM15	16:COM3	20:COM7	20:COM7	28:COM15	16:COM3
			-22.700	-3.729	-2.116	-4.893	-5.213	-46.091
			22:COM9	26:COM13	30:COM17	30:COM17	22:COM9	26:COM13
	2511	-ve	15.201	28.420	4.286	24.815	3.149	9.967
			28:COM15	16:COM3	20:COM7	20:COM7	20:COM7	24:COM11
			-22.700	-5.753	-2.116	-4.893	-1.634	-44.914
			22:COM9	26:COM13	30:COM17	30:COM17	30:COM17	18:COM5
5634	2511	+ve	11.749	17.345	0.433	18.651	0.000	10.096
			24:COM11	16:COM3	20:COM7	20:COM7	-	24:COM11
			-15.269	-8.645	-0.063	-6.213	-0.402	-44.618
			18:COM5	26:COM13	30:COM17	30:COM17	18:COM5	18:COM5
	2512	-ve	11.749	14.646	0.433	18.651	0.549	0.000
			24:COM11	16:COM3	20:COM7	20:COM7	20:COM7	-
			-15.269	-10.669	-0.063	-6.213	-0.269	-32.151
			18:COM5	26:COM13	30:COM17	30:COM17	30:COM17	34:CVOL3
5635	2512	+ve	10.756	9.617	0.271	10.616	0.193	0.000
			24:COM11	24:COM11	20:COM7	20:COM7	28:COM15	-
			-11.833	-14.697	-0.111	-7.876	-0.433	-32.032
			18:COM5	18:COM5	30:COM17	30:COM17	22:COM9	34:CVOL3
	2513	-ve	10.756	7.593	0.271	10.616	0.169	10.573
			24:COM11	24:COM11	20:COM7	20:COM7	16:COM3	24:COM11
			-11.833	-17.396	-0.111	-7.876	-0.098	-42.787
			18:COM5	18:COM5	30:COM17	30:COM17	26:COM13	18:COM5

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
5636	2513	+ve	10.456	4.614	0.205	5.937	0.314	10.561
			16:COM3	24:COM11	20:COM7	28:COM15	28:COM15	24:COM11
			-10.085	-23.500	-0.285	-12.272	-0.217	-42.822
			26:COM13	18:COM5	30:COM17	22:COM9	22:COM9	18:COM5
	2514	-ve	10.456	2.590	0.205	5.937	0.285	51.333
			16:COM3	24:COM11	20:COM7	28:COM15	20:COM7	16:COM3
			-10.085	-26.199	-0.285	-12.272	-0.345	-42.161
			26:COM13	18:COM5	30:COM17	22:COM9	30:COM17	26:COM13
5637	2514	+ve	11.108	0.995	0.493	3.317	1.059	51.180
			20:COM7	24:COM11	28:COM15	28:COM15	20:COM7	16:COM3
			-8.892	-36.734	-1.341	-16.928	-0.121	-42.232
			30:COM17	18:COM5	22:COM9	22:COM9	30:COM17	26:COM13
	2409	-ve	11.108	0.000	0.493	3.317	0.846	125.217
			20:COM7	-	28:COM15	28:COM15	28:COM15	16:COM3
			-8.892	-39.432	-1.341	-16.928	-1.562	-41.975
			30:COM17	18:COM5	22:COM9	22:COM9	22:COM9	26:COM13
5638	2515	+ve	20.271	25.929	0.428	9.535	0.271	52.572
			20:COM7	16:COM3	20:COM7	20:COM7	28:COM15	16:COM3
			-14.345	-1.550	-0.236	0.000	-0.410	-36.381
			30:COM17	26:COM13	30:COM17	-	22:COM9	26:COM13
	2516	-ve	20.271	23.231	0.428	9.535	0.488	10.796
			20:COM7	16:COM3	20:COM7	20:COM7	20:COM7	24:COM11
			-14.345	-3.574	-0.236	0.000	-0.251	-37.541
			30:COM17	26:COM13	30:COM17	-	30:COM17	18:COM5
5639	2516	+ve	20.277	17.000	0.041	3.956	0.274	10.883
			20:COM7	16:COM3	24:COM11	16:COM3	20:COM7	24:COM11
			-14.327	-6.659	-0.118	0.000	-0.190	-37.489
			30:COM17	26:COM13	18:COM5	-	30:COM17	18:COM5
	2517	-ve	20.277	14.302	0.041	3.956	0.177	0.000
			20:COM7	16:COM3	24:COM11	16:COM3	28:COM15	-
			-14.327	-8.683	-0.118	0.000	-0.244	-28.497
			30:COM17	26:COM13	18:COM5	-	22:COM9	35:CVOL4
5640	2517	+ve	20.219	9.637	0.112	0.000	0.248	0.000
			20:COM7	24:COM11	16:COM3	-	28:COM15	-
			-14.463	-12.732	-0.070	-3.803	-0.283	-28.495
			30:COM17	18:COM5	26:COM13	18:COM5	22:COM9	35:CVOL4
	2518	-ve	20.219	7.613	0.112	0.000	0.179	8.681
			20:COM7	24:COM11	16:COM3	-	20:COM7	24:COM11
			-14.463	-15.431	-0.070	-3.803	-0.133	-40.206
			30:COM17	18:COM5	26:COM13	18:COM5	30:COM17	18:COM5
5641	2518	+ve	20.027	4.611	0.433	0.000	0.597	8.598
			20:COM7	24:COM11	28:COM15	-	20:COM7	24:COM11
			-14.752	-21.594	-0.646	-9.099	-0.348	-40.248
			30:COM17	18:COM5	22:COM9	22:COM9	30:COM17	18:COM5
	2519	-ve	20.027	2.587	0.433	0.000	0.528	45.977
			20:COM7	24:COM11	28:COM15	-	28:COM15	16:COM3
			-14.752	-24.293	-0.646	-9.099	-0.694	-39.905
			30:COM17	18:COM5	22:COM9	22:COM9	22:COM9	26:COM13

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
5642	2519	+ve	18.757	1.055	0.000	0.000	1.503	45.748
			20:COM7	24:COM11	-	-	20:COM7	16:COM3
			-13.144	-34.928	-1.462	-14.039	0.000	-39.964
			30:COM1	18:COM5	22:COM9	18:COM5	-	26:COM1
	2411	-ve	18.757	0.000	0.000	0.000	0.081	116.413
			20:COM7	-	-	-	28:COM1	16:COM3
			-13.144	-37.627	-1.462	-14.039	-1.554	-39.972
			30:COM1	18:COM5	22:COM9	18:COM5	22:COM9	26:COM1
5643	2520	+ve	18.344	28.897	0.374	12.409	0.221	60.293
			20:COM7	16:COM3	20:COM7	20:COM7	28:COM1	16:COM3
			-14.319	-0.445	-0.193	-5.606	-0.350	-36.891
			30:COM1	26:COM1	30:COM1	30:COM1	22:COM9	26:COM1
	2521	-ve	18.344	26.198	0.374	12.409	0.485	12.937
			20:COM7	16:COM3	20:COM7	20:COM7	20:COM7	24:COM1
			-14.319	-2.469	-0.193	-5.606	-0.260	-40.412
			30:COM1	26:COM1	30:COM1	30:COM1	30:COM1	18:COM5
5644	2521	+ve	16.773	20.129	0.032	7.927	0.275	12.957
			20:COM7	16:COM3	24:COM1	28:COM1	20:COM7	24:COM1
			-13.357	-5.531	-0.190	-10.181	-0.147	-40.373
			30:COM1	26:COM1	18:COM5	22:COM9	30:COM1	18:COM5
	2522	-ve	16.773	17.431	0.032	7.927	0.181	0.000
			20:COM7	16:COM3	24:COM1	28:COM1	28:COM1	-
			-13.357	-7.555	-0.190	-10.181	-0.360	-35.466
			30:COM1	26:COM1	18:COM5	22:COM9	22:COM9	34:CVOL3
5645	2522	+ve	14.991	12.319	0.131	6.215	0.591	0.000
			16:COM3	16:COM3	28:COM1	28:COM1	20:COM7	-
			-12.762	-11.370	-0.359	-18.236	-0.365	-35.587
			26:COM1	26:COM1	22:COM9	22:COM9	30:COM1	34:CVOL3
	2523	-ve	14.991	10.132	0.131	6.215	0.121	2.984
			16:COM3	24:COM1	28:COM1	28:COM1	24:COM1	24:COM1
			-12.762	-13.906	-0.359	-18.236	-0.339	-51.661
			26:COM1	18:COM5	22:COM9	22:COM9	18:COM5	18:COM5
5646	2523	+ve	14.321	6.133	1.132	5.109	1.676	2.958
			16:COM3	24:COM1	28:COM1	28:COM1	20:COM7	24:COM1
			-13.082	-24.218	-2.169	-24.114	-0.889	-52.069
			26:COM1	18:COM5	22:COM9	22:COM9	30:COM1	18:COM5
	2524	-ve	14.321	4.109	1.132	5.109	1.340	43.276
			16:COM3	24:COM1	28:COM1	28:COM1	28:COM1	24:COM1
			-13.082	-26.916	-2.169	-24.114	-2.576	-52.516
			26:COM1	18:COM5	22:COM9	22:COM9	22:COM9	18:COM5
5647	2524	+ve	12.693	0.000	0.126	26.759	3.109	45.663
			16:COM3	-	24:COM1	20:COM7	20:COM7	24:COM1
			-12.718	-41.076	-2.904	-19.336	-0.181	-46.877
			26:COM1	18:COM5	18:COM5	30:COM1	30:COM1	18:COM5
	2412	-ve	12.693	0.000	0.126	26.759	0.351	124.121
			16:COM3	-	24:COM1	20:COM7	24:COM1	16:COM3
			-12.718	-43.775	-2.904	-19.336	-2.839	-26.719
			26:COM1	18:COM5	18:COM5	30:COM1	18:COM5	26:COM1

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
5648	2525	+ve	63.562	27.422	4.008	4.729	0.019	30.732
			28:COM15	20:COM7	20:COM7	20:COM7	28:COM15	20:COM7
			-88.876	-12.007	-1.514	-2.145	-4.111	-19.594
			22:COM9	30:COM17	30:COM17	30:COM17	22:COM9	30:COM17
	2421	-ve	63.562	24.122	4.008	4.729	3.542	5.733
			28:COM15	20:COM7	20:COM7	20:COM7	20:COM7	28:COM15
			-88.876	-14.481	-1.514	-2.145	-2.880	-18.487
			22:COM9	30:COM17	30:COM17	30:COM17	30:COM17	22:COM9
5650	2527	+ve	176.177	214.637	2.405	5.457	2.513	113.043
			20:COM7	28:COM15	16:COM3	16:COM3	16:COM3	20:COM7
			-139.511	-274.754	-2.747	-2.310	-1.745	-83.970
			30:COM17	22:COM9	26:COM13	26:COM13	26:COM13	30:COM17
	5729	-ve	176.177	213.690	2.405	5.457	0.899	314.070
			20:COM7	28:COM15	16:COM3	16:COM3	20:COM7	20:COM7
			-139.511	-276.017	-2.747	-2.310	-0.382	-240.306
			30:COM17	22:COM9	26:COM13	26:COM13	30:COM17	30:COM17
5651	2528	+ve	107.980	77.022	4.511	4.382	0.477	135.576
			20:COM7	28:COM15	20:COM7	28:COM15	28:COM15	28:COM15
			-88.005	-103.072	-0.778	-13.062	-4.452	-163.407
			30:COM17	22:COM9	30:COM17	22:COM9	22:COM9	22:COM9
	2416	-ve	107.980	74.436	4.511	4.382	4.555	337.794
			20:COM7	28:COM15	20:COM7	28:COM15	20:COM7	20:COM7
			-88.005	-106.519	-0.778	-13.062	-1.091	-307.703
			30:COM17	22:COM9	30:COM17	22:COM9	30:COM17	30:COM17
5652	2529	+ve	34.301	86.770	3.495	1.088	1.115	5.828
			20:COM7	28:COM15	16:COM3	24:COM17	24:COM11	28:COM15
			-20.535	-87.816	-0.642	-5.627	-3.683	-41.208
			30:COM17	22:COM9	26:COM13	18:COM5	18:COM5	22:COM9
	2528	-ve	34.301	84.185	3.495	1.088	3.332	143.718
			20:COM7	28:COM15	16:COM3	24:COM17	16:COM3	28:COM15
			-20.535	-91.263	-0.642	-5.627	-0.214	-171.003
			30:COM17	22:COM9	26:COM13	18:COM5	26:COM13	22:COM9
5663	2540	+ve	54.906	80.903	0.834	4.343	0.978	87.578
			24:COM17	16:COM3	28:COM15	20:COM7	16:COM3	16:COM3
			-75.650	-73.905	-2.708	-2.308	0.000	-77.858
			18:COM5	26:COM13	22:COM9	30:COM17	-	26:COM13
	2404	-ve	54.906	78.682	0.834	4.343	1.563	18.840
			24:COM17	16:COM3	28:COM15	20:COM7	28:COM15	16:COM3
			-75.650	-75.570	-2.708	-2.308	-2.763	-15.611
			18:COM5	26:COM13	22:COM9	30:COM17	22:COM9	26:COM13
5664	2541	+ve	102.670	158.587	4.593	25.126	4.901	212.701
			16:COM3	24:COM11	20:COM7	20:COM7	28:COM15	16:COM3
			-67.952	-185.874	-4.421	-25.408	-4.915	-210.318
			26:COM13	18:COM5	30:COM17	30:COM17	22:COM9	26:COM13
	5377	-ve	102.670	157.419	4.593	25.126	1.182	380.646
			16:COM3	24:COM11	20:COM7	20:COM7	16:COM3	16:COM3
			-67.952	-187.431	-4.421	-25.408	-1.042	-352.480
			26:COM13	18:COM5	30:COM17	30:COM17	26:COM13	26:COM13

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
5665	2542	+ve	42.809	163.517	1.898	3.498	3.606	105.249
			16:COM3	24:COM11	28:COM15	20:COM7	20:COM7	24:COM11
			-22.555	-162.508	-3.230	-2.362	-1.770	-105.412
			26:COM13	18:COM5	22:COM9	30:COM17	30:COM17	18:COM5
	2541	-ve	42.809	160.955	1.898	3.498	2.047	218.895
			16:COM3	24:COM11	28:COM15	20:COM7	28:COM15	16:COM3
			-22.555	-165.924	-3.230	-2.362	-2.840	-215.149
			26:COM13	18:COM5	22:COM9	30:COM17	22:COM9	26:COM13
5666	2543	+ve	93.779	17.959	4.973	5.297	5.309	1.596
			24:COM17	24:COM11	16:COM3	24:COM17	24:COM11	24:COM17
			-135.022	-23.011	-4.674	-6.643	-6.072	-11.858
			18:COM5	18:COM5	26:COM13	18:COM5	18:COM5	18:COM5
	2405	-ve	93.779	15.316	4.973	5.297	4.762	39.900
			24:COM17	24:COM11	16:COM3	24:COM17	28:COM15	16:COM3
			-135.022	-26.535	-4.674	-6.643	-4.917	-33.590
			18:COM5	18:COM5	26:COM13	18:COM5	22:COM9	26:COM13
5667	2544	+ve	19.948	3.882	3.501	3.377	3.256	6.685
			24:COM17	20:COM7	20:COM7	28:COM15	28:COM15	16:COM3
			-48.256	-0.173	-3.308	-4.315	-3.378	-3.092
			18:COM5	30:COM17	30:COM17	22:COM9	22:COM9	26:COM13
	2543	-ve	19.948	0.756	3.501	3.377	3.539	5.811
			24:COM17	28:COM15	20:COM7	28:COM15	20:COM7	16:COM3
			-48.256	-3.014	-3.308	-4.315	-3.280	-3.647
			18:COM5	22:COM9	30:COM17	22:COM9	30:COM17	26:COM13
5668	2488	+ve	19.719	55.609	1.045	0.000	2.463	36.806
			16:COM3	28:COM15	24:COM11	-	16:COM3	28:COM15
			-7.653	-55.314	-1.107	-15.390	-2.400	-40.868
			26:COM13	22:COM9	18:COM5	22:COM9	26:COM13	22:COM9
	2412	-ve	19.719	49.529	1.045	0.000	1.888	184.267
			16:COM3	28:COM15	24:COM11	-	28:COM15	20:COM7
			-7.653	-64.324	-1.107	-15.390	-2.057	-161.046
			26:COM13	22:COM9	18:COM5	22:COM9	22:COM9	30:COM17
5671	2552	+ve	7.686	49.125	0.607	1.531	1.308	65.082
			20:COM7	20:COM7	28:COM15	24:COM17	20:COM7	16:COM3
			0.000	-18.764	-1.059	-1.500	-0.931	-46.601
			-	30:COM17	22:COM9	18:COM5	30:COM17	26:COM13
	2553	-ve	7.686	46.529	0.607	1.531	0.216	0.000
			20:COM7	20:COM7	28:COM15	24:COM17	24:COM11	-
			0.000	-20.711	-1.059	-1.500	-0.686	-25.467
			-	30:COM17	22:COM9	18:COM5	18:COM5	22:COM9
5672	2553	+ve	8.848	36.155	0.123	1.046	0.111	0.000
			16:COM3	16:COM3	20:COM7	24:COM17	28:COM15	-
			-1.853	-28.818	-0.071	-2.704	-0.171	-25.264
			26:COM13	26:COM13	30:COM17	18:COM5	22:COM9	22:COM9
	2554	-ve	8.848	33.559	0.123	1.046	0.101	46.158
			16:COM3	16:COM3	20:COM7	24:COM17	16:COM3	28:COM15
			-1.853	-30.765	-0.071	-2.704	-0.063	-90.078
			26:COM13	26:COM13	30:COM17	18:COM5	26:COM13	22:COM9

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
5673	2554	+ve	12.197	28.297	1.004	0.000	0.701	45.955
			16:COM3	24:COM11	28:COM15	-	20:COM7	28:COM15
			-7.002	-44.633	-0.835	-6.045	-0.896	-90.145
			26:COM13	18:COM5	22:COM9	18:COM5	30:COM17	22:COM9
	2397	-ve	12.197	26.350	1.004	0.000	1.002	123.771
			16:COM3	24:COM11	28:COM15	-	28:COM15	24:COM17
			-7.002	-47.229	-0.835	-6.045	-0.880	-133.057
			26:COM13	18:COM5	22:COM9	18:COM5	22:COM9	18:COM5
5674	2555	+ve	20.350	28.021	0.153	3.207	0.342	8.605
			28:COM15	24:COM11	28:COM15	20:COM7	28:COM15	24:COM17
			-22.175	-32.811	-0.155	-2.076	-0.353	-23.684
			22:COM9	18:COM5	22:COM9	30:COM17	22:COM9	18:COM5
	2412	-ve	20.350	25.362	0.153	3.207	0.299	109.333
			28:COM15	24:COM11	28:COM15	20:COM7	28:COM15	16:COM3
			-22.175	-36.356	-0.155	-2.076	-0.317	-94.094
			22:COM9	18:COM5	22:COM9	30:COM17	22:COM9	26:COM13
5685	2636	+ve	0.000	6.553	0.000	0.000	0.012	6.450
			-	20:COM7	-	-	20:COM7	20:COM7
			-3.478	0.000	-0.004	-0.128	0.000	-0.644
			22:COM9	-	22:COM9	34:CVOL3	-	30:COM17
	2493	-ve	0.000	0.000	0.000	0.000	0.000	11.113
			-	-	-	-	-	20:COM7
			-3.478	-7.889	-0.004	-0.128	-0.014	0.000
			22:COM9	22:COM9	22:COM9	34:CVOL3	22:COM9	-
5686	2635	+ve	0.000	6.391	0.004	0.000	0.010	3.701
			-	35:CVOL4	20:COM7	-	28:COM15	20:COM7
			-1.394	0.000	-0.003	-0.116	-0.012	0.000
			22:COM9	-	30:COM17	18:COM5	22:COM9	-
	2494	-ve	0.000	0.000	0.004	0.000	0.012	8.257
			-	-	20:COM7	-	20:COM7	20:COM7
			-1.394	-7.735	-0.003	-0.116	-0.010	0.000
			22:COM9	34:CVOL3	30:COM17	18:COM5	30:COM17	-
5687	2634	+ve	0.000	6.584	0.004	0.021	0.009	2.872
			-	35:CVOL4	20:COM7	24:COM17	28:COM15	34:CVOL3
			-0.597	0.000	-0.003	-0.064	-0.012	0.000
			22:COM9	-	30:COM17	18:COM5	22:COM9	-
	2495	-ve	0.000	0.000	0.004	0.021	0.012	6.626
			-	-	20:COM7	24:COM17	20:COM7	34:CVOL3
			-0.597	-7.539	-0.003	-0.064	-0.009	0.000
			22:COM9	34:CVOL3	30:COM17	18:COM5	30:COM17	-
5688	2633	+ve	0.000	6.588	0.004	0.083	0.008	2.761
			-	35:CVOL4	20:COM7	16:COM3	28:COM15	34:CVOL3
			-0.571	0.000	-0.003	-0.007	-0.012	0.000
			18:COM5	-	30:COM17	26:COM13	22:COM9	-
	2496	-ve	0.000	0.000	0.004	0.083	0.011	6.537
			-	-	20:COM7	16:COM3	20:COM7	20:COM7
			-0.571	-7.538	-0.003	-0.007	-0.008	0.000
			18:COM5	34:CVOL3	30:COM17	26:COM13	30:COM17	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
5689	2632	+ve	0.000	6.364	0.004	0.126	0.007	3.134
			-	35:CVOL4	20:COM7	20:COM7	28:COM15	20:COM7
			-1.293	0.000	-0.002	0.000	-0.012	0.000
			22:COM9	-	30:COM17	-	22:COM9	-
	2497	-ve	0.000	0.000	0.004	0.126	0.010	8.696
			-	-	20:COM7	20:COM7	20:COM7	20:COM7
			-1.293	-7.771	-0.002	0.000	-0.007	0.000
			22:COM9	34:CVOL3	30:COM17	-	30:COM17	-
5690	2631	+ve	0.000	6.347	0.005	0.116	0.006	5.455
			-	20:COM7	20:COM7	34:CVOL3	28:COM15	20:COM7
			-3.331	0.000	-0.002	0.000	-0.017	-0.353
			22:COM9	-	30:COM17	-	22:COM9	30:COM17
	2498	-ve	0.000	0.000	0.005	0.116	0.016	11.493
			-	-	20:COM7	34:CVOL3	20:COM7	20:COM7
			-3.331	-7.926	-0.002	0.000	-0.005	0.000
			22:COM9	34:CVOL3	30:COM17	-	30:COM17	-
5691	2642	+ve	0.000	5.891	0.000	0.000	0.008	5.545
			-	20:COM7	28:COM15	-	20:COM7	20:COM7
			-3.134	0.000	-0.003	-0.198	-0.001	-0.244
			34:CVOL3	-	22:COM9	34:CVOL3	30:COM17	30:COM17
	2499	-ve	0.000	0.000	0.000	0.000	0.001	13.079
			-	-	28:COM15	-	28:COM15	20:COM7
			-3.134	-8.345	-0.003	-0.198	-0.009	0.000
			34:CVOL3	34:CVOL3	22:COM9	34:CVOL3	22:COM9	-
5692	2641	+ve	0.000	5.838	0.002	0.000	0.009	4.028
			-	35:CVOL4	28:COM15	-	20:COM7	20:COM7
			-1.337	0.000	-0.003	-0.216	-0.007	0.000
			18:COM5	-	22:COM9	34:CVOL3	30:COM17	-
	2500	-ve	0.000	0.000	0.002	0.000	0.007	11.913
			-	-	28:COM15	-	28:COM15	16:COM3
			-1.337	-8.265	-0.003	-0.216	-0.008	0.000
			18:COM5	34:CVOL3	22:COM9	34:CVOL3	22:COM9	-
5693	2640	+ve	0.121	5.972	0.002	0.000	0.008	4.708
			24:COM17	35:CVOL4	28:COM15	-	20:COM7	34:CVOL3
			-0.661	0.000	-0.002	-0.125	-0.007	0.000
			18:COM5	-	22:COM9	22:COM9	30:COM17	-
	2501	-ve	0.121	0.000	0.002	0.000	0.007	11.891
			24:COM17	-	28:COM15	-	28:COM15	34:CVOL3
			-0.661	-8.101	-0.002	-0.125	-0.007	0.000
			18:COM5	34:CVOL3	22:COM9	22:COM9	22:COM9	-
5694	2639	+ve	0.215	5.750	0.002	0.096	0.006	5.146
			24:COM17	35:CVOL4	28:COM15	20:COM7	20:COM7	34:CVOL3
			-0.576	0.000	-0.002	-0.020	-0.006	0.000
			18:COM5	-	22:COM9	30:COM17	30:COM17	-
	2502	-ve	0.215	0.000	0.002	0.096	0.006	13.563
			24:COM17	-	28:COM15	20:COM7	28:COM15	34:CVOL3
			-0.576	-8.303	-0.002	-0.020	-0.006	0.000
			18:COM5	34:CVOL3	22:COM9	30:COM17	22:COM9	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
5695	2638	+ve	0.656	4.535	0.062	5.828	0.128	2.042
			24:COM1	33:CVOL2	20:COM7	20:COM7	28:COM15	24:COM1
			-3.689	0.000	-0.044	0.000	-0.206	-0.958
			18:COM5	-	30:COM1	-	22:COM9	18:COM5
	2503	-ve	0.656	0.000	0.062	5.828	0.177	41.168
			24:COM1	-	20:COM7	20:COM7	20:COM7	34:CVOL3
			-3.689	-16.063	-0.044	0.000	-0.142	0.000
			18:COM5	34:CVOL3	30:COM1	-	30:COM1	-
5696	2637	+ve	0.239	4.990	0.004	0.276	0.006	4.493
			24:COM1	35:CVOL4	20:COM7	34:CVOL3	28:COM15	20:COM7
			-3.493	0.000	-0.002	0.000	-0.013	0.000
			18:COM5	-	30:COM1	-	22:COM9	-
	2504	-ve	0.239	0.000	0.004	0.276	0.013	16.251
			24:COM1	-	20:COM7	34:CVOL3	20:COM7	34:CVOL3
			-3.493	-9.122	-0.002	0.000	-0.007	0.000
			18:COM5	34:CVOL3	30:COM1	-	30:COM1	-
5697	2510	+ve	10.547	7.036	0.002	0.024	0.008	11.781
			28:COM15	34:CVOL3	28:COM15	28:COM15	20:COM7	20:COM7
			-16.415	0.000	-0.003	-0.044	-0.008	0.000
			22:COM9	-	22:COM9	22:COM9	30:COM1	-
	2604	-ve	10.547	0.000	0.002	0.024	0.008	6.936
			28:COM15	-	28:COM15	28:COM15	28:COM15	16:COM3
			-16.415	-6.380	-0.003	-0.044	-0.010	0.000
			22:COM9	35:CVOL4	22:COM9	22:COM9	22:COM9	-
5698	2511	+ve	8.698	6.900	0.003	0.004	0.019	9.476
			20:COM7	34:CVOL3	28:COM15	28:COM15	20:COM7	20:COM7
			-7.088	0.000	-0.005	-0.047	-0.011	0.000
			30:COM1	-	22:COM9	22:COM9	30:COM1	-
	2603	-ve	8.698	0.000	0.003	0.004	0.009	6.352
			20:COM7	-	28:COM15	28:COM15	28:COM15	35:CVOL4
			-7.088	-6.471	-0.005	-0.047	-0.018	0.000
			30:COM1	35:CVOL4	22:COM9	22:COM9	22:COM9	-
5699	2512	+ve	7.796	6.798	0.002	0.008	0.014	7.614
			20:COM7	34:CVOL3	28:COM15	28:COM15	20:COM7	20:COM7
			-2.526	0.000	-0.004	-0.031	-0.008	0.000
			30:COM1	-	22:COM9	22:COM9	30:COM1	-
	2602	-ve	7.796	0.000	0.002	0.008	0.007	6.240
			20:COM7	-	28:COM15	28:COM15	28:COM15	35:CVOL4
			-2.526	-6.541	-0.004	-0.031	-0.014	0.000
			30:COM1	35:CVOL4	22:COM9	22:COM9	22:COM9	-
5700	2513	+ve	5.904	6.662	0.002	0.022	0.011	6.737
			20:COM7	34:CVOL3	28:COM15	20:COM7	20:COM7	34:CVOL3
			-1.009	0.000	-0.003	-0.008	-0.008	0.000
			30:COM1	-	22:COM9	30:COM1	30:COM1	-
	2601	-ve	5.904	0.000	0.002	0.022	0.008	6.726
			20:COM7	-	28:COM15	20:COM7	28:COM15	20:COM7
			-1.009	-6.663	-0.003	-0.008	-0.011	0.000
			30:COM1	35:CVOL4	22:COM9	30:COM1	22:COM9	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
5701	2514	+ve	2.676	6.524	0.002	0.028	0.007	6.654
			16:COM3	34:CVOL3	20:COM7	16:COM3	28:COM15	20:COM7
			-1.619	0.000	-0.002	0.000	-0.007	0.000
			26:COM13	-	30:COM17	-	22:COM9	-
	2600	-ve	2.676	0.000	0.002	0.028	0.008	8.041
			16:COM3	-	20:COM7	16:COM3	20:COM7	20:COM7
			-1.619	-6.791	-0.002	0.000	-0.008	0.000
			26:COM13	35:CVOL4	30:COM17	-	30:COM17	-
5702	2505	+ve	2.206	6.447	0.000	0.000	0.009	7.003
			16:COM3	35:CVOL4	28:COM15	-	20:COM7	20:COM7
			-0.847	0.000	-0.003	-0.052	-0.001	0.000
			26:COM13	-	22:COM9	22:COM9	30:COM17	-
	2609	-ve	2.206	0.000	0.000	0.000	0.000	8.533
			16:COM3	-	28:COM15	-	28:COM15	20:COM7
			-0.847	-6.880	-0.003	-0.052	-0.008	0.000
			26:COM13	34:CVOL3	22:COM9	22:COM9	22:COM9	-
5703	2506	+ve	4.832	6.539	0.001	0.000	0.009	6.483
			16:COM3	35:CVOL4	28:COM15	-	20:COM7	20:COM7
			0.000	0.000	-0.003	-0.043	-0.003	0.000
			-	-	22:COM9	18:COM5	30:COM17	-
	2608	-ve	4.832	0.000	0.001	0.000	0.003	7.438
			16:COM3	-	28:COM15	-	28:COM15	20:COM7
			0.000	-6.784	-0.003	-0.043	-0.009	0.000
			-	34:CVOL3	22:COM9	18:COM5	22:COM9	-
5704	2507	+ve	5.938	6.604	0.001	0.016	0.005	6.368
			35:CVOL4	35:CVOL4	28:COM15	16:COM3	20:COM7	20:COM7
			0.000	0.000	-0.002	-0.010	-0.004	0.000
			-	-	22:COM9	26:COM13	30:COM17	-
	2607	-ve	5.938	0.000	0.001	0.016	0.003	6.811
			35:CVOL4	-	28:COM15	16:COM3	28:COM15	20:COM7
			0.000	-6.716	-0.002	-0.010	-0.005	0.000
			-	34:CVOL3	22:COM9	26:COM13	22:COM9	-
5705	2508	+ve	4.862	6.546	0.001	0.050	0.002	6.489
			35:CVOL4	35:CVOL4	20:COM7	20:COM7	28:COM15	20:COM7
			0.000	0.000	-0.001	0.000	-0.005	0.000
			-	-	30:COM17	-	22:COM9	-
	2606	-ve	4.862	0.000	0.001	0.050	0.005	7.314
			35:CVOL4	-	20:COM7	20:COM7	20:COM7	20:COM7
			0.000	-6.775	-0.001	0.000	-0.002	0.000
			-	34:CVOL3	30:COM17	-	30:COM17	-
5706	2509	+ve	2.259	6.456	0.002	0.055	0.002	7.022
			16:COM3	35:CVOL4	20:COM7	20:COM7	28:COM15	20:COM7
			-0.744	0.000	-0.001	0.000	-0.007	0.000
			26:COM13	-	30:COM17	-	22:COM9	-
	2605	-ve	2.259	0.000	0.002	0.055	0.007	8.389
			16:COM3	-	20:COM7	20:COM7	20:COM7	20:COM7
			-0.744	-6.870	-0.001	0.000	-0.002	0.000
			26:COM13	34:CVOL3	30:COM17	-	30:COM17	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
5707	2515	+ve	2.112	6.448	0.000	0.000	0.006	7.002
			16:COM3	35:CVOL4	28:COM15	-	20:COM7	20:COM7
			-0.824	0.000	-0.002	-0.050	-0.000	0.000
			26:COM13	-	22:COM9	22:COM9	30:COM17	-
	2614	-ve	2.112	0.000	0.000	0.000	0.000	8.501
			16:COM3	-	28:COM15	-	28:COM15	20:COM7
			-0.824	-6.879	-0.002	-0.050	-0.006	0.000
			26:COM13	34:CVOL3	22:COM9	22:COM9	22:COM9	-
5708	2516	+ve	4.772	6.541	0.000	0.000	0.005	6.462
			35:CVOL4	35:CVOL4	28:COM15	-	16:COM3	20:COM7
			0.000	0.000	-0.002	-0.044	-0.001	0.000
			-	-	22:COM9	18:COM5	26:COM13	-
	2613	-ve	4.772	0.000	0.000	0.000	0.001	7.387
			35:CVOL4	-	28:COM15	-	28:COM15	20:COM7
			0.000	-6.781	-0.002	-0.044	-0.005	0.000
			-	34:CVOL3	22:COM9	18:COM5	22:COM9	-
5709	2517	+ve	5.989	6.612	0.001	0.013	0.002	6.339
			35:CVOL4	35:CVOL4	20:COM7	24:COM17	28:COM15	20:COM7
			0.000	0.000	-0.001	-0.012	-0.003	0.000
			-	-	30:COM17	18:COM5	22:COM9	-
	2612	-ve	5.989	0.000	0.001	0.013	0.003	6.733
			35:CVOL4	-	20:COM7	24:COM17	20:COM7	20:COM7
			0.000	-6.708	-0.001	-0.012	-0.002	0.000
			-	34:CVOL3	30:COM17	18:COM5	30:COM17	-
5710	2518	+ve	4.976	6.559	0.002	0.048	0.001	6.446
			16:COM3	35:CVOL4	20:COM7	20:COM7	28:COM15	20:COM7
			0.000	0.000	-0.000	0.000	-0.006	0.000
			-	-	30:COM17	-	22:COM9	-
	2611	-ve	4.976	0.000	0.002	0.048	0.006	7.189
			16:COM3	-	20:COM7	20:COM7	20:COM7	20:COM7
			0.000	-6.760	-0.000	0.000	-0.001	0.000
			-	34:CVOL3	30:COM17	-	30:COM17	-
5711	2519	+ve	2.279	6.471	0.002	0.056	0.000	6.945
			16:COM3	35:CVOL4	20:COM7	20:COM7	28:COM15	20:COM7
			-0.765	0.000	-0.000	0.000	-0.007	0.000
			26:COM13	-	30:COM17	-	22:COM9	-
	2610	-ve	2.279	0.000	0.002	0.056	0.007	8.224
			16:COM3	-	20:COM7	20:COM7	20:COM7	20:COM7
			-0.765	-6.853	-0.000	0.000	-0.000	0.000
			26:COM13	34:CVOL3	30:COM17	-	30:COM17	-
5712	2520	+ve	2.104	6.499	0.002	0.001	0.008	6.642
			20:COM7	35:CVOL4	28:COM15	28:COM15	20:COM7	34:CVOL3
			-1.823	0.000	-0.002	-0.044	-0.005	0.000
			30:COM17	-	22:COM9	22:COM9	30:COM17	-
	2619	-ve	2.104	0.000	0.002	0.001	0.006	8.182
			20:COM7	-	28:COM15	28:COM15	28:COM15	20:COM7
			-1.823	-6.817	-0.002	-0.044	-0.008	0.000
			30:COM17	34:CVOL3	22:COM9	22:COM9	22:COM9	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
5713	2521	+ve	5.523	6.623	0.002	0.020	0.007	6.732
			20:COM7	34:CVOL3	20:COM7	28:COM15	28:COM15	34:CVOL3
			-1.428	0.000	-0.002	-0.043	-0.007	0.000
			30:COM17	-	30:COM17	22:COM9	22:COM9	-
	2618	-ve	5.523	0.000	0.002	0.020	0.008	7.074
			20:COM7	-	20:COM7	28:COM15	20:COM7	20:COM7
			-1.428	-6.696	-0.002	-0.043	-0.007	0.000
			30:COM17	35:CVOL4	30:COM17	22:COM9	30:COM17	-
5714	2522	+ve	7.174	6.762	0.003	0.045	0.007	7.293
			20:COM7	34:CVOL3	20:COM7	20:COM7	28:COM15	20:COM7
			-2.557	0.000	-0.002	-0.023	-0.011	0.000
			30:COM17	-	30:COM17	30:COM17	22:COM9	-
	2617	-ve	7.174	0.000	0.003	0.045	0.011	6.464
			20:COM7	-	20:COM7	20:COM7	20:COM7	34:CVOL3
			-2.557	-6.571	-0.002	-0.023	-0.007	0.000
			30:COM17	35:CVOL4	30:COM17	30:COM17	30:COM17	-
5715	2523	+ve	7.770	6.872	0.004	0.053	0.007	9.044
			20:COM7	34:CVOL3	20:COM7	20:COM7	28:COM15	20:COM7
			-6.365	0.000	-0.002	-0.002	-0.014	0.000
			30:COM17	-	30:COM17	30:COM17	22:COM9	-
	2616	-ve	7.770	0.000	0.004	0.053	0.014	6.527
			20:COM7	-	20:COM7	20:COM7	20:COM7	35:CVOL4
			-6.365	-6.492	-0.002	-0.002	-0.006	0.000
			30:COM17	35:CVOL4	30:COM17	30:COM17	30:COM17	-
5716	2524	+ve	8.917	7.020	0.001	0.034	0.002	11.438
			28:COM15	34:CVOL3	20:COM7	16:COM3	28:COM15	20:COM7
			-13.719	0.000	-0.001	0.000	-0.004	0.000
			22:COM9	-	30:COM17	-	22:COM9	-
	2615	-ve	8.917	0.000	0.001	0.034	0.005	7.074
			28:COM15	-	20:COM7	16:COM3	20:COM7	16:COM3
			-13.719	-6.389	-0.001	0.000	-0.002	0.000
			22:COM9	35:CVOL4	30:COM17	-	30:COM17	-
5717	2625	+ve	0.000	5.869	0.005	0.218	0.012	6.819
			-	34:CVOL3	20:COM7	20:COM7	20:COM7	20:COM7
			-3.572	0.000	-0.002	-0.048	-0.009	0.000
			18:COM5	-	30:COM17	30:COM17	30:COM17	-
	2525	-ve	0.000	0.000	0.005	0.218	0.017	5.145
			-	-	20:COM7	20:COM7	20:COM7	35:CVOL4
			-3.572	-5.350	-0.002	-0.048	-0.000	0.000
			18:COM5	35:CVOL4	30:COM17	30:COM17	30:COM17	-
5718	2624	+ve	1.440	4.998	0.014	0.377	0.036	4.636
			28:COM15	34:CVOL3	20:COM7	20:COM7	28:COM15	20:COM7
			-7.276	0.000	-0.012	-0.112	-0.040	0.000
			22:COM9	-	30:COM17	30:COM17	22:COM9	-
	2421	-ve	1.440	0.000	0.014	0.377	0.041	8.593
			28:COM15	-	20:COM7	20:COM7	20:COM7	20:COM7
			-7.276	-6.221	-0.012	-0.112	-0.030	0.000
			22:COM9	35:CVOL4	30:COM17	30:COM17	30:COM17	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
5719	2623	+ve	1.359	5.385	0.017	0.352	0.049	5.996
			28:COM15	20:COM7	20:COM7	20:COM7	28:COM15	20:COM7
			-9.098	0.000	-0.015	-0.189	-0.051	-3.384
			22:COM9	-	30:COM17	30:COM17	22:COM9	30:COM17
	2527	-ve	1.359	0.000	0.017	0.352	0.042	15.121
			28:COM15	-	20:COM7	20:COM7	20:COM7	20:COM7
			-9.098	-8.059	-0.015	-0.189	-0.037	-0.692
			22:COM9	22:COM9	30:COM17	30:COM17	30:COM17	30:COM17
5720	2622	+ve	1.207	5.915	0.002	0.022	0.034	7.538
			28:COM15	20:COM7	24:COM11	24:COM11	16:COM3	20:COM7
			-11.275	-0.883	-0.011	-0.092	-0.008	-6.085
			22:COM9	30:COM17	18:COM5	18:COM5	26:COM13	30:COM17
	2526	-ve	1.207	0.000	0.002	0.022	0.005	18.743
			28:COM15	-	24:COM11	24:COM11	24:COM11	20:COM7
			-11.275	-9.228	-0.011	-0.092	-0.026	-2.542
			22:COM9	22:COM9	18:COM5	18:COM5	18:COM5	30:COM17
5721	2621	+ve	0.124	5.854	0.010	0.107	0.069	7.501
			24:COM11	20:COM7	28:COM15	28:COM15	20:COM7	20:COM7
			-10.282	0.000	-0.022	-0.308	-0.035	-3.408
			18:COM5	-	22:COM9	22:COM9	30:COM17	30:COM17
	2529	-ve	0.124	0.000	0.010	0.107	0.023	15.103
			24:COM11	-	28:COM15	28:COM15	28:COM15	20:COM7
			-10.282	-8.020	-0.022	-0.308	-0.059	-1.201
			18:COM5	22:COM9	22:COM9	22:COM9	22:COM9	30:COM17
5722	2620	+ve	0.000	5.808	0.009	0.105	0.049	7.387
			-	20:COM7	28:COM15	28:COM15	20:COM7	20:COM7
			-7.863	0.000	-0.016	-0.294	-0.030	0.000
			18:COM5	-	22:COM9	22:COM9	30:COM17	-
	2528	-ve	0.000	0.000	0.009	0.105	0.025	9.856
			-	-	28:COM15	28:COM15	28:COM15	20:COM7
			-7.863	-6.411	-0.016	-0.294	-0.047	0.000
			18:COM5	22:COM9	22:COM9	22:COM9	22:COM9	-
5723	2525	+ve	4.849	9.319	0.032	0.000	0.000	28.672
			28:COM15	20:COM7	16:COM3	-	-	20:COM7
			-9.931	0.000	0.000	-0.272	-0.072	-12.895
			22:COM9	-	-	18:COM5	18:COM5	30:COM17
	2689	-ve	4.849	0.784	0.032	0.000	0.077	8.388
			28:COM15	28:COM15	16:COM3	-	16:COM3	28:COM15
			-9.931	-3.845	0.000	-0.272	0.000	-13.064
			22:COM9	22:COM9	-	18:COM5	-	22:COM9
5727	2529	+ve	0.000	8.889	0.052	0.520	0.086	17.771
			-	34:CVOL3	20:COM7	16:COM3	28:COM15	16:COM3
			-1.647	0.000	-0.045	-0.213	-0.100	0.000
			22:COM9	-	30:COM17	26:COM13	22:COM9	-
	2697	-ve	0.000	0.019	0.052	0.520	0.134	0.382
			-	24:COM11	20:COM7	16:COM3	20:COM7	28:COM15
			-1.647	-2.335	-0.045	-0.213	-0.116	-0.850
			22:COM9	18:COM5	30:COM17	26:COM13	30:COM17	22:COM9

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
5728	2528	+ve	0.389	7.424	0.031	0.387	0.052	13.008
			28:COM1	34:CVOL3	20:COM7	16:COM3	28:COM1	20:COM7
			-3.206	0.000	-0.030	-0.093	-0.057	0.000
			22:COM9	-	30:COM1	26:COM1	22:COM9	-
	2696	-ve	0.389	0.000	0.031	0.387	0.078	1.674
			28:COM1	-	20:COM7	16:COM3	28:COM1	16:COM3
			-3.206	-3.150	-0.030	-0.093	-0.078	-0.346
			22:COM9	22:COM9	30:COM1	26:COM1	22:COM9	26:COM1
5729	2699	+ve	0.000	0.917	0.000	0.077	0.090	0.000
			-	20:COM7	-	28:COM1	34:CVOL3	-
			-8.757	-0.217	-0.059	-0.126	0.000	-1.134
			22:COM9	30:COM1	34:CVOL3	22:COM9	-	22:COM9
	2625	-ve	0.000	0.000	0.000	0.077	0.000	6.544
			-	-	-	28:COM1	-	20:COM7
			-8.757	-5.326	-0.059	-0.126	-0.091	0.000
			22:COM9	34:CVOL3	34:CVOL3	22:COM9	22:COM9	-
5730	2700	+ve	0.000	1.369	0.000	0.041	0.070	0.000
			-	34:CVOL3	-	28:COM1	20:COM7	-
			-4.015	0.000	-0.047	-0.084	0.000	-0.718
			33:CVOL2	-	22:COM9	22:COM9	-	22:COM9
	2624	-ve	0.000	0.000	0.000	0.041	0.002	4.736
			-	-	-	28:COM1	28:COM1	20:COM7
			-4.015	-4.690	-0.047	-0.084	-0.074	0.000
			33:CVOL2	35:CVOL4	22:COM9	22:COM9	22:COM9	-
5731	2701	+ve	0.000	1.868	0.013	0.012	0.053	0.000
			-	34:CVOL3	28:COM1	24:COM1	20:COM7	-
			-2.526	0.000	-0.036	-0.022	-0.017	-0.244
			22:COM9	-	22:COM9	18:COM5	30:COM1	33:CVOL2
	2623	-ve	0.000	0.000	0.013	0.012	0.024	3.760
			-	-	28:COM1	24:COM1	28:COM1	20:COM7
			-2.526	-4.222	-0.036	-0.022	-0.058	0.000
			22:COM9	35:CVOL4	22:COM9	18:COM5	22:COM9	-
5732	2702	+ve	1.645	2.143	0.017	0.091	0.049	0.151
			28:COM1	20:COM7	28:COM1	20:COM7	20:COM7	20:COM7
			-4.099	0.000	-0.032	-0.072	-0.025	-0.348
			22:COM9	-	22:COM9	30:COM1	30:COM1	30:COM1
	2622	-ve	1.645	0.000	0.017	0.091	0.028	4.662
			28:COM1	-	28:COM1	20:COM7	28:COM1	20:COM7
			-4.099	-4.272	-0.032	-0.072	-0.051	0.000
			22:COM9	22:COM9	22:COM9	30:COM1	22:COM9	-
5733	2703	+ve	1.725	2.123	0.041	0.148	0.064	0.346
			28:COM1	20:COM7	20:COM7	20:COM7	28:COM1	28:COM1
			-6.737	-0.302	-0.043	-0.107	-0.060	-0.943
			22:COM9	30:COM1	30:COM1	30:COM1	22:COM9	22:COM9
	2621	-ve	1.725	0.000	0.041	0.148	0.065	6.169
			28:COM1	-	20:COM7	20:COM7	20:COM7	20:COM7
			-6.737	-4.974	-0.043	-0.107	-0.069	0.000
			22:COM9	22:COM9	30:COM1	30:COM1	30:COM1	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
5734	2704	+ve	0.188	1.765	0.034	0.102	0.034	0.548
			28:COM15	20:COM7	20:COM7	20:COM7	28:COM15	28:COM15
			-9.970	-0.815	-0.023	-0.062	-0.049	-1.604
			22:COM9	30:COM17	30:COM17	30:COM17	22:COM9	22:COM9
	2620	-ve	0.188	0.000	0.034	0.102	0.053	7.742
			28:COM15	-	20:COM7	20:COM7	20:COM7	20:COM7
			-9.970	-5.705	-0.023	-0.062	-0.036	0.000
			22:COM9	22:COM9	30:COM17	30:COM17	30:COM17	-
5735	2500	+ve	0.000	7.632	0.004	0.000	0.010	13.039
			-	34:CVOL3	28:COM15	-	20:COM7	16:COM3
			-0.975	0.000	-0.005	-0.243	-0.007	0.000
			22:COM9	-	22:COM9	34:CVOL3	30:COM17	-
	2685	-ve	0.000	0.000	0.004	0.000	0.009	0.527
			-	-	28:COM15	-	28:COM15	16:COM3
			-0.975	-2.697	-0.005	-0.243	-0.010	-0.044
			22:COM9	18:COM5	22:COM9	34:CVOL3	22:COM9	26:COM13
5736	2501	+ve	0.258	8.197	0.004	0.000	0.009	14.629
			28:COM15	34:CVOL3	24:COM11	-	16:COM3	34:CVOL3
			-0.743	0.000	-0.005	-0.348	-0.007	0.000
			22:COM9	-	18:COM5	18:COM5	26:COM13	-
	2713	-ve	0.258	0.000	0.004	0.000	0.009	0.274
			28:COM15	-	24:COM11	-	24:COM11	35:CVOL4
			-0.743	-2.020	-0.005	-0.348	-0.011	0.000
			22:COM9	33:CVOL2	18:COM5	18:COM5	18:COM5	-
5737	2502	+ve	0.314	9.238	0.004	0.000	0.010	18.962
			28:COM15	34:CVOL3	24:COM11	-	16:COM3	34:CVOL3
			-0.733	0.000	-0.006	-0.332	-0.007	0.000
			22:COM9	-	18:COM5	18:COM5	26:COM13	-
	2714	-ve	0.314	0.000	0.004	0.000	0.009	0.317
			28:COM15	-	24:COM11	-	24:COM11	20:COM7
			-0.733	-1.281	-0.006	-0.332	-0.013	0.000
			22:COM9	33:CVOL2	18:COM5	18:COM5	18:COM5	-
5738	2503	+ve	0.542	13.574	0.218	4.108	0.463	54.089
			24:COM11	34:CVOL3	24:COM11	20:COM7	16:COM3	34:CVOL3
			-2.614	0.000	-0.283	-2.762	-0.359	0.000
			18:COM5	-	18:COM5	30:COM17	26:COM13	-
	2715	-ve	0.542	1.096	0.218	4.108	0.540	24.397
			24:COM11	16:COM3	24:COM11	20:COM7	24:COM11	35:CVOL4
			-2.614	-1.643	-0.283	-2.762	-0.707	0.000
			18:COM5	26:COM13	18:COM5	30:COM17	18:COM5	-
5739	2504	+ve	0.939	11.664	0.007	0.612	0.012	23.979
			24:COM11	20:COM7	16:COM3	20:COM7	24:COM11	34:CVOL3
			-4.038	0.000	-0.006	-0.045	-0.015	0.000
			18:COM5	-	26:COM13	30:COM17	18:COM5	-
	2716	-ve	0.939	3.297	0.007	0.612	0.014	8.219
			24:COM11	20:COM7	16:COM3	20:COM7	16:COM3	28:COM15
			-4.038	-1.425	-0.006	-0.045	-0.013	-12.068
			18:COM5	30:COM17	26:COM13	30:COM17	26:COM13	22:COM9

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
5740	2493	+ve	0.000	7.416	0.000	0.062	0.023	11.734
			-	34:CVOL3	24:COM11	33:CVOL2	16:COM3	16:COM3
			-2.194	0.000	-0.010	-0.078	0.000	0.000
			22:COM9	-	18:COM5	32:CVOL1	-	-
	2683	-ve	0.000	0.000	0.000	0.062	0.002	0.284
			-	-	24:COM11	33:CVOL2	24:COM11	24:COM1
			-2.194	-2.774	-0.010	-0.078	-0.020	-0.641
			22:COM9	18:COM5	18:COM5	32:CVOL1	18:COM5	18:COM5
5741	2494	+ve	0.000	7.067	0.007	0.144	0.008	9.570
			-	34:CVOL3	20:COM7	16:COM3	28:COM15	34:CVOL3
			-0.597	0.000	-0.004	-0.011	-0.012	0.000
			22:COM9	-	30:COM17	26:COM13	22:COM9	-
	2682	-ve	0.000	0.000	0.007	0.144	0.016	0.119
			-	-	20:COM7	16:COM3	20:COM7	24:COM1
			-0.597	-3.156	-0.004	-0.011	-0.009	-0.253
			22:COM9	35:CVOL4	30:COM17	26:COM13	30:COM17	18:COM5
5742	2495	+ve	0.112	6.546	0.007	0.151	0.007	7.633
			28:COM15	34:CVOL3	20:COM7	16:COM3	28:COM15	34:CVOL3
			-0.569	0.000	-0.004	-0.046	-0.012	0.000
			22:COM9	-	30:COM17	26:COM13	22:COM9	-
	2681	-ve	0.112	0.000	0.007	0.151	0.015	0.244
			28:COM15	-	20:COM7	16:COM3	20:COM7	35:CVOL4
			-0.569	-3.811	-0.004	-0.046	-0.009	-0.011
			22:COM9	35:CVOL4	30:COM17	26:COM13	30:COM17	30:COM17
5743	2499	+ve	0.000	7.518	0.001	0.043	0.013	14.089
			-	16:COM3	28:COM15	28:COM15	20:COM7	16:COM3
			-3.141	0.000	-0.006	-0.188	0.000	0.000
			22:COM9	-	22:COM9	22:COM9	-	-
	2686	-ve	0.000	0.000	0.001	0.043	0.003	1.345
			-	-	28:COM15	28:COM15	28:COM15	16:COM3
			-3.141	-2.872	-0.006	-0.188	-0.013	0.000
			22:COM9	18:COM5	22:COM9	22:COM9	22:COM9	-
5744	2648	+ve	3.655	5.977	0.025	0.368	0.057	6.828
			24:COM11	16:COM3	16:COM3	16:COM3	24:COM11	16:COM3
			-5.778	0.000	-0.017	-0.172	-0.079	-1.169
			18:COM5	-	26:COM13	26:COM13	18:COM5	26:COM13
	2542	-ve	3.655	0.000	0.025	0.368	0.067	11.302
			24:COM11	-	16:COM3	16:COM3	16:COM3	16:COM3
			-5.778	-7.015	-0.017	-0.172	-0.045	-0.775
			18:COM5	18:COM5	26:COM13	26:COM13	26:COM13	26:COM13
5745	2647	+ve	5.580	6.168	0.023	0.259	0.035	7.148
			16:COM3	16:COM3	16:COM3	16:COM3	24:COM11	16:COM3
			-6.644	-0.227	-0.011	-0.062	-0.070	-5.356
			26:COM13	26:COM13	26:COM13	26:COM13	18:COM5	26:COM13
	2541	-ve	5.580	0.000	0.023	0.259	0.062	16.688
			16:COM3	-	16:COM3	16:COM3	16:COM3	16:COM3
			-6.644	-8.749	-0.011	-0.062	-0.029	-2.869
			26:COM13	18:COM5	26:COM13	26:COM13	26:COM13	26:COM13

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
5746	2646	+ve	4.982	5.091	0.017	0.198	0.029	4.330
			16:COM3	16:COM3	16:COM3	16:COM3	24:COM11	24:COM1
			-5.528	-0.160	-0.009	-0.126	-0.052	-5.107
			26:COM1	26:COM1	26:COM1	26:COM1	18:COM5	18:COM5
	2540	-ve	4.982	0.000	0.017	0.198	0.044	16.370
			16:COM3	-	16:COM3	16:COM3	16:COM3	16:COM3
			-5.528	-8.711	-0.009	-0.126	-0.023	-0.543
			26:COM1	18:COM5	26:COM1	26:COM1	26:COM1	26:COM1
5747	2645	+ve	4.461	4.037	0.012	0.140	0.030	1.647
			16:COM3	16:COM3	16:COM3	24:COM1	24:COM11	24:COM1
			-4.981	0.000	-0.010	-0.217	-0.034	-2.725
			26:COM1	-	26:COM1	18:COM5	18:COM5	18:COM5
	2544	-ve	4.461	0.000	0.012	0.140	0.032	13.551
			16:COM3	-	16:COM3	24:COM1	16:COM3	16:COM3
			-4.981	-7.775	-0.010	-0.217	-0.029	0.000
			26:COM1	18:COM5	26:COM1	18:COM5	26:COM1	-
5748	2644	+ve	4.496	4.068	0.011	0.069	0.042	1.156
			16:COM3	34:CVOL3	24:COM11	24:COM1	16:COM3	16:COM3
			-4.482	0.000	-0.015	-0.263	-0.032	0.000
			26:COM1	-	18:COM5	18:COM5	26:COM1	-
	2543	-ve	4.496	0.000	0.011	0.069	0.030	9.727
			16:COM3	-	24:COM11	24:COM1	24:COM11	16:COM3
			-4.482	-7.083	-0.015	-0.263	-0.042	0.000
			26:COM1	35:CVOL4	18:COM5	18:COM5	18:COM5	-
5749	2643	+ve	7.105	4.948	0.005	0.011	0.043	4.289
			20:COM7	34:CVOL3	24:COM11	24:COM1	16:COM3	16:COM3
			-7.897	0.000	-0.014	-0.216	-0.020	0.000
			30:COM1	-	18:COM5	18:COM5	26:COM1	-
	2405	-ve	7.105	0.000	0.005	0.011	0.011	7.324
			20:COM7	-	24:COM11	24:COM1	24:COM11	16:COM3
			-7.897	-6.203	-0.014	-0.216	-0.035	0.000
			30:COM1	35:CVOL4	18:COM5	18:COM5	18:COM5	-
5750	2710	+ve	1.098	1.690	0.111	0.052	0.034	0.362
			16:COM3	16:COM3	20:COM7	16:COM3	28:COM15	16:COM3
			-0.263	0.000	-0.053	-0.037	-0.071	-0.213
			26:COM1	-	30:COM1	26:COM1	22:COM9	26:COM1
	2645	-ve	1.098	0.000	0.111	0.052	0.075	0.496
			16:COM3	-	20:COM7	16:COM3	16:COM3	24:COM1
			-0.263	-1.509	-0.053	-0.037	-0.039	-0.397
			26:COM1	18:COM5	30:COM1	26:COM1	26:COM1	18:COM5
5751	2711	+ve	0.238	1.507	0.188	0.091	0.055	0.211
			24:COM1	16:COM3	16:COM3	16:COM3	24:COM11	16:COM3
			-1.334	-0.709	-0.108	-0.061	-0.108	-0.287
			18:COM5	26:COM1	26:COM1	26:COM1	18:COM5	26:COM1
	2644	-ve	0.238	0.000	0.188	0.091	0.127	1.558
			24:COM1	-	16:COM3	16:COM3	16:COM3	16:COM3
			-1.334	-2.530	-0.108	-0.061	-0.080	-0.497
			18:COM5	18:COM5	26:COM1	26:COM1	26:COM1	26:COM1

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
5752	2712	+ve	0.344	1.049	0.104	0.143	0.024	0.328
			24:COM1	24:COM1	16:COM3	16:COM3	24:COM1	24:COM1
			-4.316	-2.334	-0.065	-0.098	-0.053	-1.058
			18:COM5	18:COM5	26:COM1	26:COM1	18:COM5	18:COM5
	2643	-ve	0.344	0.000	0.104	0.143	0.077	3.220
			24:COM1	-	16:COM3	16:COM3	16:COM3	16:COM3
			-4.316	-4.500	-0.065	-0.098	-0.057	-0.209
			18:COM5	18:COM5	26:COM1	26:COM1	26:COM1	26:COM1
5753	2542	+ve	1.462	11.110	0.032	1.000	0.061	18.826
			28:COM1	16:COM3	24:COM1	16:COM3	16:COM3	16:COM3
			-3.865	-5.772	-0.033	-0.685	-0.055	-13.463
			22:COM9	26:COM1	18:COM5	26:COM1	26:COM1	26:COM1
	2488	-ve	1.462	4.650	0.032	1.000	0.079	31.606
			28:COM1	24:COM1	24:COM1	16:COM3	24:COM1	20:COM7
			-3.865	-13.141	-0.033	-0.685	-0.080	-19.540
			22:COM9	18:COM5	18:COM5	26:COM1	18:COM5	30:COM1
5763	2405	+ve	13.884	12.121	0.037	0.353	0.072	30.316
			28:COM1	20:COM7	20:COM7	16:COM3	28:COM1	20:COM7
			-14.302	-3.614	-0.029	-0.113	-0.093	-22.577
			22:COM9	30:COM1	30:COM1	26:COM1	22:COM9	30:COM1
	6155	-ve	13.884	3.344	0.037	0.353	0.111	17.711
			28:COM1	28:COM1	20:COM7	16:COM3	20:COM7	20:COM7
			-14.302	-12.500	-0.029	-0.113	-0.088	-8.210
			22:COM9	22:COM9	30:COM1	26:COM1	30:COM1	30:COM1
5764	2543	+ve	4.596	12.653	0.035	0.426	0.077	33.548
			28:COM1	20:COM7	20:COM7	16:COM3	28:COM1	20:COM7
			-6.243	-1.279	-0.028	-0.273	-0.097	-17.751
			22:COM9	30:COM1	30:COM1	26:COM1	22:COM9	30:COM1
	6156	-ve	4.596	2.554	0.035	0.426	0.113	13.585
			28:COM1	28:COM1	20:COM7	16:COM3	20:COM7	20:COM7
			-6.243	-10.613	-0.028	-0.273	-0.093	-7.692
			22:COM9	22:COM9	30:COM1	26:COM1	30:COM1	30:COM1
5765	2533	+ve	11.930	8.637	0.062	0.426	0.112	12.328
			20:COM7	20:COM7	20:COM7	24:COM1	28:COM1	28:COM1
			-11.341	-3.248	-0.059	-0.497	-0.121	-13.684
			30:COM1	30:COM1	30:COM1	18:COM5	22:COM9	22:COM9
	6157	-ve	11.930	2.133	0.062	0.426	0.145	13.233
			20:COM7	28:COM1	20:COM7	24:COM1	20:COM7	20:COM7
			-11.341	-10.636	-0.059	-0.497	-0.139	-7.938
			30:COM1	22:COM9	30:COM1	18:COM5	30:COM1	30:COM1
5766	2540	+ve	0.000	6.117	0.040	0.508	0.074	20.691
			-	20:COM7	20:COM7	28:COM1	28:COM1	16:COM3
			-1.599	0.000	-0.036	-0.517	-0.082	-12.163
			22:COM9	-	30:COM1	22:COM9	22:COM9	26:COM1
	2555	-ve	0.000	0.000	0.040	0.508	0.088	19.972
			-	-	20:COM7	28:COM1	20:COM7	20:COM7
			-1.599	-4.771	-0.036	-0.517	-0.083	-16.135
			22:COM9	22:COM9	30:COM1	22:COM9	30:COM1	30:COM1

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
5767	2541	+ve	3.562	15.115	0.005	0.360	0.015	39.014
			28:COM15	20:COM7	20:COM7	24:COM17	28:COM15	20:COM7
			-3.963	-2.846	-0.005	-0.370	-0.017	-23.465
			22:COM9	30:COM17	30:COM17	18:COM5	22:COM9	30:COM17
	2412	-ve	3.562	3.014	0.005	0.360	0.021	34.967
			28:COM15	28:COM15	20:COM7	24:COM17	28:COM15	20:COM7
			-3.963	-14.894	-0.005	-0.370	-0.021	-20.860
			22:COM9	22:COM9	30:COM17	18:COM5	22:COM9	30:COM17
5769	2801	+ve	0.592	6.212	0.001	0.419	0.020	5.192
			28:COM15	35:CVOL4	28:COM15	20:COM7	20:COM7	20:COM7
			-2.443	0.000	-0.006	-0.160	-0.009	-5.261
			22:COM9	-	22:COM9	30:COM17	30:COM17	30:COM17
	2790	-ve	0.592	0.000	0.001	0.419	0.000	13.733
			28:COM15	-	28:COM15	20:COM7	-	20:COM7
			-2.443	-9.345	-0.006	-0.160	-0.018	0.000
			22:COM9	34:CVOL3	22:COM9	30:COM17	22:COM9	-
5770	2673	+ve	7.744	6.052	0.005	0.024	0.020	6.165
			28:COM15	34:CVOL3	24:COM11	24:COM17	16:COM3	20:COM7
			-9.019	0.000	-0.006	-0.029	-0.016	0.000
			22:COM9	-	18:COM5	18:COM5	26:COM13	-
	2548	-ve	7.744	0.000	0.005	0.024	0.014	6.785
			28:COM15	-	24:COM11	24:COM17	28:COM15	20:COM7
			-9.019	-5.990	-0.006	-0.029	-0.018	0.000
			22:COM9	35:CVOL4	18:COM5	18:COM5	22:COM9	-
5771	5468	+ve	33.786	11.315	0.628	16.274	0.647	12.715
			28:COM15	16:COM3	28:COM15	16:COM3	20:COM7	16:COM3
			-57.020	-1.696	-0.659	-5.135	-0.560	-4.327
			22:COM9	26:COM13	22:COM9	26:COM13	30:COM17	26:COM13
	5509	-ve	33.786	6.461	0.628	16.274	0.680	2.496
			28:COM15	24:COM11	28:COM15	16:COM3	20:COM7	24:COM17
			-57.020	-5.366	-0.659	-5.135	-0.654	-4.554
			22:COM9	18:COM5	22:COM9	26:COM13	30:COM17	18:COM5
5772	2655	+ve	1.931	10.635	0.015	0.042	0.000	12.711
			16:COM3	20:COM7	16:COM3	28:COM15	-	20:COM7
			0.000	0.000	0.000	-0.114	-0.055	0.000
			-	-	-	22:COM9	18:COM5	-
	2550	-ve	1.931	0.000	0.015	0.042	0.034	21.680
			16:COM3	-	16:COM3	28:COM15	16:COM3	20:COM7
			0.000	-10.823	0.000	-0.114	0.000	-4.504
			-	22:COM9	-	22:COM9	-	30:COM17
5773	2656	+ve	3.458	6.073	0.009	0.006	0.000	6.937
			28:COM15	34:CVOL3	16:COM3	28:COM15	-	20:COM7
			-8.538	0.000	-0.000	-0.069	-0.030	0.000
			22:COM9	-	26:COM13	22:COM9	18:COM5	-
	2551	-ve	3.458	0.000	0.009	0.006	0.023	8.222
			28:COM15	-	16:COM3	28:COM15	16:COM3	20:COM7
			-8.538	-5.973	-0.000	-0.069	-0.002	0.000
			22:COM9	35:CVOL4	26:COM13	22:COM9	26:COM13	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
5774	2705	+ve	0.000	1.193	0.000	0.027	0.052	0.093
			-	16:COM3	-	24:COM1	16:COM3	24:COM1
			-3.703	-0.501	-0.034	-0.275	0.000	-2.410
			32:CVOL1	26:COM1	18:COM5	18:COM5	-	18:COM5
	2628	-ve	0.000	0.000	0.000	0.027	0.000	6.106
			-	-	-	24:COM1	-	16:COM3
			-3.703	-5.433	-0.034	-0.275	-0.051	0.000
			32:CVOL1	18:COM5	18:COM5	18:COM5	18:COM5	-
5777	2628	+ve	0.000	5.892	0.005	0.196	0.006	6.379
			-	35:CVOL4	20:COM7	20:COM7	28:COM1	20:COM7
			-4.808	0.000	-0.002	-0.115	-0.012	0.000
			18:COM5	-	30:COM1	30:COM1	22:COM9	-
	2552	-ve	0.000	0.000	0.005	0.196	0.016	7.178
			-	-	20:COM7	20:COM7	20:COM7	16:COM3
			-4.808	-6.046	-0.002	-0.115	-0.009	0.000
			18:COM5	34:CVOL3	30:COM1	30:COM1	30:COM1	-
5778	2627	+ve	0.348	5.580	0.007	0.262	0.004	6.202
			24:COM1	35:CVOL4	20:COM7	20:COM7	28:COM1	16:COM3
			-6.055	0.000	-0.002	-0.097	-0.020	0.000
			18:COM5	-	30:COM1	30:COM1	22:COM9	-
	2553	-ve	0.348	0.000	0.007	0.262	0.021	9.359
			24:COM1	-	20:COM7	20:COM7	20:COM7	16:COM3
			-6.055	-6.313	-0.002	-0.097	-0.005	0.000
			18:COM5	34:CVOL3	30:COM1	30:COM1	30:COM1	-
5780	2555	+ve	4.054	23.420	0.063	0.375	0.085	23.601
			24:COM1	20:COM7	20:COM7	28:COM1	28:COM1	20:COM7
			-5.410	-14.983	-0.062	-0.721	-0.088	-16.556
			18:COM5	30:COM1	30:COM1	22:COM9	22:COM9	30:COM1
	5660	-ve	4.054	17.990	0.063	0.375	0.091	30.686
			24:COM1	28:COM1	20:COM7	28:COM1	20:COM7	28:COM1
			-5.410	-18.729	-0.062	-0.721	-0.090	-34.500
			18:COM5	22:COM9	30:COM1	22:COM9	30:COM1	22:COM9
5781	2552	+ve	0.000	6.841	0.008	0.105	0.016	10.104
			-	34:CVOL3	20:COM7	16:COM3	28:COM1	20:COM7
			-1.623	0.000	-0.007	-0.072	-0.017	0.000
			18:COM5	-	30:COM1	26:COM1	22:COM9	-
	2695	-ve	0.000	0.000	0.008	0.105	0.016	1.472
			-	-	20:COM7	16:COM3	20:COM7	20:COM7
			-1.623	-3.143	-0.007	-0.072	-0.013	-0.334
			18:COM5	22:COM9	30:COM1	26:COM1	30:COM1	30:COM1
5782	2553	+ve	0.000	7.094	0.002	0.158	0.006	11.067
			-	34:CVOL3	16:COM3	24:COM1	24:COM1	16:COM3
			-0.821	0.000	-0.003	-0.204	-0.003	0.000
			22:COM9	-	26:COM1	18:COM5	18:COM5	-
	2694	-ve	0.000	0.000	0.002	0.158	0.004	0.442
			-	-	16:COM3	24:COM1	16:COM3	16:COM3
			-0.821	-3.110	-0.003	-0.204	-0.006	0.000
			22:COM9	18:COM5	26:COM1	18:COM5	26:COM1	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
5784	2397	+ve	0.809	9.009	0.002	0.424	0.009	19.945
			28:COM15	34:CVOL3	24:COM11	28:COM15	20:COM7	34:CVOL3
			-0.704	0.000	-0.005	-0.662	-0.002	0.000
			22:COM9	-	18:COM5	22:COM9	30:COM17	-
	2692	-ve	0.809	0.603	0.002	0.424	0.005	6.287
			28:COM15	28:COM15	24:COM11	28:COM15	24:COM11	20:COM7
			-0.704	-2.395	-0.005	-0.662	-0.013	-2.753
			22:COM9	22:COM9	18:COM5	22:COM9	18:COM5	30:COM17
5794	2554	+ve	0.136	8.227	0.001	0.000	0.008	15.867
			28:COM15	16:COM3	24:COM11	-	16:COM3	16:COM3
			-0.550	0.000	-0.004	-0.128	-0.003	0.000
			22:COM9	-	18:COM5	34:CVOL3	26:COM13	-
	2693	-ve	0.136	0.552	0.001	0.000	0.003	1.644
			28:COM15	24:COM11	24:COM11	-	24:COM11	16:COM3
			-0.550	-3.517	-0.004	-0.128	-0.009	-0.961
			22:COM9	18:COM5	18:COM5	34:CVOL3	18:COM5	26:COM13
5799	2570	+ve	2.268	0.000	0.022	0.619	0.017	24.475
			20:COM7	-	20:COM7	20:COM7	20:COM7	34:CVOL3
			-1.359	-7.118	-0.012	-0.198	-0.017	0.000
			30:COM17	18:COM5	30:COM17	30:COM17	30:COM17	-
	2456	-ve	2.268	0.000	0.022	0.619	0.033	40.278
			20:COM7	-	20:COM7	20:COM7	20:COM7	16:COM3
			-1.359	-9.132	-0.012	-0.198	-0.011	0.000
			30:COM17	18:COM5	30:COM17	30:COM17	30:COM17	-
5800	2571	+ve	5.557	9.550	0.041	0.000	0.046	22.549
			20:COM7	16:COM3	28:COM15	-	20:COM7	16:COM3
			-1.817	0.000	-0.063	-0.799	-0.032	-6.289
			30:COM17	-	22:COM9	18:COM5	30:COM17	26:COM13
	2572	-ve	5.557	7.738	0.041	0.000	0.047	6.383
			20:COM7	16:COM3	28:COM15	-	28:COM15	24:COM17
			-1.817	0.000	-0.063	-0.799	-0.077	-9.565
			30:COM17	-	22:COM9	18:COM5	22:COM9	18:COM5
5801	2572	+ve	4.702	6.860	0.027	0.242	0.034	6.178
			20:COM7	16:COM3	28:COM15	24:COM17	20:COM7	24:COM17
			-1.183	-0.755	-0.040	-0.512	-0.024	-9.599
			30:COM17	26:COM13	22:COM9	18:COM5	30:COM17	18:COM5
	2573	-ve	4.702	5.048	0.027	0.242	0.029	0.000
			20:COM7	16:COM3	28:COM15	24:COM17	28:COM15	-
			-1.183	-2.114	-0.040	-0.512	-0.044	-8.733
			30:COM17	26:COM13	22:COM9	18:COM5	22:COM9	18:COM5
5802	2573	+ve	3.873	3.052	0.016	0.569	0.028	0.000
			20:COM7	24:COM11	28:COM15	16:COM3	20:COM7	-
			-1.046	-2.976	-0.028	-0.158	-0.017	-8.588
			30:COM17	18:COM5	22:COM9	26:COM13	30:COM17	18:COM5
	2574	-ve	3.873	1.693	0.016	0.569	0.014	1.047
			20:COM7	24:COM11	28:COM15	16:COM3	28:COM15	24:COM17
			-1.046	-4.788	-0.028	-0.158	-0.027	-10.309
			30:COM17	18:COM5	22:COM9	26:COM13	22:COM9	18:COM5

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
5803	2574	+ve	4.954	0.000	0.014	0.703	0.016	1.244
			20:COM7	-	24:COM11	16:COM3	20:COM7	24:COM11
			-2.763	-4.779	-0.013	0.000	-0.017	-10.226
			30:COM17	18:COM5	18:COM5	-	30:COM17	18:COM5
	2575	-ve	4.954	0.000	0.014	0.703	0.011	10.426
			20:COM7	-	24:COM11	16:COM3	24:COM11	16:COM3
			-2.763	-6.591	-0.013	0.000	-0.011	-6.749
			30:COM17	18:COM5	18:COM5	-	18:COM5	26:COM13
5804	2575	+ve	5.708	0.000	0.045	1.175	0.009	10.614
			20:COM7	-	20:COM7	16:COM3	24:COM11	16:COM3
			-5.442	-4.735	-0.010	-0.234	-0.037	-6.534
			30:COM17	22:COM9	30:COM17	26:COM13	18:COM5	26:COM13
	2457	-ve	5.708	0.000	0.045	1.175	0.058	19.954
			20:COM7	-	20:COM7	16:COM3	20:COM7	16:COM3
			-5.442	-6.573	-0.010	-0.234	-0.018	0.000
			30:COM17	33:CVOL2	30:COM17	26:COM13	30:COM17	-
5805	2576	+ve	7.661	6.649	0.006	0.000	0.012	10.520
			20:COM7	16:COM3	24:COM11	-	24:COM11	16:COM3
			-7.213	0.000	-0.012	-0.710	-0.009	-4.694
			30:COM17	-	18:COM5	18:COM5	18:COM5	26:COM13
	2577	-ve	7.661	4.837	0.006	0.000	0.003	1.109
			20:COM7	16:COM3	24:COM11	-	24:COM11	24:COM11
			-7.213	0.000	-0.012	-0.710	-0.012	-9.994
			30:COM17	-	18:COM5	18:COM5	18:COM5	18:COM5
5806	2577	+ve	8.087	5.070	0.009	0.224	0.016	0.894
			28:COM15	16:COM3	28:COM15	24:COM11	20:COM7	24:COM11
			-8.356	-0.453	-0.012	-0.629	-0.014	-10.047
			22:COM9	26:COM13	22:COM9	18:COM5	30:COM17	18:COM5
	2578	-ve	8.087	3.258	0.009	0.224	0.005	0.000
			28:COM15	16:COM3	28:COM15	24:COM11	20:COM7	-
			-8.356	-1.812	-0.012	-0.629	-0.008	-9.736
			22:COM9	26:COM13	22:COM9	18:COM5	30:COM17	34:CVOL3
5807	2578	+ve	8.636	1.984	0.008	0.539	0.023	0.000
			28:COM15	24:COM11	28:COM15	16:COM3	20:COM7	-
			-9.431	-3.037	-0.017	-0.277	-0.014	-9.759
			22:COM9	18:COM5	22:COM9	26:COM13	30:COM17	34:CVOL3
	2579	-ve	8.636	0.625	0.008	0.539	0.004	0.802
			28:COM15	24:COM11	28:COM15	16:COM3	28:COM15	24:COM11
			-9.431	-4.849	-0.017	-0.277	-0.011	-10.753
			22:COM9	18:COM5	22:COM9	26:COM13	22:COM9	18:COM5
5808	2579	+ve	9.144	0.000	0.013	0.686	0.017	0.999
			28:COM15	-	28:COM15	16:COM3	20:COM7	24:COM11
			-10.276	-4.906	-0.012	0.000	-0.018	-10.729
			22:COM9	18:COM5	22:COM9	-	30:COM17	18:COM5
	2580	-ve	9.144	0.000	0.013	0.686	0.010	10.303
			28:COM15	-	28:COM15	16:COM3	24:COM11	16:COM3
			-10.276	-6.718	-0.012	0.000	-0.010	-5.427
			22:COM9	18:COM5	22:COM9	-	18:COM5	26:COM13

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
5809	2580	+ve	9.063	0.000	0.038	1.056	0.003	10.482
			28:COM15	-	16:COM3	16:COM3	24:COM11	16:COM3
			-11.927	-5.574	-0.000	-0.222	-0.033	-5.256
			22:COM9	18:COM5	26:COM13	26:COM13	18:COM5	26:COM13
	2458	-ve	9.063	0.000	0.038	1.056	0.048	20.167
			28:COM15	-	16:COM3	16:COM3	20:COM7	16:COM3
			-11.927	-7.386	-0.000	-0.222	-0.003	0.000
			22:COM9	18:COM5	26:COM13	26:COM13	30:COM17	-
5810	2581	+ve	9.953	6.896	0.009	0.000	0.010	11.459
			28:COM15	16:COM3	16:COM3	-	24:COM11	16:COM3
			-11.605	0.000	-0.011	-0.725	-0.009	-4.795
			22:COM9	-	26:COM13	18:COM5	18:COM5	26:COM13
	2582	-ve	9.953	5.084	0.009	0.000	0.010	1.492
			28:COM15	16:COM3	16:COM3	-	16:COM3	24:COM17
			-11.605	0.000	-0.011	-0.725	-0.013	-9.928
			22:COM9	-	26:COM13	18:COM5	26:COM13	18:COM5
5811	2582	+ve	10.149	5.184	0.009	0.224	0.006	1.278
			28:COM15	16:COM3	16:COM3	24:COM17	28:COM15	24:COM17
			-11.947	-0.465	-0.004	-0.617	-0.010	-9.982
			22:COM9	26:COM13	26:COM13	18:COM5	22:COM9	18:COM5
	2583	-ve	10.149	3.371	0.009	0.224	0.014	0.000
			28:COM15	16:COM3	16:COM3	24:COM17	20:COM7	-
			-11.947	-1.824	-0.004	-0.617	-0.008	-9.581
			22:COM9	26:COM13	26:COM13	18:COM5	30:COM17	35:CVOL4
5812	2583	+ve	10.344	2.012	0.006	0.542	0.011	0.000
			28:COM15	24:COM11	24:COM11	16:COM3	20:COM7	-
			-12.137	-3.024	-0.007	-0.263	-0.009	-9.596
			22:COM9	18:COM5	18:COM5	26:COM13	30:COM17	35:CVOL4
	2584	-ve	10.344	0.653	0.006	0.542	0.010	0.791
			28:COM15	24:COM11	24:COM11	16:COM3	20:COM7	24:COM17
			-12.137	-4.837	-0.007	-0.263	-0.008	-10.563
			22:COM9	18:COM5	18:COM5	26:COM13	30:COM17	18:COM5
5813	2584	+ve	10.590	0.000	0.015	0.685	0.009	0.988
			28:COM15	-	16:COM3	16:COM3	28:COM15	24:COM17
			-12.203	-4.884	-0.007	0.000	-0.017	-10.531
			22:COM9	18:COM5	26:COM13	-	22:COM9	18:COM5
	2585	-ve	10.590	0.000	0.015	0.685	0.014	10.297
			28:COM15	-	16:COM3	16:COM3	16:COM3	16:COM3
			-12.203	-6.697	-0.007	0.000	-0.007	-5.232
			22:COM9	18:COM5	26:COM13	-	26:COM13	26:COM13
5814	2585	+ve	10.386	0.000	0.039	1.086	0.001	10.478
			28:COM15	-	16:COM3	16:COM3	24:COM11	16:COM3
			-13.275	-5.562	0.000	-0.226	-0.034	-5.054
			22:COM9	18:COM5	-	26:COM13	18:COM5	26:COM13
	2459	-ve	10.386	0.000	0.039	1.086	0.048	20.080
			28:COM15	-	16:COM3	16:COM3	20:COM7	16:COM3
			-13.275	-7.374	0.000	-0.226	-0.004	0.000
			22:COM9	18:COM5	-	26:COM13	30:COM17	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
5815	2586	+ve	9.872	7.070	0.012	0.000	0.015	11.978
			28:COM15	16:COM3	24:COM11	-	16:COM3	16:COM3
			-10.772	0.000	-0.017	-0.701	-0.011	-4.963
			22:COM9	-	18:COM5	18:COM5	26:COM13	26:COM13
	2587	-ve	9.872	5.258	0.012	0.000	0.014	1.649
			28:COM15	16:COM3	24:COM11	-	24:COM11	24:COM11
			-10.772	0.000	-0.017	-0.701	-0.019	-10.130
			22:COM9	-	18:COM5	18:COM5	18:COM5	18:COM5
5816	2587	+ve	9.374	5.494	0.018	0.215	0.011	1.441
			28:COM15	16:COM3	16:COM3	24:COM11	24:COM11	24:COM11
			-10.069	-0.442	-0.013	-0.602	-0.016	-10.186
			22:COM9	26:COM13	26:COM13	18:COM5	18:COM5	18:COM5
	2588	-ve	9.374	3.682	0.018	0.215	0.021	0.000
			28:COM15	16:COM3	16:COM3	24:COM11	20:COM7	-
			-10.069	-1.801	-0.013	-0.602	-0.016	-10.009
			22:COM9	26:COM13	26:COM13	18:COM5	30:COM17	35:CVOL4
5817	2588	+ve	9.052	2.423	0.021	0.528	0.020	0.000
			28:COM15	24:COM11	28:COM15	16:COM3	20:COM7	-
			-9.546	-2.899	-0.021	-0.270	-0.021	-10.024
			22:COM9	18:COM5	22:COM9	26:COM13	30:COM17	35:CVOL4
	2589	-ve	9.052	1.064	0.021	0.528	0.022	0.490
			28:COM15	24:COM11	28:COM15	16:COM3	28:COM15	24:COM11
			-9.546	-4.712	-0.021	-0.270	-0.023	-11.999
			22:COM9	18:COM5	22:COM9	26:COM13	22:COM9	18:COM5
5818	2589	+ve	9.474	0.000	0.032	0.632	0.031	0.682
			28:COM15	-	28:COM15	16:COM3	28:COM15	24:COM11
			-10.173	-4.818	-0.030	0.000	-0.039	-11.981
			22:COM9	18:COM5	22:COM9	-	22:COM9	18:COM5
	2590	-ve	9.474	0.000	0.032	0.632	0.025	9.493
			28:COM15	-	28:COM15	16:COM3	28:COM15	16:COM3
			-10.173	-6.630	-0.030	0.000	-0.029	-7.629
			22:COM9	18:COM5	22:COM9	-	22:COM9	26:COM13
5819	2590	+ve	11.347	0.000	0.107	0.859	0.048	9.658
			28:COM15	-	20:COM7	16:COM3	28:COM15	16:COM3
			-14.693	-5.364	-0.067	-0.257	-0.076	-7.496
			22:COM9	22:COM9	30:COM17	26:COM13	22:COM9	26:COM13
	2460	-ve	11.347	0.000	0.107	0.859	0.132	19.834
			28:COM15	-	20:COM7	16:COM3	20:COM7	16:COM3
			-14.693	-7.176	-0.067	-0.257	-0.084	-0.343
			22:COM9	22:COM9	30:COM17	26:COM13	30:COM17	26:COM13
5820	2591	+ve	6.802	6.694	0.077	0.088	0.075	8.428
			20:COM7	16:COM3	28:COM15	28:COM15	20:COM7	16:COM3
			-6.843	0.000	-0.100	-0.649	-0.051	-8.072
			30:COM17	-	22:COM9	22:COM9	30:COM17	26:COM13
	2592	-ve	6.802	4.780	0.077	0.088	0.109	0.000
			20:COM7	16:COM3	28:COM15	28:COM15	28:COM15	-
			-6.843	-1.192	-0.100	-0.649	-0.132	-9.539
			30:COM17	26:COM13	22:COM9	22:COM9	22:COM9	18:COM5

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
5821	2592	+ve	5.891	4.348	0.140	0.395	0.121	0.000
			16:COM3	16:COM3	20:COM7	28:COM15	28:COM15	-
			-4.635	-2.930	-0.127	-0.524	-0.135	-9.493
			26:COM13	26:COM13	30:COM17	22:COM9	22:COM9	18:COM5
	2593	-ve	5.891	2.693	0.140	0.395	0.154	0.390
			16:COM3	24:COM11	20:COM7	28:COM15	20:COM7	24:COM17
			-4.635	-4.625	-0.127	-0.524	-0.141	-10.457
			26:COM13	18:COM5	30:COM17	22:COM9	30:COM17	18:COM5
5822	2593	+ve	11.615	1.767	0.090	0.562	0.074	0.452
			20:COM7	24:COM11	20:COM7	20:COM7	28:COM15	24:COM17
			-9.665	-6.697	-0.063	-0.370	-0.107	-10.479
			30:COM17	18:COM5	30:COM17	30:COM17	22:COM9	18:COM5
	2594	-ve	11.615	1.054	0.090	0.562	0.078	13.060
			20:COM7	24:COM11	20:COM7	20:COM7	20:COM7	16:COM3
			-9.665	-7.647	-0.063	-0.370	-0.056	-11.218
			30:COM17	18:COM5	30:COM17	30:COM17	30:COM17	26:COM13
5823	2594	+ve	21.621	0.000	0.109	0.300	0.008	13.123
			20:COM7	-	16:COM3	20:COM7	24:COM11	16:COM3
			-20.129	-8.957	-0.021	-0.117	-0.096	-11.189
			30:COM17	18:COM5	26:COM13	30:COM17	18:COM5	26:COM13
	2462	-ve	21.621	0.000	0.109	0.300	0.139	32.479
			20:COM7	-	16:COM3	20:COM7	16:COM3	16:COM3
			-20.129	-9.907	-0.021	-0.117	-0.047	-9.906
			30:COM17	18:COM5	26:COM13	30:COM17	26:COM13	26:COM13
5824	2595	+ve	5.852	0.000	0.001	0.000	0.026	12.428
			20:COM7	-	28:COM15	-	20:COM7	16:COM3
			-4.949	-3.365	-0.030	-0.380	0.000	-9.042
			30:COM17	22:COM9	22:COM9	18:COM5	-	26:COM13
	2487	-ve	5.852	0.000	0.001	0.000	0.005	16.727
			20:COM7	-	28:COM15	-	28:COM15	16:COM3
			-4.949	-4.040	-0.030	-0.380	-0.034	-4.521
			30:COM17	22:COM9	22:COM9	18:COM5	22:COM9	26:COM13
5825	2596	+ve	6.145	0.905	0.029	0.000	0.018	3.282
			20:COM7	24:COM11	16:COM3	-	24:COM11	24:COM17
			-4.072	-4.871	-0.017	-0.295	-0.031	-9.140
			30:COM17	18:COM5	26:COM13	22:COM9	18:COM5	18:COM5
	2595	-ve	6.145	0.399	0.029	0.000	0.026	12.152
			20:COM7	24:COM11	16:COM3	-	16:COM3	16:COM3
			-4.072	-5.546	-0.017	-0.295	-0.014	-9.126
			30:COM17	18:COM5	26:COM13	22:COM9	26:COM13	26:COM13
5826	2597	+ve	6.300	2.531	0.028	0.000	0.022	0.000
			20:COM7	24:COM11	16:COM3	-	24:COM11	-
			-4.429	-3.403	-0.021	-0.112	-0.025	-5.934
			30:COM17	18:COM5	26:COM13	18:COM5	18:COM5	35:CVOL4
	2596	-ve	6.300	2.025	0.028	0.000	0.029	3.170
			20:COM7	24:COM11	16:COM3	-	16:COM3	24:COM17
			-4.429	-4.077	-0.021	-0.112	-0.019	-9.210
			30:COM17	18:COM5	26:COM13	18:COM5	26:COM13	18:COM5

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
5827	2598	+ve	6.367	4.507	0.017	0.117	0.036	3.749
			20:COM7	16:COM3	24:COM11	16:COM3	16:COM3	24:COM1
			-4.419	-1.757	-0.034	0.000	-0.016	-8.428
			30:COM1	26:COM1	18:COM5	-	26:COM1	18:COM5
	2597	-ve	6.367	3.832	0.017	0.117	0.017	0.000
			20:COM7	16:COM3	24:COM11	16:COM3	24:COM11	-
			-4.419	-2.263	-0.034	0.000	-0.030	-5.932
			30:COM1	26:COM1	18:COM5	-	18:COM5	35:CVOL4
5828	2599	+ve	6.333	5.878	0.010	0.308	0.028	13.717
			20:COM7	16:COM3	24:COM11	16:COM3	16:COM3	16:COM3
			-4.056	-0.210	-0.032	0.000	-0.009	-8.302
			30:COM1	26:COM1	18:COM5	-	26:COM1	26:COM1
	2598	-ve	6.333	5.203	0.010	0.308	0.012	3.863
			20:COM7	16:COM3	24:COM11	16:COM3	24:COM11	24:COM1
			-4.056	-0.716	-0.032	0.000	-0.034	-8.349
			30:COM1	26:COM1	18:COM5	-	18:COM5	18:COM5
5829	2599	+ve	1.150	1.978	0.000	0.000	0.171	0.326
			24:COM1	24:COM11	-	-	16:COM3	24:COM1
			-4.434	-4.348	-0.454	-0.225	0.000	-0.777
			18:COM5	18:COM5	22:COM9	22:COM9	-	18:COM5
	2515	-ve	1.150	1.229	0.000	0.000	0.000	2.973
			24:COM1	24:COM11	-	-	-	16:COM3
			-4.434	-5.648	-0.454	-0.225	-0.171	-0.879
			18:COM5	18:COM5	22:COM9	22:COM9	22:COM9	26:COM1
5830	2598	+ve	0.679	1.514	0.000	0.000	0.123	0.256
			16:COM3	16:COM3	-	-	16:COM3	20:COM7
			-0.484	0.000	-0.301	-0.127	0.000	0.000
			26:COM1	-	18:COM5	18:COM5	-	-
	2516	-ve	0.679	0.292	0.000	0.000	0.000	0.160
			16:COM3	24:COM11	-	-	-	24:COM1
			-0.484	-0.603	-0.301	-0.127	-0.104	-0.412
			26:COM1	18:COM5	18:COM5	18:COM5	18:COM5	18:COM5
5831	2597	+ve	0.832	1.769	0.064	0.019	0.033	0.302
			20:COM7	35:CVOL4	24:COM11	24:COM1	16:COM3	20:COM7
			0.000	0.000	-0.073	-0.020	-0.029	0.000
			-	-	18:COM5	18:COM5	26:COM1	-
	2517	-ve	0.832	0.350	0.064	0.019	0.020	0.000
			20:COM7	20:COM7	24:COM11	24:COM1	24:COM11	-
			0.000	0.000	-0.073	-0.020	-0.022	-0.492
			-	-	18:COM5	18:COM5	18:COM5	35:CVOL4
5832	2596	+ve	0.837	1.637	0.282	0.120	0.001	0.268
			16:COM3	16:COM3	16:COM3	16:COM3	24:COM11	16:COM3
			-0.410	0.000	0.000	0.000	-0.114	0.000
			26:COM1	-	-	-	18:COM5	-
	2518	-ve	0.837	0.371	0.282	0.120	0.098	0.133
			16:COM3	24:COM11	16:COM3	16:COM3	16:COM3	24:COM1
			-0.410	-0.507	0.000	0.000	0.000	-0.490
			26:COM1	18:COM5	-	-	-	18:COM5

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
5833	2595	+ve	1.689	2.568	0.470	0.221	0.000	0.435
			24:COM1	24:COM11	20:COM7	20:COM7	-	24:COM1
			-4.023	-3.781	0.000	0.000	-0.175	-0.684
			18:COM5	18:COM5	-	-	22:COM9	18:COM5
	2519	-ve	1.689	1.818	0.470	0.221	0.177	2.640
			24:COM1	24:COM11	20:COM7	20:COM7	20:COM7	16:COM3
			-4.023	-5.080	0.000	0.000	0.000	-1.210
			18:COM5	18:COM5	-	-	-	26:COM1
5834	2600	+ve	9.530	0.000	1.718	6.586	0.294	44.621
			20:COM7	-	20:COM7	16:COM3	28:COM1	16:COM3
			-4.568	-42.059	-0.477	-2.757	-1.430	-37.236
			30:COM1	18:COM5	30:COM1	26:COM1	22:COM9	26:COM1
	2424	-ve	9.530	0.000	1.718	6.586	1.928	128.819
			20:COM7	-	20:COM7	16:COM3	20:COM7	16:COM3
			-4.568	-44.308	-0.477	-2.757	-0.644	-28.220
			30:COM1	18:COM5	30:COM1	26:COM1	30:COM1	26:COM1
5835	2601	+ve	8.462	2.619	0.499	4.369	0.328	1.654
			20:COM7	24:COM11	20:COM7	20:COM7	20:COM7	24:COM1
			-3.698	-26.052	-0.365	0.000	-0.425	-43.363
			30:COM1	18:COM5	30:COM1	-	30:COM1	18:COM5
	2600	-ve	8.462	0.933	0.499	4.369	0.563	44.833
			20:COM7	24:COM11	20:COM7	20:COM7	20:COM7	16:COM3
			-3.698	-28.301	-0.365	0.000	-0.397	-37.012
			30:COM1	18:COM5	30:COM1	-	30:COM1	26:COM1
5836	2602	+ve	7.371	8.819	0.387	3.611	0.381	0.000
			20:COM7	24:COM11	28:COM1	16:COM3	20:COM7	-
			-1.870	-12.899	-0.400	-0.904	-0.386	-36.787
			30:COM1	18:COM5	22:COM9	26:COM1	30:COM1	35:CVOL4
	2601	-ve	7.371	7.132	0.387	3.611	0.372	1.860
			20:COM7	24:COM11	28:COM1	16:COM3	28:COM1	24:COM1
			-1.870	-15.148	-0.400	-0.904	-0.402	-43.274
			30:COM1	18:COM5	22:COM9	26:COM1	22:COM9	18:COM5
5837	2603	+ve	6.664	18.648	0.122	1.622	0.260	10.705
			20:COM7	16:COM3	24:COM11	24:COM1	16:COM3	24:COM1
			-0.171	-4.609	-0.201	-3.540	-0.161	-40.368
			30:COM1	26:COM1	18:COM5	18:COM5	26:COM1	18:COM5
	2602	-ve	6.664	16.399	0.122	1.622	0.090	0.000
			20:COM7	16:COM3	24:COM11	24:COM1	16:COM3	-
			-0.171	-6.296	-0.201	-3.540	-0.146	-36.785
			30:COM1	26:COM1	18:COM5	18:COM5	26:COM1	35:CVOL4
5838	2604	+ve	5.912	30.893	0.617	0.000	0.791	61.328
			20:COM7	16:COM3	28:COM1	-	20:COM7	16:COM3
			0.000	0.000	-0.997	-5.078	-0.509	-31.530
			-	-	22:COM9	18:COM5	30:COM1	26:COM1
	2603	-ve	5.912	28.645	0.617	0.000	0.701	10.490
			20:COM7	16:COM3	28:COM1	-	28:COM1	24:COM1
			0.000	0.000	-0.997	-5.078	-1.158	-40.436
			-	-	22:COM9	18:COM5	22:COM9	18:COM5

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
5839	2605	+ve	13.468	0.000	0.986	4.948	0.000	43.994
			20:COM7	-	20:COM7	16:COM3	-	16:COM3
			-13.749	-42.418	0.000	-2.721	-0.859	-34.159
			30:COM1	18:COM5	-	26:COM1	18:COM5	26:COM1
	2425	-ve	13.468	0.000	0.986	4.948	1.177	128.839
			20:COM7	-	20:COM7	16:COM3	20:COM7	16:COM3
			-13.749	-44.667	0.000	-2.721	0.000	-20.440
			30:COM1	18:COM5	-	26:COM1	-	26:COM1
5840	2606	+ve	13.232	0.413	0.175	3.669	0.208	0.986
			28:COM1	24:COM1	28:COM1	20:COM7	20:COM7	24:COM1
			-14.473	-26.338	-0.205	0.000	-0.157	-45.118
			22:COM9	18:COM5	22:COM9	-	30:COM1	18:COM5
	2605	-ve	13.232	0.000	0.175	3.669	0.214	44.221
			28:COM1	-	28:COM1	20:COM7	28:COM1	16:COM3
			-14.473	-28.587	-0.205	0.000	-0.220	-33.962
			22:COM9	18:COM5	22:COM9	-	22:COM9	26:COM1
5841	2607	+ve	12.410	6.825	0.106	3.271	0.136	0.000
			28:COM1	24:COM1	24:COM1	16:COM3	16:COM3	-
			-13.380	-13.101	-0.151	-1.831	-0.091	-40.595
			22:COM9	18:COM5	18:COM5	26:COM1	26:COM1	34:CVOL
	2606	-ve	12.410	5.139	0.106	3.271	0.181	1.209
			28:COM1	24:COM1	24:COM1	16:COM3	28:COM1	24:COM1
			-13.380	-15.350	-0.151	-1.831	-0.223	-45.059
			22:COM9	18:COM5	18:COM5	26:COM1	22:COM9	18:COM5
5842	2608	+ve	11.683	16.816	0.233	1.438	0.046	2.502
			28:COM1	16:COM3	16:COM3	24:COM1	24:COM1	24:COM1
			-12.137	-4.344	-0.052	-3.936	-0.230	-41.967
			22:COM9	26:COM1	26:COM1	18:COM5	18:COM5	18:COM5
	2607	-ve	11.683	14.567	0.233	1.438	0.283	0.000
			28:COM1	16:COM3	16:COM3	24:COM1	20:COM7	-
			-12.137	-6.030	-0.052	-3.936	-0.114	-40.614
			22:COM9	26:COM1	26:COM1	18:COM5	30:COM1	34:CVOL
5843	2609	+ve	11.201	30.375	0.499	0.000	0.284	50.111
			20:COM7	16:COM3	20:COM7	-	28:COM1	16:COM3
			-10.876	0.000	-0.258	-4.181	-0.539	-30.411
			30:COM1	-	30:COM1	22:COM9	22:COM9	26:COM1
	2608	-ve	11.201	28.126	0.499	0.000	0.439	2.264
			20:COM7	16:COM3	20:COM7	-	20:COM7	24:COM1
			-10.876	0.000	-0.258	-4.181	-0.225	-42.049
			30:COM1	-	30:COM1	22:COM9	30:COM1	18:COM5
5844	2610	+ve	14.918	0.000	0.919	5.083	0.027	44.058
			28:COM1	-	20:COM7	16:COM3	28:COM1	16:COM3
			-15.658	-42.424	0.000	-2.708	-0.927	-33.891
			22:COM9	18:COM5	-	26:COM1	22:COM9	26:COM1
	2426	-ve	14.918	0.000	0.919	5.083	0.953	128.930
			28:COM1	-	20:COM7	16:COM3	20:COM7	16:COM3
			-15.658	-44.673	0.000	-2.708	0.000	-20.445
			22:COM9	18:COM5	-	26:COM1	-	26:COM1

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
5845	2611	+ve	15.472	0.498	0.263	3.673	0.295	0.923
			28:COM15	24:COM11	28:COM15	16:COM3	20:COM7	24:COM11
			-17.705	-26.349	-0.302	0.000	-0.228	-44.571
			22:COM9	18:COM5	22:COM9	-	30:COM17	18:COM5
	2610	-ve	15.472	0.000	0.263	3.673	0.294	44.285
			28:COM15	-	28:COM15	16:COM3	28:COM15	16:COM3
			-17.705	-28.598	-0.302	0.000	-0.304	-33.688
			22:COM9	18:COM5	22:COM9	-	22:COM9	26:COM13
5846	2612	+ve	15.201	6.850	0.097	3.311	0.173	0.000
			28:COM15	24:COM11	24:COM11	16:COM3	16:COM3	-
			-17.759	-13.111	-0.176	-1.707	-0.085	-40.218
			22:COM9	18:COM5	18:COM5	26:COM13	26:COM13	34:CVOL3
	2611	-ve	15.201	5.163	0.097	3.311	0.167	1.146
			28:COM15	24:COM11	24:COM11	16:COM3	28:COM15	24:COM11
			-17.759	-15.360	-0.176	-1.707	-0.232	-44.509
			22:COM9	18:COM5	18:COM5	26:COM13	22:COM9	18:COM5
5847	2613	+ve	15.170	16.750	0.200	1.452	0.079	2.891
			28:COM15	16:COM3	16:COM3	24:COM11	24:COM11	24:COM11
			-17.840	-4.336	-0.069	-3.858	-0.200	-41.956
			22:COM9	26:COM13	26:COM13	18:COM5	18:COM5	18:COM5
	2612	-ve	15.170	14.501	0.200	1.452	0.256	0.000
			28:COM15	16:COM3	16:COM3	24:COM11	20:COM7	-
			-17.840	-6.023	-0.069	-3.858	-0.121	-40.236
			22:COM9	26:COM13	26:COM13	18:COM5	30:COM17	34:CVOL3
5848	2614	+ve	15.212	30.170	0.381	0.000	0.242	50.188
			28:COM15	16:COM3	20:COM7	-	28:COM15	16:COM3
			-17.711	0.000	-0.232	-4.284	-0.379	-30.405
			22:COM9	-	30:COM17	22:COM9	22:COM9	26:COM13
	2613	-ve	15.212	27.921	0.381	0.000	0.378	2.654
			28:COM15	16:COM3	20:COM7	-	20:COM7	24:COM11
			-17.711	0.000	-0.232	-4.284	-0.226	-42.039
			22:COM9	-	30:COM17	22:COM9	30:COM17	18:COM5
5849	2615	+ve	14.236	0.000	1.773	4.064	0.901	42.760
			16:COM3	-	20:COM7	16:COM3	28:COM15	16:COM3
			-11.890	-41.769	-1.123	-1.955	-1.625	-36.101
			26:COM13	18:COM5	30:COM17	26:COM13	22:COM9	26:COM13
	2427	-ve	14.236	0.000	1.773	4.064	1.837	126.401
			16:COM3	-	20:COM7	16:COM3	20:COM7	16:COM3
			-11.890	-44.018	-1.123	-1.955	-1.294	-24.476
			26:COM13	18:COM5	30:COM17	26:COM13	30:COM17	26:COM13
5850	2616	+ve	14.677	1.032	0.344	3.495	0.431	0.385
			20:COM7	24:COM11	28:COM15	16:COM3	20:COM7	24:COM11
			-13.538	-26.145	-0.394	0.000	-0.460	-46.196
			30:COM17	18:COM5	22:COM9	-	30:COM17	18:COM5
	2615	-ve	14.677	0.000	0.344	3.495	0.234	42.938
			20:COM7	-	28:COM15	16:COM3	28:COM15	16:COM3
			-13.538	-28.394	-0.394	0.000	-0.360	-35.942
			30:COM17	18:COM5	22:COM9	-	22:COM9	26:COM13

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
5851	2617	+ve	15.216	7.294	0.103	3.324	0.140	0.000
			20:COM7	24:COM11	28:COM15	16:COM3	16:COM3	-
			-14.777	-13.010	-0.170	-1.868	-0.058	-40.941
			30:COM17	18:COM5	22:COM9	26:COM13	26:COM13	34:CVOL3
	2616	-ve	15.216	5.607	0.103	3.324	0.207	0.588
			20:COM7	24:COM11	28:COM15	16:COM3	28:COM15	24:COM17
			-14.777	-15.259	-0.170	-1.868	-0.257	-46.138
			30:COM17	18:COM5	22:COM9	26:COM13	22:COM9	18:COM5
5852	2618	+ve	15.991	17.278	0.206	1.396	0.231	3.407
			28:COM15	16:COM3	20:COM7	24:COM17	28:COM15	24:COM17
			-16.323	-4.311	-0.172	-3.841	-0.272	-42.495
			22:COM9	26:COM13	30:COM17	18:COM5	22:COM9	18:COM5
	2617	-ve	15.991	15.029	0.206	1.396	0.147	0.000
			28:COM15	16:COM3	20:COM7	24:COM17	20:COM7	-
			-16.323	-5.998	-0.172	-3.841	-0.121	-40.943
			22:COM9	26:COM13	30:COM17	18:COM5	30:COM17	34:CVOL3
5853	2619	+ve	16.567	30.670	0.197	0.000	0.303	51.736
			28:COM15	16:COM3	20:COM7	-	28:COM15	16:COM3
			-17.128	0.000	-0.232	-4.183	-0.238	-30.828
			22:COM9	-	30:COM17	22:COM9	22:COM9	26:COM13
	2618	-ve	16.567	28.422	0.197	0.000	0.160	3.193
			28:COM15	16:COM3	20:COM7	-	20:COM7	24:COM17
			-17.128	0.000	-0.232	-4.183	-0.164	-42.569
			22:COM9	-	30:COM17	22:COM9	30:COM17	18:COM5
5854	2620	+ve	3.341	0.000	1.365	7.014	1.548	51.243
			16:COM3	-	20:COM7	20:COM7	28:COM15	20:COM7
			-1.086	-41.854	-1.239	-2.083	-1.702	-35.703
			26:COM13	22:COM9	30:COM17	30:COM17	22:COM9	30:COM17
	2428	-ve	3.341	0.000	1.365	7.014	1.022	136.501
			16:COM3	-	20:COM7	20:COM7	20:COM7	20:COM7
			-1.086	-44.141	-1.239	-2.083	-0.925	-30.129
			26:COM13	22:COM9	30:COM17	30:COM17	30:COM17	30:COM17
5855	2621	+ve	3.004	3.268	3.299	7.183	4.160	2.127
			24:COM17	28:COM15	28:COM15	20:COM7	20:COM7	28:COM15
			-4.284	-28.061	-3.730	-3.413	-3.437	-39.500
			18:COM5	22:COM9	22:COM9	30:COM17	30:COM17	22:COM9
	2620	-ve	3.004	1.552	3.299	7.183	3.107	51.286
			24:COM17	28:COM15	28:COM15	20:COM7	28:COM15	20:COM7
			-4.284	-30.348	-3.730	-3.413	-3.240	-35.517
			18:COM5	22:COM9	22:COM9	30:COM17	22:COM9	30:COM17
5856	2622	+ve	3.748	6.790	2.545	4.595	3.332	0.000
			28:COM15	28:COM15	28:COM15	20:COM7	20:COM7	-
			-4.903	-14.947	-3.592	-2.538	-2.130	-39.982
			22:COM9	22:COM9	22:COM9	30:COM17	30:COM17	35:CVOL4
	2621	-ve	3.748	5.075	2.545	4.595	2.918	2.166
			28:COM15	28:COM15	28:COM15	20:COM7	28:COM15	28:COM15
			-4.903	-17.234	-3.592	-2.538	-3.792	-39.301
			22:COM9	22:COM9	22:COM9	30:COM17	22:COM9	22:COM9

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
5857	2623	+ve	2.451	10.630	0.848	0.646	2.767	0.000
			28:COM1	20:COM7	28:COM1	28:COM1	20:COM7	-
			-4.575	-3.800	-1.807	-1.234	-1.837	-45.515
			22:COM9	30:COM1	22:COM9	22:COM9	30:COM1	22:COM9
	2622	-ve	2.451	8.343	0.848	0.646	0.000	0.000
			28:COM1	20:COM7	28:COM1	28:COM1	-	-
			-4.575	-5.516	-1.807	-1.234	-0.841	-39.921
			22:COM9	30:COM1	22:COM9	22:COM9	22:COM9	35:CVOL4
5858	2624	+ve	2.892	18.232	2.796	2.684	4.394	22.334
			28:COM1	20:COM7	28:COM1	28:COM1	20:COM7	28:COM1
			-3.536	0.000	-4.560	-5.322	-2.279	-29.638
			22:COM9	-	22:COM9	22:COM9	30:COM1	22:COM9
	2623	-ve	2.892	15.944	2.796	2.684	3.269	0.000
			28:COM1	20:COM7	28:COM1	28:COM1	28:COM1	-
			-3.536	0.000	-4.560	-5.322	-4.651	-45.360
			22:COM9	-	22:COM9	22:COM9	22:COM9	22:COM9
5859	2625	+ve	9.555	28.841	0.000	3.090	3.346	74.528
			20:COM7	20:COM7	-	28:COM1	20:COM7	20:COM7
			0.000	0.000	-2.511	-6.581	0.000	-6.753
			-	-	34:CVOL3	22:COM9	-	30:COM1
	2624	-ve	9.555	26.554	0.000	3.090	0.000	22.020
			20:COM7	20:COM7	-	28:COM1	-	28:COM1
			0.000	0.000	-2.511	-6.581	-2.853	-29.737
			-	-	34:CVOL3	22:COM9	22:COM9	22:COM9
5861	2627	+ve	2.700	11.241	0.349	1.812	0.060	9.592
			20:COM7	16:COM3	20:COM7	24:COM1	24:COM1	24:COM1
			-3.595	-2.989	-0.108	-8.756	-0.183	-10.223
			30:COM1	26:COM1	30:COM1	18:COM5	18:COM5	18:COM5
	2774	-ve	2.700	9.943	0.349	1.812	0.302	0.000
			20:COM7	16:COM3	20:COM7	24:COM1	20:COM7	-
			-3.595	-3.963	-0.108	-8.756	-0.155	-7.519
			30:COM1	26:COM1	30:COM1	18:COM5	30:COM1	18:COM5
5862	2628	+ve	3.210	24.057	0.769	3.462	0.000	52.076
			28:COM1	16:COM3	20:COM7	24:COM1	-	16:COM3
			-5.245	0.000	0.000	-6.444	-0.822	-7.272
			22:COM9	-	-	18:COM5	22:COM9	26:COM1
	2627	-ve	3.210	21.890	0.769	3.462	0.632	9.525
			28:COM1	16:COM3	20:COM7	24:COM1	20:COM7	24:COM1
			-5.245	0.000	0.000	-6.444	0.000	-10.313
			22:COM9	-	-	18:COM5	-	18:COM5
5865	2631	+ve	15.514	0.000	0.049	0.000	1.527	45.957
			20:COM7	-	28:COM1	-	20:COM7	16:COM3
			-3.499	-37.244	-1.931	-9.169	0.000	-26.622
			30:COM1	18:COM5	22:COM9	22:COM9	-	26:COM1
	2430	-ve	15.514	0.000	0.049	0.000	0.216	120.800
			20:COM7	-	28:COM1	-	28:COM1	16:COM3
			-3.499	-39.498	-1.931	-9.169	-2.252	-13.723
			30:COM1	18:COM5	22:COM9	22:COM9	22:COM9	26:COM1

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
5866	2632	+ve	13.859	0.000	0.000	0.000	0.575	5.446
			20:COM7	-	-	-	20:COM7	24:COM1
			-3.607	-23.604	-0.521	-5.799	0.000	-39.550
			30:COM1	18:COM5	22:COM9	22:COM9	-	18:COM5
	2631	-ve	13.859	0.000	0.000	0.000	0.000	46.038
			20:COM7	-	-	-	-	16:COM3
			-3.607	-25.859	-0.521	-5.799	-0.464	-26.560
			30:COM1	18:COM5	22:COM9	22:COM9	22:COM9	26:COM1
5867	2633	+ve	13.472	3.026	0.050	0.000	0.254	0.000
			20:COM7	24:COM1	24:COM1	-	16:COM3	-
			-1.569	-13.473	-0.215	-4.285	-0.040	-40.380
			30:COM1	18:COM5	18:COM5	18:COM5	26:COM1	18:COM5
	2632	-ve	13.472	1.335	0.050	0.000	0.069	5.505
			20:COM7	24:COM1	24:COM1	-	24:COM1	24:COM1
			-1.569	-15.728	-0.215	-4.285	-0.177	-39.559
			30:COM1	18:COM5	18:COM5	18:COM5	18:COM5	18:COM5
5868	2634	+ve	12.596	9.288	0.151	1.520	0.108	0.000
			16:COM3	16:COM3	16:COM3	24:COM1	24:COM1	-
			0.000	-5.439	-0.082	-1.715	-0.127	-42.171
			-	26:COM1	26:COM1	18:COM5	18:COM5	18:COM5
	2633	-ve	12.596	7.033	0.151	1.520	0.177	0.000
			16:COM3	16:COM3	16:COM3	24:COM1	16:COM3	-
			0.000	-7.131	-0.082	-1.715	-0.061	-40.412
			-	26:COM1	26:COM1	18:COM5	26:COM1	18:COM5
5869	2635	+ve	11.804	18.115	0.325	4.070	0.030	13.722
			16:COM3	16:COM3	16:COM3	16:COM3	24:COM1	24:COM1
			0.000	0.000	-0.007	0.000	-0.297	-36.762
			-	-	26:COM1	-	18:COM5	18:COM5
	2634	-ve	11.804	15.860	0.325	4.070	0.342	0.000
			16:COM3	16:COM3	16:COM3	16:COM3	16:COM3	-
			0.000	-1.626	-0.007	0.000	0.000	-42.181
			-	26:COM1	26:COM1	-	-	18:COM5
5870	2636	+ve	10.451	28.013	0.567	6.024	0.399	61.195
			16:COM3	16:COM3	20:COM7	20:COM7	28:COM1	16:COM3
			0.000	0.000	-0.154	0.000	-0.559	-22.896
			-	-	30:COM1	-	22:COM9	26:COM1
	2635	-ve	10.451	25.758	0.567	6.024	0.563	13.653
			16:COM3	16:COM3	20:COM7	20:COM7	20:COM7	24:COM1
			0.000	0.000	-0.154	0.000	0.000	-36.794
			-	-	30:COM1	-	-	18:COM5
5871	2637	+ve	21.354	0.000	0.422	0.000	1.452	54.374
			20:COM7	-	28:COM1	-	20:COM7	16:COM3
			-11.142	-35.944	-1.807	-7.206	-0.204	-28.182
			30:COM1	18:COM5	22:COM9	22:COM9	30:COM1	26:COM1
	2431	-ve	21.354	0.000	0.422	0.000	0.642	127.468
			20:COM7	-	28:COM1	-	28:COM1	16:COM3
			-11.142	-38.218	-1.807	-7.206	-2.124	-13.234
			30:COM1	18:COM5	22:COM9	22:COM9	22:COM9	26:COM1

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
5872	2638	+ve	23.245	0.000	0.061	0.000	0.566	8.360
			20:COM7	-	24:COM11	-	16:COM3	24:COM11
			-14.350	-24.710	-0.552	-5.471	0.000	-38.921
			30:COM17	18:COM5	18:COM5	18:COM5	-	18:COM5
	2637	-ve	23.245	0.000	0.061	0.000	0.136	54.298
			20:COM7	-	24:COM11	-	24:COM11	16:COM3
			-14.350	-26.985	-0.552	-5.471	-0.537	-28.182
			30:COM17	18:COM5	18:COM5	18:COM5	18:COM5	26:COM13
5873	2639	+ve	22.885	2.516	0.159	0.000	0.163	0.000
			20:COM7	24:COM11	24:COM11	-	16:COM3	-
			-13.150	-16.450	-0.173	-5.705	-0.089	-44.229
			30:COM17	18:COM5	18:COM5	18:COM5	26:COM13	18:COM5
	2638	-ve	22.885	0.810	0.159	0.000	0.259	9.126
			20:COM7	24:COM11	24:COM11	-	16:COM3	24:COM11
			-13.150	-18.726	-0.173	-5.705	-0.214	-40.327
			30:COM17	18:COM5	18:COM5	18:COM5	26:COM13	18:COM5
5874	2640	+ve	22.335	8.804	0.124	1.357	0.157	0.000
			20:COM7	16:COM3	24:COM11	24:COM11	16:COM3	-
			-12.377	-6.254	-0.125	-2.650	-0.108	-42.228
			30:COM17	26:COM13	18:COM5	18:COM5	26:COM13	18:COM5
	2639	-ve	22.335	6.969	0.124	1.357	0.186	0.000
			20:COM7	24:COM11	24:COM11	24:COM11	16:COM3	-
			-12.377	-8.401	-0.125	-2.650	-0.138	-43.714
			30:COM17	18:COM5	18:COM5	18:COM5	26:COM13	18:COM5
5875	2641	+ve	21.281	17.562	0.216	4.069	0.097	10.016
			20:COM7	16:COM3	16:COM3	16:COM3	24:COM11	24:COM11
			-11.557	-0.333	-0.078	0.000	-0.189	-38.558
			30:COM17	26:COM13	26:COM13	-	18:COM5	18:COM5
	2640	-ve	21.281	15.287	0.216	4.069	0.261	0.000
			20:COM7	16:COM3	16:COM3	16:COM3	16:COM3	-
			-11.557	-2.039	-0.078	0.000	-0.081	-42.125
			30:COM17	26:COM13	26:COM13	-	26:COM13	18:COM5
5876	2642	+ve	19.664	27.702	0.698	5.848	0.156	56.233
			20:COM7	16:COM3	20:COM7	20:COM7	28:COM15	16:COM3
			-11.079	0.000	-0.079	0.000	-0.701	-24.654
			30:COM17	-	30:COM17	-	22:COM9	26:COM13
	2641	-ve	19.664	25.426	0.698	5.848	0.681	9.972
			20:COM7	16:COM3	20:COM7	20:COM7	20:COM7	24:COM11
			-11.079	0.000	-0.079	0.000	-0.005	-38.446
			30:COM17	-	30:COM17	-	30:COM17	18:COM5
5877	2643	+ve	12.556	0.000	1.515	4.745	4.091	22.804
			28:COM15	-	24:COM11	24:COM11	16:COM3	16:COM3
			-14.378	-25.914	-3.055	-5.706	-2.549	-5.194
			22:COM9	18:COM5	18:COM5	18:COM5	26:COM13	26:COM13
	2433	-ve	12.556	0.000	1.515	4.745	0.632	76.070
			28:COM15	-	24:COM11	24:COM11	28:COM15	16:COM3
			-14.378	-28.187	-3.055	-5.706	-2.125	0.000
			22:COM9	18:COM5	18:COM5	18:COM5	22:COM9	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
5878	2644	+ve	10.653	0.000	0.947	4.373	1.282	0.000
			28:COM15	-	28:COM15	24:COM17	20:COM7	-
			-10.614	-14.515	-1.381	-4.016	-1.079	-23.400
			22:COM9	18:COM5	22:COM9	18:COM5	30:COM17	18:COM5
	2643	-ve	10.653	0.000	0.947	4.373	2.140	22.995
			28:COM15	-	28:COM15	24:COM17	24:COM11	16:COM3
			-10.614	-16.788	-1.381	-4.016	-2.792	-5.076
			22:COM9	18:COM5	22:COM9	18:COM5	18:COM5	26:COM13
5879	2645	+ve	7.401	0.000	3.323	3.563	2.501	0.000
			20:COM7	-	16:COM3	24:COM17	24:COM11	-
			-6.119	-6.467	-2.772	-3.191	-2.974	-32.368
			30:COM17	18:COM5	26:COM13	18:COM5	18:COM5	18:COM5
	2644	-ve	7.401	0.000	3.323	3.563	3.577	0.000
			20:COM7	-	16:COM3	24:COM17	16:COM3	-
			-6.119	-8.740	-2.772	-3.191	-2.963	-23.310
			30:COM17	18:COM5	26:COM13	18:COM5	26:COM13	18:COM5
5880	2646	+ve	9.133	3.320	3.895	1.275	3.434	0.000
			16:COM3	16:COM3	16:COM3	24:COM17	24:COM11	-
			-6.069	-0.924	-3.030	-1.877	-4.275	-29.483
			26:COM13	26:COM13	26:COM13	18:COM5	18:COM5	34:CVOL3
	2645	-ve	9.133	1.329	3.895	1.275	3.408	0.000
			16:COM3	24:COM11	16:COM3	24:COM17	16:COM3	-
			-6.069	-2.911	-3.030	-1.877	-2.545	-32.427
			26:COM13	18:COM5	26:COM13	18:COM5	26:COM13	18:COM5
5881	2647	+ve	12.490	11.604	1.417	1.567	0.978	0.000
			16:COM3	16:COM3	16:COM3	24:COM17	24:COM11	-
			-7.785	0.000	-0.217	-2.777	-2.084	-20.441
			26:COM13	-	26:COM13	18:COM5	18:COM5	18:COM5
	2646	-ve	12.490	9.331	1.417	1.567	2.648	0.000
			16:COM3	16:COM3	16:COM3	24:COM17	16:COM3	-
			-7.785	-0.412	-0.217	-2.777	-1.388	-29.518
			26:COM13	26:COM13	26:COM13	18:COM5	26:COM13	34:CVOL3
5882	2648	+ve	17.025	22.696	5.114	5.461	4.552	34.588
			20:COM7	16:COM3	16:COM3	16:COM3	24:COM11	16:COM3
			-11.735	0.000	-4.249	-5.684	-5.041	-11.890
			30:COM17	-	26:COM13	26:COM13	18:COM5	26:COM13
	2647	-ve	17.025	20.422	5.114	5.461	5.045	0.000
			20:COM7	16:COM3	16:COM3	16:COM3	16:COM3	-
			-11.735	0.000	-4.249	-5.684	-3.829	-20.546
			30:COM17	-	26:COM13	26:COM13	26:COM13	18:COM5
5883	6170	+ve	26.253	0.000	6.038	4.679	5.258	40.714
			16:COM3	-	28:COM15	20:COM7	28:COM15	16:COM3
			-23.490	-34.846	-6.054	-3.971	-5.320	-34.534
			26:COM13	18:COM5	22:COM9	30:COM17	22:COM9	26:COM13
	2414	-ve	26.253	0.000	6.038	4.679	7.087	113.337
			16:COM3	-	28:COM15	20:COM7	28:COM15	16:COM3
			-23.490	-37.212	-6.054	-3.971	-7.181	-28.077
			26:COM13	18:COM5	22:COM9	30:COM17	22:COM9	26:COM13

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
5884	6169	+ve	15.558	4.143	1.747	3.506	1.266	0.308
			24:COM1	24:COM11	20:COM7	20:COM7	28:COM15	24:COM1
			-16.965	-22.895	-1.738	-2.534	-1.400	-36.780
			18:COM5	18:COM5	30:COM1	30:COM1	22:COM9	18:COM5
	6170	-ve	15.558	2.354	1.747	3.506	2.263	41.074
			24:COM1	24:COM11	20:COM7	20:COM7	28:COM15	16:COM3
			-16.965	-25.281	-1.738	-2.534	-2.379	-34.434
			18:COM5	18:COM5	30:COM1	30:COM1	22:COM9	26:COM1
5885	6168	+ve	13.314	11.574	0.982	2.972	1.332	0.000
			24:COM1	24:COM11	24:COM11	28:COM15	16:COM3	-
			-16.582	-12.161	-1.120	-3.478	-1.146	-36.489
			18:COM5	18:COM5	18:COM5	22:COM9	26:COM1	18:COM5
	6169	-ve	13.314	9.786	0.982	2.972	0.885	0.538
			24:COM1	24:COM11	24:COM11	28:COM15	24:COM11	24:COM1
			-16.582	-14.545	-1.120	-3.478	-0.984	-36.604
			18:COM5	18:COM5	18:COM5	22:COM9	18:COM5	18:COM5
5886	6167	+ve	13.087	24.646	0.677	2.481	1.076	34.760
			24:COM1	16:COM3	24:COM11	28:COM15	16:COM3	24:COM1
			-18.946	-5.172	-1.243	-4.654	-0.476	-40.218
			18:COM5	26:COM1	18:COM5	22:COM9	26:COM1	18:COM5
	6168	-ve	13.087	22.263	0.677	2.481	1.078	0.000
			24:COM1	16:COM3	24:COM11	28:COM15	24:COM11	-
			-18.946	-6.959	-1.243	-4.654	-1.646	-36.244
			18:COM5	26:COM1	18:COM5	22:COM9	18:COM5	18:COM5
5889	2655	+ve	81.438	46.781	7.489	2.354	0.000	141.043
			34:CVOL3	34:CVOL3	34:CVOL3	24:COM1	-	34:CVOL3
			0.000	0.000	0.000	-1.732	-7.860	0.000
			-	-	-	18:COM5	34:CVOL3	-
	2735	-ve	81.438	43.434	7.489	2.354	6.629	54.421
			34:CVOL3	34:CVOL3	34:CVOL3	24:COM1	34:CVOL3	32:CVOL1
			0.000	0.000	0.000	-1.732	0.000	0.000
			-	-	-	18:COM5	-	-
5890	2656	+ve	128.407	66.280	5.159	4.710	0.000	237.440
			34:CVOL3	34:CVOL3	16:COM3	20:COM7	-	34:CVOL3
			0.000	0.000	0.000	-1.172	-3.917	0.000
			-	-	-	30:COM1	18:COM5	-
	2655	-ve	128.407	63.455	5.159	4.710	4.620	131.518
			34:CVOL3	34:CVOL3	16:COM3	20:COM7	34:CVOL3	34:CVOL3
			0.000	0.000	0.000	-1.172	0.000	0.000
			-	-	-	30:COM1	-	-
5891	2551	+ve	256.370	0.000	20.127	30.853	9.001	295.169
			34:CVOL3	-	20:COM7	28:COM15	28:COM15	34:CVOL3
			0.000	-104.621	-11.402	-36.189	-17.052	0.000
			-	22:COM9	30:COM1	22:COM9	22:COM9	-
	2415	-ve	256.370	0.000	20.127	30.853	15.900	455.337
			34:CVOL3	-	20:COM7	28:COM15	20:COM7	34:CVOL3
			0.000	-108.019	-11.402	-36.189	-9.667	0.000
			-	22:COM9	30:COM1	22:COM9	30:COM1	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
5892	2550	+ve	185.038	0.000	2.414	10.461	4.562	180.159
			34:CVOL3	-	28:COM15	28:COM15	20:COM7	34:CVOL3
			0.000	-80.161	-3.980	-10.936	-1.400	0.000
			-	22:COM9	22:COM9	22:COM9	30:COM17	-
	2551	-ve	185.038	0.000	2.414	10.461	2.678	309.797
			34:CVOL3	-	28:COM15	28:COM15	20:COM7	34:CVOL3
			0.000	-83.551	-3.980	-10.936	-2.073	0.000
			-	22:COM9	22:COM9	22:COM9	30:COM17	-
5893	2657	+ve	5.927	0.000	0.001	0.127	0.110	15.505
			20:COM7	-	24:COM11	24:COM11	16:COM3	16:COM3
			-5.248	-7.597	-0.127	-1.041	-0.005	-6.644
			30:COM17	18:COM5	18:COM5	18:COM5	26:COM13	26:COM13
	2467	-ve	5.927	0.000	0.001	0.127	0.000	25.572
			20:COM7	-	24:COM11	24:COM11	-	16:COM3
			-5.248	-9.296	-0.127	-1.041	-0.140	0.000
			30:COM17	18:COM5	18:COM5	18:COM5	18:COM5	-
5894	2658	+ve	7.228	0.000	0.038	0.000	0.019	3.647
			20:COM7	-	16:COM3	-	24:COM11	24:COM11
			-2.169	-6.253	-0.012	-0.744	-0.043	-13.556
			30:COM17	18:COM5	26:COM13	18:COM5	18:COM5	18:COM5
	2657	-ve	7.228	0.000	0.038	0.000	0.033	15.330
			20:COM7	-	16:COM3	-	16:COM3	16:COM3
			-2.169	-7.951	-0.012	-0.744	-0.005	-6.764
			30:COM17	18:COM5	26:COM13	18:COM5	26:COM13	26:COM13
5895	2659	+ve	7.327	1.379	0.056	0.026	0.025	0.000
			20:COM7	24:COM11	16:COM3	24:COM11	24:COM11	-
			-0.954	-4.725	-0.021	-0.532	-0.048	-14.119
			30:COM17	18:COM5	26:COM13	18:COM5	18:COM5	18:COM5
	2658	-ve	7.327	0.106	0.056	0.026	0.061	3.507
			20:COM7	24:COM11	16:COM3	24:COM11	16:COM3	24:COM11
			-0.954	-6.423	-0.021	-0.532	-0.017	-13.629
			30:COM17	18:COM5	26:COM13	18:COM5	26:COM13	18:COM5
5896	2660	+ve	6.708	4.286	0.020	0.178	0.028	0.000
			20:COM7	16:COM3	24:COM11	16:COM3	16:COM3	-
			-0.052	-1.990	-0.022	-0.190	-0.015	-14.457
			30:COM17	26:COM13	18:COM5	26:COM13	26:COM13	18:COM5
	2659	-ve	6.708	2.594	0.020	0.178	0.026	0.000
			20:COM7	24:COM11	24:COM11	16:COM3	16:COM3	-
			-0.052	-3.271	-0.022	-0.190	-0.017	-14.112
			30:COM17	18:COM5	18:COM5	26:COM13	26:COM13	18:COM5
5897	2661	+ve	5.831	7.560	0.006	0.492	0.055	6.874
			20:COM7	16:COM3	24:COM11	16:COM3	16:COM3	24:COM11
			0.000	0.000	-0.049	0.000	-0.002	-12.329
			-	-	18:COM5	-	26:COM13	18:COM5
	2660	-ve	5.831	5.862	0.006	0.492	0.009	0.000
			20:COM7	16:COM3	24:COM11	16:COM3	24:COM11	-
			0.000	-0.934	-0.049	0.000	-0.040	-14.461
			-	26:COM13	18:COM5	-	18:COM5	18:COM5

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
5898	2662	+ve	4.797	9.502	0.005	0.784	0.043	22.889
			20:COM7	16:COM3	28:COM15	20:COM7	20:COM7	16:COM3
			0.000	0.000	-0.044	0.000	-0.005	-6.923
			-	-	22:COM9	-	30:COM17	26:COM13
	2661	-ve	4.797	7.803	0.005	0.784	0.006	7.001
			20:COM7	16:COM3	28:COM15	20:COM7	28:COM15	24:COM11
			0.000	0.000	-0.044	0.000	-0.043	-12.243
			-	-	22:COM9	-	22:COM9	18:COM5
5899	2663	+ve	13.442	0.000	0.039	0.000	0.104	19.447
			20:COM7	-	28:COM15	-	20:COM7	16:COM3
			-11.297	-6.488	-0.134	-0.724	-0.018	-8.332
			30:COM17	18:COM5	22:COM9	18:COM5	30:COM17	26:COM13
	2468	-ve	13.442	0.000	0.039	0.000	0.060	30.460
			20:COM7	-	28:COM15	-	28:COM15	16:COM3
			-11.297	-8.204	-0.134	-0.724	-0.161	0.000
			30:COM17	18:COM5	22:COM9	18:COM5	22:COM9	-
5900	2664	+ve	12.528	0.000	0.026	0.000	0.030	7.626
			20:COM7	-	24:COM11	-	16:COM3	24:COM11
			-7.490	-5.528	-0.022	-0.750	-0.030	-14.349
			30:COM17	18:COM5	18:COM5	18:COM5	26:COM13	18:COM5
	2663	-ve	12.528	0.000	0.026	0.000	0.023	19.241
			20:COM7	-	24:COM11	-	16:COM3	16:COM3
			-7.490	-7.243	-0.022	-0.750	-0.014	-8.402
			30:COM17	18:COM5	18:COM5	18:COM5	26:COM13	26:COM13
5901	2665	+ve	12.187	1.828	0.016	0.000	0.008	0.000
			20:COM7	24:COM11	20:COM7	-	28:COM15	-
			-6.596	-3.373	-0.008	-0.505	-0.009	-15.044
			30:COM17	18:COM5	30:COM17	18:COM5	22:COM9	18:COM5
	2664	-ve	12.187	0.541	0.016	0.000	0.024	3.235
			20:COM7	24:COM11	20:COM7	-	20:COM7	24:COM11
			-6.596	-5.088	-0.008	-0.505	-0.009	-16.491
			30:COM17	18:COM5	30:COM17	18:COM5	30:COM17	18:COM5
5902	2666	+ve	11.506	4.506	0.012	0.152	0.021	0.000
			20:COM7	16:COM3	28:COM15	24:COM11	16:COM3	-
			-6.055	-1.506	-0.021	-0.236	-0.007	-14.557
			30:COM17	26:COM13	22:COM9	18:COM5	26:COM13	18:COM5
	2665	-ve	11.506	2.791	0.012	0.152	0.020	0.000
			20:COM7	16:COM3	28:COM15	24:COM11	20:COM7	-
			-6.055	-2.792	-0.021	-0.236	-0.022	-15.564
			30:COM17	26:COM13	22:COM9	18:COM5	30:COM17	18:COM5
5903	2667	+ve	10.777	7.151	0.023	0.497	0.054	5.547
			20:COM7	16:COM3	24:COM11	16:COM3	16:COM3	24:COM11
			-5.407	0.000	-0.049	-0.060	-0.021	-12.727
			30:COM17	-	18:COM5	26:COM13	26:COM13	18:COM5
	2666	-ve	10.777	5.436	0.023	0.497	0.025	0.000
			20:COM7	16:COM3	24:COM11	16:COM3	24:COM11	-
			-5.407	-0.875	-0.049	-0.060	-0.042	-14.591
			30:COM17	26:COM13	18:COM5	26:COM13	18:COM5	18:COM5

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
5904	2668	+ve	9.243	8.255	0.014	0.747	0.021	18.932
			20:COM7	16:COM3	24:COM11	20:COM7	20:COM7	16:COM3
			-4.840	0.000	-0.027	0.000	-0.007	-6.409
			30:COM17	-	18:COM5	-	30:COM17	26:COM13
	2667	-ve	9.243	6.540	0.014	0.747	0.023	5.693
			20:COM7	16:COM3	24:COM11	20:COM7	24:COM11	24:COM11
			-4.840	0.000	-0.027	0.000	-0.036	-12.666
			30:COM17	-	18:COM5	-	18:COM5	18:COM5
5905	2671	+ve	9.316	6.836	0.095	0.672	0.115	12.356
			20:COM7	35:CVOL4	24:COM11	16:COM3	16:COM3	16:COM3
			-5.183	0.000	-0.115	-0.473	-0.087	-1.438
			30:COM17	-	18:COM5	26:COM13	26:COM13	26:COM13
	2670	-ve	9.316	5.123	0.095	0.672	0.101	2.587
			20:COM7	35:CVOL4	24:COM11	16:COM3	24:COM11	24:COM11
			-5.183	0.000	-0.115	-0.473	-0.113	-9.815
			30:COM17	-	18:COM5	26:COM13	18:COM5	18:COM5
5907	2673	+ve	8.043	78.693	3.213	0.037	3.764	14.849
			28:COM15	16:COM3	28:COM15	24:COM11	20:COM7	16:COM3
			-9.812	-66.295	-3.817	-3.488	-3.164	-0.700
			22:COM9	26:COM13	22:COM9	18:COM5	30:COM17	26:COM13
	5468	-ve	8.043	76.367	3.213	0.037	3.363	134.900
			28:COM15	16:COM3	28:COM15	24:COM11	28:COM15	24:COM11
			-9.812	-68.039	-3.817	-3.488	-3.983	-141.648
			22:COM9	26:COM13	22:COM9	18:COM5	22:COM9	18:COM5
5911	2548	+ve	23.970	114.849	5.681	11.103	4.204	12.766
			16:COM3	16:COM3	20:COM7	20:COM7	28:COM15	24:COM11
			-12.492	-103.611	-4.635	-7.689	-5.303	-14.981
			26:COM13	26:COM13	30:COM17	30:COM17	22:COM9	18:COM5
	5482	-ve	23.970	112.058	5.681	11.103	6.153	196.799
			16:COM3	16:COM3	20:COM7	20:COM7	20:COM7	24:COM11
			-12.492	-105.704	-4.635	-7.689	-5.144	-216.752
			26:COM13	26:COM13	30:COM17	30:COM17	30:COM17	18:COM5
5920	2759	+ve	7.115	23.917	0.261	1.652	0.379	33.309
			20:COM7	34:CVOL3	16:COM3	24:COM11	16:COM3	34:CVOL3
			0.000	0.000	-0.105	-25.110	-0.132	0.000
			-	-	26:COM13	18:COM5	26:COM13	-
	2482	-ve	7.115	16.689	0.261	1.652	0.576	0.000
			20:COM7	34:CVOL3	16:COM3	24:COM11	16:COM3	-
			0.000	0.000	-0.105	-25.110	0.000	-15.941
			-	-	26:COM13	18:COM5	-	18:COM5
5921	2685	+ve	11.131	10.346	0.025	0.782	0.024	3.125
			20:COM7	34:CVOL3	24:COM11	16:COM3	24:COM11	24:COM11
			-5.519	0.000	-0.027	-0.005	-0.027	-12.147
			30:COM17	-	18:COM5	26:COM13	18:COM5	18:COM5
	2713	-ve	11.131	9.264	0.025	0.782	0.022	0.000
			20:COM7	16:COM3	24:COM11	16:COM3	24:COM11	-
			-5.519	0.000	-0.027	-0.005	-0.029	-25.463
			30:COM17	-	18:COM5	26:COM13	18:COM5	34:CVOL3

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
5922	2686	+ve	10.491	13.953	0.000	0.386	0.082	24.353
			20:COM7	34:CVOL3	-	34:CVOL3	20:COM7	16:COM3
			-5.057	0.000	-0.078	-0.068	0.000	0.000
			30:COM1	-	22:COM9	30:COM1	-	-
	2685	-ve	10.491	12.105	0.000	0.386	0.000	3.091
			20:COM7	34:CVOL3	-	34:CVOL3	-	24:COM1
			-5.057	0.000	-0.078	-0.068	-0.073	-12.357
			30:COM1	-	22:COM9	30:COM1	22:COM9	18:COM5
5923	2687	+ve	0.914	3.211	0.590	0.117	0.167	11.238
			28:COM1	16:COM3	20:COM7	28:COM1	24:COM11	28:COM1
			-1.549	-0.383	-0.319	-2.343	-0.396	-19.690
			22:COM9	26:COM1	30:COM1	22:COM9	18:COM5	22:COM9
	2491	-ve	0.914	2.568	0.590	0.117	0.521	9.610
			28:COM1	16:COM3	20:COM7	28:COM1	20:COM7	28:COM1
			-1.549	-0.865	-0.319	-2.343	-0.373	-21.218
			22:COM9	26:COM1	30:COM1	22:COM9	30:COM1	22:COM9
5924	2688	+ve	1.444	4.210	0.512	2.724	0.293	14.649
			24:COM1	16:COM3	20:COM7	20:COM7	28:COM1	28:COM1
			-3.820	0.000	-0.361	-1.096	-0.442	-15.997
			18:COM5	-	30:COM1	30:COM1	22:COM9	22:COM9
	2687	-ve	1.444	3.282	0.512	2.724	0.589	10.644
			24:COM1	16:COM3	20:COM7	20:COM7	20:COM7	28:COM1
			-3.820	-0.439	-0.361	-1.096	-0.434	-19.351
			18:COM5	26:COM1	30:COM1	30:COM1	30:COM1	22:COM9
5925	2689	+ve	1.515	4.634	0.122	1.244	0.000	19.850
			24:COM1	20:COM7	20:COM7	20:COM7	-	20:COM7
			-8.527	0.000	0.000	-0.463	-0.147	-10.039
			18:COM5	-	-	30:COM1	18:COM5	30:COM1
	2688	-ve	1.515	3.733	0.122	1.244	0.117	14.466
			24:COM1	20:COM7	20:COM7	20:COM7	20:COM7	28:COM1
			-8.527	0.000	0.000	-0.463	0.000	-16.072
			18:COM5	-	-	30:COM1	-	22:COM9
5929	2693	+ve	0.798	0.000	0.032	1.599	0.035	0.082
			16:COM3	-	16:COM3	20:COM7	24:COM11	28:COM1
			-0.220	-1.552	-0.042	-0.503	-0.026	-7.732
			26:COM1	35:CVOL4	26:COM1	30:COM1	18:COM5	22:COM9
	2692	-ve	0.798	0.000	0.032	1.599	0.033	2.119
			16:COM3	-	16:COM3	20:COM7	16:COM3	28:COM1
			-0.220	-3.065	-0.042	-0.503	-0.042	-4.625
			26:COM1	34:CVOL3	26:COM1	30:COM1	26:COM1	22:COM9
5930	2694	+ve	1.715	3.241	0.014	0.553	0.019	0.000
			16:COM3	16:COM3	20:COM7	16:COM3	28:COM1	-
			-0.131	-0.785	-0.023	-0.139	-0.015	-3.795
			26:COM1	26:COM1	30:COM1	26:COM1	22:COM9	18:COM5
	2693	-ve	1.715	2.376	0.014	0.553	0.011	0.029
			16:COM3	16:COM3	20:COM7	16:COM3	28:COM1	28:COM1
			-0.131	-1.433	-0.023	-0.139	-0.024	-7.849
			26:COM1	26:COM1	30:COM1	26:COM1	22:COM9	22:COM9

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
5931	2695	+ve	2.773	7.211	0.014	0.428	0.041	10.644
			16:COM3	16:COM3	24:COM11	24:COM11	16:COM3	16:COM3
			-1.132	0.000	-0.042	-0.493	-0.020	-2.263
			26:COM13	-	18:COM5	18:COM5	26:COM13	26:COM13
	2694	-ve	2.773	6.346	0.014	0.428	0.007	0.000
			16:COM3	16:COM3	24:COM11	24:COM11	24:COM11	-
			-1.132	-0.135	-0.042	-0.493	-0.038	-3.931
			26:COM13	26:COM13	18:COM5	18:COM5	18:COM5	18:COM5
5932	2696	+ve	1.626	0.000	0.190	0.557	0.194	14.906
			28:COM15	-	20:COM7	20:COM7	28:COM15	20:COM7
			-2.660	-12.221	-0.139	0.000	-0.236	-11.086
			22:COM9	22:COM9	30:COM17	-	22:COM9	30:COM17
	2481	-ve	1.626	0.000	0.190	0.557	0.140	39.942
			28:COM15	-	20:COM7	20:COM7	20:COM7	20:COM7
			-2.660	-13.133	-0.139	0.000	-0.083	-10.185
			22:COM9	22:COM9	30:COM17	-	30:COM17	30:COM17
5933	2697	+ve	3.502	2.799	0.572	0.622	0.527	0.000
			20:COM7	28:COM15	20:COM7	24:COM11	28:COM15	-
			-1.275	-9.858	-0.495	-1.374	-0.619	-9.932
			30:COM17	22:COM9	30:COM17	18:COM5	22:COM9	18:COM5
	2696	-ve	3.502	2.113	0.572	0.622	0.516	15.024
			20:COM7	28:COM15	20:COM7	24:COM11	20:COM7	20:COM7
			-1.275	-10.772	-0.495	-1.374	-0.454	-10.916
			30:COM17	22:COM9	30:COM17	18:COM5	30:COM17	30:COM17
5934	2698	+ve	5.198	3.973	0.581	0.973	0.312	1.587
			20:COM7	28:COM15	20:COM7	24:COM11	28:COM15	28:COM15
			-2.991	-7.115	-0.385	-1.259	-0.542	-20.578
			30:COM17	22:COM9	30:COM17	18:COM5	22:COM9	22:COM9
	2697	-ve	5.198	3.287	0.581	0.973	0.611	0.000
			20:COM7	28:COM15	20:COM7	24:COM11	20:COM7	-
			-2.991	-8.030	-0.385	-1.259	-0.452	-10.025
			30:COM17	22:COM9	30:COM17	18:COM5	30:COM17	18:COM5
5935	2604	+ve	0.534	6.460	0.012	0.321	0.016	9.526
			28:COM15	16:COM3	28:COM15	34:CVOL3	20:COM7	16:COM3
			-1.850	0.000	-0.012	0.000	-0.015	0.000
			22:COM9	-	22:COM9	-	30:COM17	-
	2571	-ve	0.534	1.507	0.012	0.321	0.015	0.584
			28:COM15	24:COM11	28:COM15	34:CVOL3	28:COM15	16:COM3
			-1.850	-1.380	-0.012	0.000	-0.013	-0.249
			22:COM9	18:COM5	22:COM9	-	22:COM9	26:COM13
5936	2603	+ve	0.664	4.156	0.019	0.274	0.033	4.379
			28:COM15	16:COM3	28:COM15	16:COM3	20:COM7	16:COM3
			-1.245	0.000	-0.027	-0.035	-0.023	0.000
			22:COM9	-	22:COM9	26:COM13	30:COM17	-
	2572	-ve	0.664	0.000	0.019	0.274	0.023	0.512
			28:COM15	-	28:COM15	16:COM3	28:COM15	16:COM3
			-1.245	-2.081	-0.027	-0.035	-0.033	0.000
			22:COM9	18:COM5	22:COM9	26:COM13	22:COM9	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
5937	2602	+ve	0.205	3.488	0.016	0.122	0.026	2.753
			28:COM1	35:CVOL4	28:COM1	24:COM1	20:COM7	16:COM3
			-0.417	0.000	-0.023	-0.151	-0.018	0.000
			22:COM9	-	22:COM9	18:COM5	30:COM1	-
	2573	-ve	0.205	0.000	0.016	0.122	0.022	0.497
			28:COM1	-	28:COM1	24:COM1	28:COM1	34:CVOL3
			-0.417	-2.123	-0.023	-0.151	-0.031	0.000
			22:COM9	34:CVOL3	22:COM9	18:COM5	22:COM9	-
5938	2601	+ve	0.019	5.006	0.014	0.000	0.024	6.299
			28:COM1	16:COM3	28:COM1	-	20:COM7	16:COM3
			-0.269	0.000	-0.021	-0.272	-0.015	-0.439
			22:COM9	-	22:COM9	18:COM5	30:COM1	26:COM1
	2574	-ve	0.019	0.575	0.014	0.000	0.020	0.560
			28:COM1	24:COM1	28:COM1	-	28:COM1	16:COM3
			-0.269	-2.386	-0.021	-0.272	-0.029	-0.025
			22:COM9	18:COM5	22:COM9	18:COM5	22:COM9	26:COM1
5939	2600	+ve	0.000	7.689	0.012	0.000	0.019	12.056
			-	16:COM3	28:COM1	-	20:COM7	16:COM3
			-0.764	0.000	-0.018	-0.325	-0.014	0.000
			22:COM9	-	22:COM9	18:COM5	30:COM1	-
	2575	-ve	0.000	2.716	0.012	0.000	0.016	0.688
			-	16:COM3	28:COM1	-	28:COM1	24:COM1
			-0.764	-1.665	-0.018	-0.325	-0.024	-0.692
			22:COM9	26:COM1	22:COM9	18:COM5	22:COM9	18:COM5
5940	2609	+ve	0.000	8.102	0.004	0.279	0.007	12.885
			-	16:COM3	28:COM1	16:COM3	20:COM7	16:COM3
			-0.792	0.000	-0.006	0.000	-0.005	0.000
			22:COM9	-	22:COM9	-	30:COM1	-
	2576	-ve	0.000	3.129	0.004	0.279	0.006	0.640
			-	16:COM3	28:COM1	16:COM3	28:COM1	24:COM1
			-0.792	-1.350	-0.006	0.000	-0.008	-0.874
			22:COM9	26:COM1	22:COM9	-	22:COM9	18:COM5
5941	2608	+ve	0.387	5.223	0.007	0.290	0.012	6.776
			20:COM7	16:COM3	28:COM1	16:COM3	20:COM7	16:COM3
			-0.406	0.000	-0.011	-0.022	-0.008	0.000
			30:COM1	-	22:COM9	26:COM1	30:COM1	-
	2577	-ve	0.387	0.684	0.007	0.290	0.009	0.536
			20:COM7	24:COM1	28:COM1	16:COM3	28:COM1	16:COM3
			-0.406	-2.025	-0.011	-0.022	-0.015	-0.063
			30:COM1	18:COM5	22:COM9	26:COM1	22:COM9	26:COM1
5942	2607	+ve	0.569	3.694	0.006	0.174	0.012	2.894
			20:COM7	34:CVOL3	28:COM1	16:COM3	20:COM7	20:COM7
			-0.377	0.000	-0.010	-0.143	-0.006	0.000
			30:COM1	-	22:COM9	26:COM1	30:COM1	-
	2578	-ve	0.569	0.000	0.006	0.174	0.008	0.500
			20:COM7	-	28:COM1	16:COM3	28:COM1	20:COM7
			-0.377	-1.877	-0.010	-0.143	-0.014	0.000
			30:COM1	35:CVOL4	22:COM9	26:COM1	22:COM9	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
5943	2606	+ve	0.533	4.943	0.005	0.040	0.010	6.157
			20:COM7	16:COM3	28:COM15	24:COM17	20:COM7	16:COM3
			-0.503	0.000	-0.009	-0.261	-0.005	0.000
			30:COM17	-	22:COM9	18:COM5	30:COM17	-
	2579	-ve	0.533	0.488	0.005	0.040	0.006	0.578
			20:COM7	24:COM11	28:COM15	24:COM17	28:COM15	16:COM3
			-0.503	-2.168	-0.009	-0.261	-0.012	-0.020
			30:COM17	18:COM5	22:COM9	18:COM5	22:COM9	26:COM13
5944	2605	+ve	0.128	7.666	0.007	0.000	0.015	12.008
			28:COM15	16:COM3	28:COM15	-	20:COM7	16:COM3
			-0.907	0.000	-0.013	-0.280	-0.010	0.000
			22:COM9	-	22:COM9	22:COM9	30:COM17	-
	2580	-ve	0.128	2.692	0.007	0.000	0.008	0.697
			28:COM15	16:COM3	28:COM15	-	28:COM15	24:COM17
			-0.907	-1.497	-0.013	-0.280	-0.016	-0.682
			22:COM9	26:COM13	22:COM9	22:COM9	22:COM9	18:COM5
5945	2614	+ve	0.105	7.983	0.007	0.281	0.006	12.677
			28:COM15	16:COM3	20:COM7	16:COM3	28:COM15	16:COM3
			-0.905	0.000	-0.004	0.000	-0.010	0.000
			22:COM9	-	30:COM17	-	22:COM9	-
	2581	-ve	0.105	3.010	0.007	0.281	0.009	0.631
			28:COM15	16:COM3	20:COM7	16:COM3	20:COM7	24:COM17
			-0.905	-1.323	-0.004	0.000	-0.005	-0.790
			22:COM9	26:COM13	30:COM17	-	30:COM17	18:COM5
5946	2613	+ve	0.640	5.104	0.005	0.289	0.004	6.514
			20:COM7	16:COM3	20:COM7	16:COM3	28:COM15	16:COM3
			-0.566	0.000	-0.004	-0.022	-0.005	0.000
			30:COM17	-	30:COM17	26:COM13	22:COM9	-
	2582	-ve	0.640	0.586	0.005	0.289	0.006	0.538
			20:COM7	24:COM11	20:COM7	16:COM3	20:COM7	16:COM3
			-0.566	-2.025	-0.004	-0.022	-0.005	-0.038
			30:COM17	18:COM5	30:COM17	26:COM13	30:COM17	26:COM13
5947	2612	+ve	0.767	3.651	0.005	0.167	0.004	2.793
			20:COM7	34:CVOL3	20:COM7	16:COM3	28:COM15	20:COM7
			-0.503	0.000	-0.004	-0.143	-0.005	0.000
			30:COM17	-	30:COM17	26:COM13	22:COM9	-
	2583	-ve	0.767	0.000	0.005	0.167	0.006	0.500
			20:COM7	-	20:COM7	16:COM3	20:COM7	20:COM7
			-0.503	-1.912	-0.004	-0.143	-0.005	0.000
			30:COM17	35:CVOL4	30:COM17	26:COM13	30:COM17	-
5948	2611	+ve	0.670	4.939	0.005	0.033	0.005	6.146
			20:COM7	16:COM3	20:COM7	24:COM17	28:COM15	16:COM3
			-0.600	0.000	-0.004	-0.262	-0.005	-0.044
			30:COM17	-	30:COM17	18:COM5	22:COM9	26:COM13
	2584	-ve	0.670	0.493	0.005	0.033	0.006	0.580
			20:COM7	24:COM11	20:COM7	24:COM17	20:COM7	16:COM3
			-0.600	-2.215	-0.004	-0.262	-0.006	-0.020
			30:COM17	18:COM5	30:COM17	18:COM5	30:COM17	26:COM13

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
5949	2610	+ve	0.184	7.664	0.009	0.000	0.011	12.003
			28:COM15	16:COM3	28:COM15	-	28:COM15	16:COM3
			-0.931	0.000	-0.009	-0.284	-0.012	0.000
			22:COM9	-	22:COM9	22:COM9	22:COM9	-
	2585	-ve	0.184	2.691	0.009	0.000	0.010	0.706
			28:COM15	16:COM3	28:COM15	-	28:COM15	24:COM17
			-0.931	-1.525	-0.009	-0.284	-0.011	-0.684
			22:COM9	26:COM13	22:COM9	22:COM9	22:COM9	18:COM5
5950	2619	+ve	0.078	8.055	0.012	0.282	0.010	12.847
			28:COM15	16:COM3	20:COM7	16:COM3	28:COM15	16:COM3
			-0.901	0.000	-0.008	0.000	-0.014	0.000
			22:COM9	-	30:COM17	-	22:COM9	-
	2586	-ve	0.078	3.082	0.012	0.282	0.016	0.629
			28:COM15	16:COM3	20:COM7	16:COM3	20:COM7	24:COM17
			-0.901	-1.314	-0.008	0.000	-0.010	-0.797
			22:COM9	26:COM13	30:COM17	-	30:COM17	18:COM5
5951	2618	+ve	0.520	5.228	0.011	0.281	0.009	6.812
			20:COM7	16:COM3	20:COM7	16:COM3	28:COM15	16:COM3
			-0.571	0.000	-0.008	-0.018	-0.013	0.000
			30:COM17	-	30:COM17	26:COM13	22:COM9	-
	2587	-ve	0.520	0.680	0.011	0.281	0.015	0.537
			20:COM7	24:COM11	20:COM7	16:COM3	20:COM7	16:COM3
			-0.571	-1.989	-0.008	-0.018	-0.011	-0.043
			30:COM17	18:COM5	30:COM17	26:COM13	30:COM17	26:COM13
5952	2617	+ve	0.489	3.795	0.011	0.165	0.010	3.434
			16:COM3	34:CVOL3	20:COM7	16:COM3	28:COM15	20:COM7
			-0.426	0.000	-0.009	-0.140	-0.012	0.000
			26:COM13	-	30:COM17	26:COM13	22:COM9	-
	2588	-ve	0.489	0.000	0.011	0.165	0.015	0.471
			16:COM3	-	20:COM7	16:COM3	20:COM7	34:CVOL3
			-0.426	-1.785	-0.009	-0.140	-0.013	0.000
			26:COM13	35:CVOL4	30:COM17	26:COM13	30:COM17	-
5953	2616	+ve	0.325	4.954	0.011	0.044	0.013	6.159
			24:COM17	16:COM3	28:COM15	24:COM17	20:COM7	16:COM3
			-0.576	0.000	-0.011	-0.254	-0.014	0.000
			18:COM5	-	22:COM9	18:COM5	30:COM17	-
	2589	-ve	0.325	0.463	0.011	0.044	0.013	0.502
			24:COM17	24:COM11	28:COM15	24:COM17	28:COM15	16:COM3
			-0.576	-1.981	-0.011	-0.254	-0.013	-0.027
			18:COM5	18:COM5	22:COM9	18:COM5	22:COM9	26:COM13
5954	2615	+ve	0.504	7.379	0.006	0.000	0.020	11.265
			28:COM15	16:COM3	28:COM15	-	20:COM7	16:COM3
			-1.630	0.000	-0.017	-0.222	-0.007	0.000
			22:COM9	-	22:COM9	35:CVOL4	30:COM17	-
	2590	-ve	0.504	2.405	0.006	0.000	0.007	0.588
			28:COM15	16:COM3	28:COM15	-	28:COM15	24:COM17
			-1.630	-1.370	-0.017	-0.222	-0.022	-0.721
			22:COM9	26:COM13	22:COM9	35:CVOL4	22:COM9	18:COM5

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
5955	2662	+ve	0.447	1.264	0.000	0.000	0.119	0.364
			28:COM15	24:COM11	-	-	20:COM7	24:COM11
			-5.243	-2.788	-0.194	-0.212	0.000	-1.149
			22:COM9	18:COM5	22:COM9	22:COM9	-	18:COM5
	2636	-ve	0.447	0.000	0.000	0.000	0.000	3.824
			28:COM15	-	-	-	-	16:COM3
			-5.243	-5.164	-0.194	-0.212	-0.124	-0.337
			22:COM9	18:COM5	22:COM9	22:COM9	22:COM9	26:COM13
5956	2661	+ve	0.628	1.661	0.000	0.000	0.092	0.384
			24:COM11	16:COM3	-	-	16:COM3	16:COM3
			-1.880	-0.192	-0.139	-0.166	0.000	-0.126
			18:COM5	26:COM13	18:COM5	22:COM9	-	26:COM13
	2635	-ve	0.628	0.000	0.000	0.000	0.000	1.139
			24:COM11	-	-	-	-	16:COM3
			-1.880	-2.135	-0.139	-0.166	-0.082	-0.354
			18:COM5	18:COM5	18:COM5	22:COM9	18:COM5	26:COM13
5957	2660	+ve	0.725	2.004	0.017	0.022	0.046	0.469
			35:CVOL4	35:CVOL4	24:COM11	24:COM11	16:COM3	35:CVOL4
			-0.044	0.000	-0.069	-0.083	-0.011	0.000
			26:COM13	-	18:COM5	18:COM5	26:COM13	-
	2634	-ve	0.725	0.000	0.017	0.022	0.010	0.084
			35:CVOL4	-	24:COM11	24:COM11	24:COM11	24:COM11
			-0.044	-0.863	-0.069	-0.083	-0.040	-0.401
			26:COM13	18:COM5	18:COM5	18:COM5	18:COM5	18:COM5
5958	2659	+ve	1.239	2.050	0.082	0.091	0.014	0.498
			16:COM3	35:CVOL4	16:COM3	16:COM3	24:COM11	20:COM7
			-0.438	0.000	-0.021	-0.025	-0.054	0.000
			26:COM13	-	26:COM13	26:COM13	18:COM5	-
	2633	-ve	1.239	0.000	0.082	0.091	0.048	0.185
			16:COM3	-	16:COM3	16:COM3	16:COM3	24:COM11
			-0.438	-0.942	-0.021	-0.025	-0.012	-0.544
			26:COM13	22:COM9	26:COM13	26:COM13	26:COM13	18:COM5
5959	2658	+ve	1.690	2.333	0.158	0.176	0.000	0.586
			24:COM11	16:COM3	16:COM3	16:COM3	-	16:COM3
			-2.546	-0.681	0.000	0.000	-0.103	-0.297
			18:COM5	26:COM13	-	-	18:COM5	26:COM13
	2632	-ve	1.690	0.416	0.158	0.176	0.094	1.500
			24:COM11	24:COM11	16:COM3	16:COM3	16:COM3	16:COM3
			-2.546	-2.547	0.000	0.000	0.000	-0.911
			18:COM5	18:COM5	-	-	-	26:COM13
5960	2657	+ve	1.996	2.609	0.198	0.203	0.000	0.880
			24:COM11	24:COM11	20:COM7	20:COM7	-	24:COM11
			-6.459	-3.693	0.000	0.000	-0.126	-1.561
			18:COM5	18:COM5	-	-	22:COM9	18:COM5
	2631	-ve	1.996	1.202	0.198	0.203	0.122	4.545
			24:COM11	24:COM11	20:COM7	20:COM7	20:COM7	16:COM3
			-6.459	-6.069	0.000	0.000	0.000	-1.504
			18:COM5	18:COM5	-	-	-	26:COM13

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
5961	2668	+ve	1.225	2.176	0.000	0.000	0.097	0.712
			24:COM1	24:COM11	-	-	20:COM7	24:COM1
			-7.243	-4.393	-0.156	-0.195	0.000	-1.796
			18:COM5	18:COM5	22:COM9	22:COM9	-	18:COM5
	2642	-ve	1.225	0.769	0.000	0.000	0.000	5.183
			24:COM1	24:COM11	-	-	-	16:COM3
			-7.243	-6.769	-0.156	-0.195	-0.098	-1.130
			18:COM5	18:COM5	22:COM9	22:COM9	22:COM9	26:COM1
5962	2666	+ve	0.000	1.198	0.038	0.038	0.047	0.296
			-	35:CVOL4	24:COM11	24:COM1	16:COM3	20:COM7
			-1.083	0.000	-0.072	-0.075	-0.025	0.000
			18:COM5	-	18:COM5	18:COM5	26:COM1	-
	2640	-ve	0.000	0.000	0.038	0.038	0.023	0.570
			-	-	24:COM11	24:COM1	24:COM11	16:COM3
			-1.083	-1.556	-0.072	-0.075	-0.043	0.000
			18:COM5	34:CVOL3	18:COM5	18:COM5	18:COM5	-
5963	2665	+ve	0.471	1.215	0.175	3.227	0.129	0.309
			28:COM1	20:COM7	24:COM11	16:COM3	16:COM3	34:CVOL3
			-1.268	0.000	-0.230	-0.349	-0.100	0.000
			22:COM9	-	18:COM5	26:COM1	26:COM1	-
	2639	-ve	0.471	0.000	0.175	3.227	0.137	1.656
			28:COM1	-	24:COM11	16:COM3	28:COM1	16:COM3
			-1.268	-2.934	-0.230	-0.349	-0.177	0.000
			22:COM9	34:CVOL3	18:COM5	26:COM1	22:COM9	-
5964	2664	+ve	0.305	3.203	0.218	6.093	0.073	0.256
			28:COM1	16:COM3	20:COM7	16:COM3	24:COM11	20:COM7
			-1.801	-0.349	-0.111	0.000	-0.231	0.000
			22:COM9	26:COM1	30:COM1	-	18:COM5	-
	2638	-ve	0.305	0.145	0.218	6.093	0.083	2.036
			28:COM1	24:COM11	20:COM7	16:COM3	28:COM1	24:COM1
			-1.801	-3.124	-0.111	0.000	-0.107	-1.659
			22:COM9	18:COM5	30:COM1	-	22:COM9	18:COM5
5965	2663	+ve	0.489	1.500	0.172	0.194	0.000	0.481
			24:COM1	24:COM11	20:COM7	16:COM3	-	24:COM1
			-4.738	-2.524	0.000	0.000	-0.108	-1.158
			18:COM5	18:COM5	-	-	22:COM9	18:COM5
	2637	-ve	0.489	0.093	0.172	0.194	0.107	3.487
			24:COM1	24:COM11	20:COM7	16:COM3	20:COM7	16:COM3
			-4.738	-4.900	0.000	0.000	0.000	-0.518
			18:COM5	18:COM5	-	-	-	26:COM1
5966	2667	+ve	0.793	1.743	0.001	0.000	0.102	0.427
			24:COM1	16:COM3	24:COM11	-	16:COM3	16:COM3
			-3.294	-0.925	-0.157	-0.173	-0.002	-0.336
			18:COM5	26:COM1	18:COM5	18:COM5	26:COM1	26:COM1
	2641	-ve	0.793	0.023	0.001	0.000	0.000	1.971
			24:COM1	24:COM11	24:COM11	-	-	16:COM3
			-3.294	-2.988	-0.157	-0.173	-0.093	-0.538
			18:COM5	18:COM5	18:COM5	18:COM5	18:COM5	26:COM1

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
5967	2671	+ve	3.502	2.982	0.240	0.107	0.176	1.037
			24:COM1	24:COM1	24:COM1	24:COM1	16:COM3	24:COM1
			-7.689	-3.956	-0.309	-0.184	-0.132	-1.553
			18:COM5	18:COM5	18:COM5	18:COM5	26:COM1	18:COM5
	2648	-ve	3.502	1.733	0.240	0.107	0.169	4.749
			24:COM1	24:COM1	24:COM1	24:COM1	24:COM1	16:COM3
			-7.689	-6.122	-0.309	-0.184	-0.211	-1.911
			18:COM5	18:COM5	18:COM5	18:COM5	18:COM5	26:COM1
5968	2670	+ve	1.635	2.025	0.249	0.124	0.138	0.154
			24:COM1	16:COM3	24:COM1	24:COM1	16:COM3	16:COM3
			-2.448	-0.930	-0.230	-0.141	-0.142	-0.079
			18:COM5	26:COM1	18:COM5	18:COM5	26:COM1	26:COM1
	2647	-ve	1.635	0.373	0.249	0.124	0.170	1.991
			24:COM1	24:COM1	24:COM1	24:COM1	16:COM3	16:COM3
			-2.448	-2.694	-0.230	-0.141	-0.151	-1.149
			18:COM5	18:COM5	18:COM5	18:COM5	26:COM1	26:COM1
5969	2669	+ve	1.095	1.467	0.120	0.037	0.029	0.404
			16:COM3	35:CVOL4	16:COM3	16:COM3	24:COM1	16:COM3
			-0.286	0.000	-0.065	-0.023	-0.060	-0.223
			26:COM1	-	26:COM1	26:COM1	18:COM5	26:COM1
	2646	-ve	1.095	0.000	0.120	0.037	0.092	0.352
			16:COM3	-	16:COM3	16:COM3	16:COM3	24:COM1
			-0.286	-1.004	-0.065	-0.023	-0.053	-0.315
			26:COM1	32:CVOL1	26:COM1	26:COM1	26:COM1	18:COM5
5970	6167	+ve	0.270	7.392	0.036	0.248	0.041	11.706
			24:COM1	16:COM3	20:COM7	20:COM7	20:COM7	16:COM3
			-1.173	0.000	-0.035	-0.003	-0.039	0.000
			18:COM5	-	30:COM1	30:COM1	30:COM1	-
	2591	-ve	0.270	2.234	0.036	0.248	0.052	0.673
			24:COM1	24:COM1	20:COM7	20:COM7	20:COM7	16:COM3
			-1.173	-1.757	-0.035	-0.003	-0.050	-0.580
			18:COM5	18:COM5	30:COM1	30:COM1	30:COM1	26:COM1
5971	6168	+ve	0.707	5.211	0.075	0.231	0.091	6.801
			28:COM1	16:COM3	20:COM7	20:COM7	28:COM1	16:COM3
			-0.794	0.000	-0.069	-0.123	-0.096	-0.565
			22:COM9	-	30:COM1	30:COM1	22:COM9	26:COM1
	2592	-ve	0.707	0.418	0.075	0.231	0.103	0.415
			28:COM1	24:COM1	20:COM7	20:COM7	20:COM7	16:COM3
			-0.794	-2.587	-0.069	-0.123	-0.094	0.000
			22:COM9	18:COM5	30:COM1	30:COM1	30:COM1	-
5972	6169	+ve	0.889	4.159	0.076	0.167	0.085	3.347
			28:COM1	34:CVOL3	20:COM7	28:COM1	28:COM1	16:COM3
			-1.106	0.000	-0.066	-0.209	-0.099	0.000
			22:COM9	-	30:COM1	22:COM9	22:COM9	-
	2593	-ve	0.889	0.000	0.076	0.167	0.113	0.293
			28:COM1	-	20:COM7	28:COM1	20:COM7	16:COM3
			-1.106	-2.165	-0.066	-0.209	-0.098	0.000
			22:COM9	35:CVOL4	30:COM1	22:COM9	30:COM1	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
5973	6170	+ve	0.454	5.183	0.051	0.117	0.056	6.204
			24:COM1	20:COM7	20:COM7	28:COM1	28:COM1	20:COM7
			-1.098	0.000	-0.047	-0.210	-0.061	-0.123
			18:COM5	-	30:COM1	22:COM9	22:COM9	30:COM1
	2594	-ve	0.454	0.008	0.051	0.117	0.088	0.292
			24:COM1	28:COM1	20:COM7	28:COM1	20:COM7	28:COM1
			-1.098	-2.602	-0.047	-0.210	-0.080	-0.302
			18:COM5	22:COM9	30:COM1	22:COM9	30:COM1	22:COM9
5976	2550	+ve	1.414	13.439	0.000	0.129	0.079	30.968
			24:COM1	20:COM7	-	28:COM1	20:COM7	20:COM7
			-1.417	-0.346	-0.032	-0.324	0.000	-15.568
			18:COM5	30:COM1	22:COM9	22:COM9	-	30:COM1
	2800	-ve	1.414	4.122	0.000	0.129	0.000	1.563
			24:COM1	28:COM1	-	28:COM1	-	28:COM1
			-1.417	-7.351	-0.032	-0.324	-0.081	-10.916
			18:COM5	22:COM9	22:COM9	22:COM9	34:CVOL3	22:COM9
5978	2551	+ve	2.394	15.228	0.002	0.116	0.028	38.411
			28:COM1	20:COM7	28:COM1	28:COM1	20:COM7	20:COM7
			-3.844	-2.090	-0.009	-0.131	-0.009	-21.976
			22:COM9	30:COM1	22:COM9	22:COM9	30:COM1	30:COM1
	2801	-ve	2.394	4.442	0.002	0.116	0.003	14.631
			28:COM1	28:COM1	28:COM1	28:COM1	28:COM1	28:COM1
			-3.844	-11.520	-0.009	-0.131	-0.026	-17.027
			22:COM9	22:COM9	22:COM9	22:COM9	22:COM9	22:COM9
5985	2548	+ve	24.019	7.449	0.020	0.450	0.019	18.529
			28:COM1	20:COM7	16:COM3	28:COM1	24:COM1	20:COM7
			-24.951	-1.455	-0.012	-0.524	-0.040	-17.153
			22:COM9	30:COM1	26:COM1	22:COM9	18:COM5	30:COM1
	6163	-ve	24.019	0.879	0.020	0.450	0.045	8.019
			28:COM1	28:COM1	16:COM3	28:COM1	16:COM3	16:COM3
			-24.951	-8.264	-0.012	-0.524	-0.032	-3.783
			22:COM9	22:COM9	26:COM1	22:COM9	26:COM1	26:COM1
5986	5482	+ve	21.866	34.250	0.986	10.320	0.287	20.229
			28:COM1	28:COM1	16:COM3	16:COM3	24:COM1	28:COM1
			-59.436	-40.821	-0.334	-4.863	-1.092	-25.076
			22:COM9	22:COM9	26:COM1	26:COM1	18:COM5	22:COM9
	5540	-ve	21.866	30.959	0.986	10.320	1.345	53.005
			28:COM1	28:COM1	16:COM3	16:COM3	20:COM7	20:COM7
			-59.436	-45.928	-0.334	-4.863	-0.976	-38.466
			22:COM9	22:COM9	26:COM1	26:COM1	30:COM1	30:COM1
5987	2699	+ve	0.000	11.496	0.000	0.483	0.237	27.089
			-	20:COM7	-	20:COM7	20:COM7	20:COM7
			-11.310	0.000	-0.202	-0.152	0.000	-1.074
			22:COM9	-	34:CVOL3	30:COM1	-	30:COM1
	2700	-ve	0.000	9.439	0.000	0.483	0.000	6.547
			-	20:COM7	-	20:COM7	-	28:COM1
			-11.310	0.000	-0.202	-0.152	-0.188	-6.967
			22:COM9	-	34:CVOL3	30:COM1	18:COM5	22:COM9

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
5988	2700	+ve	0.000	8.579	0.048	0.169	0.218	6.589
			-	20:COM7	28:COM15	20:COM7	20:COM7	28:COM15
			-8.035	0.000	-0.227	-0.001	-0.023	-7.059
			22:COM9	-	22:COM9	30:COM17	30:COM17	22:COM9
	2701	-ve	0.000	6.521	0.048	0.169	0.072	0.000
			-	20:COM7	28:COM15	20:COM7	28:COM15	-
			-8.035	-0.228	-0.227	-0.001	-0.232	-11.865
			22:COM9	30:COM17	22:COM9	30:COM17	22:COM9	35:CVOL4
5989	2701	+ve	2.364	4.856	0.000	0.208	0.139	0.000
			28:COM15	20:COM7	-	28:COM15	20:COM7	-
			-7.243	-0.882	-0.102	-0.210	-0.022	-11.875
			22:COM9	30:COM17	22:COM9	22:COM9	30:COM17	35:CVOL4
	2702	-ve	2.364	2.799	0.000	0.208	0.000	0.000
			28:COM15	20:COM7	-	28:COM15	-	-
			-7.243	-2.425	-0.102	-0.210	-0.078	-16.226
			22:COM9	30:COM17	22:COM9	22:COM9	22:COM9	22:COM9
5990	2702	+ve	2.181	1.213	0.122	0.343	0.178	0.000
			28:COM15	28:COM15	28:COM15	28:COM15	20:COM7	-
			-5.253	-3.230	-0.185	-0.516	-0.103	-16.295
			22:COM9	22:COM9	22:COM9	22:COM9	30:COM17	22:COM9
	2703	-ve	2.181	0.000	0.122	0.343	0.140	2.294
			28:COM15	-	28:COM15	28:COM15	28:COM15	28:COM15
			-5.253	-5.287	-0.185	-0.516	-0.190	-15.555
			22:COM9	22:COM9	22:COM9	22:COM9	22:COM9	22:COM9
5991	2703	+ve	1.042	0.000	0.157	0.257	0.174	2.432
			28:COM15	-	20:COM7	28:COM15	20:COM7	28:COM15
			-3.833	-5.606	-0.155	-0.585	-0.160	-15.653
			22:COM9	22:COM9	30:COM17	22:COM9	30:COM17	22:COM9
	2704	-ve	1.042	0.000	0.157	0.257	0.155	12.587
			28:COM15	-	20:COM7	28:COM15	20:COM7	20:COM7
			-3.833	-7.663	-0.155	-0.585	-0.136	-7.485
			22:COM9	22:COM9	30:COM17	22:COM9	30:COM17	30:COM17
5992	2704	+ve	0.353	0.000	0.014	0.000	0.106	12.693
			28:COM15	-	28:COM15	-	20:COM7	20:COM7
			-4.985	-7.957	-0.094	-0.587	-0.032	-7.550
			22:COM9	34:CVOL3	22:COM9	34:CVOL3	30:COM17	30:COM17
	2464	-ve	0.353	0.000	0.014	0.000	0.000	29.085
			28:COM15	-	28:COM15	-	-	20:COM7
			-4.985	-10.012	-0.094	-0.587	-0.081	0.000
			22:COM9	34:CVOL3	22:COM9	34:CVOL3	22:COM9	-
6001	2492	+ve	6.364	10.822	0.011	0.000	0.166	14.537
			28:COM15	28:COM15	24:COM11	-	16:COM3	28:COM15
			-6.742	-13.590	-0.064	-4.377	-0.039	-20.019
			22:COM9	22:COM9	18:COM5	34:CVOL3	26:COM13	22:COM9
	2721	-ve	6.364	6.351	0.011	0.000	0.015	55.709
			28:COM15	28:COM15	24:COM11	-	28:COM15	20:COM7
			-6.742	-20.613	-0.064	-4.377	-0.126	-23.513
			22:COM9	22:COM9	18:COM5	34:CVOL3	22:COM9	30:COM17

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
6002	2491	+ve	8.810	6.656	0.107	1.887	0.172	3.465
			20:COM7	20:COM7	20:COM7	20:COM7	28:COM15	28:COM15
			-6.594	-2.138	-0.063	-1.807	-0.232	-15.291
			30:COM17	30:COM17	30:COM17	30:COM17	22:COM9	22:COM9
	2719	-ve	8.810	1.266	0.107	1.887	0.232	6.269
			20:COM7	28:COM15	20:COM7	20:COM7	20:COM7	28:COM15
			-6.594	-8.066	-0.063	-1.807	-0.104	-13.124
			30:COM17	22:COM9	30:COM17	30:COM17	30:COM17	22:COM9
6003	2713	+ve	11.410	8.158	0.032	1.032	0.030	0.000
			20:COM7	16:COM3	24:COM11	16:COM3	24:COM11	-
			-6.253	0.000	-0.033	0.000	-0.032	-25.159
			30:COM17	-	18:COM5	-	18:COM5	34:CVOL3
	2714	-ve	11.410	7.248	0.032	1.032	0.031	0.000
			20:COM7	16:COM3	24:COM11	16:COM3	24:COM11	-
			-6.253	0.000	-0.033	0.000	-0.036	-37.763
			30:COM17	-	18:COM5	-	18:COM5	34:CVOL3
6004	2714	+ve	11.580	6.620	0.056	1.248	0.048	0.000
			20:COM7	16:COM3	24:COM11	16:COM3	24:COM11	-
			-6.873	-0.140	-0.060	0.000	-0.047	-37.520
			30:COM17	26:COM13	18:COM5	-	18:COM5	34:CVOL3
	2715	-ve	11.580	5.710	0.056	1.248	0.065	0.000
			20:COM7	16:COM3	24:COM11	16:COM3	24:COM11	-
			-6.873	-0.823	-0.060	0.000	-0.071	-46.211
			30:COM17	26:COM13	18:COM5	-	18:COM5	34:CVOL3
6005	2715	+ve	11.244	0.000	0.117	0.641	0.043	0.000
			20:COM7	-	16:COM3	28:COM15	24:COM11	-
			-7.785	-21.868	-0.038	-2.413	-0.115	-48.698
			30:COM17	34:CVOL3	26:COM13	22:COM9	18:COM5	18:COM5
	2716	-ve	11.244	0.000	0.117	0.641	0.117	8.438
			20:COM7	-	16:COM3	28:COM15	16:COM3	24:COM11
			-7.785	-23.716	-0.038	-2.413	-0.035	-12.516
			30:COM17	34:CVOL3	26:COM13	22:COM9	26:COM13	18:COM5
6006	2716	+ve	10.742	0.000	5.403	8.858	0.948	8.322
			24:COM11	-	16:COM3	28:COM15	24:COM11	24:COM11
			-12.383	-21.779	-3.787	-14.478	-1.469	-12.968
			18:COM5	34:CVOL3	26:COM13	22:COM9	18:COM5	18:COM5
	2492	-ve	10.742	0.000	5.403	8.858	1.687	18.246
			24:COM11	-	16:COM3	28:COM15	16:COM3	16:COM3
			-12.383	-22.325	-3.787	-14.478	-1.265	-6.210
			18:COM5	34:CVOL3	26:COM13	22:COM9	26:COM13	26:COM13
6007	2717	+ve	0.000	0.000	1.069	0.117	0.000	17.013
			-	-	34:CVOL3	28:COM15	-	34:CVOL3
			-12.818	-5.421	0.000	-0.352	-0.896	0.000
			22:COM9	22:COM9	-	22:COM9	34:CVOL3	-
	2718	-ve	0.000	0.000	1.069	0.117	0.850	27.094
			-	-	34:CVOL3	28:COM15	34:CVOL3	20:COM7
			-12.818	-7.114	0.000	-0.352	0.000	0.000
			22:COM9	22:COM9	-	22:COM9	-	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
6008	2718	+ve	0.000	0.000	0.000	0.029	0.091	27.209
			-	-	-	28:COM15	16:COM3	20:COM7
			-16.821	-7.958	-0.328	-0.983	-0.056	0.000
			22:COM9	22:COM9	18:COM5	22:COM9	26:COM13	-
	2465	-ve	0.000	0.000	0.000	0.029	0.000	41.541
			-	-	-	28:COM15	-	20:COM7
			-16.821	-9.647	-0.328	-0.983	-0.471	0.000
			22:COM9	22:COM9	18:COM5	22:COM9	34:CVOL3	-
6009	2717	+ve	2.824	0.000	0.154	0.125	0.000	0.093
			32:CVOL1	-	34:CVOL3	16:COM3	-	28:COM15
			0.000	-1.625	0.000	0.000	-0.249	-0.339
			-	32:CVOL1	-	-	34:CVOL3	22:COM9
	2655	-ve	2.824	0.000	0.154	0.125	0.220	13.434
			32:CVOL1	-	34:CVOL3	16:COM3	34:CVOL3	34:CVOL3
			0.000	-7.668	0.000	0.000	0.000	0.000
			-	34:CVOL3	-	-	-	-
6010	2718	+ve	0.000	0.936	0.066	0.107	0.000	0.062
			-	35:CVOL4	16:COM3	20:COM7	-	28:COM15
			-5.015	0.000	0.000	-0.035	-0.110	-0.470
			22:COM9	-	-	30:COM17	34:CVOL3	22:COM9
	2656	-ve	0.000	0.000	0.066	0.107	0.092	6.328
			-	-	16:COM3	20:COM7	16:COM3	34:CVOL3
			-5.015	-5.155	0.000	-0.035	0.000	0.000
			22:COM9	34:CVOL3	-	30:COM17	-	-
6011	2719	+ve	14.257	1.919	1.009	1.340	0.825	6.969
			28:COM15	28:COM15	28:COM15	16:COM3	20:COM7	28:COM15
			-16.761	-16.825	-1.166	-0.678	-0.759	-14.482
			22:COM9	22:COM9	22:COM9	26:COM13	30:COM17	22:COM9
	2720	-ve	14.257	1.207	1.009	1.340	0.906	33.854
			28:COM15	28:COM15	28:COM15	16:COM3	28:COM15	20:COM7
			-16.761	-17.774	-1.166	-0.678	-1.098	-15.457
			22:COM9	22:COM9	22:COM9	26:COM13	22:COM9	30:COM17
6012	2688	+ve	3.615	4.338	0.047	0.202	0.018	4.503
			28:COM15	20:COM7	20:COM7	28:COM15	28:COM15	28:COM15
			-4.961	-3.434	-0.016	-0.353	-0.056	-15.343
			22:COM9	30:COM17	30:COM17	22:COM9	22:COM9	22:COM9
	2719	-ve	3.615	0.655	0.047	0.202	0.073	1.968
			28:COM15	28:COM15	20:COM7	28:COM15	20:COM7	28:COM15
			-4.961	-8.761	-0.016	-0.353	-0.027	-2.833
			22:COM9	22:COM9	30:COM17	22:COM9	30:COM17	22:COM9
6013	2689	+ve	6.760	7.661	0.018	0.217	0.017	6.854
			28:COM15	20:COM7	16:COM3	28:COM15	24:COM11	28:COM15
			-10.150	-5.926	-0.008	-0.267	-0.045	-11.995
			22:COM9	30:COM17	26:COM13	22:COM9	18:COM5	22:COM9
	2510	-ve	6.760	1.904	0.018	0.217	0.035	30.674
			28:COM15	28:COM15	16:COM3	28:COM15	16:COM3	20:COM7
			-10.150	-14.216	-0.008	-0.267	-0.019	-12.975
			22:COM9	22:COM9	26:COM13	22:COM9	26:COM13	30:COM17

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
6014	2720	+ve	11.696	0.000	2.976	2.855	0.643	30.934
			28:COM15	-	20:COM7	24:COM11	28:COM15	20:COM7
			-15.427	-15.639	-1.576	-5.801	-1.152	-14.667
			22:COM9	22:COM9	30:COM17	18:COM5	22:COM9	30:COM17
	2510	-ve	11.696	0.000	2.976	2.855	1.195	43.394
			28:COM15	-	20:COM7	24:COM11	20:COM7	20:COM7
			-15.427	-16.094	-1.576	-5.801	-0.600	-12.926
			22:COM9	22:COM9	30:COM17	18:COM5	30:COM17	30:COM17
6015	2720	+ve	1.908	3.386	0.193	1.254	0.107	3.752
			24:COM11	20:COM7	20:COM7	20:COM7	28:COM15	24:COM11
			-3.349	-2.343	-0.128	-0.344	-0.168	-7.842
			18:COM5	30:COM17	30:COM17	30:COM17	22:COM9	18:COM5
	2726	-ve	1.908	2.800	0.193	1.254	0.161	2.910
			24:COM11	28:COM15	20:COM7	20:COM7	20:COM7	24:COM11
			-3.349	-2.791	-0.128	-0.344	-0.112	-7.898
			18:COM5	22:COM9	30:COM17	30:COM17	30:COM17	18:COM5
6016	2721	+ve	10.684	3.804	0.186	7.376	0.413	50.678
			28:COM15	28:COM15	24:COM11	20:COM7	16:COM3	20:COM7
			-11.725	-17.570	-0.801	-3.642	-0.143	-22.351
			22:COM9	22:COM9	18:COM5	30:COM17	26:COM13	30:COM17
	2524	-ve	10.684	3.012	0.186	7.376	0.067	64.905
			28:COM15	28:COM15	24:COM11	20:COM7	24:COM11	20:COM7
			-11.725	-18.814	-0.801	-3.642	-0.279	-24.994
			22:COM9	22:COM9	18:COM5	30:COM17	18:COM5	30:COM17
6017	2487	+ve	5.786	4.966	0.034	0.421	0.007	22.144
			20:COM7	20:COM7	20:COM7	20:COM7	28:COM15	16:COM3
			-4.947	0.000	-0.006	-0.112	-0.037	-4.354
			30:COM17	-	30:COM17	30:COM17	22:COM9	26:COM13
	2722	-ve	5.786	4.292	0.034	0.421	0.030	16.014
			20:COM7	20:COM7	20:COM7	20:COM7	20:COM7	16:COM3
			-4.947	0.000	-0.006	-0.112	-0.003	-8.343
			30:COM17	-	30:COM17	30:COM17	30:COM17	26:COM13
6018	2722	+ve	5.803	6.700	0.017	0.361	0.032	15.846
			20:COM7	16:COM3	24:COM11	20:COM7	16:COM3	16:COM3
			-4.031	0.000	-0.035	-0.119	-0.014	-8.454
			30:COM17	-	18:COM5	30:COM17	26:COM13	26:COM13
	2723	-ve	5.803	6.025	0.017	0.361	0.019	4.420
			20:COM7	16:COM3	24:COM11	20:COM7	24:COM11	24:COM11
			-4.031	-0.503	-0.035	-0.119	-0.036	-8.947
			30:COM17	26:COM13	18:COM5	30:COM17	18:COM5	18:COM5
6019	2723	+ve	5.474	5.033	0.032	0.206	0.034	4.395
			20:COM7	16:COM3	16:COM3	28:COM15	16:COM3	24:COM11
			-4.185	-1.546	-0.030	-0.260	-0.030	-9.003
			30:COM17	26:COM13	26:COM13	22:COM9	26:COM13	18:COM5
	2724	-ve	5.474	4.358	0.032	0.206	0.033	0.000
			20:COM7	16:COM3	16:COM3	28:COM15	16:COM3	-
			-4.185	-2.052	-0.030	-0.260	-0.025	-6.965
			30:COM17	26:COM13	26:COM13	22:COM9	26:COM13	34:CVOL3

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
6020	2724	+ve	4.704	2.200	0.067	0.187	0.036	0.000
			20:COM7	24:COM11	20:COM7	28:COM15	28:COM15	-
			-3.907	-2.317	-0.047	-0.610	-0.061	-6.828
			30:COM17	18:COM5	30:COM17	22:COM9	22:COM9	34:CVOL3
	2725	-ve	4.704	1.694	0.067	0.187	0.071	0.429
			20:COM7	24:COM11	20:COM7	28:COM15	20:COM7	24:COM17
			-3.907	-2.991	-0.047	-0.610	-0.056	-9.134
			30:COM17	18:COM5	30:COM17	22:COM9	30:COM17	18:COM5
6021	2725	+ve	4.039	3.669	0.175	0.554	0.200	0.497
			16:COM3	20:COM7	28:COM15	28:COM15	20:COM7	24:COM17
			-4.151	-2.130	-0.239	-1.578	-0.151	-8.715
			26:COM13	30:COM17	22:COM9	22:COM9	30:COM17	18:COM5
	2721	-ve	4.039	3.073	0.175	0.554	0.151	2.587
			16:COM3	20:COM7	28:COM15	28:COM15	28:COM15	28:COM15
			-4.151	-2.577	-0.239	-1.578	-0.211	-12.558
			26:COM13	30:COM17	22:COM9	22:COM9	22:COM9	22:COM9
6022	2722	+ve	1.090	1.992	0.093	0.041	0.191	0.316
			24:COM17	24:COM11	28:COM15	28:COM15	20:COM7	24:COM17
			-4.183	-4.096	-0.512	-0.257	-0.031	-0.714
			18:COM5	18:COM5	22:COM9	22:COM9	30:COM17	18:COM5
	2520	-ve	1.090	1.243	0.093	0.041	0.039	2.846
			24:COM17	24:COM11	28:COM15	28:COM15	28:COM15	16:COM3
			-4.183	-5.395	-0.512	-0.257	-0.193	-0.897
			18:COM5	18:COM5	22:COM9	22:COM9	22:COM9	26:COM13
6023	2723	+ve	0.574	1.691	0.188	0.095	0.120	0.255
			16:COM3	16:COM3	28:COM15	28:COM15	20:COM7	16:COM3
			-0.334	0.000	-0.318	-0.158	-0.067	0.000
			26:COM13	-	22:COM9	22:COM9	30:COM17	-
	2521	-ve	0.574	0.391	0.188	0.095	0.074	0.108
			16:COM3	16:COM3	28:COM15	28:COM15	28:COM15	24:COM17
			-0.334	-0.405	-0.318	-0.158	-0.119	-0.533
			26:COM13	26:COM13	22:COM9	22:COM9	22:COM9	18:COM5
6024	2724	+ve	0.873	2.220	0.477	0.226	0.059	0.447
			16:COM3	16:COM3	20:COM7	20:COM7	28:COM15	20:COM7
			-0.374	0.000	-0.171	-0.098	-0.180	-0.004
			26:COM13	-	30:COM17	30:COM17	22:COM9	30:COM17
	2522	-ve	0.873	0.921	0.477	0.226	0.178	0.158
			16:COM3	16:COM3	20:COM7	20:COM7	20:COM7	24:COM17
			-0.374	-0.547	-0.171	-0.098	-0.070	-0.763
			26:COM13	26:COM13	30:COM17	30:COM17	30:COM17	18:COM5
6025	2725	+ve	1.339	1.477	0.915	0.506	0.044	0.419
			28:COM15	24:COM11	20:COM7	20:COM7	28:COM15	24:COM17
			-6.245	-4.313	-0.173	-0.131	-0.320	-0.553
			22:COM9	18:COM5	30:COM17	30:COM17	22:COM9	18:COM5
	2523	-ve	1.339	0.728	0.915	0.506	0.368	3.536
			28:COM15	24:COM11	20:COM7	20:COM7	20:COM7	20:COM7
			-6.245	-5.612	-0.173	-0.131	-0.087	-0.776
			22:COM9	18:COM5	30:COM17	30:COM17	30:COM17	30:COM17

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
6026	2726	+ve	2.624	3.875	0.022	0.605	0.038	2.734
			24:COM1	16:COM3	28:COM1	20:COM7	20:COM7	24:COM1
			-3.339	-1.441	-0.037	-0.187	-0.028	-8.191
			18:COM5	26:COM1	22:COM9	30:COM1	30:COM1	18:COM5
	2727	-ve	2.624	3.200	0.022	0.605	0.014	0.000
			24:COM1	16:COM3	28:COM1	20:COM7	28:COM1	-
			-3.339	-1.947	-0.037	-0.187	-0.035	-7.132
			18:COM5	26:COM1	22:COM9	30:COM1	22:COM9	22:COM9
6027	2727	+ve	2.785	2.650	0.026	0.281	0.029	0.000
			24:COM1	24:COM1	24:COM1	20:COM7	16:COM3	-
			-2.952	-3.752	-0.029	-0.212	-0.023	-7.038
			18:COM5	18:COM5	18:COM5	30:COM1	26:COM1	22:COM9
	2728	-ve	2.785	2.144	0.026	0.281	0.029	3.749
			24:COM1	24:COM1	24:COM1	20:COM7	16:COM3	24:COM1
			-2.952	-4.427	-0.029	-0.212	-0.028	-9.678
			18:COM5	18:COM5	18:COM5	30:COM1	26:COM1	18:COM5
6028	2728	+ve	3.023	0.971	0.032	0.146	0.020	3.770
			20:COM7	24:COM1	16:COM3	28:COM1	24:COM1	24:COM1
			-2.536	-5.397	-0.018	-0.362	-0.034	-9.637
			30:COM1	18:COM5	26:COM1	22:COM9	18:COM5	18:COM5
	2729	-ve	3.023	0.465	0.032	0.146	0.028	13.633
			20:COM7	24:COM1	16:COM3	28:COM1	16:COM3	16:COM3
			-2.536	-6.072	-0.018	-0.362	-0.014	-9.718
			30:COM1	18:COM5	26:COM1	22:COM9	26:COM1	26:COM1
6029	2729	+ve	3.487	0.000	0.013	0.078	0.027	13.810
			20:COM7	-	28:COM1	28:COM1	20:COM7	16:COM3
			-3.397	-3.947	-0.032	-0.406	-0.009	-9.638
			30:COM1	22:COM9	22:COM9	22:COM9	30:COM1	26:COM1
	2485	-ve	3.487	0.000	0.013	0.078	0.016	19.740
			20:COM7	-	28:COM1	28:COM1	28:COM1	16:COM3
			-3.397	-4.622	-0.032	-0.406	-0.035	-5.610
			30:COM1	22:COM9	22:COM9	22:COM9	22:COM9	26:COM1
6030	2726	+ve	2.136	2.702	0.130	0.114	0.298	0.487
			28:COM1	28:COM1	28:COM1	28:COM1	20:COM7	24:COM1
			-6.424	-5.126	-0.835	-0.478	-0.034	-0.638
			22:COM9	22:COM9	22:COM9	22:COM9	30:COM1	18:COM5
	2511	-ve	2.136	1.953	0.130	0.114	0.064	3.822
			28:COM1	28:COM1	28:COM1	28:COM1	28:COM1	20:COM7
			-6.424	-6.425	-0.835	-0.478	-0.329	-1.387
			22:COM9	22:COM9	22:COM9	22:COM9	22:COM9	30:COM1
6031	2727	+ve	0.962	2.147	0.209	0.107	0.198	0.411
			16:COM3	16:COM3	28:COM1	28:COM1	20:COM7	16:COM3
			-0.363	0.000	-0.520	-0.239	-0.075	0.000
			26:COM1	-	22:COM9	22:COM9	30:COM1	-
	2512	-ve	0.962	0.848	0.209	0.107	0.081	0.177
			16:COM3	16:COM3	28:COM1	28:COM1	28:COM1	24:COM1
			-0.363	-0.541	-0.520	-0.239	-0.192	-0.738
			26:COM1	26:COM1	22:COM9	22:COM9	22:COM9	18:COM5

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
6032	2728	+ve	0.747	1.783	0.350	0.160	0.098	0.297
			16:COM3	20:COM7	20:COM7	20:COM7	28:COM15	20:COM7
			-0.232	0.000	-0.261	-0.111	-0.134	0.000
			26:COM13	-	30:COM17	30:COM17	22:COM9	-
	2513	-ve	0.747	0.484	0.350	0.160	0.128	0.099
			16:COM3	20:COM7	20:COM7	20:COM7	20:COM7	24:COM17
			-0.232	-0.390	-0.261	-0.111	-0.098	-0.575
			26:COM13	30:COM17	30:COM17	30:COM17	30:COM17	18:COM5
6033	2729	+ve	1.649	2.575	0.529	0.257	0.053	0.427
			24:COM17	24:COM11	20:COM7	20:COM7	28:COM15	24:COM17
			-3.759	-3.666	-0.146	-0.057	-0.198	-0.631
			18:COM5	18:COM5	30:COM17	30:COM17	22:COM9	18:COM5
	2514	-ve	1.649	1.826	0.529	0.257	0.198	2.606
			24:COM17	24:COM11	20:COM7	20:COM7	20:COM7	16:COM3
			-3.759	-4.965	-0.146	-0.057	-0.057	-1.224
			18:COM5	18:COM5	30:COM17	30:COM17	30:COM17	26:COM13
6034	2730	+ve	1.581	11.892	0.151	0.142	0.172	8.948
			24:COM17	16:COM3	28:COM15	24:COM17	20:COM7	34:CVOL3
			-5.015	-12.537	-0.186	-0.560	-0.141	0.000
			18:COM5	26:COM13	22:COM9	18:COM5	30:COM17	-
	5501	-ve	1.581	10.568	0.151	0.142	0.165	34.688
			24:COM17	24:COM11	28:COM15	24:COM17	28:COM15	16:COM3
			-5.015	-14.280	-0.186	-0.560	-0.204	-17.208
			18:COM5	18:COM5	22:COM9	18:COM5	22:COM9	26:COM13
6036	2730	+ve	1.196	1.682	0.177	0.157	0.152	0.729
			28:COM15	20:COM7	24:COM11	24:COM17	16:COM3	20:COM7
			-2.518	0.000	-0.252	-0.239	-0.106	0.000
			22:COM9	-	18:COM5	18:COM5	26:COM13	-
	2673	-ve	1.196	0.000	0.177	0.157	0.115	0.445
			28:COM15	-	24:COM11	24:COM17	24:COM11	20:COM7
			-2.518	-1.262	-0.252	-0.239	-0.163	-0.185
			22:COM9	22:COM9	18:COM5	18:COM5	18:COM5	30:COM17
6037	5501	+ve	6.489	11.425	0.613	26.257	0.149	0.827
			20:COM7	24:COM11	16:COM3	16:COM3	28:COM15	24:COM17
			-4.803	-21.793	-0.149	-7.484	-0.418	-1.080
			30:COM17	18:COM5	26:COM13	26:COM13	22:COM9	18:COM5
	5468	-ve	6.489	9.307	0.613	26.257	0.462	28.109
			20:COM7	24:COM11	16:COM3	16:COM3	16:COM3	16:COM3
			-4.803	-25.115	-0.149	-7.484	-0.153	-12.075
			30:COM17	18:COM5	26:COM13	26:COM13	26:COM13	26:COM13
6040	2733	+ve	66.721	0.000	0.000	9.724	5.829	30.490
			34:CVOL3	-	-	20:COM7	34:CVOL3	32:CVOL1
			0.000	-32.027	-6.030	-2.826	0.000	0.000
			-	34:CVOL3	34:CVOL3	30:COM17	-	-
	2734	-ve	66.721	0.000	0.000	9.724	0.000	96.768
			34:CVOL3	-	-	20:COM7	-	32:CVOL1
			0.000	-36.268	-6.030	-2.826	-5.960	0.000
			-	32:CVOL1	34:CVOL3	30:COM17	34:CVOL3	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
6041	2734	+ve	123.317	0.000	0.000	3.621	6.669	82.584
			34:CVOL3	-	-	16:COM3	34:CVOL3	32:CVOL1
			0.000	-55.214	-6.854	-0.082	0.000	0.000
			-	34:CVOL3	34:CVOL3	26:COM1	-	-
	2550	-ve	123.317	0.000	0.000	3.621	0.000	192.523
			34:CVOL3	-	-	16:COM3	-	34:CVOL3
			0.000	-59.274	-6.854	-0.082	-6.736	0.000
			-	34:CVOL3	34:CVOL3	26:COM1	34:CVOL3	-
6042	2735	+ve	35.153	30.894	6.847	1.409	0.000	63.522
			32:CVOL1	34:CVOL3	34:CVOL3	28:COM1	-	32:CVOL1
			0.000	0.000	0.000	-4.870	-7.385	0.000
			-	-	-	22:COM9	34:CVOL3	-
	2736	-ve	35.153	27.512	6.847	1.409	6.000	7.081
			32:CVOL1	34:CVOL3	34:CVOL3	28:COM1	34:CVOL3	32:CVOL1
			0.000	0.000	0.000	-4.870	0.000	0.000
			-	-	-	22:COM9	-	-
6043	2735	+ve	0.761	7.094	0.010	0.055	0.000	7.496
			24:COM1	20:COM7	16:COM3	28:COM1	-	20:COM7
			-1.144	0.000	0.000	-0.088	-0.038	0.000
			18:COM5	-	-	22:COM9	18:COM5	-
	2734	-ve	0.761	0.000	0.010	0.055	0.024	17.346
			24:COM1	-	16:COM3	28:COM1	16:COM3	20:COM7
			-1.144	-7.637	0.000	-0.088	0.000	-4.120
			18:COM5	22:COM9	-	22:COM9	-	30:COM1
6044	2736	+ve	9.836	18.785	9.901	2.466	0.000	12.205
			32:CVOL1	32:CVOL1	32:CVOL1	20:COM7	-	32:CVOL1
			0.000	0.000	0.000	-1.471	-4.916	0.000
			-	-	-	30:COM1	32:CVOL1	-
	2472	-ve	9.836	17.201	9.901	2.466	2.853	0.000
			32:CVOL1	32:CVOL1	32:CVOL1	20:COM7	32:CVOL1	-
			0.000	0.000	0.000	-1.471	0.000	-1.933
			-	-	-	30:COM1	-	34:CVOL3
6045	2736	+ve	3.036	6.044	0.005	0.039	0.000	6.305
			28:COM1	35:CVOL4	20:COM7	20:COM7	-	35:CVOL4
			-8.025	0.000	0.000	-0.038	-0.016	0.000
			22:COM9	-	-	30:COM1	22:COM9	-
	2733	-ve	3.036	0.000	0.005	0.039	0.012	7.411
			28:COM1	-	20:COM7	20:COM7	20:COM7	20:COM7
			-8.025	-6.228	0.000	-0.038	-0.002	0.000
			22:COM9	34:CVOL3	-	30:COM1	30:COM1	-
6046	2737	+ve	0.594	21.256	0.422	2.984	0.629	56.365
			28:COM1	34:CVOL3	28:COM1	20:COM7	20:COM7	34:CVOL3
			-2.216	0.000	-0.410	-0.469	-0.562	0.000
			22:COM9	-	22:COM9	30:COM1	30:COM1	-
	2738	-ve	0.594	18.981	0.422	2.984	0.281	17.699
			28:COM1	34:CVOL3	28:COM1	20:COM7	28:COM1	32:CVOL1
			-2.216	0.000	-0.410	-0.469	-0.192	0.000
			22:COM9	-	22:COM9	30:COM1	22:COM9	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
6047	2738	+ve	0.559	10.976	0.221	1.178	0.149	18.008
			16:COM3	32:CVOL1	20:COM7	28:COM1	28:COM1	32:CVOL1
			-0.637	0.000	-0.166	-1.090	-0.271	0.000
			26:COM1	-	30:COM1	22:COM9	22:COM9	-
	2477	-ve	0.559	8.321	0.221	1.178	0.170	0.000
			16:COM3	32:CVOL1	20:COM7	28:COM1	28:COM1	-
			-0.637	0.000	-0.166	-1.090	-0.184	-1.031
			26:COM1	-	30:COM1	22:COM9	22:COM9	32:CVOL1
6048	2739	+ve	4.717	30.079	1.132	0.000	0.137	50.077
			16:COM3	20:COM7	16:COM3	-	24:COM1	20:COM7
			-1.071	0.000	-0.113	-11.206	-0.628	0.000
			26:COM1	-	26:COM1	22:COM9	18:COM5	-
	2480	-ve	4.717	27.695	1.132	0.000	1.385	2.846
			16:COM3	20:COM7	16:COM3	-	16:COM3	20:COM7
			-1.071	0.000	-0.113	-11.206	-0.123	-0.099
			26:COM1	-	26:COM1	22:COM9	26:COM1	30:COM1
6049	2737	+ve	1.310	6.356	0.001	0.171	0.015	5.113
			28:COM1	34:CVOL3	24:COM1	20:COM7	20:COM7	35:CVOL4
			-6.052	0.000	-0.004	0.000	-0.006	0.000
			22:COM9	-	18:COM5	-	30:COM1	-
	2739	-ve	1.310	0.000	0.001	0.171	0.003	5.972
			28:COM1	-	24:COM1	20:COM7	24:COM1	20:COM7
			-6.052	-6.540	-0.004	0.000	-0.011	0.000
			22:COM9	35:CVOL4	18:COM5	-	18:COM5	-
6050	2738	+ve	4.051	5.844	0.006	0.153	0.000	4.912
			16:COM3	35:CVOL4	20:COM7	20:COM7	-	35:CVOL4
			0.000	0.000	0.000	0.000	-0.015	0.000
			-	-	-	-	22:COM9	-
	2480	-ve	4.051	0.000	0.006	0.153	0.021	6.256
			16:COM3	-	20:COM7	20:COM7	20:COM7	35:CVOL4
			0.000	-6.303	0.000	0.000	-0.000	0.000
			-	34:CVOL3	-	-	30:COM1	-
6051	2740	+ve	0.000	0.000	0.451	0.000	0.000	0.303
			-	-	34:CVOL3	-	-	32:CVOL1
			-3.845	-2.307	0.000	-0.497	-0.378	0.000
			34:CVOL3	34:CVOL3	-	22:COM9	34:CVOL3	-
	2741	-ve	0.000	0.000	0.451	0.000	0.503	6.748
			-	-	34:CVOL3	-	34:CVOL3	34:CVOL3
			-3.845	-4.471	0.000	-0.497	0.000	0.000
			34:CVOL3	32:CVOL1	-	22:COM9	-	-
6052	2741	+ve	0.000	0.000	0.720	0.000	0.000	6.823
			-	-	34:CVOL3	-	-	34:CVOL3
			-10.026	-4.373	0.000	-0.371	-0.655	0.000
			34:CVOL3	22:COM9	-	18:COM5	34:CVOL3	-
	2717	-ve	0.000	0.000	0.720	0.000	0.732	16.936
			-	-	34:CVOL3	-	34:CVOL3	34:CVOL3
			-10.026	-6.371	0.000	-0.371	0.000	0.000
			34:CVOL3	22:COM9	-	18:COM5	-	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
6053	2740	+ve	0.000	2.090	0.063	0.086	0.000	0.440
			-	35:CVOL4	34:CVOL3	20:COM7	-	35:CVOL4
			-3.406	0.000	0.000	0.000	-0.096	-0.005
			22:COM9	-	-	-	34:CVOL3	30:COM17
	2736	-ve	0.000	0.000	0.063	0.086	0.094	3.577
			-	-	34:CVOL3	20:COM7	34:CVOL3	34:CVOL3
			-3.406	-4.083	0.000	0.000	0.000	0.000
			22:COM9	34:CVOL3	-	-	-	-
6054	2741	+ve	0.630	0.194	0.134	0.116	0.000	0.031
			32:CVOL1	20:COM7	34:CVOL3	20:COM7	-	28:COM15
			0.000	-0.545	0.000	0.000	-0.214	-0.183
			-	30:COM17	-	-	34:CVOL3	22:COM9
	2735	-ve	0.630	0.000	0.134	0.116	0.192	9.846
			32:CVOL1	-	34:CVOL3	20:COM7	34:CVOL3	34:CVOL3
			0.000	-6.469	0.000	0.000	0.000	0.000
			-	34:CVOL3	-	-	-	-
6055	2742	+ve	0.735	6.811	0.000	0.414	0.035	19.699
			28:COM15	16:COM3	-	20:COM7	20:COM7	16:COM3
			-1.252	0.000	-0.036	0.000	-0.004	0.000
			22:COM9	-	18:COM5	-	30:COM17	-
	2743	-ve	0.735	5.066	0.000	0.414	0.000	8.853
			28:COM15	16:COM3	-	20:COM7	-	34:CVOL3
			-1.252	0.000	-0.036	0.000	-0.055	0.000
			22:COM9	-	18:COM5	-	18:COM5	-
6056	2743	+ve	0.327	4.799	0.000	0.258	0.090	8.755
			28:COM15	32:CVOL1	-	16:COM3	16:COM3	34:CVOL3
			-0.484	0.000	-0.081	0.000	0.000	0.000
			22:COM9	-	18:COM5	-	-	-
	2476	-ve	0.327	2.630	0.000	0.258	0.000	0.100
			28:COM15	34:CVOL3	-	16:COM3	24:COM11	24:COM11
			-0.484	0.000	-0.081	0.000	-0.104	-0.101
			22:COM9	-	18:COM5	-	18:COM5	18:COM5
6057	2742	+ve	0.000	0.203	0.044	0.048	0.072	0.082
			-	24:COM11	24:COM11	24:COM11	16:COM3	24:COM11
			-7.180	-5.075	-0.115	-0.127	-0.030	-2.079
			18:COM5	18:COM5	18:COM5	18:COM5	26:COM13	18:COM5
	2737	-ve	0.000	0.000	0.044	0.048	0.024	5.562
			-	-	24:COM11	24:COM11	24:COM11	16:COM3
			-7.180	-7.226	-0.115	-0.127	-0.071	0.000
			18:COM5	18:COM5	18:COM5	18:COM5	18:COM5	-
6058	2743	+ve	0.056	0.850	0.000	0.000	0.073	0.246
			24:COM11	24:COM11	-	-	20:COM7	24:COM11
			-4.429	-1.764	-0.110	-0.101	0.000	-0.622
			18:COM5	18:COM5	22:COM9	22:COM9	-	18:COM5
	2738	-ve	0.056	0.000	0.000	0.000	0.000	2.895
			24:COM11	-	-	-	-	16:COM3
			-4.429	-3.910	-0.110	-0.101	-0.062	-0.041
			18:COM5	18:COM5	22:COM9	22:COM9	22:COM9	26:COM13

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
6060	2739	+ve	4.190	12.403	0.029	0.324	0.026	7.992
			28:COM15	20:COM7	20:COM7	16:COM3	28:COM15	34:CVOL3
			-8.074	-1.581	-0.017	0.000	-0.045	0.000
			22:COM9	30:COM17	30:COM17	-	22:COM9	-
	6161	-ve	4.190	6.162	0.029	0.324	0.045	15.826
			28:COM15	20:COM7	20:COM7	16:COM3	20:COM7	28:COM15
			-8.074	-5.340	-0.017	0.000	-0.026	-22.618
			22:COM9	30:COM17	30:COM17	-	30:COM17	22:COM9
6064	6159	+ve	42.611	13.308	0.030	0.511	0.040	30.864
			28:COM15	20:COM7	20:COM7	20:COM7	28:COM15	28:COM15
			-43.962	-11.591	-0.024	-0.095	-0.057	-34.259
			22:COM9	30:COM17	30:COM17	30:COM17	22:COM9	22:COM9
	6166	-ve	42.611	8.790	0.030	0.511	0.074	28.417
			28:COM15	28:COM15	20:COM7	20:COM7	20:COM7	20:COM7
			-43.962	-17.544	-0.024	-0.095	-0.064	-16.434
			22:COM9	22:COM9	30:COM17	30:COM17	30:COM17	30:COM17
6071	2749	+ve	4.382	6.008	0.013	0.302	0.029	14.136
			20:COM7	16:COM3	24:COM11	16:COM3	16:COM3	16:COM3
			-3.115	-0.142	-0.033	0.000	-0.012	-8.074
			30:COM17	26:COM13	18:COM5	-	26:COM13	26:COM13
	2750	-ve	4.382	5.333	0.013	0.302	0.014	3.970
			20:COM7	16:COM3	24:COM11	16:COM3	24:COM11	24:COM11
			-3.115	-0.648	-0.033	0.000	-0.035	-8.194
			30:COM17	26:COM13	18:COM5	-	18:COM5	18:COM5
6072	2750	+ve	4.788	4.622	0.018	0.112	0.035	3.857
			20:COM7	16:COM3	24:COM11	16:COM3	16:COM3	24:COM11
			-3.580	-1.723	-0.033	0.000	-0.018	-8.270
			30:COM17	26:COM13	18:COM5	-	26:COM13	18:COM5
	2751	-ve	4.788	3.948	0.018	0.112	0.018	0.000
			20:COM7	16:COM3	24:COM11	16:COM3	24:COM11	-
			-3.580	-2.229	-0.033	0.000	-0.029	-5.956
			30:COM17	26:COM13	18:COM5	-	18:COM5	35:CVOL4
6073	2751	+ve	5.153	2.610	0.028	0.000	0.020	0.000
			20:COM7	24:COM11	16:COM3	-	24:COM11	-
			-3.716	-3.330	-0.019	-0.115	-0.026	-5.955
			30:COM17	18:COM5	26:COM13	18:COM5	18:COM5	35:CVOL4
	2752	-ve	5.153	2.104	0.028	0.000	0.029	3.132
			20:COM7	24:COM11	16:COM3	-	16:COM3	24:COM11
			-3.716	-4.004	-0.019	-0.115	-0.018	-9.492
			30:COM17	18:COM5	26:COM13	18:COM5	26:COM13	18:COM5
6074	2752	+ve	5.540	1.023	0.028	0.000	0.015	3.244
			20:COM7	24:COM11	16:COM3	-	24:COM11	24:COM11
			-3.591	-4.775	-0.013	-0.303	-0.030	-9.419
			30:COM17	18:COM5	26:COM13	22:COM9	18:COM5	18:COM5
	2753	-ve	5.540	0.517	0.028	0.000	0.025	11.848
			20:COM7	24:COM11	16:COM3	-	16:COM3	16:COM3
			-3.591	-5.450	-0.013	-0.303	-0.011	-9.554
			30:COM17	18:COM5	26:COM13	22:COM9	26:COM13	26:COM13

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
6075	2753	+ve	5.926	0.000	0.007	0.000	0.025	12.125
			20:COM7	-	28:COM15	-	20:COM7	16:COM3
			-4.504	-2.569	-0.029	-0.376	-0.003	-9.468
			30:COM17	22:COM9	22:COM9	18:COM5	30:COM17	26:COM13
	2486	-ve	5.926	0.000	0.007	0.000	0.012	15.922
			20:COM7	-	28:COM15	-	28:COM15	16:COM3
			-4.504	-3.243	-0.029	-0.376	-0.032	-5.509
			30:COM17	22:COM9	22:COM9	18:COM5	22:COM9	26:COM13
6076	2749	+ve	1.455	2.240	0.000	0.000	0.172	0.383
			24:COM11	24:COM11	-	-	16:COM3	24:COM11
			-4.486	-4.321	-0.455	-0.222	0.000	-0.780
			18:COM5	18:COM5	18:COM5	22:COM9	-	18:COM5
	2505	-ve	1.455	1.490	0.000	0.000	0.000	2.949
			24:COM11	24:COM11	-	-	-	16:COM3
			-4.486	-5.620	-0.455	-0.222	-0.170	-1.016
			18:COM5	18:COM5	18:COM5	22:COM9	22:COM9	26:COM13
6077	2750	+ve	0.811	1.560	0.000	0.000	0.122	0.263
			16:COM3	16:COM3	-	-	16:COM3	16:COM3
			-0.514	0.000	-0.299	-0.123	0.000	0.000
			26:COM13	-	18:COM5	18:COM5	-	-
	2506	-ve	0.811	0.327	0.000	0.000	0.000	0.155
			16:COM3	24:COM11	-	-	-	24:COM11
			-0.514	-0.590	-0.299	-0.123	-0.103	-0.429
			26:COM13	18:COM5	18:COM5	18:COM5	18:COM5	18:COM5
6078	2751	+ve	0.805	1.767	0.062	0.020	0.033	0.297
			20:COM7	35:CVOL4	24:COM11	16:COM3	16:COM3	20:COM7
			0.000	0.000	-0.073	-0.018	-0.028	0.000
			-	-	18:COM5	26:COM13	26:COM13	-
	2507	-ve	0.805	0.350	0.062	0.020	0.019	0.000
			20:COM7	20:COM7	24:COM11	16:COM3	24:COM11	-
			0.000	0.000	-0.073	-0.018	-0.022	-0.489
			-	-	18:COM5	26:COM13	18:COM5	35:CVOL4
6079	2752	+ve	0.725	1.583	0.283	0.123	0.001	0.253
			16:COM3	16:COM3	16:COM3	16:COM3	24:COM11	16:COM3
			-0.361	0.000	0.000	0.000	-0.114	0.000
			26:COM13	-	-	-	18:COM5	-
	2508	-ve	0.725	0.333	0.283	0.123	0.098	0.143
			16:COM3	24:COM11	16:COM3	16:COM3	16:COM3	24:COM11
			-0.361	-0.529	0.000	0.000	0.000	-0.462
			26:COM13	18:COM5	-	-	-	18:COM5
6080	2753	+ve	1.435	2.316	0.467	0.227	0.000	0.382
			24:COM11	24:COM11	20:COM7	20:COM7	-	24:COM11
			-3.995	-3.862	0.000	0.000	-0.175	-0.686
			18:COM5	18:COM5	-	-	22:COM9	18:COM5
	2509	-ve	1.435	1.567	0.467	0.227	0.175	2.698
			24:COM11	24:COM11	20:COM7	20:COM7	20:COM7	16:COM3
			-3.995	-5.161	0.000	0.000	0.000	-1.075
			18:COM5	18:COM5	-	-	-	26:COM13

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
6081	2496	+ve	0.137	6.295	0.005	0.095	0.006	6.729
			28:COM15	34:CVOL3	20:COM7	16:COM3	28:COM15	34:CVOL3
			-0.602	0.000	-0.003	-0.082	-0.010	0.000
			22:COM9	-	30:COM17	26:COM13	22:COM9	-
	2754	-ve	0.137	0.000	0.005	0.095	0.012	0.344
			28:COM15	-	20:COM7	16:COM3	20:COM7	35:CVOL4
			-0.602	-4.022	-0.003	-0.082	-0.008	0.000
			22:COM9	35:CVOL4	30:COM17	26:COM13	30:COM17	-
6082	2497	+ve	0.000	6.452	0.005	0.012	0.004	8.605
			-	34:CVOL3	20:COM7	28:COM15	28:COM15	16:COM3
			-0.921	0.000	-0.003	-0.130	-0.009	0.000
			22:COM9	-	30:COM17	22:COM9	22:COM9	-
	2755	-ve	0.000	0.000	0.005	0.012	0.010	0.511
			-	-	20:COM7	28:COM15	20:COM7	16:COM3
			-0.921	-3.724	-0.003	-0.130	-0.007	-0.042
			22:COM9	18:COM5	30:COM17	22:COM9	30:COM17	26:COM13
6083	2498	+ve	0.000	6.884	0.009	0.000	0.000	11.518
			-	16:COM3	20:COM7	-	-	16:COM3
			-3.009	0.000	-0.001	-0.227	-0.019	0.000
			22:COM9	-	30:COM17	18:COM5	22:COM9	-
	2756	-ve	0.000	0.000	0.009	0.000	0.018	1.387
			-	-	20:COM7	-	20:COM7	16:COM3
			-3.009	-3.430	-0.001	-0.227	-0.003	0.000
			22:COM9	18:COM5	30:COM17	18:COM5	30:COM17	-
6084	2757	+ve	5.403	1.764	0.294	0.000	0.335	43.200
			24:COM11	24:COM11	24:COM11	-	16:COM3	16:COM3
			-7.964	-6.373	-0.416	-3.104	-0.214	0.000
			18:COM5	18:COM5	18:COM5	22:COM9	26:COM13	-
	2488	-ve	5.403	1.189	0.294	0.000	0.276	44.388
			24:COM11	24:COM11	24:COM11	-	24:COM11	20:COM7
			-7.964	-7.139	-0.416	-3.104	-0.357	0.000
			18:COM5	18:COM5	18:COM5	22:COM9	18:COM5	-
6085	2401	+ve	4.546	34.224	0.067	2.259	0.100	72.957
			20:COM7	20:COM7	24:COM11	16:COM3	16:COM3	20:COM7
			0.000	-4.097	-0.083	-0.094	-0.085	-17.370
			-	30:COM17	18:COM5	26:COM13	26:COM13	30:COM17
	2757	-ve	4.546	29.511	0.067	2.259	0.072	0.518
			20:COM7	20:COM7	24:COM11	16:COM3	24:COM11	28:COM15
			0.000	-6.935	-0.083	-0.094	-0.094	-6.112
			-	30:COM17	18:COM5	26:COM13	18:COM5	22:COM9
6086	2683	+ve	3.185	9.198	0.000	0.004	0.103	14.679
			20:COM7	34:CVOL3	-	28:COM15	16:COM3	16:COM3
			-0.615	0.000	-0.085	-0.350	0.000	-9.829
			30:COM17	-	18:COM5	35:CVOL4	-	26:COM13
	2682	-ve	3.185	8.126	0.000	0.004	0.000	1.474
			20:COM7	16:COM3	-	28:COM15	-	24:COM11
			-0.615	0.000	-0.085	-0.350	-0.066	-18.115
			30:COM17	-	18:COM5	35:CVOL4	18:COM5	18:COM5

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
6087	2682	+ve	4.927	6.041	0.025	0.049	0.019	1.376
			20:COM7	16:COM3	20:COM7	24:COM1	28:COM1	24:COM1
			-1.543	0.000	-0.019	-0.480	-0.027	-18.148
			30:COM1	-	30:COM1	18:COM5	22:COM9	18:COM5
	2681	-ve	4.927	5.147	0.025	0.049	0.023	0.000
			20:COM7	16:COM3	20:COM7	24:COM1	20:COM7	-
			-1.543	-0.557	-0.019	-0.480	-0.019	-20.465
			30:COM1	26:COM1	30:COM1	18:COM5	30:COM1	34:CVOL
6088	2681	+ve	6.544	2.330	0.028	0.175	0.022	0.000
			20:COM7	24:COM1	20:COM7	24:COM1	28:COM1	-
			-2.401	-2.506	-0.020	-0.379	-0.033	-20.525
			30:COM1	18:COM5	30:COM1	18:COM5	22:COM9	34:CVOL
	2754	-ve	6.544	1.633	0.028	0.175	0.023	0.000
			20:COM7	24:COM1	20:COM7	24:COM1	20:COM7	-
			-2.401	-3.435	-0.020	-0.379	-0.018	-19.033
			30:COM1	18:COM5	30:COM1	18:COM5	30:COM1	34:CVOL
6089	2754	+ve	7.821	0.000	0.029	0.326	0.021	0.000
			20:COM7	-	20:COM7	16:COM3	28:COM1	-
			-2.950	-6.270	-0.020	-0.142	-0.035	-19.063
			30:COM1	18:COM5	30:COM1	26:COM1	22:COM9	34:CVOL
	2755	-ve	7.821	0.000	0.029	0.326	0.023	1.449
			20:COM7	-	20:COM7	16:COM3	20:COM7	24:COM1
			-2.950	-7.181	-0.020	-0.142	-0.018	-11.596
			30:COM1	18:COM5	30:COM1	26:COM1	30:COM1	18:COM5
6090	2755	+ve	8.507	0.000	0.078	0.565	0.000	1.535
			20:COM7	-	20:COM7	35:CVOL	-	24:COM1
			-3.519	-9.674	0.000	0.000	-0.075	-11.565
			30:COM1	34:CVOL	-	-	22:COM9	18:COM5
	2756	-ve	8.507	0.000	0.078	0.565	0.080	18.830
			20:COM7	-	20:COM7	35:CVOL	20:COM7	16:COM3
			-3.519	-11.525	0.000	0.000	0.000	-1.275
			30:COM1	34:CVOL	-	-	-	26:COM1
6091	2756	+ve	6.496	0.000	0.109	1.803	0.000	18.895
			20:COM7	-	16:COM3	16:COM3	-	16:COM3
			-6.243	-14.153	0.000	0.000	-0.108	-1.116
			30:COM1	34:CVOL	-	-	18:COM5	26:COM1
	2483	-ve	6.496	0.000	0.109	1.803	0.111	43.608
			20:COM7	-	16:COM3	16:COM3	20:COM7	16:COM3
			-6.243	-16.004	0.000	0.000	0.000	0.000
			30:COM1	34:CVOL	-	-	-	-
6092	2670	+ve	6.641	5.460	0.058	0.329	0.095	2.423
			20:COM7	16:COM3	24:COM1	16:COM3	16:COM3	24:COM1
			-2.640	0.000	-0.065	-0.327	-0.076	-9.666
			30:COM1	-	18:COM5	26:COM1	26:COM1	18:COM5
	2669	-ve	6.641	3.746	0.058	0.329	0.045	0.000
			20:COM7	16:COM3	24:COM1	16:COM3	28:COM1	-
			-2.640	-0.132	-0.065	-0.327	-0.040	-12.790
			30:COM1	26:COM1	18:COM5	26:COM1	22:COM9	18:COM5

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
6093	2669	+ve	4.687	2.542	0.056	0.014	0.022	0.000
			16:COM3	16:COM3	20:COM7	24:COM1	24:COM1	-
			-1.405	-0.752	-0.018	-0.072	-0.047	-12.758
			26:COM1	26:COM1	30:COM1	18:COM5	18:COM5	18:COM5
	2710	-ve	4.687	1.016	0.056	0.014	0.067	0.000
			16:COM3	24:COM1	20:COM7	24:COM1	20:COM7	-
			-1.405	-2.225	-0.018	-0.072	-0.018	-11.804
			26:COM1	18:COM5	30:COM1	18:COM5	30:COM1	22:COM9
6094	2710	+ve	6.770	0.000	0.081	0.186	0.020	0.000
			20:COM7	-	20:COM7	24:COM1	28:COM1	-
			-4.387	-2.894	-0.008	-0.268	-0.081	-11.769
			30:COM1	18:COM5	30:COM1	18:COM5	22:COM9	22:COM9
	2711	-ve	6.770	0.000	0.081	0.186	0.091	0.000
			20:COM7	-	20:COM7	24:COM1	16:COM3	-
			-4.387	-4.608	-0.008	-0.268	-0.008	-8.252
			30:COM1	18:COM5	30:COM1	18:COM5	26:COM1	18:COM5
6095	2711	+ve	9.088	0.000	0.077	0.305	0.043	0.000
			20:COM7	-	20:COM7	24:COM1	28:COM1	-
			-8.415	-4.696	-0.032	-0.475	-0.098	-8.142
			30:COM1	22:COM9	30:COM1	18:COM5	22:COM9	18:COM5
	2712	-ve	9.088	0.000	0.077	0.305	0.083	7.833
			20:COM7	-	20:COM7	24:COM1	16:COM3	20:COM7
			-8.415	-6.409	-0.032	-0.475	-0.049	-0.590
			30:COM1	22:COM9	30:COM1	18:COM5	26:COM1	30:COM1
6096	2712	+ve	8.739	0.000	0.018	0.693	0.138	7.821
			28:COM1	-	28:COM1	24:COM1	20:COM7	20:COM7
			-11.017	-6.857	-0.121	-0.729	-0.049	-0.526
			22:COM9	18:COM5	22:COM9	18:COM5	30:COM1	30:COM1
	2469	-ve	8.739	0.000	0.018	0.693	0.000	20.660
			28:COM1	-	28:COM1	24:COM1	-	20:COM7
			-11.017	-8.572	-0.121	-0.729	-0.110	0.000
			22:COM9	18:COM5	22:COM9	18:COM5	22:COM9	-
6102	2005	+ve	632.541	31.365	17.442	1.568	79.994	82.644
			20:COM7	24:COM1	28:COM1	20:COM7	20:COM7	24:COM1
			0.000	-42.501	-27.866	-1.262	-49.728	-121.860
			-	18:COM5	22:COM9	30:COM1	30:COM1	18:COM5
	2397	-ve	624.838	31.365	17.442	1.568	24.632	56.829
			20:COM7	24:COM1	28:COM1	20:COM7	28:COM1	16:COM3
			0.000	-42.501	-27.866	-1.262	-38.146	-49.274
			-	18:COM5	22:COM9	30:COM1	22:COM9	26:COM1
6453	2769	+ve	0.156	1.606	0.029	0.032	0.037	0.066
			20:COM7	32:CVOL1	24:COM1	24:COM1	16:COM3	20:COM7
			-0.151	0.000	-0.050	-0.099	-0.025	-0.030
			30:COM1	-	18:COM5	18:COM5	26:COM1	30:COM1
	2776	-ve	0.156	0.000	0.029	0.032	0.013	0.207
			20:COM7	-	24:COM1	24:COM1	24:COM1	28:COM1
			-0.151	-1.180	-0.050	-0.099	-0.029	-0.548
			30:COM1	32:CVOL1	18:COM5	18:COM5	18:COM5	22:COM9

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
6455	2769	+ve	0.357	0.000	0.022	0.055	0.024	0.012
			16:COM3	-	24:COM11	20:COM7	16:COM3	24:COM1
			-0.176	-1.606	-0.019	-0.068	-0.026	-0.088
			26:COM13	32:CVOL1	18:COM5	30:COM17	26:COM13	18:COM5
	2783	-ve	0.357	0.000	0.022	0.055	0.025	6.232
			16:COM3	-	24:COM11	20:COM7	24:COM11	32:CVOL1
			-0.176	-3.909	-0.019	-0.068	-0.019	0.000
			26:COM13	32:CVOL1	18:COM5	30:COM17	18:COM5	-
6456	2705	+ve	0.339	6.140	0.078	2.851	0.022	8.064
			28:COM15	20:COM7	16:COM3	16:COM3	24:COM11	32:CVOL1
			-1.447	0.000	-0.028	-0.212	-0.042	0.000
			22:COM9	-	26:COM13	26:COM13	18:COM5	-
	2770	-ve	0.339	5.109	0.078	2.851	0.038	5.228
			28:COM15	20:COM7	16:COM3	16:COM3	20:COM7	16:COM3
			-1.447	0.000	-0.028	-0.212	-0.009	-0.322
			22:COM9	-	26:COM13	26:COM13	30:COM17	26:COM13
6457	2770	+ve	0.428	5.109	0.032	0.120	0.043	5.488
			28:COM15	20:COM7	24:COM11	24:COM11	16:COM3	16:COM3
			-1.795	0.000	-0.057	-2.312	-0.027	-0.366
			22:COM9	-	18:COM5	18:COM5	26:COM13	26:COM13
	2775	-ve	0.428	2.893	0.032	0.120	0.026	4.185
			28:COM15	20:COM7	24:COM11	24:COM11	24:COM11	24:COM1
			-1.795	-0.944	-0.057	-2.312	-0.050	-5.393
			22:COM9	30:COM17	18:COM5	18:COM5	18:COM5	18:COM5
6459	2397	+ve	0.604	20.212	1.001	11.051	0.675	15.034
			24:COM1	32:CVOL1	20:COM7	16:COM3	28:COM15	16:COM3
			-4.514	0.000	-1.037	-8.831	-0.887	-6.477
			18:COM5	-	30:COM17	26:COM13	22:COM9	26:COM13
	2771	-ve	0.604	18.182	1.001	11.051	0.390	0.000
			24:COM1	32:CVOL1	20:COM7	16:COM3	28:COM15	-
			-4.514	0.000	-1.037	-8.831	-0.647	-20.609
			18:COM5	-	30:COM17	26:COM13	22:COM9	18:COM5
6460	2772	+ve	9.229	4.082	0.102	0.227	0.149	1.683
			24:COM1	24:COM11	24:COM11	24:COM1	16:COM3	24:COM1
			-26.432	-7.101	-0.154	-0.345	-0.097	-3.205
			18:COM5	18:COM5	18:COM5	18:COM5	26:COM13	18:COM5
	2397	-ve	9.229	2.172	0.102	0.227	0.098	13.529
			24:COM1	24:COM11	24:COM11	24:COM1	24:COM11	16:COM3
			-26.432	-10.411	-0.154	-0.345	-0.144	-4.294
			18:COM5	18:COM5	18:COM5	18:COM5	18:COM5	26:COM13
6461	2773	+ve	5.233	4.209	0.007	0.164	0.002	2.688
			24:COM1	16:COM3	20:COM7	20:COM7	28:COM15	16:COM3
			-12.247	0.000	-0.001	-0.055	-0.016	-1.100
			18:COM5	-	30:COM17	30:COM17	22:COM9	26:COM13
	2554	-ve	5.233	0.000	0.007	0.164	0.015	11.320
			24:COM1	-	20:COM7	20:COM7	20:COM7	16:COM3
			-12.247	-6.618	-0.001	-0.055	-0.001	-0.239
			18:COM5	18:COM5	30:COM17	30:COM17	30:COM17	26:COM13

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
6462	2772	+ve	5.522	0.000	0.060	0.444	0.154	15.125
			16:COM3	-	24:COM11	20:COM7	16:COM3	16:COM3
			-0.024	-5.941	-0.132	0.000	-0.067	-12.279
			26:COM13	34:CVOL3	18:COM5	-	26:COM13	26:COM13
	2771	-ve	5.522	0.000	0.060	0.444	0.070	28.090
			16:COM3	-	24:COM11	20:COM7	24:COM11	16:COM3
			-0.024	-10.519	-0.132	0.000	-0.149	-1.092
			26:COM13	32:CVOL1	18:COM5	-	18:COM5	26:COM13
6463	2773	+ve	4.236	3.839	0.020	0.917	0.037	0.000
			20:COM7	24:COM11	28:COM15	20:COM7	28:COM15	-
			-5.411	-6.573	-0.028	0.000	-0.030	-15.073
			30:COM17	18:COM5	22:COM9	-	22:COM9	22:COM9
	2772	-ve	4.236	0.355	0.020	0.917	0.040	15.964
			20:COM7	24:COM11	28:COM15	20:COM7	28:COM15	16:COM3
			-5.411	-11.218	-0.028	0.000	-0.059	-12.165
			30:COM17	18:COM5	22:COM9	-	22:COM9	26:COM13
6465	2774	+ve	3.285	9.114	0.109	2.046	0.099	6.300
			28:COM15	16:COM3	20:COM7	20:COM7	28:COM15	24:COM11
			-5.630	-4.077	-0.135	0.000	-0.075	-18.894
			22:COM9	26:COM13	30:COM17	-	22:COM9	18:COM5
	2773	-ve	3.285	7.253	0.109	2.046	0.074	0.000
			28:COM15	16:COM3	20:COM7	20:COM7	20:COM7	-
			-5.630	-5.474	-0.135	0.000	-0.086	-14.152
			22:COM9	26:COM13	30:COM17	-	30:COM17	22:COM9
6466	2775	+ve	0.674	0.231	0.034	0.097	0.082	0.000
			20:COM7	24:COM11	24:COM11	24:COM11	16:COM3	-
			-1.123	-2.216	-0.099	-0.230	-0.028	-2.650
			30:COM17	18:COM5	18:COM5	18:COM5	26:COM13	18:COM5
	2627	-ve	0.674	0.000	0.034	0.097	0.029	3.495
			20:COM7	-	24:COM11	24:COM11	24:COM11	20:COM7
			-1.123	-5.104	-0.099	-0.230	-0.083	0.000
			30:COM17	18:COM5	18:COM5	18:COM5	18:COM5	-
6467	2775	+ve	0.952	3.069	0.013	0.167	0.019	6.143
			28:COM15	20:COM7	16:COM3	24:COM11	24:COM11	16:COM3
			-2.676	0.000	-0.013	-0.652	-0.017	-4.999
			22:COM9	-	26:COM13	18:COM5	18:COM5	26:COM13
	2774	-ve	0.952	0.455	0.013	0.167	0.010	5.526
			28:COM15	35:CVOL4	16:COM3	24:COM11	16:COM3	28:COM15
			-2.676	-1.648	-0.013	-0.652	-0.007	-7.445
			22:COM9	32:CVOL1	26:COM13	18:COM5	26:COM13	22:COM9
6468	2771	+ve	1.213	7.663	0.001	0.690	0.024	21.088
			20:COM7	32:CVOL1	28:COM15	28:COM15	20:COM7	34:CVOL3
			0.000	0.000	-0.011	-1.534	0.000	0.000
			-	-	22:COM9	22:COM9	-	-
	2692	-ve	1.213	4.495	0.001	0.690	0.009	3.607
			20:COM7	20:COM7	28:COM15	28:COM15	24:COM11	28:COM15
			0.000	0.000	-0.011	-1.534	-0.027	-8.693
			-	-	22:COM9	22:COM9	18:COM5	22:COM9

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
6469	2776	+ve	0.740	4.675	0.000	0.000	0.010	0.251
			20:COM7	32:CVOL1	-	-	20:COM7	32:CVOL1
			-0.296	0.000	-0.007	-0.275	-0.002	-0.886
			30:COM1	-	18:COM5	18:COM5	30:COM1	35:CVOL4
	2781	-ve	0.740	0.000	0.000	0.000	0.000	0.620
			20:COM7	-	-	-	-	24:COM1
			-0.296	-3.953	-0.007	-0.275	-0.020	-2.728
			30:COM1	32:CVOL1	18:COM5	18:COM5	18:COM5	18:COM5
6470	2777	+ve	0.000	1.258	0.002	0.000	0.075	10.001
			-	24:COM11	28:COM1	-	20:COM7	20:COM7
			-4.700	-1.442	-0.115	-0.757	-0.027	0.000
			22:COM9	18:COM5	22:COM9	34:CVOL3	30:COM1	-
	2782	-ve	0.000	0.000	0.002	0.000	0.000	11.314
			-	-	28:COM1	-	-	20:COM7
			-4.700	-3.349	-0.115	-0.757	-0.090	0.000
			22:COM9	18:COM5	22:COM9	34:CVOL3	22:COM9	-
6471	2776	+ve	0.332	0.000	0.084	0.673	0.201	0.162
			24:COM1	-	28:COM1	20:COM7	20:COM7	35:CVOL4
			-0.685	-5.855	-0.233	-0.425	-0.073	-0.384
			18:COM5	32:CVOL1	22:COM9	30:COM1	30:COM1	32:CVOL1
	2778	-ve	0.332	0.000	0.084	0.673	0.082	12.690
			24:COM1	-	28:COM1	20:COM7	28:COM1	32:CVOL1
			-0.685	-8.335	-0.233	-0.425	-0.230	0.000
			18:COM5	32:CVOL1	22:COM9	30:COM1	22:COM9	-
6472	2777	+ve	2.125	0.000	0.403	11.423	0.557	6.518
			20:COM7	-	24:COM1	32:CVOL1	16:COM3	32:CVOL1
			0.000	-12.943	-2.934	0.000	-0.083	0.000
			-	32:CVOL1	18:COM5	-	26:COM1	-
	2780	-ve	2.125	0.000	0.403	11.423	0.194	14.962
			20:COM7	-	24:COM1	32:CVOL1	24:COM1	32:CVOL1
			0.000	-13.957	-2.934	0.000	-1.308	0.000
			-	32:CVOL1	18:COM5	-	18:COM5	-
6473	2778	+ve	0.433	0.000	0.114	1.514	0.511	12.665
			24:COM1	-	28:COM1	20:COM7	20:COM7	32:CVOL1
			-1.487	-13.926	-0.646	-1.020	-0.075	0.000
			18:COM5	32:CVOL1	22:COM9	30:COM1	30:COM1	-
	2779	-ve	0.433	0.000	0.114	1.514	0.136	40.615
			24:COM1	-	28:COM1	20:COM7	28:COM1	32:CVOL1
			-1.487	-16.406	-0.646	-1.020	-0.680	0.000
			18:COM5	32:CVOL1	22:COM9	30:COM1	22:COM9	-
6474	2779	+ve	3.549	0.000	0.021	2.497	2.202	40.356
			20:COM7	-	28:COM1	28:COM1	20:COM7	32:CVOL1
			-0.748	-25.612	-2.960	-5.173	0.000	0.000
			30:COM1	34:CVOL3	22:COM9	22:COM9	-	-
	2429	-ve	3.549	0.000	0.021	2.497	0.166	89.301
			20:COM7	-	28:COM1	28:COM1	28:COM1	32:CVOL1
			-0.748	-27.799	-2.960	-5.173	-3.254	0.000
			30:COM1	32:CVOL1	22:COM9	22:COM9	22:COM9	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
6475	2780	+ve	6.622	0.000	0.111	12.745	0.871	14.718
			16:COM3	-	24:COM11	34:CVOL3	16:COM3	32:CVOL1
			0.000	-24.613	-0.662	0.000	-0.205	0.000
			-	32:CVOL1	18:COM5	-	26:COM13	-
	2420	-ve	6.622	0.000	0.111	12.745	0.243	61.571
			16:COM3	-	24:COM11	34:CVOL3	28:COM15	32:CVOL1
			0.000	-27.515	-0.662	0.000	-0.567	0.000
			-	32:CVOL1	18:COM5	-	22:COM9	-
6476	2779	+ve	0.000	7.085	0.000	0.000	0.005	7.078
			-	20:COM7	24:COM11	-	20:COM7	20:COM7
			-2.333	0.000	-0.002	-0.216	-0.003	-0.091
			22:COM9	-	18:COM5	18:COM5	30:COM17	30:COM17
	2780	-ve	0.000	0.000	0.000	0.000	0.000	9.001
			-	-	24:COM11	-	-	20:COM7
			-2.333	-7.394	-0.002	-0.216	-0.007	-0.596
			22:COM9	22:COM9	18:COM5	18:COM5	18:COM5	30:COM17
6477	2781	+ve	0.464	0.000	0.006	0.000	0.018	0.000
			28:COM15	-	24:COM11	-	20:COM7	-
			-1.090	-6.724	-0.013	-1.455	-0.012	-4.650
			22:COM9	34:CVOL3	18:COM5	32:CVOL1	30:COM17	18:COM5
	2777	-ve	0.464	0.000	0.006	0.000	0.006	22.356
			28:COM15	-	24:COM11	-	24:COM11	32:CVOL1
			-1.090	-12.412	-0.013	-1.455	-0.019	0.000
			22:COM9	32:CVOL1	18:COM5	32:CVOL1	18:COM5	-
6478	2778	+ve	0.064	4.876	0.000	0.028	0.005	1.062
			28:COM15	34:CVOL3	-	24:COM11	20:COM7	20:COM7
			-0.483	0.000	-0.004	-0.047	-0.001	-0.766
			22:COM9	-	22:COM9	18:COM5	30:COM17	30:COM17
	2781	-ve	0.064	0.000	0.000	0.028	0.000	0.000
			28:COM15	-	-	24:COM11	-	-
			-0.483	-3.668	-0.004	-0.047	-0.009	-2.730
			22:COM9	35:CVOL4	22:COM9	18:COM5	18:COM5	32:CVOL1
6479	2782	+ve	0.000	2.298	0.008	0.041	0.019	11.330
			-	28:COM15	16:COM3	24:COM11	20:COM7	20:COM7
			-5.695	-2.936	-0.002	-0.869	-0.001	0.000
			22:COM9	22:COM9	26:COM13	18:COM5	30:COM17	-
	2482	-ve	0.000	1.110	0.008	0.041	0.035	19.489
			-	28:COM15	16:COM3	24:COM11	16:COM3	16:COM3
			-5.695	-4.521	-0.002	-0.869	0.000	0.000
			22:COM9	22:COM9	26:COM13	18:COM5	-	-
6480	2780	+ve	0.000	6.291	0.000	0.000	0.064	6.100
			-	20:COM7	-	-	20:COM7	20:COM7
			-3.899	0.000	-0.101	-0.476	-0.012	-0.800
			22:COM9	-	22:COM9	22:COM9	30:COM17	30:COM17
	2782	-ve	0.000	3.749	0.000	0.000	0.000	0.176
			-	20:COM7	-	-	-	24:COM11
			-3.899	-0.865	-0.101	-0.476	-0.065	-1.037
			22:COM9	30:COM17	22:COM9	22:COM9	22:COM9	18:COM5

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
6481	2783	+ve	1.279	0.000	0.037	0.035	0.002	6.268
			20:COM7	-	16:COM3	28:COM15	24:COM11	32:CVOL1
			-0.710	-4.961	0.000	-0.282	-0.035	0.000
			30:COM17	18:COM5	-	22:COM9	18:COM5	-
	2784	-ve	1.279	0.000	0.037	0.035	0.038	16.749
			20:COM7	-	16:COM3	28:COM15	20:COM7	32:CVOL1
			-0.710	-6.627	0.000	-0.282	-0.000	0.000
			30:COM17	32:CVOL1	-	22:COM9	30:COM17	-
6482	2784	+ve	0.570	0.000	0.000	0.210	0.089	16.811
			28:COM15	-	-	24:COM17	16:COM3	32:CVOL1
			-1.711	-7.435	-0.104	-0.551	0.000	0.000
			22:COM9	18:COM5	18:COM5	18:COM5	-	-
	2466	-ve	0.570	0.000	0.000	0.210	0.000	30.698
			28:COM15	-	-	24:COM17	-	16:COM3
			-1.711	-9.037	-0.104	-0.551	-0.103	0.000
			22:COM9	18:COM5	18:COM5	18:COM5	18:COM5	-
6483	2783	+ve	1.171	1.760	0.030	0.042	0.006	0.356
			16:COM3	16:COM3	16:COM3	20:COM7	24:COM11	16:COM3
			-1.311	-0.115	-0.010	-0.011	-0.020	-0.143
			26:COM13	26:COM13	26:COM13	30:COM17	18:COM5	26:COM13
	2778	-ve	1.171	0.000	0.030	0.042	0.017	0.940
			16:COM3	-	16:COM3	20:COM7	16:COM3	16:COM3
			-1.311	-1.984	-0.010	-0.011	-0.006	-0.420
			26:COM13	18:COM5	26:COM13	30:COM17	26:COM13	26:COM13
6484	2784	+ve	0.003	1.000	0.073	0.105	0.011	0.281
			24:COM17	24:COM11	20:COM7	20:COM7	28:COM15	24:COM17
			-4.822	-2.084	-0.021	-0.018	-0.048	-0.907
			18:COM5	18:COM5	30:COM17	30:COM17	22:COM9	18:COM5
	2779	-ve	0.003	0.000	0.073	0.105	0.043	3.185
			24:COM17	-	20:COM7	20:COM7	20:COM7	16:COM3
			-4.822	-4.460	-0.021	-0.018	-0.015	-0.091
			18:COM5	18:COM5	30:COM17	30:COM17	30:COM17	26:COM13
6508	2786	+ve	0.291	0.000	0.060	7.459	0.999	0.607
			24:COM17	-	28:COM15	20:COM7	20:COM7	28:COM15
			-0.940	-12.776	-1.382	-1.968	-0.085	-2.705
			18:COM5	32:CVOL1	22:COM9	30:COM17	30:COM17	22:COM9
	2798	-ve	0.291	0.000	0.060	7.459	0.000	17.993
			24:COM17	-	28:COM15	20:COM7	-	32:CVOL1
			-0.940	-14.691	-1.382	-1.968	-0.967	0.000
			18:COM5	32:CVOL1	22:COM9	30:COM17	22:COM9	-
6509	2733	+ve	0.000	1.885	0.000	0.333	0.102	1.872
			-	35:CVOL4	-	34:CVOL3	32:CVOL1	20:COM7
			-7.365	0.000	-0.095	0.000	0.000	0.000
			22:COM9	-	32:CVOL1	-	-	-
	2797	-ve	0.000	0.000	0.000	0.333	0.000	2.488
			-	-	-	34:CVOL3	-	34:CVOL3
			-7.365	-2.178	-0.095	0.000	-0.055	0.000
			22:COM9	34:CVOL3	32:CVOL1	-	22:COM9	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
6510	2787	+ve	0.467	0.000	0.014	0.681	0.040	0.457
			16:COM3	-	28:COM15	20:COM7	20:COM7	20:COM7
			-0.325	-3.351	-0.034	-0.113	-0.017	-0.155
			26:COM13	34:CVOL3	22:COM9	30:COM17	30:COM17	30:COM17
	2795	-ve	0.467	0.000	0.014	0.681	0.015	10.248
			16:COM3	-	28:COM15	20:COM7	28:COM15	32:CVOL1
			-0.325	-5.657	-0.034	-0.113	-0.038	0.000
			26:COM13	32:CVOL1	22:COM9	30:COM17	22:COM9	-
6511	2786	+ve	0.472	4.146	0.016	0.184	0.035	2.188
			20:COM7	32:CVOL1	28:COM15	28:COM15	20:COM7	20:COM7
			-0.229	0.000	-0.027	-0.652	-0.018	-0.239
			30:COM17	-	22:COM9	22:COM9	30:COM17	30:COM17
	2787	-ve	0.472	0.000	0.016	0.184	0.022	0.497
			20:COM7	-	28:COM15	28:COM15	28:COM15	20:COM7
			-0.229	-3.351	-0.027	-0.652	-0.034	-0.057
			30:COM17	34:CVOL3	22:COM9	22:COM9	22:COM9	30:COM17
6513	2788	+ve	1.713	0.734	0.011	0.275	0.069	0.000
			16:COM3	28:COM15	28:COM15	28:COM15	20:COM7	-
			-0.177	-2.326	-0.034	-1.055	-0.023	-13.088
			26:COM13	22:COM9	22:COM9	22:COM9	30:COM17	34:CVOL3
	2786	-ve	1.713	0.000	0.011	0.275	0.019	8.033
			16:COM3	-	28:COM15	28:COM15	28:COM15	20:COM7
			-0.177	-8.630	-0.034	-1.055	-0.058	-0.242
			26:COM13	32:CVOL1	22:COM9	22:COM9	22:COM9	30:COM17
6514	2797	+ve	1.255	5.708	0.000	0.000	0.010	5.336
			28:COM15	34:CVOL3	-	-	20:COM7	34:CVOL3
			-3.348	0.000	-0.005	-0.177	0.000	0.000
			22:COM9	-	18:COM5	34:CVOL3	-	-
	2788	-ve	1.255	0.000	0.000	0.000	0.000	5.724
			28:COM15	-	-	-	-	34:CVOL3
			-3.348	-5.825	-0.005	-0.177	-0.022	0.000
			22:COM9	34:CVOL3	18:COM5	34:CVOL3	22:COM9	-
6515	2475	+ve	0.000	6.238	0.097	1.184	0.000	1.887
			-	32:CVOL1	20:COM7	20:COM7	-	20:COM7
			-9.192	0.000	0.000	0.000	-0.133	0.000
			34:CVOL3	-	-	-	22:COM9	-
	2797	-ve	0.000	2.826	0.097	1.184	0.127	0.000
			-	34:CVOL3	20:COM7	20:COM7	20:COM7	-
			-9.192	0.000	0.000	0.000	0.000	-10.360
			34:CVOL3	-	-	-	-	34:CVOL3
6516	2790	+ve	0.074	8.616	0.000	0.057	0.029	14.293
			28:COM15	20:COM7	-	28:COM15	20:COM7	20:COM7
			-1.296	0.000	-0.022	-0.441	0.000	0.000
			22:COM9	-	22:COM9	22:COM9	-	-
	2570	-ve	0.074	3.676	0.000	0.057	0.000	0.105
			28:COM15	20:COM7	-	28:COM15	28:COM15	24:COM17
			-1.296	0.000	-0.022	-0.441	-0.024	-0.749
			22:COM9	-	22:COM9	22:COM9	22:COM9	18:COM5

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
6517	2798	+ve	0.282	5.686	0.006	0.061	0.015	8.241
			16:COM3	20:COM7	28:COM15	28:COM15	20:COM7	20:COM7
			-0.192	0.000	-0.012	-0.424	-0.006	0.000
			26:COM13	-	22:COM9	22:COM9	30:COM17	-
	2795	-ve	0.282	1.106	0.006	0.061	0.008	0.455
			16:COM3	28:COM15	28:COM15	28:COM15	28:COM15	20:COM7
			-0.192	-1.814	-0.012	-0.424	-0.015	0.000
			26:COM13	22:COM9	22:COM9	22:COM9	22:COM9	-
6518	2790	+ve	4.630	0.000	1.001	8.253	0.390	67.377
			20:COM7	-	20:COM7	20:COM7	28:COM15	32:CVOL1
			-0.288	-43.950	-0.122	-5.465	-0.613	0.000
			30:COM17	34:CVOL3	30:COM17	30:COM17	22:COM9	-
	2423	-ve	4.630	0.000	1.001	8.253	1.573	164.858
			20:COM7	-	20:COM7	20:COM7	20:COM7	34:CVOL3
			-0.288	-46.448	-0.122	-5.465	0.000	0.000
			30:COM17	34:CVOL3	30:COM17	30:COM17	-	-
6522	2798	+ve	0.830	0.000	0.000	8.523	0.934	18.138
			20:COM7	-	-	20:COM7	16:COM3	32:CVOL1
			-0.876	-24.227	-1.131	-3.870	0.000	0.000
			30:COM17	34:CVOL3	18:COM5	30:COM17	-	-
	2790	-ve	0.830	0.000	0.000	8.523	0.000	67.759
			20:COM7	-	-	20:COM7	-	32:CVOL1
			-0.876	-26.554	-1.131	-3.870	-1.290	0.000
			30:COM17	32:CVOL1	18:COM5	30:COM17	18:COM5	-
6524	2795	+ve	1.307	0.000	0.001	1.111	0.036	10.513
			20:COM7	-	28:COM15	20:COM7	20:COM7	32:CVOL1
			-0.548	-6.288	-0.039	-0.055	-0.005	0.000
			30:COM17	18:COM5	22:COM9	30:COM17	30:COM17	-
	2570	-ve	1.307	0.000	0.001	1.111	0.000	24.197
			20:COM7	-	28:COM15	20:COM7	-	34:CVOL3
			-0.548	-8.116	-0.039	-0.055	-0.041	0.000
			30:COM17	18:COM5	22:COM9	30:COM17	22:COM9	-
6526	2788	+ve	1.621	2.574	0.004	0.030	0.032	2.328
			20:COM7	34:CVOL3	28:COM15	28:COM15	20:COM7	20:COM7
			-0.755	0.000	-0.017	-0.547	-0.008	-4.379
			30:COM17	-	22:COM9	22:COM9	30:COM17	30:COM17
	2798	-ve	1.621	0.000	0.004	0.030	0.006	9.233
			20:COM7	-	28:COM15	28:COM15	28:COM15	20:COM7
			-0.755	-5.772	-0.017	-0.547	-0.027	-1.782
			30:COM17	35:CVOL4	22:COM9	22:COM9	22:COM9	30:COM17
6532	2801	+ve	0.000	0.000	0.000	1.077	1.392	71.046
			-	-	-	28:COM15	20:COM7	20:COM7
			-15.448	-49.100	-1.120	-32.700	-0.294	0.000
			18:COM5	22:COM9	18:COM5	22:COM9	30:COM17	-
	2408	-ve	0.000	0.000	0.000	1.077	0.260	183.090
			-	-	-	28:COM15	28:COM15	20:COM7
			-15.448	-52.163	-1.120	-32.700	-1.739	0.000
			18:COM5	22:COM9	18:COM5	22:COM9	22:COM9	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
6533	2800	+ve	0.000	0.000	0.000	0.000	5.164	4.894
			-	-	-	-	20:COM7	20:COM7
			-20.247	-20.809	-4.398	-9.177	0.000	-0.383
			18:COM5	22:COM9	22:COM9	22:COM9	-	30:COM1
	5664	-ve	0.000	0.000	0.000	0.000	0.000	42.239
			-	-	-	-	-	20:COM7
			-20.247	-23.163	-4.398	-9.177	-2.334	0.000
			18:COM5	22:COM9	22:COM9	22:COM9	22:COM9	-
6555	2829	+ve	1.564	43.082	0.552	0.000	0.591	141.709
			24:COM1	16:COM3	28:COM1	-	20:COM7	16:COM3
			-2.894	0.000	-0.653	-6.580	-0.547	-22.066
			18:COM5	-	22:COM9	22:COM9	30:COM1	26:COM1
	2992	-ve	1.564	40.834	0.552	0.000	0.553	59.914
			24:COM1	16:COM3	28:COM1	-	28:COM1	16:COM3
			-2.894	0.000	-0.653	-6.580	-0.706	-33.672
			18:COM5	-	22:COM9	22:COM9	22:COM9	26:COM1
6556	2830	+ve	14.558	44.946	0.737	0.796	0.714	138.586
			28:COM1	16:COM3	20:COM7	24:COM1	28:COM1	16:COM3
			-15.929	0.000	-0.717	-6.338	-0.716	-18.572
			22:COM9	-	30:COM1	18:COM5	22:COM9	26:COM1
	2997	-ve	14.558	42.698	0.737	0.796	0.728	53.161
			28:COM1	16:COM3	20:COM7	24:COM1	20:COM7	16:COM3
			-15.929	0.000	-0.717	-6.338	-0.690	-32.183
			22:COM9	-	30:COM1	18:COM5	30:COM1	26:COM1
6557	2831	+ve	20.548	44.663	0.351	0.611	0.487	137.875
			28:COM1	16:COM3	16:COM3	24:COM1	28:COM1	16:COM3
			-22.963	0.000	-0.424	-6.265	-0.395	-18.476
			22:COM9	-	26:COM1	18:COM5	22:COM9	26:COM1
	3002	-ve	20.548	42.414	0.351	0.611	0.348	53.007
			28:COM1	16:COM3	16:COM3	24:COM1	16:COM3	16:COM3
			-22.963	0.000	-0.424	-6.265	-0.397	-32.350
			22:COM9	-	26:COM1	18:COM5	26:COM1	26:COM1
6558	2832	+ve	16.738	44.530	1.092	0.774	1.655	138.453
			20:COM7	16:COM3	28:COM1	24:COM1	20:COM7	16:COM3
			-17.028	0.000	-1.402	-7.775	-1.321	-26.603
			30:COM1	-	22:COM9	18:COM5	30:COM1	26:COM1
	3007	-ve	16.738	42.281	1.092	0.774	0.815	53.818
			20:COM7	16:COM3	28:COM1	24:COM1	28:COM1	16:COM3
			-17.028	0.000	-1.402	-7.775	-1.085	-36.087
			30:COM1	-	22:COM9	18:COM5	22:COM9	26:COM1
6559	2814	+ve	22.721	57.768	1.974	14.643	1.801	146.652
			28:COM1	20:COM7	20:COM7	28:COM1	28:COM1	16:COM3
			-27.697	0.000	-1.346	-23.614	-2.116	-14.880
			22:COM9	-	30:COM1	22:COM9	22:COM9	26:COM1
	2911	-ve	22.721	55.519	1.974	14.643	1.738	47.440
			28:COM1	20:COM7	20:COM7	28:COM1	20:COM7	16:COM3
			-27.697	0.000	-1.346	-23.614	-0.829	-43.757
			22:COM9	-	30:COM1	22:COM9	30:COM1	26:COM1

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
6560	2815	+ve	5.733	38.384	0.950	11.959	0.547	120.739
			28:COM15	16:COM3	20:COM7	20:COM7	28:COM15	16:COM3
			-7.631	0.000	-0.513	0.000	-0.976	-29.869
			22:COM9	-	30:COM17	-	22:COM9	26:COM13
	2906	-ve	5.733	36.136	0.950	11.959	0.887	48.199
			28:COM15	16:COM3	20:COM7	20:COM7	20:COM7	16:COM3
			-7.631	0.000	-0.513	0.000	-0.465	-31.645
			22:COM9	-	30:COM17	-	30:COM17	26:COM13
6561	2816	+ve	10.576	38.201	0.422	12.033	0.416	119.005
			20:COM7	16:COM3	20:COM7	20:COM7	20:COM7	16:COM3
			-10.218	0.000	-0.208	0.000	-0.528	-30.618
			30:COM17	-	30:COM17	-	30:COM17	26:COM13
	2916	-ve	10.576	35.953	0.422	12.033	0.423	46.770
			20:COM7	16:COM3	20:COM7	20:COM7	20:COM7	16:COM3
			-10.218	0.000	-0.208	0.000	-0.117	-32.500
			30:COM17	-	30:COM17	-	30:COM17	26:COM13
6562	2817	+ve	9.837	39.857	0.956	14.196	1.195	128.100
			24:COM11	16:COM3	28:COM15	20:COM7	20:COM7	16:COM3
			-10.553	0.000	-0.861	-2.212	-1.179	-30.839
			18:COM5	-	22:COM9	30:COM17	30:COM17	26:COM13
	2921	-ve	9.837	37.608	0.956	14.196	0.700	52.597
			24:COM11	16:COM3	28:COM15	20:COM7	20:COM7	16:COM3
			-10.553	0.000	-0.861	-2.212	-0.500	-34.019
			18:COM5	-	22:COM9	30:COM17	30:COM17	26:COM13
6564	2814	+ve	0.000	271.826	1.363	25.686	1.624	245.918
			-	20:COM7	24:COM11	28:COM15	16:COM3	20:COM7
			-31.529	-250.499	-1.751	-34.189	-1.013	-223.191
			22:COM9	30:COM17	18:COM5	22:COM9	26:COM13	30:COM17
	2852	-ve	0.000	267.186	1.363	25.686	1.182	180.120
			-	20:COM7	24:COM11	28:COM15	16:COM3	28:COM15
			-31.529	-253.499	-1.751	-34.189	-1.192	-185.405
			22:COM9	30:COM17	18:COM5	22:COM9	26:COM13	22:COM9
6565	2815	+ve	0.000	54.761	0.650	13.403	0.533	33.094
			-	28:COM15	24:COM11	16:COM3	24:COM11	28:COM15
			-26.636	-69.148	-0.744	-12.381	-0.560	-43.569
			22:COM9	22:COM9	18:COM5	26:COM13	18:COM5	22:COM9
	2853	-ve	0.000	52.038	0.650	13.403	0.493	70.490
			-	28:COM15	24:COM11	16:COM3	24:COM11	20:COM7
			-26.636	-73.418	-0.744	-12.381	-0.670	-52.351
			22:COM9	22:COM9	18:COM5	26:COM13	18:COM5	30:COM17
6566	2816	+ve	0.000	51.172	0.650	13.698	0.476	29.443
			-	28:COM15	16:COM3	16:COM3	24:COM11	28:COM15
			-29.540	-66.634	-0.642	-11.677	-0.482	-41.281
			22:COM9	22:COM9	26:COM13	26:COM13	18:COM5	22:COM9
	2854	-ve	0.000	48.449	0.650	13.698	0.562	68.750
			-	28:COM15	16:COM3	16:COM3	16:COM3	20:COM7
			-29.540	-70.904	-0.642	-11.677	-0.555	-50.255
			22:COM9	22:COM9	26:COM13	26:COM13	26:COM13	30:COM17

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
6567	2817	+ve	0.000	53.568	0.684	14.513	0.537	32.562
			-	28:COM15	24:COM11	16:COM3	16:COM3	28:COM15
			-32.722	-70.369	-0.729	-11.698	-0.527	-44.620
			22:COM9	22:COM9	18:COM5	26:COM13	26:COM13	22:COM9
	2855	-ve	0.000	50.845	0.684	14.513	0.570	71.392
			-	28:COM15	24:COM11	16:COM3	24:COM11	20:COM7
			-32.722	-74.640	-0.729	-11.698	-0.632	-50.973
			22:COM9	22:COM9	18:COM5	26:COM13	18:COM5	30:COM17
6568	2818	+ve	0.000	256.769	3.813	27.722	1.115	234.488
			-	20:COM7	20:COM7	16:COM3	28:COM15	20:COM7
			-39.237	-241.738	-1.551	-26.996	-2.881	-214.881
			18:COM5	30:COM17	30:COM17	26:COM13	22:COM9	30:COM17
	2856	-ve	0.000	252.129	3.813	27.722	3.346	174.455
			-	20:COM7	20:COM7	16:COM3	20:COM7	28:COM15
			-39.237	-244.738	-1.551	-26.996	-1.492	-172.786
			18:COM5	30:COM17	30:COM17	26:COM13	30:COM17	22:COM9
6569	2838	+ve	3.327	40.409	4.726	0.000	0.000	47.237
			24:COM11	20:COM7	16:COM3	-	-	20:COM7
			-22.599	0.000	0.000	-30.111	-5.220	0.000
			18:COM5	-	-	34:CVOL3	18:COM5	-
	2840	-ve	3.327	34.754	4.726	0.000	3.996	1.912
			24:COM11	20:COM7	16:COM3	-	16:COM3	28:COM15
			-22.599	0.000	0.000	-30.111	0.000	-26.464
			18:COM5	-	-	34:CVOL3	-	22:COM9
6570	2805	+ve	60.240	146.979	0.000	1.183	5.987	390.708
			20:COM7	20:COM7	-	28:COM15	20:COM7	20:COM7
			-24.682	-127.804	-2.629	-23.296	0.000	-388.666
			30:COM17	30:COM17	18:COM5	22:COM9	-	30:COM17
	2890	-ve	60.240	137.601	0.000	1.183	1.941	61.385
			20:COM7	20:COM7	-	28:COM15	16:COM3	28:COM15
			-24.682	-134.132	-2.629	-23.296	-1.025	-85.949
			30:COM17	30:COM17	18:COM5	22:COM9	26:COM13	22:COM9
6571	2834	+ve	2.276	82.012	0.431	9.941	0.121	75.349
			28:COM15	20:COM7	16:COM3	20:COM7	28:COM15	20:COM7
			-40.277	-20.443	-0.208	-8.091	-0.504	-7.977
			22:COM9	30:COM17	26:COM13	30:COM17	22:COM9	30:COM17
	2841	-ve	2.276	76.807	0.431	9.941	0.370	35.131
			28:COM15	20:COM7	16:COM3	20:COM7	16:COM3	28:COM15
			-40.277	-23.762	-0.208	-8.091	-0.318	-79.507
			22:COM9	30:COM17	26:COM13	30:COM17	26:COM13	22:COM9
6572	2835	+ve	3.875	53.047	0.579	5.052	0.358	43.560
			28:COM15	20:COM7	20:COM7	16:COM3	24:COM11	20:COM7
			-46.302	-39.900	-0.267	-5.322	-0.521	-30.774
			22:COM9	30:COM17	30:COM17	26:COM13	18:COM5	30:COM17
	2842	-ve	3.875	49.030	0.579	5.052	0.692	49.636
			28:COM15	28:COM15	20:COM7	16:COM3	20:COM7	28:COM15
			-46.302	-42.571	-0.267	-5.322	-0.246	-55.966
			22:COM9	22:COM9	30:COM17	26:COM13	30:COM17	22:COM9

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
6573	2836	+ve	1.114	46.665	0.461	11.175	0.515	38.390
			28:COM15	20:COM7	20:COM7	16:COM3	28:COM15	20:COM7
			-51.952	-36.035	-0.531	-9.289	-0.453	-27.368
			22:COM9	30:COM17	30:COM17	26:COM13	22:COM9	30:COM17
	2843	-ve	1.114	42.593	0.461	11.175	0.452	47.217
			28:COM15	28:COM15	20:COM7	16:COM3	20:COM7	20:COM7
			-51.952	-40.485	-0.531	-9.289	-0.526	-48.614
			22:COM9	22:COM9	30:COM17	26:COM13	30:COM17	30:COM17
6574	2837	+ve	16.448	70.828	0.567	8.857	0.296	58.985
			28:COM15	20:COM7	16:COM3	24:COM11	24:COM11	20:COM7
			-59.117	-45.171	-0.372	-9.586	-0.470	-34.401
			22:COM9	30:COM17	26:COM13	18:COM5	18:COM5	30:COM17
	2844	-ve	16.448	65.623	0.567	8.857	0.650	56.925
			28:COM15	20:COM7	16:COM3	24:COM11	24:COM11	28:COM15
			-59.117	-48.490	-0.372	-9.586	-0.443	-74.062
			22:COM9	30:COM17	26:COM13	18:COM5	18:COM5	22:COM9
6575	2821	+ve	28.164	173.509	21.319	0.000	4.245	95.552
			28:COM15	20:COM7	20:COM7	-	28:COM15	20:COM7
			-42.195	-164.636	-5.718	-51.450	-22.759	-86.793
			22:COM9	30:COM17	30:COM17	22:COM9	22:COM9	30:COM17
	2805	-ve	28.164	166.967	21.319	0.000	15.596	214.142
			28:COM15	28:COM15	20:COM7	-	20:COM7	20:COM7
			-42.195	-170.100	-5.718	-51.450	-6.086	-210.539
			22:COM9	22:COM9	30:COM17	22:COM9	30:COM17	30:COM17
6576	2822	+ve	0.000	0.000	0.882	17.071	0.821	1.781
			-	-	20:COM7	20:COM7	28:COM15	24:COM11
			-31.703	-38.309	-0.346	-13.965	-1.311	-29.458
			22:COM9	22:COM9	30:COM17	30:COM17	22:COM9	18:COM5
	2806	-ve	0.000	0.000	0.882	17.071	0.761	44.121
			-	-	20:COM7	20:COM7	20:COM7	20:COM7
			-31.703	-43.406	-0.346	-13.965	-0.291	0.000
			22:COM9	22:COM9	30:COM17	30:COM17	30:COM17	-
6577	2823	+ve	0.000	0.000	0.064	5.120	0.143	0.000
			-	-	24:COM11	16:COM3	20:COM7	-
			-58.773	-58.495	-0.293	-4.326	-0.018	-42.375
			22:COM9	34:CVOL3	18:COM5	26:COM13	30:COM17	22:COM9
	2808	-ve	0.000	0.000	0.064	5.120	0.107	72.342
			-	-	24:COM11	16:COM3	24:COM11	34:CVOL3
			-58.773	-64.023	-0.293	-4.326	-0.395	0.000
			22:COM9	34:CVOL3	18:COM5	26:COM13	18:COM5	-
6578	2824	+ve	0.000	84.662	1.222	17.900	0.164	57.604
			-	28:COM15	16:COM3	24:COM11	28:COM15	28:COM15
			-39.097	-103.621	-0.866	-24.256	-0.348	-69.904
			18:COM5	22:COM9	26:COM13	18:COM5	22:COM9	22:COM9
	2809	-ve	0.000	81.379	1.222	17.900	1.939	120.895
			-	28:COM15	16:COM3	24:COM11	16:COM3	20:COM7
			-39.097	-108.718	-0.866	-24.256	-1.483	-91.616
			18:COM5	22:COM9	26:COM13	18:COM5	26:COM13	30:COM17

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
6579	2839	+ve	25.901	6.661	0.836	11.013	0.813	5.527
			28:COM15	20:COM7	16:COM3	24:COM11	24:COM11	20:COM7
			-38.387	0.000	-0.826	-14.581	-0.906	0.000
			22:COM9	-	26:COM13	18:COM5	18:COM5	-
	2845	-ve	25.901	1.966	0.836	11.013	0.738	4.859
			28:COM15	28:COM15	16:COM3	24:COM11	24:COM11	20:COM7
			-38.387	-2.375	-0.826	-14.581	-0.811	-4.507
			22:COM9	22:COM9	26:COM13	18:COM5	18:COM5	30:COM17
6580	2825	+ve	26.166	12.908	8.812	10.464	6.159	17.410
			28:COM15	28:COM15	16:COM3	16:COM3	24:COM11	28:COM15
			-46.106	-42.726	-7.381	-2.773	-7.628	-31.331
			22:COM9	22:COM9	26:COM13	26:COM13	18:COM5	22:COM9
	2810	-ve	26.166	9.625	8.812	10.464	8.204	50.128
			28:COM15	28:COM15	16:COM3	16:COM3	16:COM3	20:COM7
			-46.106	-47.822	-7.381	-2.773	-7.103	-2.966
			22:COM9	22:COM9	26:COM13	26:COM13	26:COM13	30:COM17
6581	2822	+ve	22.883	56.102	0.368	9.995	2.178	163.481
			16:COM3	20:COM7	24:COM11	20:COM7	16:COM3	20:COM7
			-4.816	-4.687	-2.212	-0.510	-0.408	-51.155
			26:COM13	30:COM17	18:COM5	30:COM17	26:COM13	30:COM17
	2951	-ve	22.883	53.506	0.368	9.995	0.306	61.271
			16:COM3	20:COM7	24:COM11	20:COM7	24:COM11	16:COM3
			-4.816	-6.634	-2.212	-0.510	-1.994	-41.128
			26:COM13	30:COM17	18:COM5	30:COM17	18:COM5	26:COM13
6582	2826	+ve	0.000	18.219	0.383	5.310	0.000	20.347
			-	28:COM15	16:COM3	16:COM3	-	28:COM15
			-41.912	-49.785	0.000	-1.353	-0.419	-41.861
			22:COM9	22:COM9	-	26:COM13	22:COM9	22:COM9
	3126	-ve	0.000	15.566	0.383	5.310	0.342	53.398
			-	28:COM15	16:COM3	16:COM3	16:COM3	20:COM7
			-41.912	-53.763	0.000	-1.353	-0.092	-10.769
			22:COM9	22:COM9	-	26:COM13	26:COM13	30:COM17
6583	2838	+ve	26.442	41.344	0.053	2.778	1.341	153.766
			34:CVOL3	20:COM7	28:COM15	28:COM15	20:COM7	20:COM7
			0.000	0.000	-1.849	-7.501	-0.139	0.000
			-	-	22:COM9	22:COM9	30:COM17	-
	3013	-ve	26.442	39.058	0.053	2.778	0.260	74.104
			34:CVOL3	20:COM7	28:COM15	28:COM15	28:COM15	20:COM7
			0.000	0.000	-1.849	-7.501	-2.618	-6.345
			-	-	22:COM9	22:COM9	22:COM9	30:COM17
6584	2834	+ve	8.944	39.755	1.290	1.639	0.000	122.522
			20:COM7	16:COM3	20:COM7	24:COM11	-	16:COM3
			-2.478	0.000	0.000	-5.707	-1.388	0.000
			30:COM17	-	-	18:COM5	22:COM9	-
	3015	-ve	8.944	37.588	1.290	1.639	1.109	49.869
			20:COM7	16:COM3	20:COM7	24:COM11	20:COM7	16:COM3
			-2.478	0.000	0.000	-5.707	-0.108	-9.547
			30:COM17	-	-	18:COM5	30:COM17	26:COM13

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
6585	2835	+ve	7.715	38.927	1.082	8.055	0.226	132.532
			24:COM1	16:COM3	20:COM7	16:COM3	28:COM1	16:COM3
			-6.803	0.000	-0.113	0.000	-1.132	-4.256
			18:COM5	-	30:COM1	-	22:COM9	26:COM1
	3021	-ve	7.715	36.649	1.082	8.055	1.019	57.888
			24:COM1	16:COM3	20:COM7	16:COM3	20:COM7	16:COM3
			-6.803	0.000	-0.113	0.000	-0.010	-21.094
			18:COM5	-	30:COM1	-	30:COM1	26:COM1
6586	2826	+ve	15.063	56.543	1.862	7.981	1.797	188.564
			20:COM7	16:COM3	20:COM7	16:COM3	28:COM1	16:COM3
			-3.507	0.000	-1.647	0.000	-2.263	0.000
			30:COM1	-	30:COM1	-	22:COM9	-
	2894	-ve	15.063	53.820	1.862	7.981	1.410	80.133
			20:COM7	16:COM3	20:COM7	16:COM3	20:COM7	16:COM3
			-3.507	0.000	-1.647	0.000	-1.453	-24.900
			30:COM1	-	30:COM1	-	30:COM1	26:COM1
6587	2823	+ve	18.916	57.731	1.190	9.920	1.417	194.088
			16:COM3	16:COM3	28:COM1	20:COM7	28:COM1	16:COM3
			-6.575	0.000	-1.582	0.000	-1.332	0.000
			26:COM1	-	22:COM9	-	22:COM9	-
	2900	-ve	18.916	55.001	1.190	9.920	1.074	82.927
			16:COM3	16:COM3	28:COM1	20:COM7	28:COM1	16:COM3
			-6.575	0.000	-1.582	0.000	-1.761	-32.517
			26:COM1	-	22:COM9	-	22:COM9	26:COM1
6588	2836	+ve	21.020	40.546	1.300	9.048	0.000	133.277
			20:COM7	16:COM3	16:COM3	16:COM3	-	16:COM3
			-14.924	0.000	0.000	0.000	-1.384	-15.564
			30:COM1	-	-	-	18:COM5	26:COM1
	3027	-ve	21.020	38.270	1.300	9.048	1.209	55.507
			20:COM7	16:COM3	16:COM3	16:COM3	20:COM7	16:COM3
			-14.924	0.000	0.000	0.000	0.000	-27.381
			30:COM1	-	-	-	-	26:COM1
6589	2824	+ve	62.616	227.314	2.932	12.581	3.629	564.916
			16:COM3	16:COM3	24:COM1	28:COM1	16:COM3	16:COM3
			-54.815	-213.043	-3.694	-15.879	-2.838	-554.258
			26:COM1	26:COM1	18:COM5	22:COM9	26:COM1	26:COM1
	2943	-ve	62.616	223.215	2.932	12.581	3.016	122.753
			16:COM3	16:COM3	24:COM1	28:COM1	24:COM1	24:COM1
			-54.815	-216.118	-3.694	-15.879	-3.730	-133.195
			26:COM1	26:COM1	18:COM5	22:COM9	18:COM5	18:COM5
6590	2812	+ve	29.102	19.297	8.700	8.708	3.286	22.336
			24:COM1	20:COM7	20:COM7	16:COM3	28:COM1	20:COM7
			-61.019	-8.430	-7.183	-6.827	-3.074	-13.135
			18:COM5	30:COM1	30:COM1	26:COM1	22:COM9	30:COM1
	2945	-ve	29.102	17.865	8.700	8.708	3.042	14.732
			24:COM1	20:COM7	20:COM7	16:COM3	20:COM7	16:COM3
			-61.019	-9.504	-7.183	-6.827	-1.785	-12.160
			18:COM5	30:COM1	30:COM1	26:COM1	30:COM1	26:COM1

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
6591	2809	+ve	11.532	69.695	2.528	22.643	4.619	192.922
			16:COM3	20:COM7	24:COM11	16:COM3	16:COM3	28:COM15
			-1.531	-55.220	-3.285	-10.766	-3.559	-193.649
			26:COM13	30:COM17	18:COM5	26:COM13	26:COM13	22:COM9
	2889	-ve	11.532	65.745	2.528	22.643	3.662	8.823
			16:COM3	20:COM7	24:COM11	16:COM3	24:COM11	28:COM15
			-1.531	-58.183	-3.285	-10.766	-4.764	-41.000
			26:COM13	30:COM17	18:COM5	26:COM13	18:COM5	22:COM9
6592	2813	+ve	29.348	77.676	6.200	6.185	7.158	106.481
			24:COM11	16:COM3	24:COM11	24:COM11	16:COM3	16:COM3
			-46.880	-67.449	-7.533	-7.241	-6.103	-77.756
			18:COM5	26:COM13	18:COM5	18:COM5	26:COM13	26:COM13
	2825	-ve	29.348	73.613	6.200	6.185	6.334	63.412
			24:COM11	16:COM3	24:COM11	24:COM11	24:COM11	16:COM3
			-46.880	-70.497	-7.533	-7.241	-7.889	-47.747
			18:COM5	26:COM13	18:COM5	18:COM5	18:COM5	26:COM13
6593	2812	+ve	3.674	25.170	1.090	8.611	1.103	19.781
			28:COM15	28:COM15	20:COM7	20:COM7	28:COM15	28:COM15
			-19.486	-29.547	-0.834	-7.495	-1.460	-23.259
			22:COM9	22:COM9	30:COM17	30:COM17	22:COM9	22:COM9
	2811	-ve	3.674	23.613	1.090	8.611	0.997	45.568
			28:COM15	28:COM15	20:COM7	20:COM7	20:COM7	20:COM7
			-19.486	-31.623	-0.834	-7.495	-0.776	-35.108
			22:COM9	22:COM9	30:COM17	30:COM17	30:COM17	30:COM17
6597	2821	+ve	16.215	106.105	1.343	7.949	6.047	168.530
			16:COM3	16:COM3	24:COM11	16:COM3	16:COM3	16:COM3
			-6.987	-0.886	-4.460	0.000	-1.436	0.000
			26:COM13	26:COM13	18:COM5	-	26:COM13	-
	2926	-ve	16.215	102.582	1.343	7.949	1.722	28.974
			16:COM3	16:COM3	24:COM11	16:COM3	28:COM15	24:COM11
			-6.987	-3.528	-4.460	0.000	-3.459	-44.015
			26:COM13	26:COM13	18:COM5	-	22:COM9	18:COM5
6598	2827	+ve	50.289	55.680	1.006	4.596	0.431	38.397
			28:COM15	28:COM15	20:COM7	16:COM3	28:COM15	28:COM15
			-52.728	-70.783	-0.792	-1.424	-0.464	-45.811
			22:COM9	22:COM9	30:COM17	26:COM13	22:COM9	22:COM9
	2928	-ve	50.289	53.007	1.006	4.596	1.616	103.657
			28:COM15	28:COM15	20:COM7	16:COM3	20:COM7	20:COM7
			-52.728	-74.346	-0.792	-1.424	-1.208	-73.542
			22:COM9	22:COM9	30:COM17	26:COM13	30:COM17	30:COM17
6599	2927	+ve	74.865	110.693	3.902	4.002	2.349	207.227
			20:COM7	20:COM7	20:COM7	20:COM7	28:COM15	20:COM7
			-50.206	-80.730	-2.745	-3.500	-3.939	-189.867
			30:COM17	30:COM17	30:COM17	30:COM17	22:COM9	30:COM17
	2930	-ve	74.865	107.255	3.902	4.002	3.818	0.000
			20:COM7	20:COM7	20:COM7	20:COM7	20:COM7	-
			-50.206	-83.308	-2.745	-3.500	-3.110	-35.167
			30:COM17	30:COM17	30:COM17	30:COM17	30:COM17	22:COM9

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
6600	2810	+ve	11.273	29.575	0.275	14.581	1.044	75.611
			20:COM7	20:COM7	24:COM11	16:COM3	16:COM3	20:COM7
			-9.851	0.000	-0.496	-12.242	-0.619	0.000
			30:COM17	-	18:COM5	26:COM13	26:COM13	-
	3192	-ve	11.273	20.921	0.275	14.581	0.236	1.379
			20:COM7	20:COM7	24:COM11	16:COM3	28:COM15	24:COM17
			-9.851	0.000	-0.496	-12.242	-0.487	-2.957
			30:COM17	-	18:COM5	26:COM13	22:COM9	18:COM5
6601	2837	+ve	23.920	37.379	2.473	5.862	1.253	105.519
			20:COM7	16:COM3	16:COM3	16:COM3	28:COM15	16:COM3
			-18.283	0.000	-1.416	-4.085	-2.311	-8.056
			30:COM17	-	26:COM13	26:COM13	22:COM9	26:COM13
	3033	-ve	23.920	35.105	2.473	5.862	3.194	34.085
			20:COM7	16:COM3	16:COM3	16:COM3	16:COM3	16:COM3
			-18.283	0.000	-1.416	-4.085	-2.166	-13.025
			30:COM17	-	26:COM13	26:COM13	26:COM13	26:COM13
6604	2840	+ve	0.000	20.667	0.000	0.991	2.224	23.234
			-	20:COM7	-	16:COM3	34:CVOL3	20:COM7
			-28.911	-2.035	-0.550	-0.475	0.000	-2.308
			18:COM5	30:COM17	22:COM9	26:COM13	-	30:COM17
	2846	-ve	0.000	13.417	0.000	0.991	1.443	8.758
			-	20:COM7	-	16:COM3	20:COM7	28:COM15
			-28.911	-6.722	-0.550	-0.475	0.000	-19.490
			18:COM5	30:COM17	22:COM9	26:COM13	-	22:COM9
6605	2841	+ve	13.595	73.857	0.616	1.572	0.258	91.674
			16:COM3	28:COM15	20:COM7	20:COM7	28:COM15	28:COM15
			0.000	-83.363	-0.601	-1.687	-0.319	-103.198
			-	22:COM9	30:COM17	30:COM17	22:COM9	22:COM9
	2847	-ve	13.595	69.602	0.616	1.572	1.268	113.551
			16:COM3	28:COM15	20:COM7	20:COM7	28:COM15	20:COM7
			0.000	-90.036	-0.601	-1.687	-1.290	-87.651
			-	22:COM9	30:COM17	30:COM17	22:COM9	30:COM17
6606	2842	+ve	12.878	71.079	0.000	2.410	1.308	87.495
			20:COM7	28:COM15	-	16:COM3	16:COM3	28:COM15
			0.000	-77.362	-1.080	-1.277	0.000	-100.133
			-	22:COM9	18:COM5	26:COM13	-	22:COM9
	2848	-ve	12.878	67.661	0.000	2.410	0.000	99.720
			20:COM7	28:COM15	-	16:COM3	-	20:COM7
			0.000	-82.519	-1.080	-1.277	-1.411	-85.933
			-	22:COM9	18:COM5	26:COM13	18:COM5	30:COM17
6607	2843	+ve	14.607	66.242	0.155	1.270	0.282	80.462
			34:CVOL3	20:COM7	20:COM7	16:COM3	20:COM7	28:COM15
			0.000	-67.290	-0.154	-1.327	-0.226	-85.836
			-	30:COM17	30:COM17	26:COM13	30:COM17	22:COM9
	2849	-ve	14.607	61.747	0.155	1.270	0.185	90.132
			34:CVOL3	28:COM15	20:COM7	16:COM3	20:COM7	20:COM7
			0.000	-73.723	-0.154	-1.327	-0.127	-79.227
			-	22:COM9	30:COM17	26:COM13	30:COM17	30:COM17

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
6608	2844	+ve	16.561	83.898	0.779	0.703	0.378	103.224
			20:COM7	28:COM15	16:COM3	24:COM17	24:COM11	28:COM15
			-5.311	-100.279	-0.730	-2.428	-0.521	-128.367
			30:COM17	22:COM9	26:COM13	18:COM5	18:COM5	22:COM9
	2850	-ve	16.561	79.643	0.779	0.703	1.471	130.697
			20:COM7	28:COM15	16:COM3	24:COM17	16:COM3	20:COM7
			-5.311	-106.953	-0.730	-2.428	-1.493	-101.227
			30:COM17	22:COM9	26:COM13	18:COM5	26:COM13	30:COM17
6609	2845	+ve	9.590	5.851	0.204	0.513	0.149	5.160
			28:COM15	16:COM3	20:COM7	24:COM17	20:COM7	16:COM3
			-28.679	-0.990	-0.173	-0.731	-0.147	-2.809
			22:COM9	26:COM13	30:COM17	18:COM5	30:COM17	26:COM13
	2851	-ve	9.590	0.587	0.204	0.513	0.395	6.355
			28:COM15	24:COM11	20:COM7	24:COM17	20:COM7	20:COM7
			-28.679	-6.654	-0.173	-0.731	-0.315	-2.494
			22:COM9	18:COM5	30:COM17	18:COM5	30:COM17	30:COM17
6610	2846	+ve	0.000	54.150	4.126	20.265	6.875	36.073
			-	20:COM7	24:COM11	20:COM7	16:COM3	20:COM7
			-24.462	-32.100	-9.955	0.000	-3.862	-18.694
			22:COM9	30:COM17	18:COM5	-	26:COM13	30:COM17
	2821	-ve	0.000	49.365	4.126	20.265	2.989	36.833
			-	20:COM7	24:COM11	20:COM7	24:COM11	28:COM15
			-24.462	-35.194	-9.955	0.000	-9.593	-49.336
			22:COM9	30:COM17	18:COM5	-	18:COM5	22:COM9
6611	2847	+ve	0.000	42.481	1.027	16.337	0.658	52.945
			-	20:COM7	28:COM15	28:COM15	16:COM3	20:COM7
			-25.406	-40.197	-1.174	-20.316	-0.520	-43.707
			22:COM9	30:COM17	22:COM9	22:COM9	26:COM13	30:COM17
	2822	-ve	0.000	39.323	1.027	16.337	1.350	27.857
			-	28:COM15	28:COM15	28:COM15	28:COM15	20:COM7
			-25.406	-44.251	-1.174	-20.316	-1.455	-16.439
			22:COM9	22:COM9	22:COM9	22:COM9	22:COM9	30:COM17
6612	2848	+ve	0.000	58.148	0.262	1.784	0.417	61.838
			-	28:COM15	20:COM7	24:COM17	16:COM3	20:COM7
			-39.642	-55.729	-0.287	-8.255	-0.106	-53.282
			22:COM9	22:COM9	30:COM17	18:COM5	26:COM13	30:COM17
	2826	-ve	0.000	55.893	0.262	1.784	0.429	42.418
			-	28:COM15	20:COM7	24:COM17	20:COM7	20:COM7
			-39.642	-59.132	-0.287	-8.255	-0.161	-33.186
			22:COM9	22:COM9	30:COM17	18:COM5	30:COM17	30:COM17
6613	2849	+ve	0.000	36.042	0.471	5.407	0.102	43.525
			-	28:COM15	16:COM3	24:COM17	24:COM11	28:COM15
			-44.067	-49.498	-0.105	-6.633	-0.459	-47.884
			22:COM9	22:COM9	26:COM13	18:COM5	18:COM5	22:COM9
	2823	-ve	0.000	33.234	0.471	5.407	0.327	37.422
			-	28:COM15	16:COM3	24:COM17	16:COM3	20:COM7
			-44.067	-53.902	-0.105	-6.633	-0.079	-13.629
			22:COM9	22:COM9	26:COM13	18:COM5	26:COM13	30:COM17

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
6614	2850	+ve	0.000	77.523	1.773	28.626	2.669	76.048
			-	20:COM7	24:COM11	16:COM3	16:COM3	20:COM7
			-38.937	-66.006	-2.251	-21.389	-2.142	-60.957
			18:COM5	30:COM17	18:COM5	26:COM13	26:COM13	30:COM17
	2824	-ve	0.000	73.119	1.773	28.626	0.818	51.411
			-	20:COM7	24:COM11	16:COM3	28:COM15	20:COM7
			-38.937	-68.814	-2.251	-21.389	-1.079	-49.373
			18:COM5	30:COM17	18:COM5	26:COM13	22:COM9	30:COM17
6615	2851	+ve	11.977	11.017	7.646	8.143	7.341	6.992
			28:COM15	28:COM15	24:COM11	24:COM11	16:COM3	28:COM15
			-41.341	-20.745	-9.041	-11.187	-6.454	-13.276
			22:COM9	22:COM9	18:COM5	18:COM5	26:COM13	22:COM9
	2825	-ve	11.977	8.209	7.646	8.143	6.179	24.730
			28:COM15	28:COM15	24:COM11	24:COM11	24:COM11	16:COM3
			-41.341	-25.149	-9.041	-11.187	-7.594	-9.012
			22:COM9	22:COM9	18:COM5	18:COM5	18:COM5	26:COM13
6616	2852	+ve	12.047	87.879	0.171	1.898	0.790	137.870
			20:COM7	20:COM7	28:COM15	28:COM15	20:COM7	28:COM15
			-2.391	-85.816	-0.266	-3.262	-0.620	-142.485
			30:COM17	30:COM17	22:COM9	22:COM9	30:COM17	22:COM9
	2857	-ve	12.047	81.218	0.171	1.898	0.032	165.094
			20:COM7	28:COM15	28:COM15	28:COM15	24:COM11	20:COM7
			-2.391	-95.389	-0.266	-3.262	-0.186	-149.126
			30:COM17	22:COM9	22:COM9	22:COM9	18:COM5	30:COM17
6617	2853	+ve	7.191	61.150	0.113	0.746	0.242	98.155
			20:COM7	20:COM7	28:COM15	24:COM11	20:COM7	20:COM7
			-0.299	-48.041	-0.134	-0.788	-0.184	-84.507
			30:COM17	30:COM17	22:COM9	18:COM5	30:COM17	30:COM17
	2858	-ve	7.191	52.191	0.113	0.746	0.210	88.669
			20:COM7	28:COM15	28:COM15	24:COM11	28:COM15	28:COM15
			-0.299	-53.944	-0.134	-0.788	-0.225	-94.328
			30:COM17	22:COM9	22:COM9	18:COM5	22:COM9	22:COM9
6618	2854	+ve	7.542	60.833	0.053	0.647	0.120	97.831
			20:COM7	20:COM7	28:COM15	24:COM11	16:COM3	20:COM7
			0.000	-46.733	-0.064	-0.940	-0.105	-82.402
			-	30:COM17	22:COM9	18:COM5	26:COM13	30:COM17
	2859	-ve	7.542	51.758	0.053	0.647	0.112	86.326
			20:COM7	20:COM7	28:COM15	24:COM11	28:COM15	28:COM15
			0.000	-52.519	-0.064	-0.940	-0.135	-93.574
			-	30:COM17	22:COM9	18:COM5	22:COM9	22:COM9
6619	2855	+ve	8.104	61.204	0.090	0.621	0.138	98.222
			20:COM7	20:COM7	16:COM3	24:COM11	24:COM11	20:COM7
			-0.594	-45.979	-0.054	-1.007	-0.168	-81.090
			30:COM17	30:COM17	26:COM13	18:COM5	18:COM5	30:COM17
	2860	-ve	8.104	52.129	0.090	0.621	0.165	85.075
			20:COM7	20:COM7	16:COM3	24:COM11	16:COM3	28:COM15
			-0.594	-51.765	-0.054	-1.007	-0.075	-94.444
			30:COM17	30:COM17	26:COM13	18:COM5	26:COM13	22:COM9

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
6620	2856	+ve	16.609	88.201	0.256	1.079	0.531	138.002
			20:COM7	20:COM7	24:COM11	28:COM15	28:COM15	20:COM7
			-3.454	-79.980	-0.495	-1.306	-0.668	-131.761
			30:COM17	30:COM17	18:COM5	22:COM9	22:COM9	30:COM17
	2861	-ve	16.609	80.186	0.256	1.079	0.380	152.435
			20:COM7	28:COM15	24:COM11	28:COM15	24:COM11	20:COM7
			-3.454	-88.200	-0.495	-1.306	-1.329	-146.547
			30:COM17	22:COM9	18:COM5	22:COM9	18:COM5	30:COM17
6621	2857	+ve	6.773	78.993	0.508	17.777	0.368	93.058
			28:COM15	28:COM15	16:COM3	16:COM3	20:COM7	28:COM15
			-51.120	-105.089	-0.267	-4.084	-0.287	-103.566
			22:COM9	22:COM9	26:COM13	26:COM13	30:COM17	22:COM9
	2829	-ve	6.773	75.712	0.508	17.777	0.654	84.812
			28:COM15	28:COM15	16:COM3	16:COM3	16:COM3	20:COM7
			-51.120	-110.164	-0.267	-4.084	-0.151	-42.341
			22:COM9	22:COM9	26:COM13	26:COM13	26:COM13	30:COM17
6622	2858	+ve	0.000	37.518	0.431	10.966	0.383	45.625
			-	28:COM15	28:COM15	24:COM17	20:COM7	28:COM15
			-28.278	-67.871	-0.524	-13.094	-0.396	-65.574
			22:COM9	22:COM9	22:COM9	18:COM5	30:COM17	22:COM9
	2830	-ve	0.000	34.540	0.431	10.966	0.361	57.290
			-	28:COM15	28:COM15	24:COM17	28:COM15	20:COM7
			-28.278	-72.542	-0.524	-13.094	-0.538	-17.429
			22:COM9	22:COM9	22:COM9	18:COM5	22:COM9	30:COM17
6623	2859	+ve	0.000	36.661	0.318	10.828	0.395	44.825
			-	28:COM15	24:COM11	24:COM17	16:COM3	28:COM15
			-31.739	-69.017	-0.411	-12.325	-0.319	-66.151
			22:COM9	22:COM9	18:COM5	18:COM5	26:COM13	22:COM9
	2831	-ve	0.000	33.683	0.318	10.828	0.238	58.715
			-	28:COM15	24:COM11	24:COM17	24:COM11	20:COM7
			-31.739	-73.688	-0.411	-12.325	-0.325	-16.726
			22:COM9	22:COM9	18:COM5	18:COM5	18:COM5	30:COM17
6624	2860	+ve	0.000	36.351	0.501	11.478	0.258	44.364
			-	28:COM15	16:COM3	24:COM17	24:COM11	28:COM15
			-34.914	-69.018	-0.254	-12.427	-0.500	-66.582
			22:COM9	22:COM9	26:COM13	18:COM5	18:COM5	22:COM9
	2832	-ve	0.000	33.373	0.501	11.478	0.394	58.289
			-	28:COM15	16:COM3	24:COM17	16:COM3	20:COM7
			-34.914	-73.689	-0.254	-12.427	-0.202	-16.647
			22:COM9	22:COM9	26:COM13	18:COM5	26:COM13	30:COM17
6625	2861	+ve	9.807	72.043	0.191	7.994	5.497	84.851
			28:COM15	28:COM15	24:COM11	24:COM17	16:COM3	28:COM15
			-58.970	-105.166	-5.716	-18.340	-0.338	-103.198
			22:COM9	22:COM9	18:COM5	18:COM5	26:COM13	22:COM9
	2833	-ve	9.807	68.762	0.191	7.994	0.000	85.316
			28:COM15	28:COM15	24:COM11	24:COM17	-	20:COM7
			-58.970	-110.241	-5.716	-18.340	-4.509	-38.387
			22:COM9	22:COM9	18:COM5	18:COM5	18:COM5	30:COM17

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
6626	2874	+ve	0.000	0.541	0.135	0.296	0.000	0.029
			-	32:CVOL1	32:CVOL1	20:COM7	-	28:COM1
			-4.778	-1.117	0.000	0.000	-0.201	-0.347
			34:CVOL3	35:CVOL4	-	-	32:CVOL1	22:COM9
	2875	-ve	0.000	0.000	0.135	0.296	0.214	10.024
			-	-	32:CVOL1	20:COM7	32:CVOL1	32:CVOL1
			-4.778	-7.170	0.000	0.000	0.000	0.000
			34:CVOL3	32:CVOL1	-	-	-	-
6627	2874	+ve	1.650	1.117	4.402	0.365	0.000	0.263
			32:CVOL1	35:CVOL4	32:CVOL1	16:COM3	-	20:COM7
			0.000	-0.541	0.000	0.000	-0.161	-0.032
			-	32:CVOL1	-	-	32:CVOL1	30:COM1
	3109	-ve	1.650	0.905	4.402	0.365	0.738	0.249
			32:CVOL1	35:CVOL4	32:CVOL1	16:COM3	32:CVOL1	32:CVOL1
			0.000	-0.788	0.000	0.000	0.000	-0.031
			-	32:CVOL1	-	-	-	35:CVOL4
6628	2869	+ve	0.000	13.699	0.000	0.886	0.327	52.090
			-	20:COM7	-	20:COM7	34:CVOL3	20:COM7
			-17.309	0.000	-0.309	-0.080	0.000	0.000
			18:COM5	-	34:CVOL3	30:COM1	-	-
	3072	-ve	0.000	11.641	0.000	0.886	0.000	26.952
			-	20:COM7	-	20:COM7	-	20:COM7
			-17.309	0.000	-0.309	-0.080	-0.286	-0.859
			18:COM5	-	34:CVOL3	30:COM1	34:CVOL3	30:COM1
6629	2868	+ve	2.285	10.360	0.090	0.999	0.000	24.079
			28:COM1	20:COM7	20:COM7	16:COM3	-	20:COM7
			-3.856	0.000	0.000	0.000	-0.090	0.000
			22:COM9	-	-	-	22:COM9	-
	3078	-ve	2.285	8.408	0.090	0.999	0.083	12.836
			28:COM1	20:COM7	20:COM7	16:COM3	20:COM7	16:COM3
			-3.856	0.000	0.000	0.000	0.000	0.000
			22:COM9	-	-	-	-	-
6630	2869	+ve	16.599	0.000	0.000	10.698	10.440	0.000
			20:COM7	-	-	20:COM7	34:CVOL3	-
			0.000	-23.308	-6.262	-7.024	0.000	-1.369
			-	22:COM9	34:CVOL3	30:COM1	-	34:CVOL3
	2838	-ve	16.599	0.000	0.000	10.698	0.000	83.415
			20:COM7	-	-	20:COM7	-	20:COM7
			0.000	-32.164	-6.262	-7.024	-8.684	0.000
			-	22:COM9	34:CVOL3	30:COM1	34:CVOL3	-
6631	2868	+ve	4.305	0.000	0.167	5.197	0.062	0.000
			20:COM7	-	20:COM7	28:COM1	28:COM1	-
			-0.308	-19.746	-0.022	-5.232	-0.204	-2.215
			30:COM1	22:COM9	30:COM1	22:COM9	22:COM9	35:CVOL4
	2834	-ve	4.305	0.000	0.167	5.197	0.307	70.593
			20:COM7	-	20:COM7	28:COM1	20:COM7	20:COM7
			-0.308	-27.898	-0.022	-5.232	-0.008	0.000
			30:COM1	22:COM9	30:COM1	22:COM9	30:COM1	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
6632	2875	+ve	1.244	10.154	0.003	0.127	0.000	12.124
			24:COM1	32:CVOL1	16:COM3	16:COM3	-	20:COM7
			-2.528	0.000	-0.002	-0.071	-0.020	0.000
			18:COM5	-	26:COM1	26:COM1	18:COM5	-
	2876	-ve	1.244	0.000	0.003	0.127	0.001	14.077
			24:COM1	-	16:COM3	16:COM3	28:COM1	20:COM7
			-2.528	-10.659	-0.002	-0.071	-0.020	0.000
			18:COM5	32:CVOL1	26:COM1	26:COM1	22:COM9	-
6633	2838	+ve	172.467	80.314	0.017	3.941	4.520	357.917
			34:CVOL3	34:CVOL3	28:COM1	28:COM1	20:COM7	34:CVOL3
			0.000	0.000	-3.099	-2.391	0.000	0.000
			-	-	22:COM9	22:COM9	-	-
	3039	-ve	172.467	77.490	0.017	3.941	1.341	229.079
			34:CVOL3	34:CVOL3	28:COM1	28:COM1	20:COM7	34:CVOL3
			0.000	0.000	-3.099	-2.391	-0.898	0.000
			-	-	22:COM9	22:COM9	30:COM1	-
6634	2876	+ve	0.000	10.396	0.000	0.000	0.342	11.500
			-	32:CVOL1	-	-	32:CVOL1	32:CVOL1
			-2.064	0.000	-0.442	-2.022	0.000	0.000
			18:COM5	-	22:COM9	22:COM9	-	-
	2877	-ve	0.000	6.219	0.000	0.000	0.000	1.044
			-	32:CVOL1	-	-	-	34:CVOL3
			-2.064	0.000	-0.442	-2.022	-0.236	0.000
			18:COM5	-	22:COM9	22:COM9	22:COM9	-
6635	2829	+ve	1.907	27.438	0.420	18.745	0.035	56.989
			20:COM7	16:COM3	20:COM7	16:COM3	28:COM1	16:COM3
			-1.674	0.000	-0.042	-3.421	-0.607	0.000
			30:COM1	-	30:COM1	26:COM1	22:COM9	-
	2862	-ve	1.907	20.333	0.420	18.745	0.429	0.000
			20:COM7	16:COM3	20:COM7	16:COM3	20:COM7	-
			-1.674	0.000	-0.042	-3.421	-0.075	-1.658
			30:COM1	-	30:COM1	26:COM1	30:COM1	22:COM9
6636	2830	+ve	2.154	21.279	0.084	12.729	0.233	42.142
			28:COM1	35:CVOL4	24:COM1	24:COM1	16:COM3	35:CVOL4
			-1.843	0.000	-0.143	-15.645	-0.142	0.000
			22:COM9	-	18:COM5	18:COM5	26:COM1	-
	2863	-ve	2.154	14.280	0.084	12.729	0.130	0.000
			28:COM1	33:CVOL2	24:COM1	24:COM1	28:COM1	-
			-1.843	0.000	-0.143	-15.645	-0.183	-1.269
			22:COM9	-	18:COM5	18:COM5	22:COM9	34:CVOL3
6637	2831	+ve	2.806	21.826	0.098	12.430	0.168	43.506
			20:COM7	35:CVOL4	24:COM1	24:COM1	16:COM3	35:CVOL4
			-2.043	0.000	-0.119	-14.155	-0.138	0.000
			30:COM1	-	18:COM5	18:COM5	26:COM1	-
	2864	-ve	2.806	14.809	0.098	12.430	0.106	0.000
			20:COM7	20:COM7	24:COM1	24:COM1	24:COM1	-
			-2.043	0.000	-0.119	-14.155	-0.127	-1.238
			30:COM1	-	18:COM5	18:COM5	18:COM5	34:CVOL3

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
6638	2832	+ve	3.473	21.246	0.149	13.992	0.239	42.066
			20:COM7	35:CVOL4	16:COM3	24:COM1	20:COM7	35:CVOL4
			-2.525	0.000	-0.128	-14.274	-0.241	0.000
			30:COM1	-	26:COM1	18:COM5	30:COM1	-
	2865	-ve	3.473	14.218	0.149	13.992	0.171	0.000
			20:COM7	33:CVOL2	16:COM3	24:COM1	16:COM3	-
			-2.525	0.000	-0.128	-14.274	-0.120	-1.261
			30:COM1	-	26:COM1	18:COM5	26:COM1	34:CVOL3
6639	2833	+ve	2.922	27.975	0.000	2.669	1.956	58.685
			20:COM7	16:COM3	-	24:COM1	20:COM7	16:COM3
			-2.098	0.000	-1.170	-20.006	0.000	0.000
			30:COM1	-	22:COM9	18:COM5	-	-
	2866	-ve	2.922	20.871	0.000	2.669	0.000	0.000
			20:COM7	16:COM3	-	24:COM1	-	-
			-2.098	0.000	-1.170	-20.006	-0.980	-1.319
			30:COM1	-	22:COM9	18:COM5	18:COM5	22:COM9
6641	2862	+ve	3.125	10.657	0.004	0.000	0.079	39.928
			20:COM7	16:COM3	28:COM1	-	20:COM7	16:COM3
			-2.860	0.000	-0.087	-1.014	-0.001	0.000
			30:COM1	-	22:COM9	18:COM5	30:COM1	-
	2959	-ve	3.125	8.752	0.004	0.000	0.010	21.106
			20:COM7	16:COM3	28:COM1	-	28:COM1	16:COM3
			-2.860	0.000	-0.087	-1.014	-0.093	-6.222
			30:COM1	-	22:COM9	18:COM5	22:COM9	26:COM1
6642	2863	+ve	9.409	7.242	0.009	0.321	0.100	20.381
			28:COM1	33:CVOL2	24:COM1	24:COM1	16:COM3	16:COM3
			-10.533	0.000	-0.103	-1.062	-0.012	0.000
			22:COM9	-	18:COM5	18:COM5	26:COM1	-
	2964	-ve	9.409	5.297	0.009	0.321	0.006	9.537
			28:COM1	20:COM7	24:COM1	24:COM1	24:COM1	16:COM3
			-10.533	0.000	-0.103	-1.062	-0.101	-4.338
			22:COM9	-	18:COM5	18:COM5	18:COM5	26:COM1
6643	2864	+ve	13.834	7.424	0.010	0.242	0.108	21.772
			28:COM1	20:COM7	24:COM1	24:COM1	20:COM7	16:COM3
			-15.858	0.000	-0.108	-1.053	-0.013	0.000
			22:COM9	-	18:COM5	18:COM5	30:COM1	-
	2969	-ve	13.834	5.518	0.010	0.242	0.007	10.339
			28:COM1	20:COM7	24:COM1	24:COM1	24:COM1	16:COM3
			-15.858	0.000	-0.108	-1.053	-0.104	-4.471
			22:COM9	-	18:COM5	18:COM5	18:COM5	26:COM1
6644	2865	+ve	11.040	6.978	0.024	0.274	0.132	21.951
			28:COM1	33:CVOL2	28:COM1	24:COM1	20:COM7	16:COM3
			-12.330	0.000	-0.121	-1.204	-0.037	0.000
			22:COM9	-	22:COM9	18:COM5	30:COM1	-
	2974	-ve	11.040	5.064	0.024	0.274	0.018	10.571
			28:COM1	20:COM7	28:COM1	24:COM1	24:COM1	16:COM3
			-12.330	0.000	-0.121	-1.204	-0.111	-6.053
			22:COM9	-	22:COM9	18:COM5	18:COM5	26:COM1

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
6645	2866	+ve	1.607	10.424	0.004	0.188	0.111	39.574
			20:COM7	16:COM3	28:COM15	24:COM17	20:COM7	16:COM3
			-1.078	0.000	-0.105	-0.316	-0.008	0.000
			30:COM17	-	22:COM9	18:COM5	30:COM17	-
	2979	-ve	1.607	8.411	0.004	0.188	0.001	21.206
			20:COM7	16:COM3	28:COM15	24:COM17	24:COM11	34:CVOL3
			-1.078	0.000	-0.105	-0.316	-0.106	0.000
			30:COM17	-	22:COM9	18:COM5	18:COM5	-
6646	2876	+ve	15.596	0.000	0.000	3.612	3.640	0.000
			32:CVOL1	-	-	28:COM15	20:COM7	-
			0.000	-21.055	-3.480	-4.013	0.000	-5.554
			-	32:CVOL1	22:COM9	22:COM9	-	22:COM9
	3102	-ve	15.596	0.000	0.000	3.612	0.000	40.541
			32:CVOL1	-	-	28:COM15	-	32:CVOL1
			0.000	-25.790	-3.480	-4.013	-3.165	0.000
			-	32:CVOL1	22:COM9	22:COM9	22:COM9	-
6647	2870	+ve	2.549	7.842	0.109	0.755	0.000	34.990
			24:COM17	33:CVOL2	16:COM3	16:COM3	-	16:COM3
			-3.494	0.000	0.000	0.000	-0.114	0.000
			18:COM5	-	-	-	18:COM5	-
	3045	-ve	2.549	5.830	0.109	0.755	0.104	21.950
			24:COM17	33:CVOL2	16:COM3	16:COM3	16:COM3	16:COM3
			-3.494	0.000	0.000	0.000	0.000	-6.229
			18:COM5	-	-	-	-	26:COM13
6648	2871	+ve	8.957	7.626	0.148	0.959	0.019	26.274
			28:COM15	16:COM3	16:COM3	16:COM3	24:COM11	16:COM3
			-9.114	0.000	-0.018	-0.223	-0.157	0.000
			22:COM9	-	26:COM13	26:COM13	18:COM5	-
	3051	-ve	8.957	5.911	0.148	0.959	0.134	18.693
			28:COM15	16:COM3	16:COM3	16:COM3	16:COM3	16:COM3
			-9.114	0.000	-0.018	-0.223	-0.016	-7.414
			22:COM9	-	26:COM13	26:COM13	26:COM13	26:COM13
6649	2872	+ve	14.285	10.622	0.129	0.245	0.074	20.312
			20:COM7	16:COM3	20:COM7	16:COM3	28:COM15	16:COM3
			-12.964	0.000	-0.045	-0.013	-0.162	0.000
			30:COM17	-	30:COM17	26:COM13	22:COM9	-
	3054	-ve	14.285	8.909	0.129	0.245	0.095	12.120
			20:COM7	16:COM3	20:COM7	16:COM3	20:COM7	16:COM3
			-12.964	0.000	-0.045	-0.013	-0.018	-2.056
			30:COM17	-	30:COM17	26:COM13	30:COM17	26:COM13
6650	2873	+ve	5.686	6.509	0.358	12.392	0.242	0.781
			20:COM7	24:COM11	16:COM3	24:COM17	16:COM3	24:COM17
			-2.928	-22.717	-0.353	-19.228	-0.166	-1.445
			30:COM17	18:COM5	26:COM13	18:COM5	26:COM13	18:COM5
	2839	-ve	5.686	4.381	0.358	12.392	0.367	29.083
			20:COM7	24:COM11	16:COM3	24:COM17	16:COM3	16:COM3
			-2.928	-26.055	-0.353	-19.228	-0.285	-6.062
			30:COM17	18:COM5	26:COM13	18:COM5	26:COM13	26:COM13

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
6651	2872	+ve	3.829	0.000	0.782	12.670	0.507	0.000
			20:COM7	-	24:COM11	16:COM3	16:COM3	-
			-2.776	-16.743	-0.901	-10.459	-0.434	-1.070
			30:COM17	18:COM5	18:COM5	26:COM13	26:COM13	18:COM5
	2837	-ve	3.829	0.000	0.782	12.670	0.572	22.636
			20:COM7	-	24:COM11	16:COM3	28:COM15	16:COM3
			-2.776	-20.080	-0.901	-10.459	-0.647	0.000
			30:COM17	18:COM5	18:COM5	26:COM13	22:COM9	-
6652	2871	+ve	2.175	0.000	0.555	17.697	0.387	0.000
			20:COM7	-	16:COM3	16:COM3	24:COM11	-
			-0.645	-13.729	-0.400	-14.565	-0.456	-1.219
			30:COM17	33:CVOL2	26:COM13	26:COM13	18:COM5	35:CVOL4
	2836	-ve	2.175	0.000	0.555	17.697	0.262	18.276
			20:COM7	-	16:COM3	16:COM3	16:COM3	33:CVOL2
			-0.645	-17.040	-0.400	-14.565	-0.138	0.000
			30:COM17	33:CVOL2	26:COM13	26:COM13	26:COM13	-
6653	2870	+ve	1.861	0.000	0.315	6.747	0.263	0.000
			20:COM7	-	16:COM3	16:COM3	24:COM11	-
			-1.023	-17.245	-0.311	-8.447	-0.440	-1.089
			30:COM17	18:COM5	26:COM13	26:COM13	18:COM5	22:COM9
	2835	-ve	1.861	0.000	0.315	6.747	0.038	23.056
			20:COM7	-	16:COM3	16:COM3	28:COM15	16:COM3
			-1.023	-20.583	-0.311	-8.447	-0.211	0.000
			30:COM17	18:COM5	26:COM13	26:COM13	22:COM9	-
6654	2878	+ve	0.131	2.556	0.000	0.027	0.130	0.189
			28:COM15	34:CVOL3	-	24:COM17	16:COM3	34:CVOL3
			-0.385	0.000	-0.157	-0.115	0.000	0.000
			22:COM9	-	18:COM5	18:COM5	-	-
	2879	-ve	0.131	0.000	0.000	0.027	0.000	0.197
			28:COM15	-	-	24:COM17	-	24:COM17
			-0.385	-1.535	-0.157	-0.115	-0.080	-0.784
			22:COM9	32:CVOL1	18:COM5	18:COM5	22:COM9	18:COM5
6655	2879	+ve	0.400	6.616	0.002	0.573	0.017	0.620
			24:COM17	32:CVOL1	28:COM15	34:CVOL3	20:COM7	32:CVOL1
			-1.846	0.000	-0.005	0.000	-0.004	-1.073
			18:COM5	-	22:COM9	-	30:COM17	35:CVOL4
	2882	-ve	0.400	0.000	0.002	0.573	0.012	19.178
			24:COM17	-	28:COM15	34:CVOL3	28:COM15	32:CVOL1
			-1.846	-12.287	-0.005	0.000	-0.014	0.000
			18:COM5	32:CVOL1	22:COM9	-	22:COM9	-
6656	2839	+ve	7.212	87.235	2.601	3.696	1.261	159.231
			28:COM15	16:COM3	20:COM7	16:COM3	28:COM15	16:COM3
			-9.708	-59.895	-1.376	0.000	-2.506	-101.659
			22:COM9	26:COM13	30:COM17	-	22:COM9	26:COM13
	3056	-ve	7.212	85.293	2.601	3.696	1.932	14.155
			28:COM15	16:COM3	20:COM7	16:COM3	16:COM3	16:COM3
			-9.708	-61.352	-1.376	0.000	-1.115	0.000
			22:COM9	26:COM13	30:COM17	-	26:COM13	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
6661	2873	+ve	8.448	13.880	0.150	0.602	0.100	30.064
			28:COM15	16:COM3	20:COM7	16:COM3	28:COM15	16:COM3
			-11.976	-8.884	-0.081	0.000	-0.167	-10.180
			22:COM9	26:COM13	30:COM17	-	22:COM9	26:COM13
	3099	-ve	8.448	12.418	0.150	0.602	0.087	9.429
			28:COM15	16:COM3	20:COM7	16:COM3	20:COM7	20:COM7
			-11.976	-9.981	-0.081	0.000	-0.038	0.000
			22:COM9	26:COM13	30:COM17	-	30:COM17	-
6662	2882	+ve	1.748	7.495	0.012	0.910	0.027	15.597
			24:COM11	32:CVOL1	20:COM7	16:COM3	28:COM15	32:CVOL1
			-5.374	0.000	-0.009	0.000	-0.036	0.000
			18:COM5	-	30:COM17	-	22:COM9	-
	3187	-ve	1.748	0.000	0.012	0.910	0.025	5.978
			24:COM11	-	20:COM7	16:COM3	20:COM7	16:COM3
			-5.374	-2.932	-0.009	0.000	-0.020	-0.689
			18:COM5	32:CVOL1	30:COM17	-	30:COM17	26:COM13
6663	2825	+ve	46.902	129.099	5.335	2.832	5.051	224.638
			16:COM3	16:COM3	20:COM7	16:COM3	20:COM7	16:COM3
			-31.808	-95.402	-5.404	-0.040	-4.740	-175.488
			26:COM13	26:COM13	30:COM17	26:COM13	30:COM17	26:COM13
	2947	-ve	46.902	126.771	5.335	2.832	4.332	10.619
			16:COM3	16:COM3	20:COM7	16:COM3	20:COM7	24:COM11
			-31.808	-97.147	-5.404	-0.040	-4.136	-14.721
			26:COM13	26:COM13	30:COM17	26:COM13	30:COM17	18:COM5
6664	2884	+ve	8.396	13.698	0.000	1.187	0.069	39.562
			20:COM7	34:CVOL3	-	24:COM11	20:COM7	20:COM7
			-5.398	0.000	-0.066	-2.069	0.000	0.000
			30:COM17	-	22:COM9	18:COM5	-	-
	3059	-ve	8.396	11.878	0.000	1.187	0.000	15.928
			20:COM7	34:CVOL3	-	24:COM11	-	20:COM7
			-5.398	0.000	-0.066	-2.069	-0.061	-6.499
			30:COM17	-	22:COM9	18:COM5	22:COM9	30:COM17
6665	2886	+ve	0.357	0.000	0.912	18.490	0.446	0.000
			28:COM15	-	20:COM7	16:COM3	24:COM11	-
			-1.159	-8.552	-0.624	-17.968	-0.514	-0.862
			22:COM9	22:COM9	30:COM17	26:COM13	18:COM5	22:COM9
	2815	-ve	0.357	0.000	0.912	18.490	0.649	6.813
			28:COM15	-	20:COM7	16:COM3	20:COM7	20:COM7
			-1.159	-10.554	-0.624	-17.968	-0.501	0.000
			22:COM9	22:COM9	30:COM17	26:COM13	30:COM17	-
6666	2887	+ve	0.098	0.000	0.390	19.380	0.446	0.000
			28:COM15	-	16:COM3	16:COM3	24:COM11	-
			-1.286	-6.167	-0.271	-16.449	-0.521	-0.816
			22:COM9	22:COM9	26:COM13	26:COM13	18:COM5	22:COM9
	2816	-ve	0.098	0.000	0.390	19.380	0.374	4.845
			28:COM15	-	16:COM3	16:COM3	16:COM3	20:COM7
			-1.286	-8.169	-0.271	-16.449	-0.360	0.000
			22:COM9	22:COM9	26:COM13	26:COM13	26:COM13	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
6667	2888	+ve	0.124	0.000	0.559	21.195	0.448	0.000
			24:COM1	-	28:COM1	16:COM3	24:COM1	-
			-1.095	-8.664	-0.659	-16.710	-0.511	-0.882
			18:COM5	22:COM9	22:COM9	26:COM1	18:COM5	22:COM9
	2817	-ve	0.124	0.000	0.559	21.195	0.532	6.879
			24:COM1	-	28:COM1	16:COM3	28:COM1	20:COM7
			-1.095	-10.666	-0.659	-16.710	-0.670	0.000
			18:COM5	22:COM9	22:COM9	26:COM1	22:COM9	-
6668	2886	+ve	2.068	4.356	0.027	0.471	0.009	18.270
			28:COM1	16:COM3	16:COM3	16:COM3	24:COM1	16:COM3
			-3.134	0.000	-0.008	0.000	-0.028	-2.546
			22:COM9	-	26:COM1	-	18:COM5	26:COM1
	3116	-ve	2.068	3.681	0.027	0.471	0.025	15.497
			28:COM1	16:COM3	16:COM3	16:COM3	16:COM3	16:COM3
			-3.134	0.000	-0.008	0.000	-0.007	-8.178
			22:COM9	-	26:COM1	-	26:COM1	26:COM1
6669	2887	+ve	4.972	3.680	0.036	0.456	0.014	17.047
			20:COM7	16:COM3	20:COM7	16:COM3	24:COM1	16:COM3
			-4.675	0.000	-0.021	0.000	-0.027	-3.418
			30:COM1	-	30:COM1	-	18:COM5	26:COM1
	6234	-ve	4.972	3.360	0.036	0.456	0.016	15.923
			20:COM7	16:COM3	20:COM7	16:COM3	20:COM7	16:COM3
			-4.675	0.000	-0.021	0.000	-0.015	-5.940
			30:COM1	-	30:COM1	-	30:COM1	26:COM1
6670	2806	+ve	9.079	33.100	0.796	25.942	1.083	68.151
			20:COM7	34:CVOL3	20:COM7	28:COM1	28:COM1	34:CVOL3
			-2.119	0.000	-0.639	-34.179	-1.262	0.000
			30:COM1	-	30:COM1	22:COM9	22:COM9	-
	2883	-ve	9.079	25.861	0.796	25.942	0.612	0.000
			20:COM7	34:CVOL3	20:COM7	28:COM1	20:COM7	-
			-2.119	0.000	-0.639	-34.179	-0.422	-1.511
			30:COM1	-	30:COM1	22:COM9	30:COM1	22:COM9
6671	2808	+ve	7.793	60.248	0.637	15.450	0.510	155.024
			20:COM7	34:CVOL3	16:COM3	24:COM1	24:COM1	34:CVOL3
			0.000	0.000	-0.617	-18.757	-0.519	0.000
			-	-	26:COM1	18:COM5	18:COM5	-
	2885	-ve	7.793	53.020	0.637	15.450	0.982	22.233
			20:COM7	34:CVOL3	16:COM3	24:COM1	16:COM3	35:CVOL4
			0.000	0.000	-0.617	-18.757	-0.944	0.000
			-	-	26:COM1	18:COM5	26:COM1	-
6673	2885	+ve	5.475	13.537	0.028	0.000	0.172	36.933
			28:COM1	32:CVOL1	24:COM1	-	16:COM3	16:COM3
			-7.575	0.000	-0.160	-2.443	-0.042	0.000
			22:COM9	-	18:COM5	18:COM5	26:COM1	-
	3061	-ve	5.475	11.651	0.028	0.000	0.012	16.996
			28:COM1	34:CVOL3	24:COM1	-	24:COM1	16:COM3
			-7.575	0.000	-0.160	-2.443	-0.145	-3.857
			22:COM9	-	18:COM5	18:COM5	18:COM5	26:COM1

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
6674	2890	+ve	35.640	126.899	0.399	10.398	2.122	62.619
			20:COM7	28:COM15	28:COM15	20:COM7	16:COM3	28:COM15
			-23.226	-136.868	-1.427	-1.189	-0.825	-90.258
			30:COM17	22:COM9	22:COM9	30:COM17	26:COM13	22:COM9
	2814	-ve	35.640	118.066	0.399	10.398	1.064	380.168
			20:COM7	28:COM15	28:COM15	20:COM7	28:COM15	20:COM7
			-23.226	-149.957	-1.427	-1.189	-3.139	-339.154
			30:COM17	22:COM9	22:COM9	30:COM17	22:COM9	30:COM17
6675	2890	+ve	2.571	12.900	0.095	2.382	0.049	25.524
			28:COM15	20:COM7	20:COM7	20:COM7	28:COM15	20:COM7
			-9.545	0.000	-0.027	-1.911	-0.069	0.000
			22:COM9	-	30:COM17	30:COM17	22:COM9	-
	3064	-ve	2.571	12.069	0.095	2.382	0.108	19.046
			28:COM15	20:COM7	20:COM7	20:COM7	20:COM7	20:COM7
			-9.545	-0.085	-0.027	-1.911	-0.006	-10.459
			22:COM9	30:COM17	30:COM17	30:COM17	30:COM17	30:COM17
6676	2894	+ve	10.870	41.127	0.719	4.169	0.831	80.103
			20:COM7	16:COM3	20:COM7	32:CVOL1	28:COM15	16:COM3
			-5.734	0.000	-0.691	-0.280	-0.885	-24.757
			30:COM17	-	30:COM17	26:COM13	22:COM9	26:COM13
	2895	-ve	10.870	38.404	0.719	4.169	0.534	11.180
			20:COM7	16:COM3	20:COM7	32:CVOL1	20:COM7	24:COM11
			-5.734	0.000	-0.691	-0.280	-0.533	-51.253
			30:COM17	-	30:COM17	26:COM13	30:COM17	18:COM5
6677	2883	+ve	7.408	13.847	0.004	0.274	0.105	39.229
			28:COM15	34:CVOL3	24:COM11	28:COM15	16:COM3	16:COM3
			-9.770	0.000	-0.109	-1.035	0.000	0.000
			22:COM9	-	18:COM5	22:COM9	-	-
	3068	-ve	7.408	12.086	0.004	0.274	0.016	16.357
			28:COM15	34:CVOL3	24:COM11	28:COM15	24:COM11	16:COM3
			-9.770	0.000	-0.109	-1.035	-0.102	-3.766
			22:COM9	-	18:COM5	22:COM9	18:COM5	26:COM13
6678	2891	+ve	12.657	10.865	9.492	8.706	1.114	19.756
			20:COM7	24:COM11	20:COM7	24:COM11	28:COM15	20:COM7
			-8.822	-24.940	-3.805	-14.615	-1.515	-9.251
			30:COM17	18:COM5	30:COM17	18:COM5	22:COM9	30:COM17
	2884	-ve	12.657	10.756	9.492	8.706	1.618	27.171
			20:COM7	24:COM11	20:COM7	24:COM11	20:COM7	20:COM7
			-8.822	-25.085	-3.805	-14.615	-0.234	-12.208
			30:COM17	18:COM5	30:COM17	18:COM5	30:COM17	30:COM17
6679	2892	+ve	7.706	1.936	3.906	8.624	1.972	2.748
			24:COM11	28:COM15	24:COM11	20:COM7	16:COM3	28:COM15
			-16.061	-5.449	-6.198	-3.648	-1.185	-23.446
			18:COM5	22:COM9	18:COM5	30:COM17	26:COM13	22:COM9
	3071	-ve	7.706	1.732	3.906	8.624	1.124	1.858
			24:COM11	28:COM15	24:COM11	20:COM7	24:COM11	28:COM15
			-16.061	-5.721	-6.198	-3.648	-1.690	-20.341
			18:COM5	22:COM9	18:COM5	30:COM17	18:COM5	22:COM9

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
6680	2893	+ve	6.465	7.932	0.230	2.666	0.258	12.597
			28:COM15	28:COM15	24:COM11	20:COM7	16:COM3	16:COM3
			-8.605	-21.467	-0.366	-1.391	-0.156	-7.457
			22:COM9	22:COM9	18:COM5	30:COM17	26:COM13	26:COM13
	3124	-ve	6.465	7.451	0.230	2.666	0.165	30.303
			28:COM15	28:COM15	24:COM11	20:COM7	24:COM11	16:COM3
			-8.605	-22.107	-0.366	-1.391	-0.252	-5.580
			22:COM9	22:COM9	18:COM5	30:COM17	18:COM5	26:COM13
6681	2895	+ve	10.338	26.094	0.284	1.786	0.063	11.285
			20:COM7	16:COM3	20:COM7	16:COM3	28:COM15	24:COM11
			-6.494	0.000	-0.119	-0.647	-0.272	-51.193
			30:COM17	-	30:COM17	26:COM13	22:COM9	18:COM5
	2896	-ve	10.338	23.372	0.284	1.786	0.307	0.000
			20:COM7	16:COM3	20:COM7	16:COM3	20:COM7	-
			-6.494	-0.732	-0.119	-0.647	-0.193	-64.015
			30:COM17	26:COM13	30:COM17	26:COM13	30:COM17	22:COM9
6682	2896	+ve	10.087	11.805	0.224	2.322	0.070	0.000
			16:COM3	16:COM3	20:COM7	16:COM3	28:COM15	-
			-6.910	-7.265	-0.137	-1.708	-0.199	-63.981
			26:COM13	26:COM13	30:COM17	26:COM13	22:COM9	22:COM9
	2897	-ve	10.087	9.083	0.224	2.322	0.272	0.000
			16:COM3	16:COM3	20:COM7	16:COM3	20:COM7	-
			-6.910	-9.307	-0.137	-1.708	-0.229	-67.401
			26:COM13	26:COM13	30:COM17	26:COM13	30:COM17	18:COM5
6683	2897	+ve	10.380	2.381	0.271	1.929	0.082	0.000
			16:COM3	24:COM11	20:COM7	16:COM3	28:COM15	-
			-7.419	-20.726	-0.144	-1.650	-0.204	-67.372
			26:COM13	18:COM5	30:COM17	26:COM13	22:COM9	18:COM5
	2898	-ve	10.380	0.339	0.271	1.929	0.362	7.683
			16:COM3	24:COM11	20:COM7	16:COM3	20:COM7	24:COM11
			-7.419	-23.449	-0.144	-1.650	-0.234	-60.271
			26:COM13	18:COM5	30:COM17	26:COM13	30:COM17	18:COM5
6684	2898	+ve	11.162	0.000	0.837	0.428	0.000	7.527
			16:COM3	-	20:COM7	33:CVOL2	-	24:COM11
			-7.802	-36.111	0.000	-3.367	-0.591	-60.386
			26:COM13	18:COM5	-	32:CVOL1	18:COM5	18:COM5
	2899	-ve	11.162	0.000	0.837	0.428	1.123	68.341
			16:COM3	-	20:COM7	33:CVOL2	20:COM7	16:COM3
			-7.802	-38.834	0.000	-3.367	0.000	-33.780
			26:COM13	18:COM5	-	32:CVOL1	-	26:COM13
6685	2899	+ve	16.567	0.000	1.094	0.000	0.000	68.206
			16:COM3	-	20:COM7	-	-	16:COM3
			-6.206	-52.259	0.000	-8.882	-1.052	-33.958
			26:COM13	18:COM5	-	34:CVOL3	18:COM5	26:COM13
	2823	-ve	16.567	0.000	1.094	0.000	1.193	173.652
			16:COM3	-	20:COM7	-	20:COM7	16:COM3
			-6.206	-54.982	0.000	-8.882	-0.258	-3.558
			26:COM13	18:COM5	-	34:CVOL3	30:COM17	26:COM13

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
6686	2900	+ve	15.493	41.490	0.301	3.911	1.265	82.979
			16:COM3	16:COM3	28:COM15	32:CVOL1	20:COM7	16:COM3
			-10.616	0.000	-1.091	-0.508	-0.244	-32.339
			26:COM1	-	22:COM9	30:COM1	30:COM1	26:COM1
	2901	-ve	15.493	38.759	0.301	3.911	0.359	14.665
			16:COM3	16:COM3	28:COM15	32:CVOL1	28:COM15	24:COM1
			-10.616	0.000	-1.091	-0.508	-0.896	-59.701
			26:COM1	-	22:COM9	30:COM1	22:COM9	18:COM5
6687	2901	+ve	16.026	25.850	0.133	1.866	0.151	14.775
			16:COM3	16:COM3	20:COM7	24:COM1	24:COM11	24:COM1
			-11.729	0.000	-0.144	-1.926	-0.116	-59.569
			26:COM1	-	30:COM1	18:COM5	18:COM5	18:COM5
	2902	-ve	16.026	23.119	0.133	1.866	0.301	0.000
			16:COM3	16:COM3	20:COM7	24:COM1	20:COM7	-
			-11.729	-1.088	-0.144	-1.926	-0.287	-70.646
			26:COM1	26:COM1	30:COM1	18:COM5	30:COM1	18:COM5
6688	2902	+ve	16.803	11.012	0.185	2.060	0.108	0.000
			16:COM3	16:COM3	16:COM3	24:COM1	24:COM11	-
			-12.508	-7.481	-0.114	-2.851	-0.181	-70.662
			26:COM1	26:COM1	26:COM1	18:COM5	18:COM5	18:COM5
	2903	-ve	16.803	8.413	0.185	2.060	0.350	0.000
			16:COM3	24:COM11	16:COM3	24:COM1	20:COM7	-
			-12.508	-9.660	-0.114	-2.851	-0.285	-66.915
			26:COM1	18:COM5	26:COM1	18:COM5	30:COM1	34:CVOL3
6689	2903	+ve	17.804	1.389	0.232	1.225	0.148	0.000
			16:COM3	24:COM11	16:COM3	24:COM1	24:COM11	-
			-12.909	-21.197	-0.148	-3.038	-0.205	-66.950
			26:COM1	18:COM5	26:COM1	18:COM5	18:COM5	34:CVOL3
	2904	-ve	17.804	0.000	0.232	1.225	0.376	2.097
			16:COM3	-	16:COM3	24:COM1	20:COM7	24:COM1
			-12.909	-23.927	-0.148	-3.038	-0.269	-53.502
			26:COM1	18:COM5	26:COM1	18:COM5	30:COM1	18:COM5
6690	2904	+ve	18.977	0.000	0.863	0.000	0.398	1.957
			16:COM3	-	20:COM7	-	28:COM15	24:COM1
			-12.940	-36.286	-0.308	-5.266	-0.780	-53.514
			26:COM1	18:COM5	30:COM1	32:CVOL1	22:COM9	18:COM5
	2905	-ve	18.977	0.000	0.863	0.000	0.931	64.186
			16:COM3	-	20:COM7	-	20:COM7	16:COM3
			-12.940	-39.016	-0.308	-5.266	-0.217	-24.343
			26:COM1	18:COM5	30:COM1	32:CVOL1	30:COM1	26:COM1
6691	2905	+ve	20.033	0.000	1.184	0.000	0.509	64.149
			16:COM3	-	20:COM7	-	28:COM15	16:COM3
			-9.679	-52.439	-0.299	-10.473	-1.456	-24.317
			26:COM1	18:COM5	30:COM1	32:CVOL1	22:COM9	26:COM1
	2824	-ve	20.033	0.000	1.184	0.000	1.125	170.229
			16:COM3	-	20:COM7	-	20:COM7	16:COM3
			-9.679	-55.169	-0.299	-10.473	-0.326	0.000
			26:COM1	18:COM5	30:COM1	32:CVOL1	30:COM1	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
6692	2906	+ve	5.858	23.882	0.352	7.664	0.328	48.504
			28:COM15	16:COM3	28:COM15	20:COM7	20:COM7	16:COM3
			-8.413	-1.231	-0.320	0.000	-0.387	-31.544
			22:COM9	26:COM13	22:COM9	-	30:COM17	26:COM13
	2907	-ve	5.858	21.634	0.352	7.664	0.318	9.603
			28:COM15	16:COM3	28:COM15	20:COM7	28:COM15	24:COM17
			-8.413	-2.917	-0.320	0.000	-0.315	-32.977
			22:COM9	26:COM13	22:COM9	-	22:COM9	18:COM5
6693	2907	+ve	6.763	15.521	0.043	3.271	0.091	9.727
			28:COM15	16:COM3	24:COM11	16:COM3	28:COM15	24:COM17
			-8.812	-5.667	-0.087	0.000	-0.104	-32.906
			22:COM9	26:COM13	18:COM5	-	22:COM9	18:COM5
	2908	-ve	6.763	13.272	0.043	3.271	0.099	0.000
			28:COM15	16:COM3	24:COM11	16:COM3	28:COM15	-
			-8.812	-7.354	-0.087	0.000	-0.198	-26.256
			22:COM9	26:COM13	18:COM5	-	22:COM9	35:CVOL4
6694	2908	+ve	7.980	8.778	0.095	0.000	0.104	0.000
			28:COM15	24:COM11	16:COM3	-	28:COM15	-
			-9.619	-10.969	-0.037	-3.327	-0.211	-26.252
			22:COM9	18:COM5	26:COM13	18:COM5	22:COM9	35:CVOL4
	2909	-ve	7.980	7.091	0.095	0.000	0.118	6.973
			28:COM15	24:COM11	16:COM3	-	20:COM7	24:COM17
			-9.619	-13.218	-0.037	-3.327	-0.112	-37.413
			22:COM9	18:COM5	26:COM13	18:COM5	30:COM17	18:COM5
6695	2909	+ve	9.226	4.419	0.161	0.000	0.180	6.850
			28:COM15	24:COM11	20:COM7	-	28:COM15	24:COM17
			-10.586	-19.306	-0.111	-7.828	-0.233	-37.468
			22:COM9	18:COM5	30:COM17	22:COM9	22:COM9	18:COM5
	2910	-ve	9.226	2.733	0.161	0.000	0.170	39.440
			28:COM15	24:COM11	20:COM7	-	20:COM7	16:COM3
			-10.586	-21.554	-0.111	-7.828	-0.124	-37.194
			22:COM9	18:COM5	30:COM17	22:COM9	30:COM17	26:COM13
6696	2910	+ve	10.120	1.819	0.293	0.000	0.350	39.130
			28:COM15	24:COM11	20:COM7	-	20:COM7	16:COM3
			-10.160	-33.373	-0.436	-11.881	-0.101	-37.276
			22:COM9	18:COM5	30:COM17	22:COM9	30:COM17	26:COM13
	2816	-ve	10.120	0.133	0.293	0.000	0.552	106.354
			28:COM15	24:COM11	20:COM7	-	20:COM7	16:COM3
			-10.160	-35.622	-0.436	-11.881	-0.581	-39.133
			22:COM9	18:COM5	30:COM17	22:COM9	30:COM17	26:COM13
6697	2911	+ve	23.836	27.532	2.642	20.700	2.722	49.212
			28:COM15	16:COM3	20:COM7	20:COM7	28:COM15	16:COM3
			-31.932	-3.162	-2.306	-3.847	-3.173	-40.836
			22:COM9	26:COM13	30:COM17	30:COM17	22:COM9	26:COM13
	2912	-ve	23.836	25.283	2.642	20.700	1.980	5.991
			28:COM15	16:COM3	20:COM7	20:COM7	20:COM7	24:COM17
			-31.932	-4.849	-2.306	-3.847	-1.775	-41.299
			22:COM9	26:COM13	30:COM17	30:COM17	30:COM17	18:COM5

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
6698	2912	+ve	15.656	14.670	0.158	14.798	0.178	6.130
			28:COM15	16:COM3	28:COM15	20:COM7	20:COM7	24:COM11
			-23.069	-7.672	-0.230	-4.606	-0.142	-40.921
			22:COM9	26:COM13	22:COM9	30:COM17	30:COM17	18:COM5
	2913	-ve	15.656	12.421	0.158	14.798	0.186	0.000
			28:COM15	16:COM3	28:COM15	20:COM7	28:COM15	-
			-23.069	-9.359	-0.230	-4.606	-0.291	-30.816
			22:COM9	26:COM13	22:COM9	30:COM17	22:COM9	34:CVOL3
6699	2913	+ve	11.020	7.807	0.155	7.676	0.110	0.000
			28:COM15	24:COM11	20:COM7	20:COM7	28:COM15	-
			-17.840	-13.271	-0.094	-5.738	-0.246	-30.679
			22:COM9	18:COM5	30:COM17	30:COM17	22:COM9	34:CVOL3
	2914	-ve	11.020	6.120	0.155	7.676	0.095	8.735
			28:COM15	24:COM11	20:COM7	20:COM7	24:COM11	24:COM11
			-17.840	-15.520	-0.094	-5.738	-0.110	-38.662
			22:COM9	18:COM5	30:COM17	30:COM17	18:COM5	18:COM5
6700	2914	+ve	7.872	3.428	0.208	3.676	0.067	8.687
			28:COM15	24:COM11	20:COM7	28:COM15	24:COM11	24:COM11
			-14.316	-21.520	-0.100	-9.418	-0.195	-38.708
			22:COM9	18:COM5	30:COM17	22:COM9	18:COM5	18:COM5
	2915	-ve	7.872	1.741	0.208	3.676	0.296	45.631
			28:COM15	24:COM11	20:COM7	28:COM15	20:COM7	16:COM3
			-14.316	-23.769	-0.100	-9.418	-0.213	-36.534
			22:COM9	18:COM5	30:COM17	22:COM9	30:COM17	26:COM13
6701	2915	+ve	6.135	0.836	0.810	1.544	0.604	45.401
			28:COM15	24:COM11	20:COM7	28:COM15	28:COM15	16:COM3
			-11.206	-35.497	-0.795	-13.281	-0.501	-36.630
			22:COM9	18:COM5	30:COM17	22:COM9	22:COM9	26:COM13
	2815	-ve	6.135	0.000	0.810	1.544	1.082	116.616
			28:COM15	-	20:COM7	28:COM15	20:COM7	16:COM3
			-11.206	-37.746	-0.795	-13.281	-0.948	-36.418
			22:COM9	18:COM5	30:COM17	22:COM9	30:COM17	26:COM13
6702	2916	+ve	10.319	23.519	0.146	7.738	0.156	47.080
			28:COM15	16:COM3	28:COM15	20:COM7	20:COM7	16:COM3
			-11.147	-1.403	-0.173	0.000	-0.127	-32.401
			22:COM9	26:COM13	22:COM9	-	30:COM17	26:COM13
	2917	-ve	10.319	21.270	0.146	7.738	0.222	9.175
			28:COM15	16:COM3	28:COM15	20:COM7	28:COM15	24:COM11
			-11.147	-3.090	-0.173	0.000	-0.246	-33.785
			22:COM9	26:COM13	22:COM9	-	22:COM9	18:COM5
6703	2917	+ve	9.757	15.112	0.038	3.367	0.154	9.300
			28:COM15	16:COM3	24:COM11	16:COM3	20:COM7	24:COM11
			-10.665	-5.863	-0.096	0.000	-0.143	-33.712
			22:COM9	26:COM13	18:COM5	-	30:COM17	18:COM5
	2918	-ve	9.757	12.863	0.038	3.367	0.091	0.000
			28:COM15	16:COM3	24:COM11	16:COM3	28:COM15	-
			-10.665	-7.550	-0.096	0.000	-0.194	-26.288
			22:COM9	26:COM13	18:COM5	-	22:COM9	35:CVOL4

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
6704	2918	+ve	9.007	8.494	0.104	0.000	0.138	0.000
			28:COM15	24:COM11	20:COM7	-	28:COM15	-
			-10.128	-11.289	-0.047	-3.275	-0.239	-26.285
			22:COM9	18:COM5	30:COM17	18:COM5	22:COM9	35:CVOL4
	2919	-ve	9.007	6.808	0.104	0.000	0.085	7.193
			28:COM15	24:COM11	20:COM7	-	20:COM7	24:COM17
			-10.128	-13.537	-0.047	-3.275	-0.076	-36.513
			22:COM9	18:COM5	30:COM17	18:COM5	30:COM17	18:COM5
6705	2919	+ve	9.145	4.156	0.403	0.000	0.336	7.071
			24:COM17	24:COM11	20:COM7	-	28:COM15	24:COM17
			-10.610	-19.607	-0.370	-7.723	-0.378	-36.569
			18:COM5	18:COM5	30:COM17	22:COM9	22:COM9	18:COM5
	2920	-ve	9.145	2.470	0.403	0.000	0.428	40.498
			24:COM17	24:COM11	20:COM7	-	20:COM7	16:COM3
			-10.610	-21.856	-0.370	-7.723	-0.405	-36.030
			18:COM5	18:COM5	30:COM17	22:COM9	30:COM17	26:COM13
6706	2920	+ve	9.626	1.782	0.381	0.000	0.775	40.190
			24:COM17	24:COM11	28:COM15	-	20:COM7	16:COM3
			-10.266	-33.666	-0.736	-11.891	-0.369	-36.113
			18:COM5	18:COM5	22:COM9	18:COM5	30:COM17	26:COM13
	2817	-ve	9.626	0.095	0.381	0.000	0.399	107.943
			24:COM17	24:COM11	28:COM15	-	28:COM15	16:COM3
			-10.266	-35.915	-0.736	-11.891	-0.683	-37.854
			18:COM5	18:COM5	22:COM9	18:COM5	22:COM9	26:COM13
6707	2921	+ve	10.089	25.379	0.118	10.151	0.298	52.831
			24:COM17	16:COM3	28:COM15	20:COM7	20:COM7	16:COM3
			-12.829	-0.832	-0.200	-3.358	-0.220	-33.887
			18:COM5	26:COM13	22:COM9	30:COM17	30:COM17	26:COM13
	2922	-ve	10.089	23.130	0.118	10.151	0.127	11.392
			24:COM17	16:COM3	28:COM15	20:COM7	24:COM11	24:COM17
			-12.829	-2.519	-0.200	-3.358	-0.210	-36.477
			18:COM5	26:COM13	22:COM9	30:COM17	18:COM5	18:COM5
6708	2922	+ve	11.330	17.086	0.077	6.250	0.144	11.448
			24:COM17	16:COM3	24:COM11	28:COM15	16:COM3	24:COM17
			-14.937	-5.315	-0.187	-6.739	-0.116	-36.392
			18:COM5	26:COM13	18:COM5	22:COM9	26:COM13	18:COM5
	2923	-ve	11.330	14.837	0.077	6.250	0.083	0.000
			24:COM17	16:COM3	24:COM11	28:COM15	28:COM15	-
			-14.937	-7.002	-0.187	-6.739	-0.271	-30.455
			18:COM5	26:COM13	18:COM5	22:COM9	22:COM9	34:CVOL3
6709	2923	+ve	12.809	10.314	0.122	5.419	0.178	0.000
			28:COM15	24:COM11	24:COM11	28:COM15	24:COM11	-
			-17.658	-10.836	-0.181	-13.599	-0.189	-30.554
			22:COM9	18:COM5	18:COM5	22:COM9	18:COM5	34:CVOL3
	2924	-ve	12.809	8.627	0.122	5.419	0.091	3.838
			28:COM15	24:COM11	24:COM11	28:COM15	24:COM11	24:COM17
			-17.658	-13.085	-0.181	-13.599	-0.218	-43.165
			22:COM9	18:COM5	18:COM5	22:COM9	18:COM5	18:COM5

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
6710	2924	+ve	15.316	5.303	0.819	5.135	0.832	3.830
			28:COM15	24:COM11	28:COM15	28:COM15	20:COM7	24:COM11
			-21.545	-22.306	-1.183	-19.312	-0.600	-43.594
			22:COM9	18:COM5	22:COM9	22:COM9	30:COM17	18:COM5
	2925	-ve	15.316	3.617	0.819	5.135	1.003	40.604
			28:COM15	24:COM11	28:COM15	28:COM15	28:COM15	24:COM11
			-21.545	-24.555	-1.183	-19.312	-1.481	-43.375
			22:COM9	18:COM5	22:COM9	22:COM9	22:COM9	18:COM5
6711	2925	+ve	20.746	0.000	1.096	20.479	2.244	42.658
			28:COM15	-	28:COM15	28:COM15	20:COM7	16:COM3
			-28.781	-37.788	-2.428	-20.355	-0.769	-41.313
			22:COM9	18:COM5	22:COM9	22:COM9	30:COM17	26:COM13
	2818	-ve	20.746	0.000	1.096	20.479	1.378	114.721
			28:COM15	-	28:COM15	28:COM15	28:COM15	16:COM3
			-28.781	-40.037	-2.428	-20.355	-2.501	-23.691
			22:COM9	18:COM5	22:COM9	22:COM9	22:COM9	26:COM13
6712	2926	+ve	50.058	25.025	3.207	4.952	0.000	26.935
			28:COM15	20:COM7	20:COM7	20:COM7	-	20:COM7
			-81.808	-13.239	-1.260	-1.752	-3.297	-17.553
			22:COM9	30:COM17	30:COM17	30:COM17	22:COM9	30:COM17
	2827	-ve	50.058	21.726	3.207	4.952	2.834	10.133
			28:COM15	20:COM7	20:COM7	20:COM7	20:COM7	28:COM15
			-81.808	-15.714	-1.260	-1.752	-2.513	-17.722
			22:COM9	30:COM17	30:COM17	30:COM17	30:COM17	22:COM9
6714	2928	+ve	181.717	221.178	1.200	5.531	2.604	119.167
			20:COM7	28:COM15	24:COM11	20:COM7	16:COM3	20:COM7
			-147.228	-288.283	-3.399	-2.521	-1.440	-87.478
			30:COM17	22:COM9	18:COM5	30:COM17	26:COM13	30:COM17
	5730	-ve	181.717	220.231	1.200	5.531	0.374	330.072
			20:COM7	28:COM15	24:COM11	20:COM7	28:COM15	20:COM7
			-147.228	-289.545	-3.399	-2.521	-0.816	-248.590
			30:COM17	22:COM9	18:COM5	30:COM17	22:COM9	30:COM17
6715	2929	+ve	95.519	81.051	3.156	4.678	0.000	137.343
			20:COM7	28:COM15	20:COM7	28:COM15	-	28:COM15
			-83.312	-103.893	-0.247	-12.731	-2.647	-170.221
			30:COM17	22:COM9	30:COM17	22:COM9	22:COM9	22:COM9
	2822	-ve	95.519	78.465	3.156	4.678	3.666	340.016
			20:COM7	28:COM15	20:COM7	28:COM15	20:COM7	20:COM7
			-83.312	-107.341	-0.247	-12.731	-0.569	-321.363
			30:COM17	22:COM9	30:COM17	22:COM9	30:COM17	30:COM17
6716	2930	+ve	20.619	91.086	3.215	0.877	1.676	7.402
			20:COM7	20:COM7	20:COM7	24:COM17	28:COM15	28:COM15
			-13.055	-89.069	-1.381	-5.461	-3.458	-41.930
			30:COM17	30:COM17	30:COM17	18:COM5	22:COM9	22:COM9
	2929	-ve	20.619	88.132	3.215	0.877	2.954	146.007
			20:COM7	28:COM15	20:COM7	24:COM17	20:COM7	28:COM15
			-13.055	-92.148	-1.381	-5.461	-1.081	-178.543
			30:COM17	22:COM9	30:COM17	18:COM5	30:COM17	22:COM9

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
6727	2941	+ve	70.486	133.321	0.000	7.359	2.044	166.882
			24:COM1	16:COM3	-	20:COM7	20:COM7	16:COM3
			-94.808	-121.578	-2.238	-4.710	-0.564	-147.211
			18:COM5	26:COM1	18:COM5	30:COM1	30:COM1	26:COM1
	2812	-ve	70.486	130.656	0.000	7.359	0.284	12.056
			24:COM1	16:COM3	-	20:COM7	24:COM1	16:COM3
			-94.808	-123.577	-2.238	-4.710	-1.679	-4.470
			18:COM5	26:COM1	18:COM5	30:COM1	18:COM5	26:COM1
6728	2942	+ve	122.093	219.887	4.533	29.254	5.265	318.968
			16:COM3	24:COM1	28:COM1	20:COM7	20:COM7	16:COM3
			-102.839	-258.967	-4.689	-29.910	-4.961	-304.623
			26:COM1	18:COM5	22:COM9	30:COM1	30:COM1	26:COM1
	5378	-ve	122.093	218.486	4.533	29.254	1.339	552.852
			16:COM3	24:COM1	28:COM1	20:COM7	16:COM3	16:COM3
			-102.839	-260.835	-4.689	-29.910	-1.175	-501.866
			26:COM1	18:COM5	22:COM9	30:COM1	26:COM1	26:COM1
6729	2943	+ve	57.392	225.630	0.738	2.448	2.008	132.443
			16:COM3	24:COM1	24:COM1	20:COM7	20:COM7	24:COM1
			-49.546	-235.039	-1.799	-1.928	-0.550	-142.647
			26:COM1	18:COM5	18:COM5	30:COM1	30:COM1	18:COM5
	2942	-ve	57.392	222.555	0.738	2.448	1.404	325.581
			16:COM3	24:COM1	24:COM1	20:COM7	24:COM1	16:COM3
			-49.546	-239.139	-1.799	-1.928	-2.041	-310.119
			26:COM1	18:COM5	18:COM5	30:COM1	18:COM5	26:COM1
6730	2944	+ve	91.286	22.263	4.435	6.299	5.056	2.624
			24:COM1	24:COM1	16:COM3	24:COM1	24:COM1	28:COM1
			-137.228	-29.570	-4.065	-6.864	-5.891	-15.114
			18:COM5	18:COM5	26:COM1	18:COM5	18:COM5	22:COM9
	2813	-ve	91.286	19.091	4.435	6.299	3.690	56.424
			24:COM1	24:COM1	16:COM3	24:COM1	28:COM1	16:COM3
			-137.228	-33.799	-4.065	-6.864	-3.772	-46.491
			18:COM5	18:COM5	26:COM1	18:COM5	22:COM9	26:COM1
6731	2945	+ve	22.379	9.157	1.256	2.751	1.334	9.036
			24:COM1	20:COM7	24:COM1	16:COM3	20:COM7	20:COM7
			-55.233	-2.919	-1.326	-1.522	-1.191	-2.644
			18:COM5	30:COM1	18:COM5	26:COM1	30:COM1	30:COM1
	2944	-ve	22.379	5.066	1.256	2.751	1.864	10.688
			24:COM1	20:COM7	24:COM1	16:COM3	16:COM3	16:COM3
			-55.233	-5.987	-1.326	-1.522	-1.858	-9.536
			18:COM5	30:COM1	18:COM5	26:COM1	26:COM1	26:COM1
6732	2889	+ve	10.060	58.286	0.924	2.044	2.820	36.324
			16:COM3	28:COM1	24:COM1	28:COM1	16:COM3	28:COM1
			-6.020	-62.297	-1.246	-13.301	-2.344	-48.415
			26:COM1	22:COM9	18:COM5	22:COM9	26:COM1	22:COM9
	2818	-ve	10.060	52.206	0.924	2.044	1.184	203.157
			16:COM3	28:COM1	24:COM1	28:COM1	28:COM1	20:COM7
			-6.020	-71.307	-1.246	-13.301	-1.920	-171.760
			26:COM1	22:COM9	18:COM5	22:COM9	22:COM9	30:COM1

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
6733	2951	+ve	19.293	40.759	0.655	6.771	1.558	61.103
			20:COM7	20:COM7	24:COM11	16:COM3	16:COM3	16:COM3
			-6.222	-12.403	-1.362	-1.195	-0.395	-41.261
			30:COM17	30:COM17	18:COM5	26:COM13	26:COM13	26:COM13
	2952	-ve	19.293	38.163	0.655	6.771	0.872	0.000
			20:COM7	20:COM7	24:COM11	16:COM3	24:COM11	-
			-6.222	-14.350	-1.362	-1.195	-1.036	-25.754
			30:COM17	30:COM17	18:COM5	26:COM13	18:COM5	18:COM5
6734	2952	+ve	18.005	25.320	0.327	3.046	0.484	0.000
			20:COM7	20:COM7	24:COM11	16:COM3	28:COM15	-
			-7.379	-21.637	-0.582	-3.408	-0.691	-26.122
			30:COM17	30:COM17	18:COM5	26:COM13	22:COM9	18:COM5
	2953	-ve	18.005	22.724	0.327	3.046	0.055	26.531
			20:COM7	20:COM7	24:COM11	16:COM3	24:COM11	28:COM15
			-7.379	-23.584	-0.582	-3.408	-0.741	-58.688
			30:COM17	30:COM17	18:COM5	26:COM13	18:COM5	22:COM9
6736	2954	+ve	11.458	26.368	0.105	4.640	0.368	1.259
			28:COM15	24:COM11	28:COM15	20:COM7	20:COM7	28:COM15
			-14.489	-32.783	-0.131	-3.072	-0.374	-23.889
			22:COM9	18:COM5	22:COM9	30:COM17	30:COM17	22:COM9
	2818	-ve	11.458	23.710	0.105	4.640	0.200	109.179
			28:COM15	24:COM11	28:COM15	20:COM7	24:COM11	16:COM3
			-14.489	-36.327	-0.131	-3.072	-0.306	-95.253
			22:COM9	18:COM5	22:COM9	30:COM17	18:COM5	26:COM13
6737	3021	+ve	0.101	5.641	0.001	0.000	0.015	5.015
			24:COM17	35:CVOL4	28:COM15	-	20:COM7	20:COM7
			-1.541	0.000	-0.005	-0.082	-0.001	0.000
			32:CVOL1	-	22:COM9	22:COM9	30:COM17	-
	2894	-ve	0.101	0.000	0.001	0.000	0.002	7.582
			24:COM17	-	28:COM15	-	28:COM15	34:CVOL3
			-1.541	-6.515	-0.005	-0.082	-0.015	0.000
			32:CVOL1	34:CVOL3	22:COM9	22:COM9	22:COM9	-
6738	3020	+ve	2.846	5.593	0.002	0.000	0.017	4.233
			35:CVOL4	35:CVOL4	28:COM15	-	20:COM7	20:COM7
			-0.299	0.000	-0.006	-0.077	-0.005	0.000
			30:COM17	-	22:COM9	18:COM5	30:COM17	-
	2895	-ve	2.846	0.000	0.002	0.000	0.005	7.678
			35:CVOL4	-	28:COM15	-	28:COM15	34:CVOL3
			-0.299	-6.618	-0.006	-0.077	-0.017	0.000
			30:COM17	34:CVOL3	22:COM9	18:COM5	22:COM9	-
6739	3019	+ve	4.299	5.605	0.002	0.008	0.012	4.065
			35:CVOL4	35:CVOL4	28:COM15	24:COM17	20:COM7	35:CVOL4
			0.000	0.000	-0.004	-0.041	-0.006	0.000
			-	-	22:COM9	18:COM5	30:COM17	-
	2896	-ve	4.299	0.000	0.002	0.008	0.006	7.561
			35:CVOL4	-	28:COM15	24:COM17	28:COM15	34:CVOL3
			0.000	-6.624	-0.004	-0.041	-0.012	0.000
			-	34:CVOL3	22:COM9	18:COM5	22:COM9	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
6740	3018	+ve	4.124	5.566	0.002	0.044	0.006	3.975
			20:COM7	35:CVOL4	20:COM7	20:COM7	28:COM15	35:CVOL4
			-0.376	0.000	-0.002	-0.003	-0.007	0.000
			30:COM17	-	30:COM17	30:COM17	22:COM9	-
	2897	-ve	4.124	0.000	0.002	0.044	0.007	7.695
			20:COM7	-	20:COM7	20:COM7	20:COM7	34:CVOL3
			-0.376	-6.660	-0.002	-0.003	-0.006	0.000
			30:COM17	34:CVOL3	30:COM17	30:COM17	30:COM17	-
6741	3017	+ve	2.887	5.480	0.003	0.077	0.003	4.042
			20:COM7	35:CVOL4	20:COM7	20:COM7	28:COM15	20:COM7
			-1.526	0.000	-0.001	0.000	-0.010	0.000
			30:COM17	-	30:COM17	-	22:COM9	-
	2898	-ve	2.887	0.000	0.003	0.077	0.010	8.073
			20:COM7	-	20:COM7	20:COM7	20:COM7	34:CVOL3
			-1.526	-6.722	-0.001	0.000	-0.002	0.000
			30:COM17	34:CVOL3	30:COM17	-	30:COM17	-
6742	3016	+ve	0.552	5.497	0.004	0.079	0.001	4.756
			24:COM17	35:CVOL4	20:COM7	16:COM3	28:COM15	20:COM7
			-3.286	0.000	-0.000	0.000	-0.013	0.000
			18:COM5	-	30:COM17	-	22:COM9	-
	2899	-ve	0.552	0.000	0.004	0.079	0.012	8.254
			24:COM17	-	20:COM7	16:COM3	20:COM7	20:COM7
			-3.286	-6.654	-0.000	0.000	-0.000	0.000
			18:COM5	34:CVOL3	30:COM17	-	30:COM17	-
6743	3027	+ve	0.002	5.469	0.000	0.000	0.011	4.761
			24:COM17	35:CVOL4	-	-	20:COM7	20:COM7
			-3.687	0.000	-0.004	-0.072	0.000	0.000
			18:COM5	-	22:COM9	18:COM5	-	-
	2900	-ve	0.002	0.000	0.000	0.000	0.000	8.312
			24:COM17	-	-	-	-	34:CVOL3
			-3.687	-6.682	-0.004	-0.072	-0.012	0.000
			18:COM5	34:CVOL3	22:COM9	18:COM5	22:COM9	-
6744	3026	+ve	1.691	5.423	0.001	0.000	0.012	3.959
			16:COM3	35:CVOL4	28:COM15	-	20:COM7	20:COM7
			-1.600	0.000	-0.004	-0.067	-0.002	0.000
			26:COM13	-	22:COM9	34:CVOL3	30:COM17	-
	2901	-ve	1.691	0.000	0.001	0.000	0.002	8.397
			16:COM3	-	28:COM15	-	28:COM15	34:CVOL3
			-1.600	-6.781	-0.004	-0.067	-0.012	0.000
			26:COM13	34:CVOL3	22:COM9	34:CVOL3	22:COM9	-
6745	3025	+ve	3.236	5.488	0.001	0.004	0.007	3.873
			35:CVOL4	35:CVOL4	28:COM15	28:COM15	20:COM7	35:CVOL4
			-0.213	0.000	-0.002	-0.036	-0.003	0.000
			32:CVOL1	-	22:COM9	22:COM9	30:COM17	-
	2902	-ve	3.236	0.000	0.001	0.004	0.003	8.114
			35:CVOL4	-	28:COM15	28:COM15	28:COM15	34:CVOL3
			-0.213	-6.745	-0.002	-0.036	-0.007	0.000
			32:CVOL1	34:CVOL3	22:COM9	22:COM9	22:COM9	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
6746	3024	+ve	3.455	5.510	0.002	0.051	0.002	3.906
			35:CVOL4	35:CVOL4	20:COM7	20:COM7	28:COM15	35:CVOL4
			-0.188	0.000	-0.001	-0.008	-0.006	0.000
			32:CVOL1	-	30:COM17	30:COM17	22:COM9	-
	2903	-ve	3.455	0.000	0.002	0.051	0.006	8.058
			35:CVOL4	-	20:COM7	20:COM7	16:COM3	34:CVOL3
			-0.188	-6.734	-0.001	-0.008	-0.003	0.000
			32:CVOL1	34:CVOL3	30:COM17	30:COM17	26:COM13	-
6747	3023	+ve	2.041	5.486	0.003	0.094	0.000	4.023
			35:CVOL4	35:CVOL4	16:COM3	16:COM3	-	35:CVOL4
			-1.027	0.000	0.000	0.000	-0.010	0.000
			32:CVOL1	-	-	-	22:COM9	-
	2904	-ve	2.041	0.000	0.003	0.094	0.011	8.220
			35:CVOL4	-	16:COM3	16:COM3	16:COM3	34:CVOL3
			-1.027	-6.746	0.000	0.000	-0.000	0.000
			32:CVOL1	34:CVOL3	-	-	26:COM13	-
6748	3022	+ve	0.293	5.547	0.004	0.110	0.000	4.554
			24:COM17	35:CVOL4	16:COM3	16:COM3	-	20:COM7
			-2.660	0.000	-0.000	-0.005	-0.013	0.000
			18:COM5	-	26:COM13	26:COM13	18:COM5	-
	2905	-ve	0.293	0.000	0.004	0.110	0.014	8.053
			24:COM17	-	16:COM3	16:COM3	16:COM3	34:CVOL3
			-2.660	-6.632	-0.000	-0.005	-0.001	0.000
			18:COM5	34:CVOL3	26:COM13	26:COM13	26:COM13	-
6749	2911	+ve	12.078	7.116	0.002	0.031	0.004	12.631
			28:COM15	34:CVOL3	20:COM7	28:COM15	28:COM15	20:COM7
			-16.022	0.000	-0.001	-0.032	-0.008	0.000
			22:COM9	-	30:COM17	22:COM9	22:COM9	-
	2992	-ve	12.078	0.000	0.002	0.031	0.009	6.686
			28:COM15	-	20:COM7	28:COM15	20:COM7	20:COM7
			-16.022	-6.337	-0.001	-0.032	-0.005	0.000
			22:COM9	22:COM9	30:COM17	22:COM9	30:COM17	-
6750	2912	+ve	10.438	6.806	0.004	0.011	0.017	9.302
			20:COM7	34:CVOL3	28:COM15	28:COM15	20:COM7	20:COM7
			-6.358	0.000	-0.005	-0.042	-0.014	0.000
			30:COM17	-	22:COM9	22:COM9	30:COM17	-
	2991	-ve	10.438	0.000	0.004	0.011	0.013	6.496
			20:COM7	-	28:COM15	28:COM15	28:COM15	35:CVOL4
			-6.358	-6.573	-0.005	-0.042	-0.016	0.000
			30:COM17	35:CVOL4	22:COM9	22:COM9	22:COM9	-
6751	2913	+ve	9.407	6.619	0.004	0.012	0.015	6.943
			20:COM7	34:CVOL3	28:COM15	28:COM15	20:COM7	20:COM7
			-1.523	0.000	-0.005	-0.037	-0.013	0.000
			30:COM17	-	22:COM9	22:COM9	30:COM17	-
	2990	-ve	9.407	0.000	0.004	0.012	0.012	6.583
			20:COM7	-	28:COM15	28:COM15	28:COM15	35:CVOL4
			-1.523	-6.721	-0.005	-0.037	-0.015	0.000
			30:COM17	35:CVOL4	22:COM9	22:COM9	22:COM9	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
6752	2914	+ve	7.450	6.514	0.003	0.017	0.013	5.968
			20:COM7	34:CVOL3	28:COM15	20:COM7	20:COM7	34:CVOL3
			0.000	0.000	-0.004	-0.018	-0.011	0.000
			-	-	22:COM9	30:COM17	30:COM17	-
	2989	-ve	7.450	0.000	0.003	0.017	0.011	6.926
			20:COM7	-	28:COM15	20:COM7	28:COM15	34:CVOL3
			0.000	-6.809	-0.004	-0.018	-0.013	0.000
			-	35:CVOL4	22:COM9	30:COM17	22:COM9	-
6753	2915	+ve	4.240	6.485	0.002	0.018	0.009	6.374
			16:COM3	35:CVOL4	20:COM7	20:COM7	20:COM7	20:COM7
			-0.625	0.000	-0.003	-0.004	-0.008	0.000
			26:COM13	-	30:COM17	30:COM17	30:COM17	-
	2988	-ve	4.240	0.000	0.002	0.018	0.009	7.871
			16:COM3	-	20:COM7	20:COM7	20:COM7	20:COM7
			-0.625	-6.830	-0.003	-0.004	-0.009	0.000
			26:COM13	34:CVOL3	30:COM17	30:COM17	30:COM17	-
6754	2906	+ve	3.660	6.421	0.001	0.000	0.007	6.624
			16:COM3	35:CVOL4	28:COM15	-	20:COM7	20:COM7
			-0.017	0.000	-0.002	-0.042	-0.003	0.000
			26:COM13	-	22:COM9	22:COM9	30:COM17	-
	2997	-ve	3.660	0.000	0.001	0.000	0.002	8.263
			16:COM3	-	28:COM15	-	28:COM15	20:COM7
			-0.017	-6.910	-0.002	-0.042	-0.008	0.000
			26:COM13	34:CVOL3	22:COM9	22:COM9	22:COM9	-
6755	2907	+ve	6.480	6.396	0.001	0.000	0.009	5.638
			35:CVOL4	35:CVOL4	28:COM15	-	20:COM7	20:COM7
			0.000	0.000	-0.003	-0.036	-0.005	0.000
			-	-	22:COM9	18:COM5	30:COM17	-
	2996	-ve	6.480	0.000	0.001	0.000	0.005	7.453
			35:CVOL4	-	28:COM15	-	28:COM15	20:COM7
			0.000	-6.929	-0.003	-0.036	-0.009	0.000
			-	34:CVOL3	22:COM9	18:COM5	22:COM9	-
6756	2908	+ve	7.694	6.409	0.002	0.016	0.006	5.356
			35:CVOL4	35:CVOL4	28:COM15	16:COM3	20:COM7	20:COM7
			0.000	0.000	-0.002	-0.010	-0.005	0.000
			-	-	22:COM9	26:COM13	30:COM17	-
	2995	-ve	7.694	0.000	0.002	0.016	0.005	7.027
			35:CVOL4	-	28:COM15	16:COM3	28:COM15	20:COM7
			0.000	-6.914	-0.002	-0.010	-0.006	0.000
			-	34:CVOL3	22:COM9	26:COM13	22:COM9	-
6757	2909	+ve	6.643	6.394	0.002	0.043	0.003	5.622
			34:CVOL3	35:CVOL4	20:COM7	20:COM7	28:COM15	20:COM7
			0.000	0.000	-0.001	0.000	-0.006	0.000
			-	-	30:COM17	-	22:COM9	-
	2994	-ve	6.643	0.000	0.002	0.043	0.006	7.376
			34:CVOL3	-	20:COM7	20:COM7	20:COM7	20:COM7
			0.000	-6.930	-0.001	0.000	-0.003	0.000
			-	34:CVOL3	30:COM17	-	30:COM17	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
6758	2910	+ve	3.903	6.412	0.002	0.044	0.003	6.604
			16:COM3	35:CVOL4	20:COM7	20:COM7	28:COM15	20:COM7
			0.000	0.000	-0.001	0.000	-0.006	0.000
			-	-	30:COM17	-	22:COM9	-
	2993	-ve	3.903	0.000	0.002	0.044	0.006	8.201
			16:COM3	-	20:COM7	20:COM7	20:COM7	20:COM7
			0.000	-6.918	-0.001	0.000	-0.002	0.000
			-	34:CVOL3	30:COM17	-	30:COM17	-
6759	2916	+ve	3.614	6.417	0.000	0.000	0.004	6.610
			16:COM3	35:CVOL4	28:COM15	-	20:COM7	20:COM7
			-0.008	0.000	-0.001	-0.040	-0.001	0.000
			26:COM13	-	22:COM9	22:COM9	30:COM17	-
	3002	-ve	3.614	0.000	0.000	0.000	0.001	8.256
			16:COM3	-	28:COM15	-	28:COM15	20:COM7
			-0.008	-6.912	-0.001	-0.040	-0.005	0.000
			26:COM13	34:CVOL3	22:COM9	22:COM9	22:COM9	-
6760	2917	+ve	6.485	6.394	0.001	0.000	0.004	5.624
			35:CVOL4	35:CVOL4	28:COM15	-	20:COM7	20:COM7
			0.000	0.000	-0.001	-0.038	-0.002	0.000
			-	-	22:COM9	18:COM5	30:COM17	-
	3001	-ve	6.485	0.000	0.001	0.000	0.002	7.439
			35:CVOL4	-	28:COM15	-	28:COM15	20:COM7
			0.000	-6.930	-0.001	-0.038	-0.004	0.000
			-	34:CVOL3	22:COM9	18:COM5	22:COM9	-
6761	2918	+ve	7.694	6.411	0.001	0.014	0.003	5.346
			35:CVOL4	35:CVOL4	20:COM7	16:COM3	28:COM15	20:COM7
			0.000	0.000	-0.001	-0.012	-0.004	0.000
			-	-	30:COM17	26:COM13	22:COM9	-
	3000	-ve	7.694	0.000	0.001	0.014	0.004	6.998
			35:CVOL4	-	20:COM7	16:COM3	20:COM7	20:COM7
			0.000	-6.911	-0.001	-0.012	-0.003	0.000
			-	34:CVOL3	30:COM17	26:COM13	30:COM17	-
6762	2919	+ve	6.629	6.402	0.002	0.041	0.003	5.620
			35:CVOL4	35:CVOL4	20:COM7	20:COM7	28:COM15	20:COM7
			0.000	0.000	-0.001	0.000	-0.007	0.000
			-	-	30:COM17	-	22:COM9	-
	2999	-ve	6.629	0.000	0.002	0.041	0.007	7.322
			35:CVOL4	-	20:COM7	20:COM7	20:COM7	20:COM7
			0.000	-6.922	-0.001	0.000	-0.003	0.000
			-	34:CVOL3	30:COM17	-	30:COM17	-
6763	2920	+ve	3.921	6.425	0.002	0.046	0.001	6.610
			16:COM3	35:CVOL4	20:COM7	20:COM7	28:COM15	20:COM7
			0.000	0.000	-0.000	0.000	-0.006	0.000
			-	-	30:COM17	-	22:COM9	-
	2998	-ve	3.921	0.000	0.002	0.046	0.006	8.123
			16:COM3	-	20:COM7	20:COM7	20:COM7	20:COM7
			0.000	-6.904	-0.000	0.000	-0.001	0.000
			-	34:CVOL3	30:COM17	-	30:COM17	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
6764	2921	+ve	3.974	6.477	0.003	0.016	0.009	6.293
			16:COM3	34:CVOL3	20:COM7	28:COM15	28:COM15	20:COM7
			-0.756	0.000	-0.003	-0.029	-0.011	0.000
			26:COM13	-	30:COM17	22:COM9	22:COM9	-
	3007	-ve	3.974	0.000	0.003	0.016	0.011	7.947
			16:COM3	-	20:COM7	28:COM15	20:COM7	20:COM7
			-0.756	-6.835	-0.003	-0.029	-0.010	0.000
			26:COM13	35:CVOL4	30:COM17	22:COM9	30:COM17	-
6765	2922	+ve	7.824	6.477	0.005	0.034	0.011	5.812
			20:COM7	34:CVOL3	20:COM7	28:COM15	28:COM15	34:CVOL3
			-0.197	0.000	-0.003	-0.030	-0.015	0.000
			30:COM17	-	30:COM17	22:COM9	22:COM9	-
	3006	-ve	7.824	0.000	0.005	0.034	0.015	7.126
			20:COM7	-	20:COM7	28:COM15	20:COM7	20:COM7
			-0.197	-6.846	-0.003	-0.030	-0.012	0.000
			30:COM17	35:CVOL4	30:COM17	22:COM9	30:COM17	-
6766	2923	+ve	9.856	6.546	0.005	0.051	0.012	6.439
			20:COM7	34:CVOL3	20:COM7	20:COM7	28:COM15	20:COM7
			-1.336	0.000	-0.003	-0.020	-0.017	0.000
			30:COM17	-	30:COM17	30:COM17	22:COM9	-
	3005	-ve	9.856	0.000	0.005	0.051	0.017	6.723
			20:COM7	-	20:COM7	20:COM7	20:COM7	35:CVOL4
			-1.336	-6.793	-0.003	-0.020	-0.012	0.000
			30:COM17	35:CVOL4	30:COM17	30:COM17	30:COM17	-
6767	2924	+ve	10.930	6.677	0.005	0.046	0.013	8.512
			20:COM7	34:CVOL3	20:COM7	20:COM7	28:COM15	20:COM7
			-5.341	0.000	-0.004	-0.008	-0.017	0.000
			30:COM17	-	30:COM17	30:COM17	22:COM9	-
	3004	-ve	10.930	0.000	0.005	0.046	0.017	6.731
			20:COM7	-	20:COM7	20:COM7	20:COM7	35:CVOL4
			-5.341	-6.699	-0.004	-0.008	-0.012	0.000
			30:COM17	35:CVOL4	30:COM17	30:COM17	30:COM17	-
6768	2925	+ve	11.580	6.907	0.002	0.029	0.009	11.690
			20:COM7	34:CVOL3	20:COM7	16:COM3	20:COM7	20:COM7
			-12.657	0.000	-0.002	-0.025	-0.008	-0.557
			30:COM17	-	30:COM17	26:COM13	30:COM17	30:COM17
	3003	-ve	11.580	0.000	0.002	0.029	0.008	7.061
			20:COM7	-	20:COM7	16:COM3	20:COM7	20:COM7
			-12.657	-6.530	-0.002	-0.025	-0.007	0.000
			30:COM17	35:CVOL4	30:COM17	26:COM13	30:COM17	-
6769	3013	+ve	0.000	5.868	0.005	0.230	0.011	6.743
			-	34:CVOL3	20:COM7	20:COM7	28:COM15	20:COM7
			-3.491	0.000	-0.002	-0.051	-0.010	0.000
			18:COM5	-	30:COM17	30:COM17	22:COM9	-
	2926	-ve	0.000	0.000	0.005	0.230	0.020	5.148
			-	-	20:COM7	20:COM7	20:COM7	35:CVOL4
			-3.491	-5.354	-0.002	-0.051	-0.001	0.000
			18:COM5	35:CVOL4	30:COM17	30:COM17	30:COM17	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
6770	3012	+ve	1.415	4.947	0.014	0.385	0.030	4.657
			28:COM1	34:CVOL3	20:COM7	20:COM7	28:COM1	20:COM7
			-7.122	0.000	-0.010	-0.111	-0.037	0.000
			22:COM9	-	30:COM1	30:COM1	22:COM9	-
	2827	-ve	1.415	0.000	0.014	0.385	0.039	8.846
			28:COM1	-	20:COM7	20:COM7	20:COM7	20:COM7
			-7.122	-6.260	-0.010	-0.111	-0.025	0.000
			22:COM9	35:CVOL4	30:COM1	30:COM1	30:COM1	-
6771	3011	+ve	1.505	5.379	0.015	0.358	0.042	5.989
			28:COM1	20:COM7	20:COM7	20:COM7	28:COM1	20:COM7
			-9.107	0.000	-0.013	-0.187	-0.047	-3.675
			22:COM9	-	30:COM1	30:COM1	22:COM9	30:COM1
	2928	-ve	1.505	0.000	0.015	0.358	0.040	15.591
			28:COM1	-	20:COM7	20:COM7	20:COM7	20:COM7
			-9.107	-8.208	-0.013	-0.187	-0.032	-0.775
			22:COM9	22:COM9	30:COM1	30:COM1	30:COM1	30:COM1
6772	3010	+ve	1.343	5.902	0.004	0.026	0.039	7.498
			28:COM1	20:COM7	28:COM1	24:COM1	20:COM7	20:COM7
			-11.508	-1.016	-0.012	-0.096	-0.015	-6.416
			22:COM9	30:COM1	22:COM9	18:COM5	30:COM1	30:COM1
	2927	-ve	1.343	0.000	0.004	0.026	0.010	19.270
			28:COM1	-	28:COM1	24:COM1	28:COM1	20:COM7
			-11.508	-9.396	-0.012	-0.096	-0.030	-2.620
			22:COM9	22:COM9	22:COM9	18:COM5	22:COM9	30:COM1
6773	3009	+ve	0.297	5.827	0.012	0.112	0.074	7.420
			28:COM1	20:COM7	28:COM1	28:COM1	20:COM7	20:COM7
			-10.401	0.000	-0.024	-0.320	-0.040	-3.608
			22:COM9	-	22:COM9	22:COM9	30:COM1	30:COM1
	2930	-ve	0.297	0.000	0.012	0.112	0.029	15.428
			28:COM1	-	28:COM1	28:COM1	28:COM1	20:COM7
			-10.401	-8.123	-0.024	-0.320	-0.063	-1.202
			22:COM9	22:COM9	22:COM9	22:COM9	22:COM9	30:COM1
6774	3008	+ve	0.000	5.783	0.009	0.105	0.051	7.316
			-	20:COM7	28:COM1	28:COM1	20:COM7	20:COM7
			-7.893	0.000	-0.017	-0.301	-0.029	0.000
			22:COM9	-	22:COM9	22:COM9	30:COM1	-
	2929	-ve	0.000	0.000	0.009	0.105	0.023	9.991
			-	-	28:COM1	28:COM1	28:COM1	20:COM7
			-7.893	-6.453	-0.017	-0.301	-0.048	0.000
			22:COM9	22:COM9	22:COM9	22:COM9	22:COM9	-
6775	2926	+ve	4.751	9.303	0.032	0.000	0.000	29.080
			28:COM1	20:COM7	16:COM3	-	-	20:COM7
			-7.882	0.000	0.000	-0.301	-0.075	-12.759
			22:COM9	-	-	22:COM9	18:COM5	30:COM1
	3064	-ve	4.751	0.778	0.032	0.000	0.074	8.703
			28:COM1	28:COM1	16:COM3	-	16:COM3	28:COM1
			-7.882	-3.856	0.000	-0.301	0.000	-12.758
			22:COM9	22:COM9	-	22:COM9	-	22:COM9

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
6779	2930	+ve	0.000	8.814	0.056	0.541	0.084	17.422
			-	34:CVOL3	20:COM7	16:COM3	28:COM15	16:COM3
			-1.467	0.000	-0.044	-0.207	-0.108	0.000
			22:COM9	-	30:COM17	26:COM13	22:COM9	-
	3070	-ve	0.000	0.000	0.056	0.541	0.145	0.431
			-	-	20:COM7	16:COM3	20:COM7	28:COM15
			-1.467	-2.372	-0.044	-0.207	-0.114	-0.790
			22:COM9	18:COM5	30:COM17	26:COM13	30:COM17	22:COM9
6780	2929	+ve	0.141	7.269	0.035	0.362	0.061	12.802
			28:COM15	20:COM7	20:COM7	16:COM3	28:COM15	20:COM7
			-3.012	0.000	-0.033	-0.091	-0.065	0.000
			22:COM9	-	30:COM17	26:COM13	22:COM9	-
	3069	-ve	0.141	0.000	0.035	0.362	0.085	1.942
			28:COM15	-	20:COM7	16:COM3	20:COM7	16:COM3
			-3.012	-3.338	-0.033	-0.091	-0.083	-0.289
			22:COM9	22:COM9	30:COM17	26:COM13	30:COM17	26:COM13
6781	3072	+ve	0.000	0.906	0.000	0.080	0.086	0.000
			-	20:COM7	-	28:COM15	34:CVOL3	-
			-8.648	-0.199	-0.056	-0.126	0.000	-1.120
			22:COM9	30:COM17	34:CVOL3	22:COM9	-	22:COM9
	3013	-ve	0.000	0.000	0.000	0.080	0.000	6.501
			-	-	-	28:COM15	-	20:COM7
			-8.648	-5.329	-0.056	-0.126	-0.086	0.000
			22:COM9	34:CVOL3	34:CVOL3	22:COM9	22:COM9	-
6782	3073	+ve	0.000	1.372	0.000	0.043	0.064	0.000
			-	34:CVOL3	-	28:COM15	16:COM3	-
			-3.958	0.000	-0.043	-0.085	0.000	-0.713
			32:CVOL1	-	22:COM9	22:COM9	-	22:COM9
	3012	-ve	0.000	0.000	0.000	0.043	0.000	4.665
			-	-	-	28:COM15	-	20:COM7
			-3.958	-4.665	-0.043	-0.085	-0.067	0.000
			32:CVOL1	35:CVOL4	22:COM9	22:COM9	22:COM9	-
6783	3074	+ve	0.000	1.882	0.010	0.013	0.046	0.001
			-	34:CVOL3	28:COM15	24:COM17	20:COM7	20:COM7
			-2.460	0.000	-0.032	-0.027	-0.012	-0.214
			22:COM9	-	22:COM9	18:COM5	30:COM17	30:COM17
	3011	-ve	0.000	0.000	0.010	0.013	0.019	3.713
			-	-	28:COM15	24:COM17	28:COM15	20:COM7
			-2.460	-4.172	-0.032	-0.027	-0.051	0.000
			22:COM9	35:CVOL4	22:COM9	18:COM5	22:COM9	-
6784	3075	+ve	1.892	2.209	0.021	0.091	0.055	0.189
			28:COM15	20:COM7	28:COM15	20:COM7	20:COM7	20:COM7
			-3.934	0.000	-0.037	-0.078	-0.031	-0.321
			22:COM9	-	22:COM9	30:COM17	30:COM17	30:COM17
	3010	-ve	1.892	0.000	0.021	0.091	0.034	4.569
			28:COM15	-	28:COM15	20:COM7	28:COM15	20:COM7
			-3.934	-4.229	-0.037	-0.078	-0.057	0.000
			22:COM9	22:COM9	22:COM9	30:COM17	22:COM9	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
6785	3076	+ve	2.023	2.222	0.043	0.153	0.068	0.397
			28:COM15	20:COM7	28:COM15	20:COM7	20:COM7	28:COM15
			-6.529	-0.266	-0.046	-0.115	-0.063	-0.879
			22:COM9	30:COM17	22:COM9	30:COM17	30:COM17	22:COM9
	3009	-ve	2.023	0.000	0.043	0.153	0.069	6.048
			28:COM15	-	28:COM15	20:COM7	28:COM15	20:COM7
			-6.529	-4.913	-0.046	-0.115	-0.074	0.000
			22:COM9	22:COM9	22:COM9	30:COM17	22:COM9	-
6786	3077	+ve	0.505	1.890	0.030	0.117	0.031	0.626
			28:COM15	20:COM7	20:COM7	20:COM7	28:COM15	28:COM15
			-9.962	-0.807	-0.021	-0.065	-0.044	-1.536
			22:COM9	30:COM17	30:COM17	30:COM17	22:COM9	22:COM9
	3008	-ve	0.505	0.000	0.030	0.117	0.047	7.696
			28:COM15	-	20:COM7	20:COM7	20:COM7	20:COM7
			-9.962	-5.668	-0.021	-0.065	-0.033	0.000
			22:COM9	22:COM9	30:COM17	30:COM17	30:COM17	-
6787	2901	+ve	0.021	7.349	0.005	0.185	0.013	11.412
			24:COM17	34:CVOL3	28:COM15	35:CVOL4	20:COM7	16:COM3
			-0.801	0.000	-0.006	-0.002	-0.009	0.000
			18:COM5	-	22:COM9	26:COM13	30:COM17	-
	3060	-ve	0.021	0.000	0.005	0.185	0.011	0.465
			24:COM17	-	28:COM15	35:CVOL4	28:COM15	16:COM3
			-0.801	-2.775	-0.006	-0.002	-0.013	-0.054
			18:COM5	18:COM5	22:COM9	26:COM13	22:COM9	26:COM13
6788	2902	+ve	0.323	6.900	0.005	0.145	0.012	9.311
			24:COM17	34:CVOL3	28:COM15	16:COM3	20:COM7	34:CVOL3
			-0.532	0.000	-0.006	-0.076	-0.008	0.000
			18:COM5	-	22:COM9	26:COM13	30:COM17	-
	3082	-ve	0.323	0.000	0.005	0.145	0.010	0.348
			24:COM17	-	28:COM15	16:COM3	28:COM15	35:CVOL4
			-0.532	-3.305	-0.006	-0.076	-0.013	0.000
			18:COM5	35:CVOL4	22:COM9	26:COM13	22:COM9	-
6789	2903	+ve	0.387	6.956	0.004	0.101	0.011	9.446
			24:COM17	34:CVOL3	28:COM15	16:COM3	20:COM7	34:CVOL3
			-0.577	0.000	-0.006	-0.126	-0.007	0.000
			18:COM5	-	22:COM9	26:COM13	30:COM17	-
	3083	-ve	0.387	0.000	0.004	0.101	0.009	0.352
			24:COM17	-	28:COM15	16:COM3	28:COM15	20:COM7
			-0.577	-3.321	-0.006	-0.126	-0.014	-0.122
			18:COM5	35:CVOL4	22:COM9	26:COM13	22:COM9	30:COM17
6790	2904	+ve	0.211	7.419	0.004	0.129	0.011	11.079
			24:COM17	34:CVOL3	28:COM15	28:COM15	20:COM7	34:CVOL3
			-0.877	0.000	-0.006	-0.174	-0.007	0.000
			18:COM5	-	22:COM9	22:COM9	30:COM17	-
	3084	-ve	0.211	0.000	0.004	0.129	0.008	0.817
			24:COM17	-	28:COM15	28:COM15	28:COM15	28:COM15
			-0.877	-2.762	-0.006	-0.174	-0.014	-0.986
			18:COM5	35:CVOL4	22:COM9	22:COM9	22:COM9	22:COM9

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
6791	2905	+ve	0.317	9.039	0.007	0.310	0.011	13.645
			24:COM1	20:COM7	20:COM7	20:COM7	28:COM1	16:COM3
			-3.022	0.000	-0.006	-0.201	-0.014	0.000
			18:COM5	-	30:COM1	30:COM1	22:COM9	-
	3085	-ve	0.317	1.218	0.007	0.310	0.014	9.259
			24:COM1	28:COM1	20:COM7	20:COM7	20:COM7	28:COM1
			-3.022	-3.134	-0.006	-0.201	-0.012	-11.007
			18:COM5	22:COM9	30:COM1	30:COM1	30:COM1	22:COM9
6792	2894	+ve	0.000	7.326	0.005	0.157	0.014	11.435
			-	34:CVOL3	28:COM1	16:COM3	20:COM7	16:COM3
			-2.211	0.000	-0.007	-0.184	-0.009	0.000
			22:COM9	-	22:COM9	26:COM1	30:COM1	-
	3059	-ve	0.000	0.000	0.005	0.157	0.013	1.648
			-	-	28:COM1	16:COM3	28:COM1	16:COM3
			-2.211	-2.889	-0.007	-0.184	-0.016	-1.020
			22:COM9	18:COM5	22:COM9	26:COM1	22:COM9	26:COM1
6793	2895	+ve	0.000	7.064	0.007	0.093	0.018	10.036
			-	34:CVOL3	28:COM1	35:CVOL4	20:COM7	16:COM3
			-0.581	0.000	-0.009	-0.025	-0.013	0.000
			22:COM9	-	22:COM9	32:CVOL1	30:COM1	-
	3058	-ve	0.000	0.000	0.007	0.093	0.016	0.422
			-	-	28:COM1	35:CVOL4	28:COM1	16:COM3
			-0.581	-3.153	-0.009	-0.025	-0.020	-0.373
			22:COM9	18:COM5	22:COM9	32:CVOL1	22:COM9	26:COM1
6794	2896	+ve	0.163	6.714	0.006	0.096	0.016	8.369
			28:COM1	34:CVOL3	28:COM1	24:COM1	20:COM7	34:CVOL3
			-0.275	0.000	-0.008	-0.085	-0.011	0.000
			22:COM9	-	22:COM9	18:COM5	30:COM1	-
	3057	-ve	0.163	0.000	0.006	0.096	0.014	0.295
			28:COM1	-	28:COM1	24:COM1	28:COM1	35:CVOL4
			-0.275	-3.579	-0.008	-0.085	-0.019	-0.035
			22:COM9	35:CVOL4	22:COM9	18:COM5	22:COM9	26:COM1
6795	2900	+ve	0.000	7.909	0.001	0.192	0.014	15.517
			-	34:CVOL3	28:COM1	20:COM7	20:COM7	16:COM3
			-2.734	0.000	-0.007	-0.028	0.000	0.000
			22:COM9	-	22:COM9	30:COM1	-	-
	3061	-ve	0.000	0.000	0.001	0.192	0.003	1.893
			-	-	28:COM1	20:COM7	28:COM1	16:COM3
			-2.734	-2.292	-0.007	-0.028	-0.014	0.000
			22:COM9	18:COM5	22:COM9	30:COM1	22:COM9	-
6796	3033	+ve	3.505	6.019	0.023	0.351	0.052	7.025
			24:COM1	16:COM3	16:COM3	16:COM3	24:COM1	16:COM3
			-5.732	0.000	-0.016	-0.149	-0.075	-1.490
			18:COM5	-	26:COM1	26:COM1	18:COM5	26:COM1
	2943	-ve	3.505	0.000	0.023	0.351	0.065	11.663
			24:COM1	-	16:COM3	16:COM3	16:COM3	16:COM3
			-5.732	-7.131	-0.016	-0.149	-0.042	-0.866
			18:COM5	18:COM5	26:COM1	26:COM1	26:COM1	26:COM1

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
6797	3032	+ve	5.355	6.120	0.022	0.246	0.037	7.055
			16:COM3	16:COM3	16:COM3	16:COM3	24:COM11	16:COM3
			-6.551	-0.248	-0.012	-0.047	-0.068	-5.399
			26:COM13	26:COM13	26:COM13	26:COM13	18:COM5	26:COM13
	2942	-ve	5.355	0.000	0.022	0.246	0.062	16.790
			16:COM3	-	16:COM3	16:COM3	16:COM3	16:COM3
			-6.551	-8.774	-0.012	-0.047	-0.032	-2.699
			26:COM13	18:COM5	26:COM13	26:COM13	26:COM13	26:COM13
6798	3031	+ve	4.979	5.133	0.013	0.188	0.024	4.430
			16:COM3	16:COM3	16:COM3	16:COM3	24:COM11	24:COM11
			-5.667	-0.267	-0.007	-0.120	-0.040	-5.325
			26:COM13	26:COM13	26:COM13	26:COM13	18:COM5	18:COM5
	2941	-ve	4.979	0.000	0.013	0.188	0.034	16.779
			16:COM3	-	16:COM3	16:COM3	16:COM3	16:COM3
			-5.667	-8.821	-0.007	-0.120	-0.018	-0.701
			26:COM13	18:COM5	26:COM13	26:COM13	26:COM13	26:COM13
6799	3030	+ve	4.559	4.106	0.010	0.142	0.028	1.797
			16:COM3	16:COM3	24:COM11	24:COM11	24:COM11	24:COM11
			-5.559	0.000	-0.010	-0.225	-0.028	-2.963
			26:COM13	-	18:COM5	18:COM5	18:COM5	18:COM5
	2945	-ve	4.559	0.000	0.010	0.142	0.026	14.043
			16:COM3	-	24:COM11	24:COM11	24:COM11	16:COM3
			-5.559	-7.904	-0.010	-0.225	-0.027	0.000
			26:COM13	18:COM5	18:COM5	18:COM5	18:COM5	-
6800	3029	+ve	3.916	4.014	0.010	0.071	0.042	1.194
			16:COM3	35:CVOL4	24:COM11	24:COM11	16:COM3	16:COM3
			-4.949	0.000	-0.015	-0.270	-0.029	-0.087
			26:COM13	-	18:COM5	18:COM5	26:COM13	26:COM13
	2944	-ve	3.916	0.000	0.010	0.071	0.027	10.296
			16:COM3	-	24:COM11	24:COM11	24:COM11	16:COM3
			-4.949	-7.135	-0.015	-0.270	-0.042	0.000
			26:COM13	34:CVOL3	18:COM5	18:COM5	18:COM5	-
6801	3028	+ve	0.207	4.881	0.007	0.015	0.046	3.861
			28:COM15	35:CVOL4	28:COM15	24:COM11	20:COM7	16:COM3
			-2.640	0.000	-0.016	-0.224	-0.022	0.000
			22:COM9	-	22:COM9	18:COM5	30:COM17	-
	2813	-ve	0.207	0.000	0.007	0.015	0.018	7.281
			28:COM15	-	28:COM15	24:COM11	28:COM15	34:CVOL3
			-2.640	-6.271	-0.016	-0.224	-0.044	0.000
			22:COM9	34:CVOL3	22:COM9	18:COM5	22:COM9	-
6802	3079	+ve	1.132	1.717	0.098	0.053	0.033	0.389
			16:COM3	16:COM3	20:COM7	16:COM3	28:COM15	16:COM3
			-0.314	0.000	-0.051	-0.040	-0.062	-0.242
			26:COM13	-	30:COM17	26:COM13	22:COM9	26:COM13
	3030	-ve	1.132	0.000	0.098	0.053	0.061	0.526
			16:COM3	-	20:COM7	16:COM3	16:COM3	24:COM11
			-0.314	-1.559	-0.051	-0.040	-0.033	-0.405
			26:COM13	18:COM5	30:COM17	26:COM13	26:COM13	18:COM5

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
6803	3080	+ve	0.281	1.601	0.171	0.094	0.050	0.251
			24:COM1	16:COM3	16:COM3	16:COM3	24:COM1	16:COM3
			-1.628	-0.892	-0.098	-0.066	-0.100	-0.358
			18:COM5	26:COM1	26:COM1	26:COM1	18:COM5	26:COM1
	3029	-ve	0.281	0.022	0.171	0.094	0.115	1.719
			24:COM1	24:COM1	16:COM3	16:COM3	16:COM3	16:COM3
			-1.628	-2.728	-0.098	-0.066	-0.072	-0.578
			18:COM5	18:COM5	26:COM1	26:COM1	26:COM1	26:COM1
6804	3081	+ve	0.330	1.210	0.112	0.155	0.042	0.400
			24:COM1	24:COM1	20:COM7	16:COM3	28:COM1	24:COM1
			-4.710	-2.762	-0.078	-0.111	-0.068	-1.213
			18:COM5	18:COM5	30:COM1	26:COM1	22:COM9	18:COM5
	3028	-ve	0.330	0.000	0.112	0.155	0.072	3.597
			24:COM1	-	20:COM7	16:COM3	20:COM7	16:COM3
			-4.710	-4.928	-0.078	-0.111	-0.056	-0.333
			18:COM5	18:COM5	30:COM1	26:COM1	30:COM1	26:COM1
6805	2943	+ve	1.019	12.814	0.029	0.845	0.061	21.878
			28:COM1	16:COM3	24:COM1	16:COM3	16:COM3	16:COM3
			-2.762	-5.351	-0.033	-0.698	-0.052	-14.542
			22:COM9	26:COM1	18:COM5	26:COM1	26:COM1	26:COM1
	2889	-ve	1.019	5.727	0.029	0.845	0.073	28.243
			28:COM1	24:COM1	24:COM1	16:COM3	24:COM1	20:COM7
			-2.762	-12.093	-0.033	-0.698	-0.079	-23.241
			22:COM9	18:COM5	18:COM5	26:COM1	18:COM5	30:COM1
6815	2813	+ve	6.469	6.548	0.040	0.452	0.050	14.759
			28:COM1	16:COM3	16:COM3	20:COM7	28:COM1	20:COM7
			-8.454	0.000	-0.029	-0.186	-0.067	0.000
			22:COM9	-	26:COM1	30:COM1	22:COM9	-
	5676	-ve	6.469	0.790	0.040	0.452	0.068	15.016
			28:COM1	24:COM1	16:COM3	20:COM7	16:COM3	16:COM3
			-8.454	-4.604	-0.029	-0.186	-0.052	-4.466
			22:COM9	18:COM5	26:COM1	30:COM1	26:COM1	26:COM1
6816	2944	+ve	1.923	9.767	0.027	0.349	0.046	29.080
			28:COM1	20:COM7	20:COM7	24:COM1	28:COM1	20:COM7
			-4.329	0.000	-0.021	-0.374	-0.061	-5.120
			22:COM9	-	30:COM1	18:COM5	22:COM9	30:COM1
	5678	-ve	1.923	1.602	0.027	0.349	0.057	6.205
			28:COM1	28:COM1	20:COM7	24:COM1	20:COM7	16:COM3
			-4.329	-4.170	-0.021	-0.374	-0.047	-2.357
			22:COM9	22:COM9	30:COM1	18:COM5	30:COM1	26:COM1
6818	2941	+ve	1.917	5.357	0.021	0.578	0.038	21.402
			28:COM1	16:COM3	20:COM7	28:COM1	28:COM1	16:COM3
			-3.972	0.000	-0.019	-0.628	-0.042	-13.128
			22:COM9	-	30:COM1	22:COM9	22:COM9	26:COM1
	2954	-ve	1.917	0.000	0.021	0.578	0.048	20.743
			28:COM1	-	20:COM7	28:COM1	20:COM7	20:COM7
			-3.972	-4.633	-0.019	-0.628	-0.045	-14.962
			22:COM9	18:COM5	30:COM1	22:COM9	30:COM1	30:COM1

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
6819	2942	+ve	1.604	15.803	0.001	0.348	0.006	41.874
			28:COM15	20:COM7	24:COM11	24:COM11	20:COM7	20:COM7
			-2.286	-3.426	-0.002	-0.397	-0.004	-26.338
			22:COM9	30:COM17	18:COM5	18:COM5	30:COM17	30:COM17
	2818	-ve	1.604	3.685	0.001	0.348	0.007	36.245
			28:COM15	28:COM15	24:COM11	24:COM11	24:COM11	20:COM7
			-2.286	-15.457	-0.002	-0.397	-0.013	-22.952
			22:COM9	22:COM9	18:COM5	18:COM5	18:COM5	30:COM17
6821	3160	+ve	12.547	6.122	0.003	0.223	0.009	5.426
			20:COM7	35:CVOL4	28:COM15	20:COM7	20:COM7	20:COM7
			-5.483	0.000	-0.003	-0.120	-0.008	0.000
			30:COM17	-	22:COM9	30:COM17	30:COM17	-
	3154	-ve	12.547	0.000	0.003	0.223	0.012	8.525
			20:COM7	-	28:COM15	20:COM7	28:COM15	34:CVOL3
			-5.483	-7.282	-0.003	-0.120	-0.012	0.000
			30:COM17	34:CVOL3	22:COM9	30:COM17	22:COM9	-
6822	3056	+ve	0.000	5.863	0.004	0.026	0.016	5.649
			-	35:CVOL4	24:COM11	24:COM11	16:COM3	35:CVOL4
			-3.355	0.000	-0.005	-0.029	-0.013	0.000
			18:COM5	-	18:COM5	18:COM5	26:COM13	-
	2947	-ve	0.000	0.000	0.004	0.026	0.009	6.615
			-	-	24:COM11	24:COM11	24:COM11	34:CVOL3
			-3.355	-6.179	-0.005	-0.029	-0.012	0.000
			18:COM5	34:CVOL3	18:COM5	18:COM5	18:COM5	-
6823	5469	+ve	29.217	11.146	0.484	16.182	0.607	12.657
			28:COM15	16:COM3	28:COM15	16:COM3	20:COM7	16:COM3
			-49.105	-1.724	-0.539	-4.934	-0.509	-4.550
			22:COM9	26:COM13	22:COM9	26:COM13	30:COM17	26:COM13
	5510	-ve	29.217	6.343	0.484	16.182	0.475	2.610
			28:COM15	24:COM11	28:COM15	16:COM3	16:COM3	24:COM11
			-49.105	-5.445	-0.539	-4.934	-0.484	-4.565
			22:COM9	18:COM5	22:COM9	26:COM13	26:COM13	18:COM5
6824	3038	+ve	2.623	10.621	0.014	0.043	0.000	12.736
			16:COM3	20:COM7	16:COM3	28:COM15	-	20:COM7
			0.000	0.000	0.000	-0.106	-0.052	0.000
			-	-	-	22:COM9	18:COM5	-
	2949	-ve	2.623	0.000	0.014	0.043	0.031	21.911
			16:COM3	-	16:COM3	28:COM15	16:COM3	20:COM7
			0.000	-10.884	0.000	-0.106	-0.004	-4.470
			-	22:COM9	-	22:COM9	26:COM13	30:COM17
6825	3039	+ve	3.711	6.069	0.009	0.005	0.000	6.950
			28:COM15	34:CVOL3	16:COM3	28:COM15	-	20:COM7
			-7.848	0.000	-0.000	-0.066	-0.031	0.000
			22:COM9	-	26:COM13	22:COM9	18:COM5	-
	2950	-ve	3.711	0.000	0.009	0.005	0.025	8.245
			28:COM15	-	16:COM3	28:COM15	16:COM3	20:COM7
			-7.848	-5.979	-0.000	-0.066	-0.001	0.000
			22:COM9	35:CVOL4	26:COM13	22:COM9	26:COM13	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
6826	3078	+ve	0.000	0.985	0.002	0.049	0.033	0.000
			-	16:COM3	24:COM11	24:COM11	16:COM3	-
			-5.298	-0.282	-0.022	-0.191	-0.003	-1.836
			22:COM9	26:COM13	18:COM5	18:COM5	26:COM13	18:COM5
	3015	-ve	0.000	0.000	0.002	0.049	0.002	5.923
			-	-	24:COM11	24:COM11	24:COM11	16:COM3
			-5.298	-5.289	-0.022	-0.191	-0.033	0.000
			22:COM9	34:CVOL3	18:COM5	18:COM5	18:COM5	-
6827	3015	+ve	0.000	5.775	0.004	0.147	0.002	6.672
			-	35:CVOL4	20:COM7	20:COM7	28:COM15	20:COM7
			-6.082	0.000	-0.001	-0.077	-0.010	0.000
			22:COM9	-	30:COM17	30:COM17	22:COM9	-
	2951	-ve	0.000	0.000	0.004	0.147	0.013	7.821
			-	-	20:COM7	20:COM7	20:COM7	20:COM7
			-6.082	-6.180	-0.001	-0.077	-0.005	0.000
			22:COM9	34:CVOL3	30:COM17	30:COM17	30:COM17	-
6828	3014	+ve	0.000	5.386	0.008	0.206	0.003	5.318
			-	35:CVOL4	20:COM7	20:COM7	28:COM15	35:CVOL4
			-7.550	0.000	-0.001	-0.078	-0.022	0.000
			18:COM5	-	30:COM17	30:COM17	22:COM9	-
	2952	-ve	0.000	0.000	0.008	0.206	0.025	8.544
			-	-	20:COM7	20:COM7	20:COM7	34:CVOL3
			-7.550	-6.431	-0.001	-0.078	-0.003	0.000
			18:COM5	34:CVOL3	30:COM17	30:COM17	30:COM17	-
6829	2954	+ve	4.883	28.612	0.013	0.077	0.042	27.492
			28:COM15	20:COM7	28:COM15	28:COM15	20:COM7	20:COM7
			-6.052	-16.032	-0.032	-1.178	-0.027	-13.502
			22:COM9	30:COM17	22:COM9	22:COM9	30:COM17	30:COM17
	5673	-ve	4.883	23.936	0.013	0.077	0.007	26.711
			28:COM15	20:COM7	28:COM15	28:COM15	28:COM15	28:COM15
			-6.052	-18.848	-0.032	-1.178	-0.037	-33.071
			22:COM9	30:COM17	22:COM9	22:COM9	22:COM9	22:COM9
6830	2951	+ve	0.000	7.191	0.009	0.000	0.013	11.927
			-	34:CVOL3	20:COM7	-	28:COM15	20:COM7
			-1.955	0.000	-0.006	-0.231	-0.016	0.000
			18:COM5	-	30:COM17	22:COM9	22:COM9	-
	3068	-ve	0.000	0.000	0.009	0.000	0.020	1.529
			-	-	20:COM7	-	20:COM7	20:COM7
			-1.955	-2.876	-0.006	-0.231	-0.012	-0.080
			18:COM5	22:COM9	30:COM17	22:COM9	30:COM17	30:COM17
6831	2952	+ve	0.000	8.190	0.011	0.000	0.001	14.601
			-	34:CVOL3	20:COM7	-	28:COM15	34:CVOL3
			-1.079	0.000	-0.001	-0.256	-0.022	0.000
			22:COM9	-	30:COM17	34:CVOL3	22:COM9	-
	3067	-ve	0.000	0.000	0.011	0.000	0.023	0.296
			-	-	20:COM7	-	20:COM7	16:COM3
			-1.079	-1.702	-0.001	-0.256	-0.001	0.000
			22:COM9	35:CVOL4	30:COM17	34:CVOL3	30:COM17	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
6835	2958	+ve	1.920	0.000	0.068	0.656	0.026	22.138
			28:COM15	-	20:COM7	20:COM7	28:COM15	34:CVOL3
			-2.881	-7.574	-0.014	-0.168	-0.073	0.000
			22:COM9	18:COM5	30:COM17	30:COM17	22:COM9	-
	2862	-ve	1.920	0.000	0.068	0.656	0.076	39.858
			28:COM15	-	20:COM7	20:COM7	20:COM7	16:COM3
			-2.881	-9.691	-0.014	-0.168	-0.006	0.000
			22:COM9	18:COM5	30:COM17	30:COM17	30:COM17	-
6836	2959	+ve	3.564	9.065	0.053	0.000	0.003	20.925
			20:COM7	16:COM3	20:COM7	-	28:COM15	16:COM3
			-2.676	0.000	-0.023	-0.765	-0.040	-6.305
			30:COM17	-	30:COM17	18:COM5	22:COM9	26:COM13
	2960	-ve	3.564	7.159	0.053	0.000	0.065	5.824
			20:COM7	16:COM3	20:COM7	-	20:COM7	24:COM11
			-2.676	0.000	-0.023	-0.765	-0.041	-9.092
			30:COM17	-	30:COM17	18:COM5	30:COM17	18:COM5
6837	2960	+ve	2.164	6.423	0.042	0.296	0.020	5.690
			24:COM11	16:COM3	20:COM7	24:COM11	28:COM15	24:COM11
			-2.278	-0.669	-0.028	-0.538	-0.036	-9.103
			18:COM5	26:COM13	30:COM17	18:COM5	22:COM9	18:COM5
	2961	-ve	2.164	4.517	0.042	0.296	0.047	0.000
			24:COM11	16:COM3	20:COM7	24:COM11	20:COM7	-
			-2.278	-2.099	-0.028	-0.538	-0.035	-8.156
			18:COM5	26:COM13	30:COM17	18:COM5	30:COM17	18:COM5
6838	2961	+ve	3.179	2.932	0.020	0.601	0.039	0.000
			28:COM15	24:COM11	28:COM15	16:COM3	20:COM7	-
			-3.974	-2.524	-0.039	-0.175	-0.020	-8.050
			22:COM9	18:COM5	22:COM9	26:COM13	30:COM17	18:COM5
	2962	-ve	3.179	1.503	0.020	0.601	0.019	0.732
			28:COM15	24:COM11	28:COM15	16:COM3	28:COM15	24:COM11
			-3.974	-4.430	-0.039	-0.175	-0.037	-9.632
			22:COM9	18:COM5	22:COM9	26:COM13	22:COM9	18:COM5
6839	2962	+ve	5.601	0.061	0.000	0.650	0.034	0.860
			28:COM15	24:COM11	-	34:CVOL3	20:COM7	24:COM11
			-6.285	-4.318	-0.028	0.000	-0.004	-9.580
			22:COM9	18:COM5	22:COM9	-	30:COM17	18:COM5
	2963	-ve	5.601	0.000	0.000	0.650	0.000	9.257
			28:COM15	-	-	34:CVOL3	-	16:COM3
			-6.285	-6.223	-0.028	0.000	-0.025	-6.425
			22:COM9	18:COM5	22:COM9	-	18:COM5	26:COM13
6840	2963	+ve	7.865	0.000	0.105	1.275	0.016	9.353
			28:COM15	-	16:COM3	16:COM3	24:COM11	16:COM3
			-8.830	-5.064	-0.021	-0.216	-0.101	-6.282
			22:COM9	35:CVOL4	26:COM13	26:COM13	18:COM5	26:COM13
	2863	-ve	7.865	0.000	0.105	1.275	0.104	20.732
			28:COM15	-	16:COM3	16:COM3	16:COM3	16:COM3
			-8.830	-7.038	-0.021	-0.216	-0.025	0.000
			22:COM9	33:CVOL2	26:COM13	26:COM13	26:COM13	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
6841	2964	+ve	10.234	6.261	0.024	0.000	0.004	9.456
			28:COM15	16:COM3	20:COM7	-	28:COM15	16:COM3
			-11.489	0.000	0.000	-0.615	-0.025	-4.447
			22:COM9	-	-	22:COM9	22:COM9	26:COM13
	2965	-ve	10.234	4.355	0.024	0.000	0.023	0.818
			28:COM15	16:COM3	20:COM7	-	20:COM7	24:COM11
			-11.489	0.000	0.000	-0.615	0.000	-9.179
			22:COM9	-	-	22:COM9	-	18:COM5
6842	2965	+ve	10.975	4.667	0.035	0.271	0.020	0.676
			28:COM15	16:COM3	16:COM3	24:COM11	24:COM11	24:COM11
			-12.880	-0.336	-0.018	-0.665	-0.035	-9.203
			22:COM9	26:COM13	26:COM13	18:COM5	18:COM5	18:COM5
	2966	-ve	10.975	2.761	0.035	0.271	0.034	0.000
			28:COM15	16:COM3	16:COM3	24:COM11	16:COM3	-
			-12.880	-1.765	-0.018	-0.665	-0.016	-8.900
			22:COM9	26:COM13	26:COM13	18:COM5	26:COM13	35:CVOL4
6843	2966	+ve	11.888	1.954	0.017	0.567	0.037	0.000
			28:COM15	24:COM11	24:COM11	16:COM3	16:COM3	-
			-13.972	-2.521	-0.033	-0.331	-0.019	-8.914
			22:COM9	18:COM5	18:COM5	26:COM13	26:COM13	35:CVOL4
	2967	-ve	11.888	0.525	0.017	0.567	0.016	0.599
			28:COM15	24:COM11	24:COM11	16:COM3	24:COM11	24:COM11
			-13.972	-4.427	-0.033	-0.331	-0.030	-9.985
			22:COM9	18:COM5	18:COM5	26:COM13	18:COM5	18:COM5
6844	2967	+ve	12.906	0.000	0.000	0.600	0.033	0.730
			28:COM15	-	-	16:COM3	20:COM7	24:COM11
			-14.656	-4.371	-0.024	0.000	-0.004	-9.981
			22:COM9	18:COM5	22:COM9	-	30:COM17	18:COM5
	2968	-ve	12.906	0.000	0.000	0.600	0.000	9.151
			28:COM15	-	-	16:COM3	-	16:COM3
			-14.656	-6.277	-0.024	0.000	-0.022	-5.299
			22:COM9	18:COM5	22:COM9	-	18:COM5	26:COM13
6845	2968	+ve	13.656	0.000	0.098	1.137	0.007	9.243
			28:COM15	-	16:COM3	16:COM3	24:COM11	16:COM3
			-15.695	-5.514	-0.009	-0.193	-0.094	-5.188
			22:COM9	22:COM9	26:COM13	26:COM13	18:COM5	26:COM13
	2864	-ve	13.656	0.000	0.098	1.137	0.099	20.810
			28:COM15	-	16:COM3	16:COM3	16:COM3	16:COM3
			-15.695	-7.420	-0.009	-0.193	-0.013	0.000
			22:COM9	22:COM9	26:COM13	26:COM13	26:COM13	-
6846	2969	+ve	13.509	6.464	0.024	0.000	0.000	10.249
			28:COM15	16:COM3	16:COM3	-	-	16:COM3
			-15.279	0.000	0.000	-0.633	-0.022	-4.577
			22:COM9	-	-	18:COM5	22:COM9	26:COM13
	2970	-ve	13.509	4.558	0.024	0.000	0.032	1.170
			28:COM15	16:COM3	16:COM3	-	20:COM7	24:COM11
			-15.279	0.000	0.000	-0.633	-0.002	-9.269
			22:COM9	-	-	18:COM5	30:COM17	18:COM5

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
6847	2970	+ve	13.015	4.772	0.036	0.284	0.014	1.027
			28:COM15	16:COM3	16:COM3	24:COM11	24:COM11	24:COM11
			-15.200	-0.283	-0.015	-0.657	-0.033	-9.289
			22:COM9	26:COM13	26:COM13	18:COM5	18:COM5	18:COM5
	2971	-ve	13.015	2.867	0.036	0.284	0.039	0.000
			28:COM15	16:COM3	16:COM3	24:COM11	20:COM7	-
			-15.200	-1.712	-0.015	-0.657	-0.017	-8.927
			22:COM9	26:COM13	26:COM13	18:COM5	30:COM17	34:CVOL3
6848	2971	+ve	12.670	1.968	0.018	0.574	0.030	0.000
			28:COM15	24:COM11	24:COM11	16:COM3	16:COM3	-
			-14.771	-2.371	-0.030	-0.319	-0.016	-8.939
			22:COM9	18:COM5	18:COM5	26:COM13	26:COM13	34:CVOL3
	2972	-ve	12.670	0.538	0.018	0.574	0.020	0.119
			28:COM15	24:COM11	24:COM11	16:COM3	28:COM15	24:COM11
			-14.771	-4.276	-0.030	-0.319	-0.029	-9.862
			22:COM9	18:COM5	18:COM5	26:COM13	22:COM9	18:COM5
6849	2972	+ve	12.544	0.000	0.000	0.569	0.018	0.248
			28:COM15	-	-	16:COM3	16:COM3	24:COM11
			-14.058	-4.114	-0.020	0.000	0.000	-9.854
			22:COM9	18:COM5	18:COM5	-	-	18:COM5
	2973	-ve	12.544	0.000	0.000	0.569	0.003	8.107
			28:COM15	-	-	16:COM3	28:COM15	16:COM3
			-14.058	-6.019	-0.020	0.000	-0.022	-5.046
			22:COM9	18:COM5	18:COM5	-	22:COM9	26:COM13
6850	2973	+ve	12.327	0.000	0.098	1.150	0.005	8.185
			28:COM15	-	16:COM3	16:COM3	24:COM11	16:COM3
			-13.940	-5.295	-0.006	-0.291	-0.095	-4.931
			22:COM9	18:COM5	26:COM13	26:COM13	18:COM5	26:COM13
	2865	-ve	12.327	0.000	0.098	1.150	0.098	19.044
			28:COM15	-	16:COM3	16:COM3	16:COM3	16:COM3
			-13.940	-7.240	-0.006	-0.291	-0.009	0.000
			22:COM9	33:CVOL2	26:COM13	26:COM13	26:COM13	-
6851	2974	+ve	8.792	6.482	0.029	0.000	0.000	10.481
			28:COM15	16:COM3	16:COM3	-	-	16:COM3
			-9.263	0.000	0.000	-0.671	-0.025	-6.194
			22:COM9	-	-	34:CVOL3	18:COM5	26:COM13
	2975	-ve	8.792	4.576	0.029	0.000	0.038	1.320
			28:COM15	16:COM3	16:COM3	-	20:COM7	24:COM11
			-9.263	-0.056	0.000	-0.671	-0.004	-9.098
			22:COM9	26:COM13	-	34:CVOL3	30:COM17	18:COM5
6852	2975	+ve	6.383	4.861	0.050	0.148	0.018	1.183
			28:COM15	16:COM3	20:COM7	24:COM11	28:COM15	24:COM11
			-6.728	-1.433	-0.021	-0.670	-0.046	-9.161
			22:COM9	26:COM13	30:COM17	18:COM5	22:COM9	18:COM5
	2976	-ve	6.383	2.955	0.050	0.148	0.052	0.000
			28:COM15	16:COM3	20:COM7	24:COM11	20:COM7	-
			-6.728	-2.863	-0.021	-0.670	-0.023	-8.268
			22:COM9	26:COM13	30:COM17	18:COM5	30:COM17	18:COM5

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
6853	2976	+ve	4.093	2.413	0.038	0.494	0.044	0.000
			28:COM15	24:COM11	28:COM15	16:COM3	20:COM7	-
			-3.785	-4.264	-0.042	-0.342	-0.040	-8.384
			22:COM9	18:COM5	22:COM9	26:COM13	30:COM17	18:COM5
	2977	-ve	4.093	0.984	0.038	0.494	0.034	5.592
			28:COM15	24:COM11	28:COM15	16:COM3	28:COM15	24:COM11
			-3.785	-6.170	-0.042	-0.342	-0.039	-10.193
			22:COM9	18:COM5	22:COM9	26:COM13	22:COM9	18:COM5
6854	2977	+ve	2.839	0.000	0.025	0.760	0.065	5.723
			20:COM7	-	28:COM15	16:COM3	20:COM7	24:COM11
			-1.550	-6.931	-0.057	0.000	-0.040	-10.198
			30:COM17	18:COM5	22:COM9	-	30:COM17	18:COM5
	2978	-ve	2.839	0.000	0.025	0.760	0.010	20.019
			20:COM7	-	28:COM15	16:COM3	28:COM15	16:COM3
			-1.550	-8.837	-0.057	0.000	-0.045	-7.582
			30:COM17	18:COM5	22:COM9	-	22:COM9	26:COM13
6855	2978	+ve	2.076	0.000	0.067	1.031	0.012	20.204
			20:COM7	-	20:COM7	34:CVOL3	28:COM15	16:COM3
			-1.495	-8.543	-0.008	0.000	-0.073	-7.504
			30:COM17	18:COM5	30:COM17	-	22:COM9	26:COM13
	2866	-ve	2.076	0.000	0.067	1.031	0.059	38.668
			20:COM7	-	20:COM7	34:CVOL3	20:COM7	16:COM3
			-1.495	-10.448	-0.008	0.000	-0.006	-0.779
			30:COM17	18:COM5	30:COM17	-	30:COM17	26:COM13
6856	2979	+ve	1.465	7.770	0.051	0.337	0.001	21.162
			28:COM15	16:COM3	16:COM3	28:COM15	28:COM15	34:CVOL3
			-1.584	0.000	0.000	-0.728	-0.046	0.000
			22:COM9	-	-	22:COM9	22:COM9	-
	2980	-ve	1.465	5.757	0.051	0.337	0.061	7.911
			28:COM15	16:COM3	16:COM3	28:COM15	16:COM3	32:CVOL1
			-1.584	0.000	0.000	-0.728	0.000	0.000
			22:COM9	-	-	22:COM9	-	-
6860	2983	+ve	3.616	0.087	0.012	0.000	0.023	13.203
			16:COM3	28:COM15	24:COM11	-	16:COM3	16:COM3
			-3.713	-3.955	-0.024	-0.489	-0.009	-9.524
			26:COM13	22:COM9	18:COM5	18:COM5	26:COM13	26:COM13
	2888	-ve	3.616	0.000	0.012	0.000	0.015	15.964
			16:COM3	-	24:COM11	-	24:COM11	16:COM3
			-3.713	-4.629	-0.024	-0.489	-0.025	-3.593
			26:COM13	22:COM9	18:COM5	18:COM5	18:COM5	26:COM13
6861	2984	+ve	3.517	0.857	0.034	0.000	0.019	3.570
			24:COM11	24:COM11	16:COM3	-	24:COM11	24:COM11
			-3.561	-5.146	-0.017	-0.380	-0.038	-9.853
			18:COM5	18:COM5	26:COM13	22:COM9	18:COM5	18:COM5
	2983	-ve	3.517	0.351	0.034	0.000	0.029	12.857
			24:COM11	24:COM11	16:COM3	-	16:COM3	16:COM3
			-3.561	-5.820	-0.017	-0.380	-0.014	-9.626
			18:COM5	18:COM5	26:COM13	22:COM9	26:COM13	26:COM13

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
6862	2985	+ve	3.771	2.703	0.033	0.006	0.026	0.000
			28:COM15	24:COM11	16:COM3	24:COM11	24:COM11	-
			-4.215	-3.670	-0.026	-0.147	-0.031	-6.411
			22:COM9	18:COM5	26:COM13	18:COM5	18:COM5	35:CVOL4
	2984	-ve	3.771	2.197	0.033	0.006	0.034	3.424
			28:COM15	24:COM11	16:COM3	24:COM11	16:COM3	24:COM11
			-4.215	-4.344	-0.026	-0.147	-0.025	-9.931
			22:COM9	18:COM5	26:COM13	18:COM5	26:COM13	18:COM5
6864	2987	+ve	4.435	6.218	0.009	0.388	0.029	14.694
			28:COM15	16:COM3	24:COM11	16:COM3	16:COM3	16:COM3
			-4.265	-0.133	-0.036	0.000	-0.007	-8.613
			22:COM9	26:COM13	18:COM5	-	26:COM13	26:COM13
	2986	-ve	4.435	5.543	0.009	0.388	0.012	4.218
			28:COM15	16:COM3	24:COM11	16:COM3	24:COM11	24:COM11
			-4.265	-0.639	-0.036	0.000	-0.041	-8.852
			22:COM9	26:COM13	18:COM5	-	18:COM5	18:COM5
6865	2987	+ve	1.486	2.523	0.000	0.000	0.210	0.438
			24:COM11	24:COM11	-	-	20:COM7	24:COM11
			-5.276	-5.563	-0.562	-0.280	0.000	-0.964
			18:COM5	18:COM5	22:COM9	18:COM5	-	18:COM5
	2916	-ve	1.486	1.774	0.000	0.000	0.000	3.697
			24:COM11	24:COM11	-	-	-	16:COM3
			-5.276	-6.862	-0.562	-0.280	-0.211	-1.175
			18:COM5	18:COM5	22:COM9	18:COM5	22:COM9	26:COM13
6866	2986	+ve	0.863	1.760	0.000	0.000	0.155	0.309
			16:COM3	16:COM3	-	-	16:COM3	16:COM3
			-0.541	0.000	-0.382	-0.161	0.000	0.000
			26:COM13	-	18:COM5	18:COM5	-	-
	2917	-ve	0.863	0.488	0.000	0.000	0.000	0.223
			16:COM3	24:COM11	-	-	-	24:COM11
			-0.541	-0.616	-0.382	-0.161	-0.132	-0.531
			26:COM13	18:COM5	18:COM5	18:COM5	18:COM5	18:COM5
6867	2985	+ve	0.916	2.007	0.086	0.027	0.044	0.358
			20:COM7	35:CVOL4	24:COM11	24:COM11	16:COM3	20:COM7
			0.000	0.000	-0.098	-0.029	-0.038	0.000
			-	-	18:COM5	18:COM5	26:COM13	-
	2918	-ve	0.916	0.573	0.086	0.027	0.026	0.000
			20:COM7	20:COM7	24:COM11	24:COM11	24:COM11	-
			0.000	0.000	-0.098	-0.029	-0.029	-0.603
			-	-	18:COM5	18:COM5	18:COM5	35:CVOL4
6868	2984	+ve	1.147	1.919	0.359	0.155	0.006	0.341
			16:COM3	16:COM3	16:COM3	16:COM3	24:COM11	16:COM3
			-0.547	0.000	0.000	0.000	-0.145	0.000
			26:COM13	-	-	-	18:COM5	-
	2919	-ve	1.147	0.620	0.359	0.155	0.125	0.179
			16:COM3	16:COM3	16:COM3	16:COM3	16:COM3	24:COM11
			-0.547	-0.527	0.000	0.000	0.000	-0.621
			26:COM13	26:COM13	-	-	-	18:COM5

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
6869	2983	+ve	2.250	3.306	0.575	0.282	0.000	0.591
			24:COM1	24:COM11	20:COM7	20:COM7	-	24:COM1
			-4.899	-4.908	0.000	0.000	-0.213	-0.863
			18:COM5	18:COM5	-	-	22:COM9	18:COM5
	2920	-ve	2.250	2.557	0.575	0.282	0.218	3.306
			24:COM1	24:COM11	20:COM7	20:COM7	20:COM7	16:COM3
			-4.899	-6.208	0.000	0.000	0.000	-1.608
			18:COM5	18:COM5	-	-	-	26:COM1
6870	2988	+ve	11.426	0.000	1.146	7.891	0.942	46.839
			28:COM1	-	28:COM1	16:COM3	20:COM7	16:COM3
			-14.477	-40.017	-1.198	-0.454	-0.937	-38.415
			22:COM9	18:COM5	22:COM9	26:COM1	30:COM1	26:COM1
	2830	-ve	11.426	0.000	1.146	7.891	1.302	127.057
			28:COM1	-	28:COM1	16:COM3	28:COM1	16:COM3
			-14.477	-42.266	-1.198	-0.454	-1.398	-30.384
			22:COM9	18:COM5	22:COM9	26:COM1	22:COM9	26:COM1
6871	2989	+ve	9.231	2.899	0.604	4.495	0.561	3.481
			28:COM1	24:COM11	28:COM1	20:COM7	20:COM7	24:COM1
			-13.681	-26.164	-0.678	0.000	-0.476	-44.010
			22:COM9	18:COM5	22:COM9	-	30:COM1	18:COM5
	2988	-ve	9.231	1.212	0.604	4.495	0.705	46.946
			28:COM1	24:COM11	28:COM1	20:COM7	28:COM1	16:COM3
			-13.681	-28.413	-0.678	0.000	-0.765	-38.269
			22:COM9	18:COM5	22:COM9	-	22:COM9	26:COM1
6872	2990	+ve	7.276	9.049	0.512	2.778	0.426	0.000
			28:COM1	24:COM11	20:COM7	16:COM3	28:COM1	-
			-10.945	-13.560	-0.439	-0.429	-0.525	-36.805
			22:COM9	18:COM5	30:COM1	26:COM1	22:COM9	35:CVOL4
	2989	-ve	7.276	7.362	0.512	2.778	0.476	3.611
			28:COM1	24:COM11	20:COM7	16:COM3	20:COM7	24:COM1
			-10.945	-15.809	-0.439	-0.429	-0.433	-43.960
			22:COM9	18:COM5	30:COM1	26:COM1	30:COM1	18:COM5
6873	2991	+ve	4.695	18.678	0.509	1.075	0.176	10.625
			28:COM1	16:COM3	20:COM7	24:COM1	28:COM1	24:COM1
			-8.038	-5.255	-0.165	-2.915	-0.533	-41.271
			22:COM9	26:COM1	30:COM1	18:COM5	22:COM9	18:COM5
	2990	-ve	4.695	16.429	0.509	1.075	0.464	0.000
			28:COM1	16:COM3	20:COM7	24:COM1	20:COM7	-
			-8.038	-6.942	-0.165	-2.915	-0.149	-36.807
			22:COM9	26:COM1	30:COM1	18:COM5	30:COM1	35:CVOL4
6874	2992	+ve	3.363	30.380	0.511	0.000	0.082	60.083
			28:COM1	16:COM3	16:COM3	-	28:COM1	16:COM3
			-7.383	0.000	-0.019	-4.829	-0.699	-33.577
			22:COM9	-	26:COM1	18:COM5	22:COM9	26:COM1
	2991	-ve	3.363	28.131	0.511	0.000	0.584	10.487
			28:COM1	16:COM3	16:COM3	-	20:COM7	24:COM1
			-7.383	-0.699	-0.019	-4.829	-0.240	-41.310
			22:COM9	26:COM1	26:COM1	18:COM5	30:COM1	18:COM5

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
6875	2993	+ve	19.831	0.000	0.412	6.746	0.299	46.104
			28:COM15	-	24:COM11	20:COM7	16:COM3	16:COM3
			-22.348	-40.219	-0.364	-0.705	-0.341	-36.531
			22:COM9	18:COM5	18:COM5	30:COM17	26:COM13	26:COM13
	2831	-ve	19.831	0.000	0.412	6.746	0.570	126.682
			28:COM15	-	24:COM11	20:COM7	28:COM15	16:COM3
			-22.348	-42.468	-0.364	-0.705	-0.518	-24.911
			22:COM9	18:COM5	18:COM5	30:COM17	22:COM9	26:COM13
6876	2994	+ve	19.207	1.214	0.205	3.638	0.284	2.959
			28:COM15	24:COM11	24:COM11	20:COM7	16:COM3	24:COM11
			-23.274	-26.304	-0.326	0.000	-0.135	-45.890
			22:COM9	18:COM5	18:COM5	-	26:COM13	18:COM5
	2993	-ve	19.207	0.000	0.205	3.638	0.287	46.232
			28:COM15	-	24:COM11	20:COM7	24:COM11	16:COM3
			-23.274	-28.553	-0.326	0.000	-0.375	-36.401
			22:COM9	18:COM5	18:COM5	-	18:COM5	26:COM13
6877	2995	+ve	18.533	7.635	0.087	2.474	0.154	0.000
			28:COM15	24:COM11	28:COM15	16:COM3	16:COM3	-
			-21.692	-13.612	-0.181	-1.233	-0.054	-39.763
			22:COM9	18:COM5	22:COM9	26:COM13	26:COM13	34:CVOL3
	2994	-ve	18.533	5.948	0.087	2.474	0.193	3.112
			28:COM15	24:COM11	28:COM15	16:COM3	28:COM15	24:COM11
			-21.692	-15.861	-0.181	-1.233	-0.276	-45.859
			22:COM9	18:COM5	22:COM9	26:COM13	22:COM9	18:COM5
6878	2996	+ve	17.492	17.662	0.170	0.942	0.055	4.701
			28:COM15	16:COM3	20:COM7	24:COM11	24:COM11	24:COM11
			-20.431	-4.963	-0.064	-3.019	-0.151	-42.032
			22:COM9	26:COM13	30:COM17	18:COM5	18:COM5	18:COM5
	2995	-ve	17.492	15.413	0.170	0.942	0.260	0.000
			28:COM15	16:COM3	20:COM7	24:COM11	20:COM7	-
			-20.431	-6.650	-0.064	-3.019	-0.150	-39.776
			22:COM9	26:COM13	30:COM17	18:COM5	30:COM17	34:CVOL3
6879	2997	+ve	16.161	30.645	0.449	0.000	0.331	53.276
			28:COM15	16:COM3	20:COM7	-	28:COM15	16:COM3
			-19.558	0.000	-0.306	-4.017	-0.452	-32.056
			22:COM9	-	30:COM17	22:COM9	22:COM9	26:COM13
	2996	-ve	16.161	28.396	0.449	0.000	0.429	4.539
			28:COM15	16:COM3	20:COM7	-	20:COM7	24:COM11
			-19.558	-0.232	-0.306	-4.017	-0.272	-42.075
			22:COM9	26:COM13	30:COM17	22:COM9	30:COM17	18:COM5
6880	2998	+ve	17.752	0.000	0.573	6.672	0.599	46.088
			28:COM15	-	28:COM15	20:COM7	20:COM7	16:COM3
			-19.396	-40.472	-0.569	-0.873	-0.612	-36.226
			22:COM9	18:COM5	22:COM9	30:COM17	30:COM17	26:COM13
	2832	-ve	17.752	0.000	0.573	6.672	0.524	127.161
			28:COM15	-	28:COM15	20:COM7	28:COM15	16:COM3
			-19.396	-42.721	-0.569	-0.873	-0.530	-24.801
			22:COM9	18:COM5	22:COM9	30:COM17	22:COM9	26:COM13

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
6881	2999	+ve	19.013	1.269	0.286	3.557	0.421	2.602
			28:COM15	24:COM11	28:COM15	20:COM7	20:COM7	24:COM11
			-22.676	-26.461	-0.441	0.000	-0.248	-45.452
			22:COM9	18:COM5	22:COM9	-	30:COM17	18:COM5
	2998	-ve	19.013	0.000	0.286	3.557	0.318	46.202
			28:COM15	-	28:COM15	20:COM7	28:COM15	16:COM3
			-22.676	-28.709	-0.441	0.000	-0.446	-36.092
			22:COM9	18:COM5	22:COM9	-	22:COM9	26:COM13
6882	3000	+ve	19.811	7.630	0.043	2.480	0.217	0.000
			28:COM15	24:COM11	24:COM11	16:COM3	20:COM7	-
			-23.038	-13.662	-0.151	-1.160	-0.104	-39.786
			22:COM9	18:COM5	18:COM5	26:COM13	30:COM17	34:CVOL3
	2999	-ve	19.811	5.944	0.043	2.480	0.099	2.753
			28:COM15	24:COM11	24:COM11	16:COM3	28:COM15	24:COM11
			-23.038	-15.911	-0.151	-1.160	-0.196	-45.421
			22:COM9	18:COM5	18:COM5	26:COM13	22:COM9	18:COM5
6883	3001	+ve	20.450	17.571	0.156	1.005	0.132	4.965
			28:COM15	16:COM3	16:COM3	24:COM11	28:COM15	24:COM11
			-23.887	-4.925	-0.050	-2.982	-0.228	-42.423
			22:COM9	26:COM13	26:COM13	18:COM5	22:COM9	18:COM5
	3000	-ve	20.450	15.322	0.156	1.005	0.192	0.000
			28:COM15	16:COM3	16:COM3	24:COM11	20:COM7	-
			-23.887	-6.611	-0.050	-2.982	-0.082	-39.797
			22:COM9	26:COM13	26:COM13	18:COM5	30:COM17	34:CVOL3
6884	3002	+ve	20.649	30.455	0.317	0.000	0.223	53.132
			28:COM15	16:COM3	16:COM3	-	24:COM11	16:COM3
			-24.891	0.000	-0.185	-4.008	-0.321	-32.227
			22:COM9	-	26:COM13	22:COM9	18:COM5	26:COM13
	3001	-ve	20.649	28.207	0.317	0.000	0.321	4.802
			28:COM15	16:COM3	16:COM3	-	16:COM3	24:COM11
			-24.891	-0.140	-0.185	-4.008	-0.162	-42.464
			22:COM9	26:COM13	26:COM13	22:COM9	26:COM13	18:COM5
6885	3003	+ve	7.215	0.000	0.324	6.947	0.774	55.741
			20:COM7	-	28:COM15	20:COM7	20:COM7	16:COM3
			-5.451	-40.171	-1.029	0.000	-0.420	-38.171
			30:COM17	18:COM5	22:COM9	-	30:COM17	26:COM13
	2833	-ve	7.215	0.000	0.324	6.947	0.305	136.258
			20:COM7	-	28:COM15	20:COM7	28:COM15	16:COM3
			-5.451	-42.420	-1.029	0.000	-1.326	-28.896
			30:COM17	18:COM5	22:COM9	-	22:COM9	26:COM13
6886	3004	+ve	9.956	1.827	0.279	4.785	0.523	9.440
			20:COM7	24:COM11	28:COM15	16:COM3	20:COM7	24:COM11
			-9.420	-27.210	-0.657	0.000	-0.231	-44.938
			30:COM17	18:COM5	22:COM9	-	30:COM17	18:COM5
	3003	-ve	9.956	0.140	0.279	4.785	0.399	55.904
			20:COM7	24:COM11	28:COM15	16:COM3	28:COM15	16:COM3
			-9.420	-29.459	-0.657	0.000	-0.844	-38.067
			30:COM17	18:COM5	22:COM9	-	22:COM9	26:COM13

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
6887	3005	+ve	12.194	8.026	0.254	2.571	0.496	0.000
			20:COM7	24:COM11	28:COM15	16:COM3	20:COM7	-
			-11.667	-15.333	-0.514	-1.332	-0.255	-37.111
			30:COM17	18:COM5	22:COM9	26:COM13	30:COM17	35:CVOL4
	3004	-ve	12.194	6.339	0.254	2.571	0.245	9.572
			20:COM7	24:COM11	28:COM15	16:COM3	28:COM15	24:COM17
			-11.667	-17.581	-0.514	-1.332	-0.510	-44.906
			30:COM17	18:COM5	22:COM9	26:COM13	22:COM9	18:COM5
6888	3006	+ve	14.196	17.584	0.397	0.259	0.424	5.594
			20:COM7	16:COM3	20:COM7	24:COM17	28:COM15	24:COM17
			-14.516	-6.778	-0.421	-3.160	-0.414	-41.800
			30:COM17	26:COM13	30:COM17	18:COM5	22:COM9	18:COM5
	3005	-ve	14.196	15.336	0.397	0.259	0.364	0.000
			20:COM7	16:COM3	20:COM7	24:COM17	20:COM7	-
			-14.516	-8.465	-0.421	-3.160	-0.401	-37.123
			30:COM17	26:COM13	30:COM17	18:COM5	30:COM17	35:CVOL4
6889	3007	+ve	15.555	30.390	0.518	0.000	0.664	53.921
			28:COM15	16:COM3	20:COM7	-	28:COM15	16:COM3
			-17.083	-0.536	-0.540	-4.790	-0.596	-35.946
			22:COM9	26:COM13	30:COM17	22:COM9	22:COM9	26:COM13
	3006	-ve	15.555	28.141	0.518	0.000	0.418	5.455
			28:COM15	16:COM3	20:COM7	-	20:COM7	24:COM17
			-17.083	-2.223	-0.540	-4.790	-0.391	-41.858
			22:COM9	26:COM13	30:COM17	22:COM9	30:COM17	18:COM5
6890	3008	+ve	6.542	0.000	0.704	7.015	1.176	48.842
			20:COM7	-	24:COM11	20:COM7	20:COM7	20:COM7
			-4.860	-41.380	-0.817	-2.181	-1.036	-35.245
			30:COM17	22:COM9	18:COM5	30:COM17	30:COM17	30:COM17
	2834	-ve	6.542	0.000	0.704	7.015	0.406	133.160
			20:COM7	-	24:COM11	20:COM7	24:COM11	20:COM7
			-4.860	-43.667	-0.817	-2.181	-0.489	-30.371
			30:COM17	22:COM9	18:COM5	30:COM17	18:COM5	30:COM17
6891	3009	+ve	6.345	3.495	3.102	7.413	4.233	0.762
			28:COM15	28:COM15	28:COM15	20:COM7	20:COM7	28:COM15
			-7.451	-27.648	-3.713	-3.627	-3.384	-38.789
			22:COM9	22:COM9	22:COM9	30:COM17	30:COM17	22:COM9
	3008	-ve	6.345	1.780	3.102	7.413	2.768	48.901
			28:COM15	28:COM15	28:COM15	20:COM7	28:COM15	20:COM7
			-7.451	-29.936	-3.713	-3.627	-3.132	-35.055
			22:COM9	22:COM9	22:COM9	30:COM17	22:COM9	30:COM17
6892	3010	+ve	6.669	6.866	2.865	4.882	3.689	0.000
			20:COM7	28:COM15	28:COM15	20:COM7	20:COM7	-
			-7.265	-14.622	-3.929	-2.730	-2.461	-39.540
			30:COM17	22:COM9	22:COM9	30:COM17	30:COM17	35:CVOL4
	3009	-ve	6.669	5.150	2.865	4.882	3.223	0.802
			20:COM7	28:COM15	28:COM15	20:COM7	28:COM15	28:COM15
			-7.265	-16.909	-3.929	-2.730	-4.104	-38.588
			30:COM17	22:COM9	22:COM9	30:COM17	22:COM9	22:COM9

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
6893	3011	+ve	4.702	10.573	0.494	0.630	2.371	0.000
			28:COM15	20:COM7	24:COM11	28:COM15	20:COM7	-
			-6.085	-3.582	-1.452	-1.197	-1.430	-45.908
			22:COM9	30:COM17	18:COM5	22:COM9	30:COM17	22:COM9
	3010	-ve	4.702	8.286	0.494	0.630	0.000	0.000
			28:COM15	20:COM7	24:COM11	28:COM15	-	-
			-6.085	-5.297	-1.452	-1.197	-0.918	-39.483
			22:COM9	30:COM17	18:COM5	22:COM9	22:COM9	35:CVOL4
6894	3012	+ve	4.764	17.986	2.420	2.664	4.007	22.673
			20:COM7	20:COM7	28:COM15	28:COM15	20:COM7	28:COM15
			-4.198	0.000	-4.133	-5.429	-1.923	-29.557
			30:COM17	-	22:COM9	22:COM9	30:COM17	22:COM9
	3011	-ve	4.764	15.699	2.420	2.664	2.877	0.000
			20:COM7	20:COM7	28:COM15	28:COM15	28:COM15	-
			-4.198	0.000	-4.133	-5.429	-4.190	-45.758
			30:COM17	-	22:COM9	22:COM9	22:COM9	22:COM9
6895	3013	+ve	10.437	28.494	0.000	3.119	3.134	74.280
			20:COM7	20:COM7	-	28:COM15	20:COM7	20:COM7
			0.000	0.000	-2.490	-6.823	0.000	-6.281
			-	-	34:CVOL3	22:COM9	-	30:COM17
	3012	-ve	10.437	26.207	0.000	3.119	0.000	22.357
			20:COM7	20:COM7	-	28:COM15	-	28:COM15
			0.000	0.000	-2.490	-6.823	-2.746	-29.659
			-	-	34:CVOL3	22:COM9	22:COM9	22:COM9
6896	3014	+ve	6.228	14.372	0.666	2.569	0.326	3.000
			20:COM7	16:COM3	28:COM15	24:COM17	20:COM7	24:COM17
			-2.618	-4.994	-1.095	-9.288	-0.335	-12.149
			30:COM17	26:COM13	22:COM9	18:COM5	30:COM17	18:COM5
	3140	-ve	6.228	13.074	0.666	2.569	0.450	0.000
			20:COM7	16:COM3	28:COM15	24:COM17	28:COM15	-
			-2.618	-5.968	-1.095	-9.288	-0.941	-14.698
			30:COM17	26:COM13	22:COM9	18:COM5	22:COM9	18:COM5
6897	3015	+ve	6.508	27.418	1.020	2.562	0.509	50.034
			20:COM7	16:COM3	20:COM7	24:COM17	28:COM15	16:COM3
			-3.345	0.000	-0.343	-6.706	-1.065	-9.502
			30:COM17	-	30:COM17	18:COM5	22:COM9	26:COM13
	3014	-ve	6.508	25.251	1.020	2.562	0.868	2.815
			20:COM7	16:COM3	20:COM7	24:COM17	20:COM7	24:COM17
			-3.345	-0.585	-0.343	-6.706	-0.154	-12.182
			30:COM17	26:COM13	30:COM17	18:COM5	30:COM17	18:COM5
6898	3016	+ve	19.207	0.000	0.074	0.000	1.057	43.331
			20:COM7	-	28:COM15	-	20:COM7	16:COM3
			-14.430	-34.938	-1.253	-10.167	0.000	-27.818
			30:COM17	18:COM5	22:COM9	18:COM5	-	26:COM13
	2836	-ve	19.207	0.000	0.074	0.000	0.171	113.807
			20:COM7	-	28:COM15	-	28:COM15	16:COM3
			-14.430	-37.192	-1.253	-10.167	-1.401	-17.808
			30:COM17	18:COM5	22:COM9	18:COM5	22:COM9	26:COM13

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
6899	3017	+ve	16.706	0.000	0.000	0.000	0.434	6.144
			20:COM7	-	-	-	20:COM7	24:COM1
			-14.429	-21.804	-0.312	-6.430	0.000	-38.508
			30:COM1	18:COM5	22:COM9	34:CVOL3	-	18:COM5
	3016	-ve	16.706	0.000	0.000	0.000	0.018	43.456
			20:COM7	-	-	-	28:COM1	16:COM3
			-14.429	-24.059	-0.312	-6.430	-0.221	-27.727
			30:COM1	18:COM5	22:COM9	34:CVOL3	22:COM9	26:COM1
6900	3018	+ve	15.205	3.432	0.054	0.000	0.195	0.000
			20:COM7	24:COM11	24:COM11	-	20:COM7	-
			-12.676	-12.204	-0.131	-4.350	-0.096	-37.992
			30:COM1	18:COM5	18:COM5	18:COM5	30:COM1	18:COM5
	3017	-ve	15.205	1.741	0.054	0.000	0.062	6.240
			20:COM7	24:COM11	24:COM11	-	24:COM11	24:COM1
			-12.676	-14.459	-0.131	-4.350	-0.113	-38.479
			30:COM1	18:COM5	18:COM5	18:COM5	18:COM5	18:COM5
6901	3019	+ve	13.057	9.056	0.054	1.441	0.116	0.000
			20:COM7	16:COM3	24:COM11	16:COM3	28:COM1	-
			-11.132	-4.967	-0.080	-1.542	-0.085	-37.656
			30:COM1	26:COM1	18:COM5	26:COM1	22:COM9	18:COM5
	3018	-ve	13.057	6.801	0.054	1.441	0.067	0.000
			20:COM7	16:COM3	24:COM11	16:COM3	24:COM11	-
			-11.132	-6.659	-0.080	-1.542	-0.087	-38.017
			30:COM1	26:COM1	18:COM5	26:COM1	18:COM5	18:COM5
6902	3020	+ve	10.644	17.109	0.080	4.493	0.098	13.197
			28:COM1	16:COM3	16:COM3	16:COM3	24:COM11	24:COM1
			-9.721	-0.098	-0.091	0.000	-0.075	-32.952
			22:COM9	26:COM1	26:COM1	-	18:COM5	18:COM5
	3019	-ve	10.644	14.854	0.080	4.493	0.097	0.000
			28:COM1	16:COM3	16:COM3	16:COM3	24:COM11	-
			-9.721	-1.790	-0.091	0.000	-0.095	-37.665
			22:COM9	26:COM1	26:COM1	-	18:COM5	18:COM5
6903	3021	+ve	8.537	26.475	0.505	6.608	0.269	58.065
			28:COM1	16:COM3	20:COM7	20:COM7	28:COM1	16:COM3
			-9.160	0.000	-0.155	0.000	-0.606	-21.009
			22:COM9	-	30:COM1	-	22:COM9	26:COM1
	3020	-ve	8.537	24.220	0.505	6.608	0.397	13.095
			28:COM1	16:COM3	20:COM7	20:COM7	16:COM3	24:COM1
			-9.160	0.000	-0.155	0.000	-0.049	-33.025
			22:COM9	-	30:COM1	-	26:COM1	18:COM5
6904	3022	+ve	25.654	0.000	0.128	0.000	1.134	52.573
			20:COM7	-	28:COM1	-	20:COM7	16:COM3
			-18.821	-36.424	-1.330	-8.737	0.000	-30.555
			30:COM1	18:COM5	22:COM9	22:COM9	-	26:COM1
	2837	-ve	25.654	0.000	0.128	0.000	0.292	126.639
			20:COM7	-	28:COM1	-	28:COM1	16:COM3
			-18.821	-38.698	-1.330	-8.737	-1.511	-19.567
			30:COM1	18:COM5	22:COM9	22:COM9	22:COM9	26:COM1

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
6905	3023	+ve	27.145	0.000	0.060	0.000	0.513	10.724
			20:COM7	-	24:COM11	-	16:COM3	24:COM1
			-21.580	-23.549	-0.503	-7.077	-0.027	-40.232
			30:COM1	18:COM5	18:COM5	18:COM5	26:COM1	18:COM5
	3022	-ve	27.145	0.000	0.060	0.000	0.098	52.678
			20:COM7	-	24:COM11	-	24:COM11	16:COM3
			-21.580	-25.824	-0.503	-7.077	-0.485	-30.450
			30:COM1	18:COM5	18:COM5	18:COM5	18:COM5	26:COM1
6906	3024	+ve	26.905	3.650	0.104	0.213	0.271	0.000
			20:COM7	24:COM11	24:COM11	24:COM1	20:COM7	-
			-20.497	-13.953	-0.218	-5.140	-0.128	-40.008
			30:COM1	18:COM5	18:COM5	18:COM5	30:COM1	18:COM5
	3023	-ve	26.905	1.944	0.104	0.213	0.143	10.815
			20:COM7	24:COM11	24:COM11	24:COM1	24:COM11	24:COM1
			-20.497	-16.229	-0.218	-5.140	-0.224	-40.187
			30:COM1	18:COM5	18:COM5	18:COM5	18:COM5	18:COM5
6907	3025	+ve	26.033	8.743	0.083	1.806	0.203	0.000
			20:COM7	16:COM3	24:COM11	24:COM1	20:COM7	-
			-19.558	-6.224	-0.126	-1.890	-0.138	-39.323
			30:COM1	26:COM1	18:COM5	18:COM5	30:COM1	18:COM5
	3024	-ve	26.033	6.633	0.083	1.806	0.115	0.000
			20:COM7	24:COM11	24:COM11	24:COM1	24:COM11	-
			-19.558	-8.095	-0.126	-1.890	-0.135	-40.024
			30:COM1	18:COM5	18:COM5	18:COM5	18:COM5	18:COM5
6908	3026	+ve	24.651	16.716	0.142	4.332	0.109	11.621
			20:COM7	16:COM3	16:COM3	16:COM3	28:COM1	24:COM1
			-18.630	-1.310	-0.069	0.000	-0.148	-37.730
			30:COM1	26:COM1	26:COM1	-	22:COM9	18:COM5
	3025	-ve	24.651	14.441	0.142	4.332	0.196	0.000
			20:COM7	16:COM3	16:COM3	16:COM3	16:COM3	-
			-18.630	-3.017	-0.069	0.000	-0.091	-39.293
			30:COM1	26:COM1	26:COM1	-	26:COM1	18:COM5
6909	3027	+ve	22.655	26.580	0.608	6.117	0.157	55.670
			20:COM7	16:COM3	20:COM7	20:COM7	28:COM1	16:COM3
			-18.035	0.000	-0.087	0.000	-0.608	-27.321
			30:COM1	-	30:COM1	-	22:COM9	26:COM1
	3026	-ve	22.655	24.305	0.608	6.117	0.612	11.497
			20:COM7	16:COM3	20:COM7	20:COM7	16:COM3	24:COM1
			-18.035	0.000	-0.087	0.000	-0.035	-37.749
			30:COM1	-	30:COM1	-	26:COM1	18:COM5
6910	3028	+ve	7.770	0.000	1.055	5.693	3.582	23.676
			28:COM1	-	24:COM11	24:COM1	16:COM3	16:COM3
			-9.791	-26.232	-2.812	-6.168	-1.786	-5.198
			22:COM9	18:COM5	18:COM5	18:COM5	26:COM1	26:COM1
	2839	-ve	7.770	0.000	1.055	5.693	0.949	77.511
			28:COM1	-	24:COM11	24:COM1	28:COM1	16:COM3
			-9.791	-28.506	-2.812	-6.168	-2.618	0.000
			22:COM9	18:COM5	18:COM5	18:COM5	22:COM9	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
6911	3029	+ve	4.788	0.000	0.635	4.911	0.841	0.000
			20:COM7	-	24:COM11	24:COM11	16:COM3	-
			-4.866	-14.623	-1.331	-4.307	-0.366	-23.509
			30:COM17	18:COM5	18:COM5	18:COM5	26:COM13	22:COM9
	3028	-ve	4.788	0.000	0.635	4.911	1.746	23.860
			20:COM7	-	24:COM11	24:COM11	24:COM11	16:COM3
			-4.866	-16.896	-1.331	-4.307	-2.643	-5.071
			30:COM17	18:COM5	18:COM5	18:COM5	18:COM5	26:COM13
6912	3030	+ve	6.875	0.000	2.722	3.850	2.022	0.000
			20:COM7	-	16:COM3	24:COM11	24:COM11	-
			-6.003	-6.570	-2.279	-3.326	-2.357	-32.638
			30:COM17	18:COM5	26:COM13	18:COM5	18:COM5	22:COM9
	3029	-ve	6.875	0.000	2.722	3.850	3.011	0.000
			20:COM7	-	16:COM3	24:COM11	16:COM3	-
			-6.003	-8.843	-2.279	-3.326	-2.473	-23.405
			30:COM17	18:COM5	26:COM13	18:COM5	26:COM13	22:COM9
6913	3031	+ve	13.090	3.273	2.893	1.391	2.691	0.000
			20:COM7	16:COM3	16:COM3	24:COM11	24:COM11	-
			-11.116	-1.108	-2.330	-1.883	-3.152	-29.483
			30:COM17	26:COM13	26:COM13	18:COM5	18:COM5	35:CVOL4
	3030	-ve	13.090	1.272	2.893	1.391	2.582	0.000
			20:COM7	24:COM11	16:COM3	24:COM11	16:COM3	-
			-11.116	-3.084	-2.330	-1.883	-1.933	-32.678
			30:COM17	18:COM5	26:COM13	18:COM5	26:COM13	18:COM5
6914	3032	+ve	18.339	11.593	1.165	1.720	1.468	0.000
			20:COM7	16:COM3	16:COM3	24:COM11	24:COM11	-
			-15.142	0.000	-0.321	-2.943	-2.254	-20.776
			30:COM17	-	26:COM13	18:COM5	18:COM5	18:COM5
	3031	-ve	18.339	9.320	1.165	1.720	1.715	0.000
			20:COM7	16:COM3	16:COM3	24:COM11	16:COM3	-
			-15.142	-0.670	-0.321	-2.943	-0.837	-29.519
			30:COM17	26:COM13	26:COM13	18:COM5	26:COM13	35:CVOL4
6915	3033	+ve	22.021	22.722	4.883	5.395	4.215	34.217
			20:COM7	16:COM3	16:COM3	16:COM3	24:COM11	16:COM3
			-18.355	0.000	-4.068	-5.849	-4.742	-12.872
			30:COM17	-	26:COM13	26:COM13	18:COM5	26:COM13
	3032	-ve	22.021	20.449	4.883	5.395	4.889	0.000
			20:COM7	16:COM3	16:COM3	16:COM3	16:COM3	-
			-18.355	0.000	-4.068	-5.849	-3.808	-20.863
			30:COM17	-	26:COM13	26:COM13	26:COM13	18:COM5
6920	3038	+ve	83.862	46.826	7.812	2.173	0.000	141.129
			34:CVOL3	34:CVOL3	34:CVOL3	24:COM11	-	34:CVOL3
			0.000	0.000	0.000	-1.917	-8.131	0.000
			-	-	-	18:COM5	34:CVOL3	-
	3104	-ve	83.862	43.479	7.812	2.173	6.982	54.401
			34:CVOL3	34:CVOL3	34:CVOL3	24:COM11	34:CVOL3	32:CVOL1
			0.000	0.000	0.000	-1.917	0.000	0.000
			-	-	-	18:COM5	-	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
6921	3039	+ve	130.428	66.267	5.249	4.680	0.000	237.588
			34:CVOL3	34:CVOL3	34:CVOL3	20:COM7	-	34:CVOL3
			0.000	0.000	0.000	-1.417	-4.090	0.000
			-	-	-	30:COM1	18:COM5	-
	3038	-ve	130.428	63.442	5.249	4.680	4.788	131.687
			34:CVOL3	34:CVOL3	34:CVOL3	20:COM7	34:CVOL3	34:CVOL3
			0.000	0.000	0.000	-1.417	0.000	0.000
			-	-	-	30:COM1	-	-
6922	2950	+ve	246.981	0.000	22.351	30.676	8.113	298.009
			34:CVOL3	-	20:COM7	28:COM1	28:COM1	34:CVOL3
			0.000	-103.977	-10.950	-36.361	-19.035	0.000
			-	22:COM9	30:COM1	22:COM9	22:COM9	-
	2821	-ve	246.981	0.000	22.351	30.676	17.558	458.321
			34:CVOL3	-	20:COM7	28:COM1	20:COM7	34:CVOL3
			0.000	-107.376	-10.950	-36.361	-9.815	0.000
			-	22:COM9	30:COM1	22:COM9	30:COM1	-
6923	2949	+ve	170.071	0.000	3.295	10.003	4.220	183.320
			34:CVOL3	-	20:COM7	28:COM1	20:COM7	34:CVOL3
			0.000	-80.085	-3.054	-11.709	-1.721	0.000
			-	22:COM9	30:COM1	22:COM9	30:COM1	-
	2950	-ve	170.071	0.000	3.295	10.003	4.172	313.686
			34:CVOL3	-	20:COM7	28:COM1	20:COM7	34:CVOL3
			0.000	-83.475	-3.054	-11.709	-1.280	0.000
			-	22:COM9	30:COM1	22:COM9	30:COM1	-
6924	3040	+ve	8.231	0.000	0.006	0.142	0.106	14.450
			28:COM1	-	24:COM1	24:COM1	16:COM3	16:COM3
			-8.589	-6.413	-0.116	-1.110	-0.006	-7.079
			22:COM9	18:COM5	18:COM5	18:COM5	26:COM1	26:COM1
	2871	-ve	8.231	0.000	0.006	0.142	0.007	22.163
			28:COM1	-	24:COM1	24:COM1	24:COM1	16:COM3
			-8.589	-8.112	-0.116	-1.110	-0.121	0.000
			22:COM9	18:COM5	18:COM5	18:COM5	18:COM5	-
6925	3041	+ve	8.625	0.000	0.032	0.000	0.018	3.987
			20:COM7	-	16:COM3	-	24:COM1	24:COM1
			-6.579	-5.392	-0.012	-0.755	-0.036	-12.823
			30:COM1	18:COM5	26:COM1	18:COM5	18:COM5	18:COM5
	3040	-ve	8.625	0.000	0.032	0.000	0.028	14.265
			20:COM7	-	16:COM3	-	16:COM3	16:COM3
			-6.579	-7.091	-0.012	-0.755	-0.007	-7.211
			30:COM1	18:COM5	26:COM1	18:COM5	26:COM1	26:COM1
6926	3042	+ve	7.877	1.547	0.052	0.000	0.024	0.000
			20:COM7	24:COM1	16:COM3	-	24:COM1	-
			-5.863	-4.233	-0.023	-0.537	-0.046	-12.878
			30:COM1	18:COM5	26:COM1	18:COM5	18:COM5	18:COM5
	3041	-ve	7.877	0.273	0.052	0.000	0.056	3.850
			20:COM7	24:COM1	16:COM3	-	16:COM3	24:COM1
			-5.863	-5.931	-0.023	-0.537	-0.021	-12.913
			30:COM1	18:COM5	26:COM1	18:COM5	26:COM1	18:COM5

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
6927	3043	+ve	6.565	4.201	0.020	0.172	0.030	0.000
			20:COM7	16:COM3	24:COM11	16:COM3	16:COM3	-
			-5.051	-1.832	-0.027	-0.176	-0.017	-12.569
			30:COM17	26:COM13	18:COM5	26:COM13	26:COM13	18:COM5
	3042	-ve	6.565	2.505	0.020	0.172	0.022	0.000
			20:COM7	24:COM11	24:COM11	16:COM3	24:COM11	-
			-5.051	-3.108	-0.027	-0.176	-0.024	-12.877
			30:COM17	18:COM5	18:COM5	26:COM13	18:COM5	18:COM5
6928	3044	+ve	5.284	7.148	0.004	0.527	0.050	6.836
			20:COM7	16:COM3	24:COM11	16:COM3	16:COM3	24:COM11
			-3.972	0.000	-0.048	0.000	-0.002	-10.751
			30:COM17	-	18:COM5	-	26:COM13	18:COM5
	3043	-ve	5.284	5.450	0.004	0.527	0.005	0.000
			20:COM7	16:COM3	24:COM11	16:COM3	24:COM11	-
			-3.972	-1.012	-0.048	0.000	-0.043	-12.566
			30:COM17	26:COM13	18:COM5	-	18:COM5	18:COM5
6929	3045	+ve	4.023	8.760	0.000	0.794	0.024	21.730
			20:COM7	16:COM3	-	16:COM3	20:COM7	16:COM3
			-3.048	0.000	-0.027	0.000	-0.003	-6.326
			30:COM17	-	18:COM5	-	30:COM17	26:COM13
	3044	-ve	4.023	7.061	0.000	0.794	0.001	6.970
			20:COM7	16:COM3	-	16:COM3	24:COM11	24:COM11
			-3.048	0.000	-0.027	0.000	-0.034	-10.654
			30:COM17	-	18:COM5	-	18:COM5	18:COM5
6930	3046	+ve	14.321	0.000	0.014	0.000	0.097	18.966
			20:COM7	-	28:COM15	-	20:COM7	16:COM3
			-13.058	-5.504	-0.118	-0.868	0.000	-9.100
			30:COM17	18:COM5	22:COM9	18:COM5	-	26:COM13
	2872	-ve	14.321	0.000	0.014	0.000	0.029	29.348
			20:COM7	-	28:COM15	-	28:COM15	16:COM3
			-13.058	-7.220	-0.118	-0.868	-0.137	-0.215
			30:COM17	18:COM5	22:COM9	18:COM5	22:COM9	26:COM13
6931	3047	+ve	13.736	0.000	0.035	0.000	0.017	6.098
			20:COM7	-	16:COM3	-	24:COM11	24:COM11
			-10.317	-6.357	-0.011	-0.862	-0.043	-13.736
			30:COM17	18:COM5	26:COM13	18:COM5	18:COM5	18:COM5
	3046	-ve	13.736	0.000	0.035	0.000	0.028	18.738
			20:COM7	-	16:COM3	-	16:COM3	16:COM3
			-10.317	-8.072	-0.011	-0.862	-0.007	-9.190
			30:COM17	18:COM5	26:COM13	18:COM5	26:COM13	26:COM13
6932	3048	+ve	13.473	1.695	0.050	0.053	0.022	0.000
			20:COM7	24:COM11	16:COM3	24:COM11	24:COM11	-
			-9.727	-4.995	-0.017	-0.598	-0.047	-13.794
			30:COM17	18:COM5	26:COM13	18:COM5	18:COM5	18:COM5
	3047	-ve	13.473	0.409	0.050	0.053	0.053	5.939
			20:COM7	24:COM11	16:COM3	24:COM11	16:COM3	24:COM11
			-9.727	-6.710	-0.017	-0.598	-0.013	-13.807
			30:COM17	18:COM5	26:COM13	18:COM5	26:COM13	18:COM5

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
6933	3049	+ve	12.933	4.122	0.024	0.212	0.039	0.000
			20:COM7	16:COM3	24:COM11	24:COM11	16:COM3	-
			-9.252	-2.371	-0.032	-0.213	-0.023	-13.213
			30:COM17	26:COM13	18:COM5	18:COM5	26:COM13	18:COM5
	3048	-ve	12.933	2.566	0.024	0.212	0.026	0.000
			20:COM7	24:COM11	24:COM11	24:COM11	24:COM11	-
			-9.252	-3.816	-0.032	-0.213	-0.025	-13.779
			30:COM17	18:COM5	18:COM5	18:COM5	18:COM5	18:COM5
6934	3050	+ve	12.262	6.892	0.017	0.559	0.072	6.043
			20:COM7	16:COM3	24:COM11	16:COM3	16:COM3	24:COM11
			-8.564	-0.168	-0.065	-0.012	-0.016	-12.578
			30:COM17	26:COM13	18:COM5	26:COM13	26:COM13	18:COM5
	3049	-ve	12.262	5.177	0.017	0.559	0.019	0.000
			20:COM7	16:COM3	24:COM11	16:COM3	24:COM11	-
			-8.564	-1.454	-0.065	-0.012	-0.058	-13.221
			30:COM17	26:COM13	18:COM5	26:COM13	18:COM5	18:COM5
6935	3051	+ve	11.023	7.766	0.005	0.769	0.027	18.517
			20:COM7	16:COM3	24:COM11	20:COM7	16:COM3	16:COM3
			-8.004	0.000	-0.034	0.000	-0.001	-7.535
			30:COM17	-	18:COM5	-	26:COM13	26:COM13
	3050	-ve	11.023	6.051	0.005	0.769	0.011	6.188
			20:COM7	16:COM3	24:COM11	20:COM7	24:COM11	24:COM11
			-8.004	0.000	-0.034	0.000	-0.042	-12.490
			30:COM17	-	18:COM5	-	18:COM5	18:COM5
6936	3054	+ve	12.243	6.704	0.094	0.682	0.116	11.901
			20:COM7	35:CVOL4	24:COM11	16:COM3	16:COM3	16:COM3
			-8.710	0.000	-0.121	-0.500	-0.083	-1.913
			30:COM17	-	18:COM5	26:COM13	26:COM13	26:COM13
	3053	-ve	12.243	4.990	0.094	0.682	0.103	2.338
			20:COM7	35:CVOL4	24:COM11	16:COM3	24:COM11	24:COM11
			-8.710	0.000	-0.121	-0.500	-0.123	-10.020
			30:COM17	-	18:COM5	26:COM13	18:COM5	18:COM5
6938	3056	+ve	6.232	78.942	2.944	0.231	3.392	14.410
			28:COM15	16:COM3	28:COM15	24:COM11	20:COM7	16:COM3
			-7.572	-64.242	-3.362	-3.762	-2.954	0.000
			22:COM9	26:COM13	22:COM9	18:COM5	30:COM17	-
	5469	-ve	6.232	76.616	2.944	0.231	3.015	131.570
			28:COM15	16:COM3	28:COM15	24:COM11	28:COM15	24:COM11
			-7.572	-65.986	-3.362	-3.762	-3.418	-142.610
			22:COM9	26:COM13	22:COM9	18:COM5	22:COM9	18:COM5
6942	2947	+ve	26.049	114.646	3.346	0.000	2.027	10.914
			16:COM3	16:COM3	20:COM7	-	28:COM15	24:COM11
			-15.536	-104.252	-2.268	-3.125	-3.109	-14.851
			26:COM13	26:COM13	30:COM17	18:COM5	22:COM9	18:COM5
	5483	-ve	26.049	111.856	3.346	0.000	3.645	198.621
			16:COM3	16:COM3	20:COM7	-	20:COM7	24:COM11
			-15.536	-106.345	-2.268	-3.125	-2.553	-218.595
			26:COM13	26:COM13	30:COM17	18:COM5	30:COM17	18:COM5

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
6944	3126	+ve	13.422	62.357	2.788	31.408	1.302	106.441
			20:COM7	16:COM3	20:COM7	24:COM1	28:COM1	16:COM3
			0.000	-14.106	-1.966	-39.881	-1.436	-20.533
			-	26:COM1	30:COM1	18:COM5	22:COM9	26:COM1
	3180	-ve	13.422	60.214	2.788	31.408	1.337	45.753
			20:COM7	16:COM3	20:COM7	24:COM1	20:COM7	16:COM3
			0.000	-15.535	-1.966	-39.881	-0.657	-5.863
			-	26:COM1	30:COM1	18:COM5	30:COM1	26:COM1
6945	3060	+ve	9.433	6.517	0.022	0.083	0.029	2.716
			20:COM7	16:COM3	28:COM1	24:COM1	20:COM7	24:COM1
			-7.087	0.000	-0.027	-0.481	-0.027	-13.749
			30:COM1	-	22:COM9	18:COM5	30:COM1	18:COM5
	3082	-ve	9.433	5.607	0.022	0.083	0.019	0.000
			20:COM7	16:COM3	28:COM1	24:COM1	24:COM1	-
			-7.087	0.000	-0.027	-0.481	-0.027	-19.067
			30:COM1	-	22:COM9	18:COM5	18:COM5	34:CVOL
6946	3061	+ve	8.443	10.159	0.000	0.000	0.084	16.961
			20:COM7	34:CVOL	-	-	16:COM3	16:COM3
			-6.173	0.000	-0.080	-0.752	0.000	-3.987
			30:COM1	-	18:COM5	35:CVOL	-	26:COM1
	3060	-ve	8.443	8.312	0.000	0.000	0.000	2.806
			20:COM7	34:CVOL	-	-	-	24:COM1
			-6.173	0.000	-0.080	-0.752	-0.074	-13.676
			30:COM1	-	18:COM5	35:CVOL	18:COM5	18:COM5
6947	3062	+ve	2.425	3.131	0.868	0.178	0.070	11.280
			28:COM1	16:COM3	16:COM3	28:COM1	24:COM1	28:COM1
			-5.054	-0.403	-0.183	-2.325	-0.572	-20.283
			22:COM9	26:COM1	26:COM1	22:COM9	18:COM5	22:COM9
	2892	-ve	2.425	2.488	0.868	0.178	0.679	9.476
			28:COM1	16:COM3	16:COM3	28:COM1	16:COM3	28:COM1
			-5.054	-0.885	-0.183	-2.325	-0.226	-21.495
			22:COM9	26:COM1	26:COM1	22:COM9	26:COM1	22:COM9
6948	3063	+ve	2.010	4.052	0.437	2.763	0.253	14.438
			28:COM1	16:COM3	20:COM7	20:COM7	28:COM1	28:COM1
			-8.576	0.000	-0.313	-1.177	-0.376	-16.839
			22:COM9	-	30:COM1	30:COM1	22:COM9	22:COM9
	3062	-ve	2.010	3.124	0.437	2.763	0.504	10.675
			28:COM1	16:COM3	20:COM7	20:COM7	20:COM7	28:COM1
			-8.576	-0.534	-0.313	-1.177	-0.376	-19.926
			22:COM9	26:COM1	30:COM1	30:COM1	30:COM1	22:COM9
6949	3064	+ve	0.970	4.837	0.120	1.336	0.000	19.237
			24:COM1	20:COM7	20:COM7	20:COM7	-	20:COM7
			-12.259	0.000	0.000	-0.493	-0.125	-10.294
			18:COM5	-	-	30:COM1	18:COM5	30:COM1
	3063	-ve	0.970	3.935	0.120	1.336	0.118	14.273
			24:COM1	20:COM7	20:COM7	20:COM7	20:COM7	28:COM1
			-12.259	0.000	0.000	-0.493	0.000	-16.922
			18:COM5	-	-	30:COM1	-	22:COM9

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
6951	3067	+ve	9.849	7.405	0.049	0.792	0.007	1.272
			20:COM7	16:COM3	16:COM3	16:COM3	28:COM15	24:COM11
			-5.647	0.000	-0.015	0.000	-0.055	-9.259
			30:COM17	-	26:COM13	-	22:COM9	18:COM5
	5315	-ve	9.849	6.549	0.049	0.792	0.037	0.000
			20:COM7	16:COM3	16:COM3	16:COM3	16:COM3	-
			-5.647	0.000	-0.015	0.000	-0.021	-17.625
			30:COM17	-	26:COM13	-	26:COM13	34:CVOL3
6952	3068	+ve	9.593	9.852	0.030	0.605	0.058	16.584
			20:COM7	16:COM3	24:COM11	34:CVOL3	16:COM3	16:COM3
			-6.933	0.000	-0.053	0.000	-0.024	-3.751
			30:COM17	-	18:COM5	-	26:COM13	26:COM13
	3067	-ve	9.593	8.987	0.030	0.605	0.034	1.157
			20:COM7	16:COM3	24:COM11	34:CVOL3	24:COM11	24:COM11
			-6.933	0.000	-0.053	0.000	-0.043	-9.446
			30:COM17	-	18:COM5	-	18:COM5	18:COM5
6953	3069	+ve	6.092	0.000	0.186	0.758	0.203	16.853
			28:COM15	-	20:COM7	20:COM7	28:COM15	20:COM7
			-10.030	-12.798	-0.142	0.000	-0.234	-9.799
			22:COM9	22:COM9	30:COM17	-	22:COM9	30:COM17
	2883	-ve	6.092	0.000	0.186	0.758	0.134	43.017
			28:COM15	-	20:COM7	20:COM7	20:COM7	20:COM7
			-10.030	-13.710	-0.142	0.000	-0.079	-8.120
			22:COM9	22:COM9	30:COM17	-	30:COM17	30:COM17
6954	3070	+ve	6.564	2.524	0.588	0.617	0.535	0.000
			28:COM15	28:COM15	20:COM7	24:COM11	28:COM15	-
			-8.409	-10.347	-0.506	-1.381	-0.639	-9.127
			22:COM9	22:COM9	30:COM17	18:COM5	22:COM9	18:COM5
	3069	-ve	6.564	1.838	0.588	0.617	0.527	16.949
			28:COM15	28:COM15	20:COM7	24:COM11	20:COM7	20:COM7
			-8.409	-11.262	-0.506	-1.381	-0.470	-9.633
			22:COM9	22:COM9	30:COM17	18:COM5	30:COM17	30:COM17
6955	3071	+ve	5.845	3.686	0.625	0.939	0.358	1.843
			28:COM15	28:COM15	20:COM7	24:COM11	28:COM15	28:COM15
			-9.334	-7.508	-0.424	-1.345	-0.588	-20.465
			22:COM9	22:COM9	30:COM17	18:COM5	22:COM9	22:COM9
	3070	-ve	5.845	3.000	0.625	0.939	0.652	0.000
			28:COM15	28:COM15	20:COM7	24:COM11	20:COM7	-
			-9.334	-8.423	-0.424	-1.345	-0.482	-9.205
			22:COM9	22:COM9	30:COM17	18:COM5	30:COM17	18:COM5
6956	2992	+ve	0.000	4.637	0.042	0.188	0.000	5.127
			-	16:COM3	34:CVOL3	34:CVOL3	-	16:COM3
			-6.451	0.000	0.000	0.000	-0.052	0.000
			18:COM5	-	-	-	34:CVOL3	-
	2959	-ve	0.000	0.669	0.042	0.188	0.051	0.495
			-	24:COM11	34:CVOL3	34:CVOL3	34:CVOL3	24:COM11
			-6.451	-1.449	0.000	0.000	0.000	-1.036
			18:COM5	18:COM5	-	-	-	18:COM5

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
6957	2991	+ve	0.044	3.560	0.039	0.171	0.013	3.257
			28:COM15	16:COM3	16:COM3	16:COM3	24:COM11	16:COM3
			-3.565	0.000	-0.011	-0.031	-0.048	0.000
			22:COM9	-	26:COM13	26:COM13	18:COM5	-
	2960	-ve	0.044	0.000	0.039	0.171	0.049	0.410
			28:COM15	-	16:COM3	16:COM3	16:COM3	16:COM3
			-3.565	-1.609	-0.011	-0.031	-0.014	-0.321
			22:COM9	18:COM5	26:COM13	26:COM13	26:COM13	26:COM13
6958	2990	+ve	0.000	3.297	0.022	0.083	0.034	2.735
			-	35:CVOL4	24:COM11	24:COM11	16:COM3	16:COM3
			-2.558	0.000	-0.029	-0.107	-0.026	0.000
			18:COM5	-	18:COM5	18:COM5	26:COM13	-
	2961	-ve	0.000	0.000	0.022	0.083	0.027	0.392
			-	-	24:COM11	24:COM11	24:COM11	16:COM3
			-2.558	-1.634	-0.029	-0.107	-0.036	-0.116
			18:COM5	18:COM5	18:COM5	18:COM5	18:COM5	26:COM13
6959	2989	+ve	1.026	4.373	0.004	0.000	0.052	4.694
			24:COM11	16:COM3	24:COM11	-	16:COM3	16:COM3
			-5.524	0.000	-0.043	-0.170	-0.005	0.000
			18:COM5	-	18:COM5	18:COM5	26:COM13	-
	2962	-ve	1.026	0.599	0.004	0.000	0.006	0.627
			24:COM11	24:COM11	24:COM11	-	24:COM11	16:COM3
			-5.524	-1.929	-0.043	-0.170	-0.053	-0.831
			18:COM5	18:COM5	18:COM5	18:COM5	18:COM5	26:COM13
6960	2988	+ve	0.164	5.586	0.000	0.000	0.057	6.688
			24:COM11	16:COM3	-	-	20:COM7	16:COM3
			-8.355	0.000	-0.048	-0.201	0.000	0.000
			18:COM5	-	22:COM9	18:COM5	-	-
	2963	-ve	0.164	1.504	0.000	0.000	0.001	0.736
			24:COM11	24:COM11	-	-	28:COM15	24:COM11
			-8.355	-1.599	-0.048	-0.201	-0.059	-1.802
			18:COM5	18:COM5	22:COM9	18:COM5	22:COM9	18:COM5
6961	2997	+ve	0.000	5.898	0.034	0.164	0.000	7.191
			-	16:COM3	16:COM3	16:COM3	-	16:COM3
			-8.896	0.000	0.000	0.000	-0.042	0.000
			18:COM5	-	-	-	18:COM5	-
	2964	-ve	0.000	1.685	0.034	0.164	0.041	0.592
			-	24:COM11	16:COM3	16:COM3	16:COM3	24:COM11
			-8.896	-1.252	0.000	0.000	0.000	-2.060
			18:COM5	18:COM5	-	-	-	18:COM5
6962	2996	+ve	0.000	4.567	0.040	0.183	0.007	5.037
			-	16:COM3	16:COM3	16:COM3	24:COM11	16:COM3
			-5.976	0.000	-0.006	-0.022	-0.049	0.000
			18:COM5	-	26:COM13	26:COM13	18:COM5	-
	2965	-ve	0.000	0.685	0.040	0.183	0.048	0.447
			-	24:COM11	16:COM3	16:COM3	16:COM3	24:COM11
			-5.976	-1.543	-0.006	-0.022	-0.008	-0.958
			18:COM5	18:COM5	26:COM13	26:COM13	26:COM13	18:COM5

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
6963	2995	+ve	0.000	3.557	0.027	0.123	0.029	2.945
			-	34:CVOL3	16:COM3	16:COM3	24:COM11	20:COM7
			-2.734	0.000	-0.024	-0.102	-0.034	0.000
			22:COM9	-	26:COM13	26:COM13	18:COM5	-
	2966	-ve	0.000	0.000	0.027	0.123	0.034	0.096
			-	-	16:COM3	16:COM3	16:COM3	35:CVOL4
			-2.734	-1.286	-0.024	-0.102	-0.030	-0.053
			22:COM9	35:CVOL4	26:COM13	26:COM13	26:COM13	30:COM17
6964	2994	+ve	0.143	4.319	0.009	0.033	0.046	4.600
			24:COM17	16:COM3	24:COM11	24:COM17	16:COM3	16:COM3
			-5.404	0.000	-0.038	-0.164	-0.011	0.000
			18:COM5	-	18:COM5	18:COM5	26:COM13	-
	2967	-ve	0.143	0.510	0.009	0.033	0.011	0.501
			24:COM17	24:COM11	24:COM11	24:COM17	24:COM11	24:COM17
			-5.404	-1.660	-0.038	-0.164	-0.046	-0.790
			18:COM5	18:COM5	18:COM5	18:COM5	18:COM5	18:COM5
6965	2993	+ve	0.000	5.557	0.000	0.000	0.048	6.638
			-	16:COM3	-	-	20:COM7	16:COM3
			-8.297	0.000	-0.039	-0.164	0.000	0.000
			18:COM5	-	22:COM9	18:COM5	-	-
	2968	-ve	0.000	1.456	0.000	0.000	0.000	0.691
			-	24:COM11	-	-	-	24:COM17
			-8.297	-1.469	-0.039	-0.164	-0.048	-1.780
			18:COM5	18:COM5	22:COM9	18:COM5	22:COM9	18:COM5
6966	3002	+ve	0.000	5.815	0.035	0.161	0.000	7.071
			-	16:COM3	16:COM3	16:COM3	-	16:COM3
			-8.807	0.000	0.000	0.000	-0.044	0.000
			18:COM5	-	-	-	18:COM5	-
	2969	-ve	0.000	1.615	0.035	0.161	0.043	0.576
			-	24:COM11	16:COM3	16:COM3	16:COM3	24:COM17
			-8.807	-1.241	0.000	0.000	0.000	-1.978
			18:COM5	18:COM5	-	-	-	18:COM5
6967	3001	+ve	0.000	4.481	0.041	0.183	0.008	4.891
			-	16:COM3	16:COM3	16:COM3	24:COM11	16:COM3
			-5.736	0.000	-0.007	-0.025	-0.051	0.000
			18:COM5	-	26:COM13	26:COM13	18:COM5	-
	2970	-ve	0.000	0.610	0.041	0.183	0.050	0.424
			-	24:COM11	16:COM3	16:COM3	16:COM3	24:COM17
			-5.736	-1.514	-0.007	-0.025	-0.008	-0.892
			18:COM5	18:COM5	26:COM13	26:COM13	26:COM13	18:COM5
6968	3000	+ve	0.000	3.559	0.028	0.120	0.029	2.954
			-	34:CVOL3	16:COM3	16:COM3	24:COM11	20:COM7
			-2.718	0.000	-0.024	-0.105	-0.034	0.000
			22:COM9	-	26:COM13	26:COM13	18:COM5	-
	2971	-ve	0.000	0.000	0.028	0.120	0.034	0.094
			-	-	16:COM3	16:COM3	16:COM3	35:CVOL4
			-2.718	-1.283	-0.024	-0.105	-0.029	-0.066
			22:COM9	35:CVOL4	26:COM13	26:COM13	26:COM13	30:COM17

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
6969	2999	+ve	0.274	4.420	0.008	0.030	0.044	4.769
			24:COM1	16:COM3	24:COM1	24:COM1	16:COM3	16:COM3
			-5.657	0.000	-0.036	-0.163	-0.010	0.000
			18:COM5	-	18:COM5	18:COM5	26:COM1	-
	2972	-ve	0.274	0.599	0.008	0.030	0.010	0.527
			24:COM1	24:COM1	24:COM1	24:COM1	24:COM1	24:COM1
			-5.657	-1.690	-0.036	-0.163	-0.043	-0.867
			18:COM5	18:COM5	18:COM5	18:COM5	18:COM5	18:COM5
6970	2998	+ve	0.000	5.655	0.000	0.000	0.045	6.779
			-	16:COM3	-	-	16:COM3	16:COM3
			-8.422	0.000	-0.036	-0.166	0.000	0.000
			18:COM5	-	18:COM5	18:COM5	-	-
	2973	-ve	0.000	1.541	0.000	0.000	0.000	0.710
			-	24:COM1	-	-	-	24:COM1
			-8.422	-1.482	-0.036	-0.166	-0.044	-1.880
			18:COM5	18:COM5	18:COM5	18:COM5	18:COM5	18:COM5
6971	3007	+ve	0.000	5.845	0.046	0.199	0.000	7.120
			-	16:COM3	16:COM3	16:COM3	-	16:COM3
			-8.929	0.000	0.000	0.000	-0.056	0.000
			18:COM5	-	-	-	18:COM5	-
	2974	-ve	0.000	1.667	0.046	0.199	0.057	0.649
			-	24:COM1	16:COM3	16:COM3	16:COM3	24:COM1
			-8.929	-1.414	0.000	0.000	0.000	-2.001
			18:COM5	18:COM5	-	-	-	18:COM5
6972	3006	+ve	0.724	4.549	0.050	0.184	0.005	5.007
			24:COM1	16:COM3	20:COM7	16:COM3	28:COM1	16:COM3
			-5.956	0.000	-0.006	0.000	-0.060	0.000
			18:COM5	-	30:COM1	-	22:COM9	-
	2975	-ve	0.724	0.711	0.050	0.184	0.063	0.560
			24:COM1	24:COM1	20:COM7	16:COM3	20:COM7	24:COM1
			-5.956	-1.803	-0.006	0.000	-0.008	-0.940
			18:COM5	18:COM5	30:COM1	-	30:COM1	18:COM5
6973	3005	+ve	0.000	3.339	0.034	0.125	0.023	2.887
			-	35:CVOL4	20:COM7	16:COM3	24:COM1	20:COM7
			-2.789	0.000	-0.020	-0.076	-0.039	0.000
			22:COM9	-	30:COM1	26:COM1	18:COM5	-
	2976	-ve	0.000	0.000	0.034	0.125	0.043	0.353
			-	-	20:COM7	16:COM3	20:COM7	16:COM3
			-2.789	-1.610	-0.020	-0.076	-0.026	-0.120
			22:COM9	22:COM9	30:COM1	26:COM1	30:COM1	26:COM1
6974	3004	+ve	0.000	3.537	0.015	0.041	0.047	3.235
			-	16:COM3	28:COM1	24:COM1	20:COM7	16:COM3
			-3.449	0.000	-0.039	-0.163	-0.017	0.000
			18:COM5	-	22:COM9	18:COM5	30:COM1	-
	2977	-ve	0.000	0.000	0.015	0.041	0.019	0.457
			-	-	28:COM1	24:COM1	28:COM1	16:COM3
			-3.449	-1.674	-0.039	-0.163	-0.048	-0.306
			18:COM5	18:COM5	22:COM9	18:COM5	22:COM9	26:COM1

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
6975	3003	+ve	0.000	4.582	0.000	0.000	0.051	5.060
			-	16:COM3	-	-	16:COM3	16:COM3
			-6.436	0.000	-0.042	-0.187	0.000	0.000
			18:COM5	-	22:COM9	34:CVOL3	-	-
	2978	-ve	0.000	0.655	0.000	0.000	0.000	0.555
			-	24:COM11	-	-	-	24:COM11
			-6.436	-1.565	-0.042	-0.187	-0.052	-0.967
			18:COM5	18:COM5	22:COM9	34:CVOL3	22:COM9	18:COM5
6976	3045	+ve	0.023	0.995	0.000	0.000	0.099	0.299
			24:COM11	24:COM11	-	-	34:CVOL3	24:COM11
			-5.529	-3.054	-0.157	-0.207	0.000	-1.203
			18:COM5	18:COM5	35:CVOL4	22:COM9	-	18:COM5
	3021	-ve	0.023	0.000	0.000	0.000	0.000	3.970
			24:COM11	-	-	-	-	16:COM3
			-5.529	-5.220	-0.157	-0.207	-0.098	-0.165
			18:COM5	18:COM5	35:CVOL4	22:COM9	35:CVOL4	26:COM13
6977	3044	+ve	0.290	1.280	0.000	0.000	0.099	0.316
			24:COM11	16:COM3	-	-	16:COM3	16:COM3
			-2.247	-0.406	-0.153	-0.178	0.000	-0.142
			18:COM5	26:COM13	18:COM5	18:COM5	-	26:COM13
	3020	-ve	0.290	0.000	0.000	0.000	0.000	1.394
			24:COM11	-	-	-	-	16:COM3
			-2.247	-2.254	-0.153	-0.178	-0.092	-0.177
			18:COM5	18:COM5	18:COM5	18:COM5	18:COM5	26:COM13
6978	3043	+ve	0.304	1.660	0.015	0.019	0.052	0.446
			16:COM3	35:CVOL4	24:COM11	24:COM11	16:COM3	35:CVOL4
			-0.299	0.000	-0.080	-0.086	-0.010	0.000
			26:COM13	-	18:COM5	18:COM5	26:COM13	-
	3019	-ve	0.304	0.000	0.015	0.019	0.009	0.227
			16:COM3	-	24:COM11	24:COM11	24:COM11	24:COM11
			-0.299	-0.931	-0.080	-0.086	-0.048	-0.131
			26:COM13	18:COM5	18:COM5	18:COM5	18:COM5	18:COM5
6979	3042	+ve	0.800	1.678	0.073	0.089	0.017	0.453
			16:COM3	35:CVOL4	16:COM3	16:COM3	24:COM11	20:COM7
			-0.769	0.000	-0.025	-0.020	-0.048	0.000
			26:COM13	-	26:COM13	26:COM13	18:COM5	-
	3018	-ve	0.800	0.000	0.073	0.089	0.044	0.322
			16:COM3	-	16:COM3	16:COM3	16:COM3	24:COM11
			-0.769	-1.043	-0.025	-0.020	-0.014	-0.250
			26:COM13	18:COM5	26:COM13	26:COM13	26:COM13	18:COM5
6980	3041	+ve	1.358	1.904	0.150	0.180	0.000	0.538
			24:COM11	16:COM3	16:COM3	16:COM3	-	16:COM3
			-3.124	-0.915	0.000	0.000	-0.098	-0.349
			18:COM5	26:COM13	-	-	18:COM5	26:COM13
	3017	-ve	1.358	0.279	0.150	0.180	0.090	1.764
			24:COM11	24:COM11	16:COM3	16:COM3	16:COM3	16:COM3
			-3.124	-2.706	0.000	0.000	0.000	-0.676
			18:COM5	18:COM5	-	-	-	26:COM13

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
6981	3040	+ve	1.643	2.315	0.179	0.207	0.000	0.836
			24:COM1	24:COM1	20:COM7	20:COM7	-	24:COM1
			-6.779	-3.999	0.000	0.000	-0.113	-1.636
			18:COM5	18:COM5	-	-	22:COM9	18:COM5
	3016	-ve	1.643	1.065	0.179	0.207	0.111	4.720
			24:COM1	24:COM1	20:COM7	20:COM7	20:COM7	16:COM3
			-6.779	-6.166	0.000	0.000	0.000	-1.278
			18:COM5	18:COM5	-	-	-	26:COM1
6982	3051	+ve	1.004	1.968	0.000	0.000	0.099	0.668
			24:COM1	24:COM1	-	-	34:CVOL3	24:COM1
			-7.574	-4.783	-0.157	-0.194	0.000	-1.894
			18:COM5	18:COM5	34:CVOL3	35:CVOL4	-	18:COM5
	3027	-ve	1.004	0.718	0.000	0.000	0.000	5.441
			24:COM1	24:COM1	-	-	-	16:COM3
			-7.574	-6.949	-0.157	-0.194	-0.097	-1.011
			18:COM5	18:COM5	34:CVOL3	35:CVOL4	22:COM9	26:COM1
6983	3049	+ve	0.342	1.605	0.028	0.028	0.059	0.418
			16:COM3	35:CVOL4	24:COM1	24:COM1	16:COM3	16:COM3
			-0.643	0.000	-0.089	-0.095	-0.019	0.000
			26:COM1	-	18:COM5	18:COM5	26:COM1	-
	3025	-ve	0.342	0.000	0.028	0.028	0.016	0.388
			16:COM3	-	24:COM1	24:COM1	24:COM1	24:COM1
			-0.643	-1.113	-0.089	-0.095	-0.053	-0.216
			26:COM1	18:COM5	18:COM5	18:COM5	18:COM5	18:COM5
6984	3048	+ve	0.651	1.659	0.089	0.101	0.022	0.442
			16:COM3	35:CVOL4	16:COM3	16:COM3	24:COM1	20:COM7
			-0.786	0.000	-0.033	-0.031	-0.058	0.000
			26:COM1	-	26:COM1	26:COM1	18:COM5	-
	3024	-ve	0.651	0.000	0.089	0.101	0.053	0.268
			16:COM3	-	16:COM3	16:COM3	16:COM3	24:COM1
			-0.786	-0.989	-0.033	-0.031	-0.019	-0.171
			26:COM1	18:COM5	26:COM1	26:COM1	26:COM1	18:COM5
6985	3047	+ve	1.013	1.621	0.169	0.199	0.000	0.437
			24:COM1	16:COM3	16:COM3	16:COM3	-	16:COM3
			-2.999	-0.711	0.000	0.000	-0.110	-0.273
			18:COM5	26:COM1	-	-	18:COM5	26:COM1
	3023	-ve	1.013	0.014	0.169	0.199	0.102	1.604
			24:COM1	24:COM1	16:COM3	16:COM3	16:COM3	16:COM3
			-2.999	-2.520	0.000	0.000	0.000	-0.442
			18:COM5	18:COM5	-	-	-	26:COM1
6986	3046	+ve	1.010	1.720	0.174	0.212	0.000	0.597
			24:COM1	24:COM1	20:COM7	16:COM3	-	24:COM1
			-6.544	-3.671	0.000	0.000	-0.109	-1.479
			18:COM5	18:COM5	-	-	22:COM9	18:COM5
	3022	-ve	1.010	0.471	0.174	0.212	0.109	4.466
			24:COM1	24:COM1	20:COM7	16:COM3	20:COM7	16:COM3
			-6.544	-5.837	0.000	0.000	0.000	-0.774
			18:COM5	18:COM5	-	-	-	26:COM1

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
6987	3050	+ve	0.811	1.647	0.000	0.000	0.108	0.419
			24:COM1	16:COM3	-	-	16:COM3	16:COM3
			-3.418	-1.111	-0.165	-0.184	0.000	-0.378
			18:COM5	26:COM1	18:COM5	18:COM5	-	26:COM1
	3026	-ve	0.811	0.127	0.000	0.000	0.000	2.079
			24:COM1	24:COM1	-	-	-	16:COM3
			-3.418	-3.007	-0.165	-0.184	-0.098	-0.572
			18:COM5	18:COM5	18:COM5	18:COM5	18:COM5	26:COM1
6988	3054	+ve	3.548	3.045	0.233	0.115	0.168	1.043
			24:COM1	24:COM1	24:COM1	24:COM1	16:COM3	24:COM1
			-7.880	-4.206	-0.293	-0.182	-0.128	-1.643
			18:COM5	18:COM5	18:COM5	18:COM5	26:COM1	18:COM5
	3033	-ve	3.548	1.795	0.233	0.115	0.163	4.971
			24:COM1	24:COM1	24:COM1	24:COM1	24:COM1	16:COM3
			-7.880	-6.372	-0.293	-0.182	-0.199	-1.983
			18:COM5	18:COM5	18:COM5	18:COM5	18:COM5	26:COM1
6989	3053	+ve	1.780	1.996	0.253	0.129	0.149	0.151
			24:COM1	16:COM3	24:COM1	24:COM1	16:COM3	16:COM3
			-2.732	-0.999	-0.249	-0.145	-0.145	-0.116
			18:COM5	26:COM1	18:COM5	18:COM5	26:COM1	26:COM1
	3032	-ve	1.780	0.367	0.253	0.129	0.172	2.060
			24:COM1	24:COM1	24:COM1	24:COM1	24:COM1	16:COM3
			-2.732	-2.785	-0.249	-0.145	-0.162	-1.137
			18:COM5	18:COM5	18:COM5	18:COM5	18:COM5	26:COM1
6990	3052	+ve	1.111	1.451	0.079	0.039	0.025	0.404
			16:COM3	35:CVOL4	16:COM3	16:COM3	28:COM1	16:COM3
			-0.313	0.000	-0.046	-0.027	-0.043	-0.231
			26:COM1	-	26:COM1	26:COM1	22:COM9	26:COM1
	3031	-ve	1.111	0.000	0.079	0.039	0.062	0.370
			16:COM3	-	16:COM3	16:COM3	16:COM3	24:COM1
			-0.313	-1.019	-0.046	-0.027	-0.039	-0.310
			26:COM1	32:CVOL1	26:COM1	26:COM1	26:COM1	18:COM5
6995	2949	+ve	3.224	13.061	0.000	0.151	0.098	31.400
			16:COM3	20:COM7	-	28:COM1	20:COM7	20:COM7
			-0.703	-0.070	-0.041	-0.261	0.000	-15.445
			26:COM1	30:COM1	22:COM9	22:COM9	-	30:COM1
	3159	-ve	3.224	3.754	0.000	0.151	0.000	0.302
			16:COM3	28:COM1	-	28:COM1	-	28:COM1
			-0.703	-7.085	-0.041	-0.261	-0.113	-8.586
			26:COM1	22:COM9	22:COM9	22:COM9	34:CVOL3	22:COM9
6996	2950	+ve	3.379	14.653	0.003	0.138	0.027	37.937
			28:COM1	20:COM7	28:COM1	20:COM7	20:COM7	20:COM7
			-3.756	-1.995	-0.009	-0.094	-0.012	-22.327
			22:COM9	30:COM1	22:COM9	30:COM1	30:COM1	30:COM1
	3160	-ve	3.379	3.968	0.003	0.138	0.004	13.896
			28:COM1	28:COM1	28:COM1	20:COM7	28:COM1	20:COM7
			-3.756	-11.527	-0.009	-0.094	-0.031	-14.134
			22:COM9	22:COM9	22:COM9	30:COM1	22:COM9	30:COM1

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
6997	2947	+ve	2.710	7.405	0.027	0.319	0.042	11.098
			28:COM1	34:CVOL3	16:COM3	16:COM3	24:COM1	34:CVOL3
			-5.636	0.000	-0.020	-0.149	-0.058	0.000
			22:COM9	-	26:COM1	26:COM1	18:COM5	-
	3193	-ve	2.710	0.000	0.027	0.319	0.073	2.005
			28:COM1	-	16:COM3	16:COM3	16:COM3	20:COM7
			-5.636	-3.522	-0.020	-0.149	-0.055	0.000
			22:COM9	35:CVOL4	26:COM1	26:COM1	26:COM1	-
6999	3072	+ve	0.000	11.490	0.000	0.486	0.234	27.008
			-	20:COM7	-	20:COM7	20:COM7	20:COM7
			-10.142	0.000	-0.198	-0.157	0.000	-0.973
			18:COM5	-	34:CVOL3	30:COM1	-	30:COM1
	3073	-ve	0.000	9.433	0.000	0.486	0.000	6.493
			-	20:COM7	-	20:COM7	-	28:COM1
			-10.142	0.000	-0.198	-0.157	-0.180	-6.972
			18:COM5	-	34:CVOL3	30:COM1	18:COM5	22:COM9
7000	3073	+ve	0.614	8.548	0.030	0.179	0.198	6.537
			24:COM1	20:COM7	24:COM1	20:COM7	16:COM3	28:COM1
			-6.855	0.000	-0.201	-0.002	-0.009	-7.064
			18:COM5	-	18:COM5	30:COM1	26:COM1	22:COM9
	3074	-ve	0.614	6.491	0.030	0.179	0.050	0.000
			24:COM1	20:COM7	24:COM1	20:COM7	24:COM1	-
			-6.855	-0.181	-0.201	-0.002	-0.201	-11.793
			18:COM5	30:COM1	18:COM5	30:COM1	18:COM5	35:CVOL4
7001	3074	+ve	3.562	4.784	0.000	0.232	0.119	0.000
			28:COM1	20:COM7	-	20:COM7	16:COM3	-
			-6.174	-0.845	-0.090	-0.214	-0.007	-11.807
			22:COM9	30:COM1	18:COM5	30:COM1	26:COM1	35:CVOL4
	3075	-ve	3.562	2.726	0.000	0.232	0.000	0.000
			28:COM1	20:COM7	-	20:COM7	-	-
			-6.174	-2.388	-0.090	-0.214	-0.101	-16.094
			22:COM9	30:COM1	18:COM5	30:COM1	22:COM9	22:COM9
7002	3075	+ve	3.711	1.087	0.143	0.372	0.200	0.000
			28:COM1	28:COM1	28:COM1	28:COM1	20:COM7	-
			-4.664	-3.233	-0.207	-0.529	-0.125	-16.172
			22:COM9	22:COM9	22:COM9	22:COM9	30:COM1	22:COM9
	3076	-ve	3.711	0.000	0.143	0.372	0.159	2.120
			28:COM1	-	28:COM1	28:COM1	28:COM1	28:COM1
			-4.664	-5.290	-0.207	-0.529	-0.210	-15.155
			22:COM9	22:COM9	22:COM9	22:COM9	22:COM9	22:COM9
7003	3076	+ve	3.202	0.000	0.151	0.280	0.180	2.265
			28:COM1	-	28:COM1	28:COM1	20:COM7	28:COM1
			-3.636	-5.672	-0.157	-0.630	-0.159	-15.262
			22:COM9	22:COM9	22:COM9	22:COM9	30:COM1	22:COM9
	3077	-ve	3.202	0.000	0.151	0.280	0.141	12.518
			28:COM1	-	28:COM1	28:COM1	20:COM7	20:COM7
			-3.636	-7.729	-0.157	-0.630	-0.134	-6.671
			22:COM9	22:COM9	22:COM9	22:COM9	30:COM1	30:COM1

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
7004	3077	+ve	2.634	0.000	0.000	0.000	0.088	12.638
			28:COM15	-	-	-	16:COM3	20:COM7
			-4.485	-8.277	-0.077	-0.616	0.000	-6.739
			22:COM9	35:CVOL4	18:COM5	18:COM5	-	30:COM17
	2868	-ve	2.634	0.000	0.000	0.000	0.000	29.236
			28:COM15	-	-	-	-	20:COM7
			-4.485	-10.332	-0.077	-0.616	-0.073	0.000
			22:COM9	35:CVOL4	18:COM5	18:COM5	18:COM5	-
7008	2893	+ve	6.366	11.887	0.017	0.000	0.169	16.090
			20:COM7	20:COM7	28:COM15	-	16:COM3	28:COM15
			-5.971	-10.729	-0.069	-2.508	-0.056	-17.741
			30:COM17	30:COM17	22:COM9	22:COM9	26:COM13	22:COM9
	3090	-ve	6.366	7.327	0.017	0.000	0.046	44.968
			20:COM7	28:COM15	28:COM15	-	28:COM15	20:COM7
			-5.971	-17.662	-0.069	-2.508	-0.166	-26.315
			30:COM17	22:COM9	22:COM9	22:COM9	22:COM9	30:COM17
7009	2892	+ve	5.668	6.705	0.131	1.869	0.108	3.844
			24:COM11	20:COM7	16:COM3	28:COM15	24:COM11	28:COM15
			-8.656	-1.589	-0.036	-1.886	-0.290	-15.071
			18:COM5	30:COM17	26:COM13	22:COM9	18:COM5	22:COM9
	3088	-ve	5.668	1.167	0.131	1.869	0.280	3.913
			24:COM11	28:COM15	16:COM3	28:COM15	16:COM3	28:COM15
			-8.656	-7.370	-0.036	-1.886	-0.048	-12.772
			18:COM5	22:COM9	26:COM13	22:COM9	26:COM13	22:COM9
7010	3082	+ve	10.009	3.362	0.022	0.289	0.030	0.000
			20:COM7	16:COM3	28:COM15	24:COM11	20:COM7	-
			-8.241	-1.233	-0.027	-0.330	-0.028	-19.103
			30:COM17	26:COM13	22:COM9	18:COM5	30:COM17	34:CVOL3
	3083	-ve	10.009	2.452	0.022	0.289	0.018	0.000
			20:COM7	16:COM3	28:COM15	24:COM11	24:COM11	-
			-8.241	-1.916	-0.027	-0.330	-0.025	-21.108
			30:COM17	26:COM13	22:COM9	18:COM5	18:COM5	34:CVOL3
7011	3083	+ve	10.448	0.796	0.022	0.486	0.028	0.000
			20:COM7	24:COM11	28:COM15	20:COM7	20:COM7	-
			-9.263	-4.317	-0.024	-0.297	-0.027	-21.110
			30:COM17	18:COM5	22:COM9	30:COM17	30:COM17	34:CVOL3
	3084	-ve	10.448	0.113	0.022	0.486	0.018	0.000
			20:COM7	24:COM11	28:COM15	20:COM7	28:COM15	-
			-9.263	-5.227	-0.024	-0.297	-0.021	-17.474
			30:COM17	18:COM5	22:COM9	30:COM17	22:COM9	18:COM5
7012	3084	+ve	10.706	0.000	0.076	1.254	0.009	0.000
			28:COM15	-	16:COM3	20:COM7	24:COM11	-
			-10.834	-6.990	-0.010	-1.235	-0.064	-17.561
			22:COM9	18:COM5	26:COM13	30:COM17	18:COM5	18:COM5
	3085	-ve	10.706	0.000	0.076	1.254	0.087	8.846
			28:COM15	-	16:COM3	20:COM7	16:COM3	24:COM11
			-10.834	-7.967	-0.010	-1.235	-0.012	-9.796
			22:COM9	34:CVOL3	26:COM13	30:COM17	26:COM13	18:COM5

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
7013	3085	+ve	11.670	0.000	4.887	10.504	0.792	8.886
			28:COM15	-	20:COM7	28:COM15	28:COM15	24:COM17
			-16.308	-9.605	-3.249	-12.234	-1.303	-9.945
			22:COM9	18:COM5	30:COM17	22:COM9	22:COM9	18:COM5
	2893	-ve	11.670	0.000	4.887	10.504	1.550	14.448
			28:COM15	-	20:COM7	28:COM15	20:COM7	16:COM3
			-16.308	-9.875	-3.249	-12.234	-1.105	-8.424
			22:COM9	18:COM5	30:COM17	22:COM9	30:COM17	26:COM13
7014	3086	+ve	0.000	0.000	1.069	0.117	0.000	17.012
			-	-	34:CVOL3	28:COM15	-	34:CVOL3
			-11.875	-5.390	0.000	-0.364	-0.888	0.000
			22:COM9	22:COM9	-	22:COM9	34:CVOL3	-
	3087	-ve	0.000	0.000	1.069	0.117	0.857	27.025
			-	-	34:CVOL3	28:COM15	34:CVOL3	20:COM7
			-11.875	-7.084	0.000	-0.364	0.000	0.000
			22:COM9	22:COM9	-	22:COM9	-	-
7015	3087	+ve	0.000	0.000	0.000	0.025	0.067	27.143
			-	-	-	28:COM15	16:COM3	20:COM7
			-15.290	-7.920	-0.299	-0.994	-0.050	0.000
			22:COM9	22:COM9	22:COM9	22:COM9	26:COM13	-
	2869	-ve	0.000	0.000	0.000	0.025	0.000	41.413
			-	-	-	28:COM15	-	20:COM7
			-15.290	-9.610	-0.299	-0.994	-0.451	0.000
			22:COM9	22:COM9	22:COM9	22:COM9	34:CVOL3	-
7016	3086	+ve	2.630	0.000	0.147	0.130	0.000	0.087
			32:CVOL1	-	34:CVOL3	16:COM3	-	28:COM15
			0.000	-1.611	0.000	0.000	-0.238	-0.337
			-	32:CVOL1	-	-	34:CVOL3	22:COM9
	3038	-ve	2.630	0.000	0.147	0.130	0.210	13.384
			32:CVOL1	-	34:CVOL3	16:COM3	34:CVOL3	34:CVOL3
			0.000	-7.652	0.000	0.000	0.000	0.000
			-	34:CVOL3	-	-	-	-
7017	3087	+ve	0.000	0.937	0.067	0.110	0.000	0.050
			-	35:CVOL4	16:COM3	20:COM7	-	28:COM15
			-4.974	0.000	0.000	-0.035	-0.111	-0.463
			22:COM9	-	-	30:COM17	18:COM5	22:COM9
	3039	-ve	0.000	0.000	0.067	0.110	0.094	6.321
			-	-	16:COM3	20:COM7	16:COM3	34:CVOL3
			-4.974	-5.154	0.000	-0.035	0.000	0.000
			22:COM9	34:CVOL3	-	30:COM17	-	-
7018	3088	+ve	10.009	1.880	1.641	1.721	0.996	4.126
			28:COM15	28:COM15	20:COM7	16:COM3	28:COM15	28:COM15
			-14.509	-15.803	-1.360	-0.893	-1.296	-13.875
			22:COM9	22:COM9	30:COM17	26:COM13	22:COM9	22:COM9
	3089	-ve	10.009	1.168	1.641	1.721	1.408	28.828
			28:COM15	28:COM15	20:COM7	16:COM3	20:COM7	20:COM7
			-14.509	-16.752	-1.360	-0.893	-1.245	-14.285
			22:COM9	22:COM9	30:COM17	26:COM13	30:COM17	30:COM17

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
7019	3063	+ve	3.152	4.490	0.059	0.225	0.007	5.094
			28:COM15	20:COM7	16:COM3	28:COM15	24:COM11	28:COM15
			-4.329	-3.201	-0.006	-0.393	-0.077	-15.216
			22:COM9	30:COM17	26:COM13	22:COM9	18:COM5	22:COM9
	3088	-ve	3.152	0.715	0.059	0.225	0.088	1.418
			28:COM15	28:COM15	16:COM3	28:COM15	16:COM3	28:COM15
			-4.329	-8.435	-0.006	-0.393	-0.010	-2.634
			22:COM9	22:COM9	26:COM13	22:COM9	26:COM13	22:COM9
7020	3064	+ve	8.817	7.365	0.022	0.233	0.014	7.111
			28:COM15	20:COM7	16:COM3	28:COM15	24:COM11	28:COM15
			-9.928	-5.181	-0.007	-0.331	-0.052	-11.538
			22:COM9	30:COM17	26:COM13	22:COM9	18:COM5	22:COM9
	2911	-ve	8.817	1.523	0.022	0.233	0.046	27.598
			28:COM15	28:COM15	16:COM3	28:COM15	20:COM7	20:COM7
			-9.928	-13.386	-0.007	-0.331	-0.017	-11.122
			22:COM9	22:COM9	26:COM13	22:COM9	30:COM17	30:COM17
7021	3089	+ve	9.468	0.000	3.826	2.778	1.191	25.428
			28:COM15	-	20:COM7	24:COM17	28:COM15	20:COM7
			-15.168	-14.575	-3.037	-6.277	-1.459	-13.386
			22:COM9	22:COM9	30:COM17	18:COM5	22:COM9	30:COM17
	2911	-ve	9.468	0.000	3.826	2.778	1.558	37.059
			28:COM15	-	20:COM7	24:COM17	20:COM7	20:COM7
			-15.168	-15.030	-3.037	-6.277	-1.204	-11.372
			22:COM9	22:COM9	30:COM17	18:COM5	30:COM17	30:COM17
7022	3089	+ve	3.829	3.749	0.167	1.387	0.124	3.919
			28:COM15	20:COM7	20:COM7	20:COM7	28:COM15	24:COM17
			-5.115	-2.429	-0.138	-0.347	-0.146	-8.807
			22:COM9	30:COM17	30:COM17	30:COM17	22:COM9	18:COM5
	3095	-ve	3.829	3.159	0.167	1.387	0.140	2.239
			28:COM15	20:COM7	20:COM7	20:COM7	20:COM7	24:COM17
			-5.115	-2.871	-0.138	-0.347	-0.112	-8.499
			22:COM9	30:COM17	30:COM17	30:COM17	30:COM17	18:COM5
7023	3090	+ve	11.330	3.867	0.606	7.433	0.723	40.439
			20:COM7	28:COM15	28:COM15	20:COM7	20:COM7	20:COM7
			-10.174	-15.460	-1.421	-3.953	-0.410	-24.632
			30:COM17	22:COM9	22:COM9	30:COM17	30:COM17	30:COM17
	2925	-ve	11.330	3.075	0.606	7.433	0.080	53.004
			20:COM7	28:COM15	28:COM15	20:COM7	28:COM15	20:COM7
			-10.174	-16.704	-1.421	-3.953	-0.405	-27.315
			30:COM17	22:COM9	22:COM9	30:COM17	22:COM9	30:COM17
7024	2888	+ve	3.534	4.597	0.030	0.532	0.020	20.662
			16:COM3	20:COM7	16:COM3	20:COM7	24:COM11	16:COM3
			-3.689	0.000	-0.016	-0.117	-0.032	-3.806
			26:COM13	-	26:COM13	30:COM17	18:COM5	26:COM13
	3091	-ve	3.534	3.922	0.030	0.532	0.026	16.893
			16:COM3	20:COM7	16:COM3	20:COM7	16:COM3	16:COM3
			-3.689	0.000	-0.016	-0.117	-0.011	-8.953
			26:COM13	-	26:COM13	30:COM17	26:COM13	26:COM13

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
7025	3091	+ve	3.316	6.820	0.014	0.452	0.033	16.648
			24:COM1	16:COM3	24:COM1	20:COM7	16:COM3	16:COM3
			-3.852	0.000	-0.040	-0.105	-0.011	-9.087
			18:COM5	-	18:COM5	30:COM1	26:COM1	26:COM1
	3092	-ve	3.316	6.145	0.014	0.452	0.017	4.997
			24:COM1	16:COM3	24:COM1	20:COM7	24:COM1	24:COM1
			-3.852	-0.495	-0.040	-0.105	-0.045	-9.607
			18:COM5	26:COM1	18:COM5	30:COM1	18:COM5	18:COM5
7026	3092	+ve	3.431	5.222	0.030	0.253	0.039	4.941
			24:COM1	16:COM3	24:COM1	20:COM7	16:COM3	24:COM1
			-4.759	-1.705	-0.036	-0.263	-0.029	-9.688
			18:COM5	26:COM1	18:COM5	30:COM1	26:COM1	18:COM5
	3093	-ve	3.431	4.548	0.030	0.253	0.029	0.000
			24:COM1	16:COM3	24:COM1	20:COM7	24:COM1	-
			-4.759	-2.211	-0.036	-0.263	-0.032	-7.216
			18:COM5	26:COM1	18:COM5	30:COM1	18:COM5	18:COM5
7027	3093	+ve	3.921	2.293	0.071	0.250	0.036	0.000
			24:COM1	24:COM1	20:COM7	28:COM1	28:COM1	-
			-5.578	-2.654	-0.049	-0.655	-0.061	-7.157
			18:COM5	18:COM5	30:COM1	22:COM9	22:COM9	18:COM5
	3094	-ve	3.921	1.787	0.071	0.250	0.078	0.598
			24:COM1	24:COM1	20:COM7	28:COM1	20:COM7	24:COM1
			-5.578	-3.329	-0.049	-0.655	-0.060	-9.042
			18:COM5	18:COM5	30:COM1	22:COM9	30:COM1	18:COM5
7028	3094	+ve	6.434	2.824	0.208	0.652	0.185	0.644
			28:COM1	28:COM1	20:COM7	28:COM1	28:COM1	24:COM1
			-8.058	-3.039	-0.223	-1.596	-0.176	-8.615
			22:COM9	22:COM9	30:COM1	22:COM9	22:COM9	18:COM5
	3090	-ve	6.434	2.377	0.208	0.652	0.183	4.161
			28:COM1	28:COM1	20:COM7	28:COM1	28:COM1	28:COM1
			-8.058	-3.635	-0.223	-1.596	-0.200	-10.862
			22:COM9	22:COM9	30:COM1	22:COM9	22:COM9	22:COM9
7029	3091	+ve	1.476	2.568	0.085	0.026	0.246	0.435
			24:COM1	24:COM1	28:COM1	28:COM1	20:COM7	24:COM1
			-5.109	-5.417	-0.655	-0.320	-0.031	-0.911
			18:COM5	18:COM5	22:COM9	22:COM9	30:COM1	18:COM5
	2921	-ve	1.476	1.818	0.085	0.026	0.033	3.640
			24:COM1	24:COM1	28:COM1	28:COM1	28:COM1	16:COM3
			-5.109	-6.716	-0.655	-0.320	-0.245	-1.211
			18:COM5	18:COM5	22:COM9	22:COM9	22:COM9	26:COM1
7030	3092	+ve	0.805	1.859	0.225	0.095	0.171	0.330
			16:COM3	16:COM3	28:COM1	28:COM1	20:COM7	20:COM7
			-0.461	0.000	-0.450	-0.199	-0.081	0.000
			26:COM1	-	22:COM9	22:COM9	30:COM1	-
	2922	-ve	0.805	0.560	0.225	0.095	0.088	0.171
			16:COM3	16:COM3	28:COM1	28:COM1	28:COM1	24:COM1
			-0.461	-0.475	-0.450	-0.199	-0.167	-0.594
			26:COM1	26:COM1	22:COM9	22:COM9	22:COM9	18:COM5

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
7031	3093	+ve	1.038	2.383	0.526	0.241	0.093	0.535
			16:COM3	16:COM3	20:COM7	20:COM7	28:COM15	20:COM7
			-0.235	0.000	-0.264	-0.128	-0.196	-0.020
			26:COM13	-	30:COM17	30:COM17	22:COM9	30:COM17
	2923	-ve	1.038	1.083	0.526	0.241	0.199	0.083
			16:COM3	16:COM3	20:COM7	20:COM7	20:COM7	24:COM17
			-0.235	-0.433	-0.264	-0.128	-0.105	-0.823
			26:COM13	26:COM13	30:COM17	30:COM17	30:COM17	18:COM5
7032	3094	+ve	1.773	2.117	0.997	0.539	0.075	0.531
			28:COM15	24:COM11	20:COM7	20:COM7	28:COM15	16:COM3
			-5.098	-3.444	-0.263	-0.175	-0.352	-0.491
			22:COM9	18:COM5	30:COM17	30:COM17	22:COM9	26:COM13
	2924	-ve	1.773	1.367	0.997	0.539	0.396	3.051
			28:COM15	24:COM11	20:COM7	20:COM7	20:COM7	20:COM7
			-5.098	-4.743	-0.263	-0.175	-0.123	-1.247
			22:COM9	18:COM5	30:COM17	30:COM17	30:COM17	30:COM17
7033	3095	+ve	3.268	3.893	0.016	0.700	0.032	2.041
			28:COM15	16:COM3	28:COM15	20:COM7	20:COM7	24:COM17
			-5.312	-1.584	-0.031	-0.207	-0.022	-8.850
			22:COM9	26:COM13	22:COM9	30:COM17	30:COM17	18:COM5
	3096	-ve	3.268	3.218	0.016	0.700	0.010	0.000
			28:COM15	16:COM3	28:COM15	20:COM7	28:COM15	-
			-5.312	-2.090	-0.031	-0.207	-0.030	-7.793
			22:COM9	26:COM13	22:COM9	30:COM17	22:COM9	22:COM9
7034	3096	+ve	2.718	2.565	0.031	0.310	0.027	0.000
			28:COM15	24:COM11	16:COM3	20:COM7	24:COM11	-
			-4.968	-4.079	-0.028	-0.237	-0.027	-7.690
			22:COM9	18:COM5	26:COM13	30:COM17	18:COM5	22:COM9
	3097	-ve	2.718	2.059	0.031	0.310	0.033	4.090
			28:COM15	24:COM11	16:COM3	20:COM7	16:COM3	24:COM17
			-4.968	-4.754	-0.028	-0.237	-0.028	-10.352
			22:COM9	18:COM5	26:COM13	30:COM17	26:COM13	18:COM5
7035	3097	+ve	2.220	0.711	0.037	0.140	0.019	4.137
			28:COM15	24:COM11	16:COM3	28:COM15	24:COM11	24:COM17
			-3.950	-5.742	-0.016	-0.429	-0.042	-10.307
			22:COM9	18:COM5	26:COM13	22:COM9	18:COM5	18:COM5
	3098	-ve	2.220	0.205	0.037	0.140	0.030	14.592
			28:COM15	24:COM11	16:COM3	28:COM15	16:COM3	16:COM3
			-3.950	-6.417	-0.016	-0.429	-0.012	-9.800
			22:COM9	18:COM5	26:COM13	22:COM9	26:COM13	26:COM13
7036	3098	+ve	1.971	0.000	0.020	0.061	0.022	14.832
			28:COM15	-	28:COM15	28:COM15	20:COM7	16:COM3
			-3.202	-4.372	-0.026	-0.487	-0.014	-9.700
			22:COM9	22:COM9	22:COM9	22:COM9	30:COM17	26:COM13
	2886	-ve	1.971	0.000	0.020	0.061	0.024	19.286
			28:COM15	-	28:COM15	28:COM15	28:COM15	16:COM3
			-3.202	-5.047	-0.026	-0.487	-0.029	-4.084
			22:COM9	22:COM9	22:COM9	22:COM9	22:COM9	26:COM13

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
7037	3095	+ve	2.218	2.823	0.154	0.125	0.350	0.509
			28:COM15	28:COM15	28:COM15	28:COM15	20:COM7	24:COM11
			-6.190	-4.845	-0.967	-0.551	-0.048	-0.558
			22:COM9	22:COM9	22:COM9	22:COM9	30:COM17	18:COM5
	2912	-ve	2.218	2.074	0.154	0.125	0.067	3.678
			28:COM15	28:COM15	28:COM15	28:COM15	28:COM15	20:COM7
			-6.190	-6.144	-0.967	-0.551	-0.376	-1.443
			22:COM9	22:COM9	22:COM9	22:COM9	22:COM9	30:COM17
7038	3096	+ve	0.976	2.314	0.263	0.119	0.224	0.482
			16:COM3	16:COM3	28:COM15	28:COM15	20:COM7	16:COM3
			-0.147	0.000	-0.592	-0.274	-0.097	0.000
			26:COM13	-	22:COM9	22:COM9	30:COM17	-
	2913	-ve	0.976	1.015	0.263	0.119	0.100	0.138
			16:COM3	16:COM3	28:COM15	28:COM15	28:COM15	24:COM11
			-0.147	-0.421	-0.592	-0.274	-0.220	-0.806
			26:COM13	26:COM13	22:COM9	22:COM9	22:COM9	18:COM5
7039	3097	+ve	1.050	2.009	0.444	0.186	0.110	0.393
			16:COM3	16:COM3	20:COM7	20:COM7	28:COM15	20:COM7
			-0.395	0.000	-0.289	-0.116	-0.172	0.000
			26:COM13	-	30:COM17	30:COM17	22:COM9	-
	2914	-ve	1.050	0.710	0.444	0.186	0.162	0.139
			16:COM3	16:COM3	20:COM7	20:COM7	20:COM7	24:COM11
			-0.395	-0.422	-0.289	-0.116	-0.108	-0.663
			26:COM13	26:COM13	30:COM17	30:COM17	30:COM17	18:COM5
7040	3098	+ve	2.082	3.178	0.631	0.307	0.045	0.560
			24:COM11	24:COM11	20:COM7	20:COM7	28:COM15	24:COM11
			-4.636	-4.816	-0.120	-0.044	-0.238	-0.806
			18:COM5	18:COM5	30:COM17	30:COM17	22:COM9	18:COM5
	2915	-ve	2.082	2.428	0.631	0.307	0.235	3.294
			24:COM11	24:COM11	20:COM7	20:COM7	20:COM7	16:COM3
			-4.636	-6.115	-0.120	-0.044	-0.045	-1.543
			18:COM5	18:COM5	30:COM17	30:COM17	30:COM17	26:COM13
7041	3099	+ve	2.220	11.482	0.140	0.184	0.155	9.417
			28:COM15	16:COM3	28:COM15	24:COM11	20:COM7	20:COM7
			-4.822	-11.314	-0.162	-0.607	-0.132	0.000
			22:COM9	26:COM13	22:COM9	18:COM5	30:COM17	-
	5502	-ve	2.220	10.003	0.140	0.184	0.151	33.048
			28:COM15	24:COM11	28:COM15	24:COM11	28:COM15	16:COM3
			-4.822	-12.903	-0.162	-0.607	-0.173	-16.767
			22:COM9	18:COM5	22:COM9	18:COM5	22:COM9	26:COM13
7043	3099	+ve	0.851	1.943	0.163	0.160	0.151	0.783
			28:COM15	16:COM3	24:COM11	24:COM11	16:COM3	20:COM7
			-2.130	0.000	-0.247	-0.247	-0.098	0.000
			22:COM9	-	18:COM5	18:COM5	26:COM13	-
	3056	-ve	0.851	0.224	0.163	0.160	0.105	0.615
			28:COM15	24:COM11	24:COM11	24:COM11	24:COM11	16:COM3
			-2.130	-1.363	-0.247	-0.247	-0.158	-0.467
			22:COM9	18:COM5	18:COM5	18:COM5	18:COM5	26:COM13

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
7044	5502	+ve	5.119	10.657	0.538	25.940	0.189	0.890
			20:COM7	24:COM11	20:COM7	16:COM3	28:COM15	24:COM11
			-4.105	-20.156	-0.121	-6.699	-0.452	-1.099
			30:COM17	18:COM5	30:COM17	26:COM13	22:COM9	18:COM5
	5469	-ve	5.119	8.539	0.538	25.940	0.349	26.052
			20:COM7	24:COM11	20:COM7	16:COM3	16:COM3	16:COM3
			-4.105	-23.477	-0.121	-6.699	-0.093	-11.055
			30:COM17	18:COM5	30:COM17	26:COM13	26:COM13	26:COM13
7047	3102	+ve	49.855	0.000	0.000	9.784	5.531	33.506
			32:CVOL1	-	-	20:COM7	34:CVOL3	32:CVOL1
			0.000	-31.966	-5.092	-2.965	0.000	0.000
			-	34:CVOL3	34:CVOL3	30:COM17	-	-
	3103	-ve	49.855	0.000	0.000	9.784	0.000	99.666
			32:CVOL1	-	-	20:COM7	-	32:CVOL1
			0.000	-36.207	-5.092	-2.965	-4.745	0.000
			-	32:CVOL1	34:CVOL3	30:COM17	22:COM9	-
7048	3103	+ve	107.843	0.000	0.000	2.462	8.895	84.917
			34:CVOL3	-	-	16:COM3	34:CVOL3	32:CVOL1
			0.000	-55.680	-8.875	-0.782	0.000	0.000
			-	34:CVOL3	34:CVOL3	26:COM13	-	-
	2949	-ve	107.843	0.000	0.000	2.462	0.000	195.753
			34:CVOL3	-	-	16:COM3	-	34:CVOL3
			0.000	-59.740	-8.875	-0.782	-8.461	0.000
			-	34:CVOL3	34:CVOL3	26:COM13	34:CVOL3	-
7049	3104	+ve	36.116	31.029	7.049	1.110	0.000	63.779
			32:CVOL1	34:CVOL3	34:CVOL3	28:COM15	-	32:CVOL1
			0.000	0.000	0.000	-5.063	-7.574	0.000
			-	-	-	22:COM9	34:CVOL3	-
	3105	-ve	36.116	27.647	7.049	1.110	6.206	7.088
			32:CVOL1	34:CVOL3	34:CVOL3	28:COM15	34:CVOL3	32:CVOL1
			0.000	0.000	0.000	-5.063	0.000	0.000
			-	-	-	22:COM9	-	-
7050	3104	+ve	0.367	7.059	0.009	0.059	0.000	7.495
			24:COM11	20:COM7	16:COM3	28:COM15	-	20:COM7
			-2.491	0.000	0.000	-0.078	-0.035	0.000
			18:COM5	-	-	22:COM9	18:COM5	-
	3103	-ve	0.367	0.000	0.009	0.059	0.020	17.770
			24:COM11	-	16:COM3	28:COM15	16:COM3	20:COM7
			-2.491	-7.733	0.000	-0.078	-0.002	-4.032
			18:COM5	22:COM9	-	22:COM9	26:COM13	30:COM17
7051	3105	+ve	10.515	18.908	10.642	2.133	0.000	12.265
			32:CVOL1	32:CVOL1	32:CVOL1	20:COM7	-	32:CVOL1
			0.000	0.000	0.000	-1.519	-4.981	0.000
			-	-	-	30:COM17	32:CVOL1	-
	2875	-ve	10.515	17.324	10.642	2.133	3.370	0.000
			32:CVOL1	32:CVOL1	32:CVOL1	20:COM7	32:CVOL1	-
			0.000	0.000	0.000	-1.519	0.000	-1.967
			-	-	-	30:COM17	-	34:CVOL3

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
7052	3105	+ve	3.217	6.044	0.003	0.045	0.000	6.330
			28:COM1	35:CVOL4	20:COM7	20:COM7	-	35:CVOL4
			-7.511	0.000	-0.001	-0.033	-0.013	0.000
			22:COM9	-	30:COM1	30:COM1	22:COM9	-
	3102	-ve	3.217	0.000	0.003	0.045	0.007	7.453
			28:COM1	-	20:COM7	20:COM7	20:COM7	20:COM7
			-7.511	-6.224	-0.001	-0.033	-0.005	0.000
			22:COM9	34:CVOL3	30:COM1	30:COM1	30:COM1	-
7053	3106	+ve	0.786	21.041	0.367	3.024	0.491	55.690
			28:COM1	34:CVOL3	28:COM1	16:COM3	20:COM7	34:CVOL3
			-1.817	0.000	-0.369	-0.650	-0.457	0.000
			22:COM9	-	22:COM9	26:COM1	30:COM1	-
	3107	-ve	0.786	18.766	0.367	3.024	0.276	17.461
			28:COM1	34:CVOL3	28:COM1	16:COM3	28:COM1	32:CVOL1
			-1.817	0.000	-0.369	-0.650	-0.247	0.000
			22:COM9	-	22:COM9	26:COM1	22:COM9	-
7054	3107	+ve	0.590	10.805	0.124	0.665	0.174	17.758
			24:COM1	32:CVOL1	28:COM1	32:CVOL1	16:COM3	32:CVOL1
			-0.823	0.000	-0.215	-0.706	-0.129	0.000
			18:COM5	-	22:COM9	35:CVOL4	26:COM1	-
	2879	-ve	0.590	8.150	0.124	0.665	0.120	0.000
			24:COM1	32:CVOL1	28:COM1	32:CVOL1	28:COM1	-
			-0.823	0.000	-0.215	-0.706	-0.256	-0.943
			18:COM5	-	22:COM9	35:CVOL4	22:COM9	32:CVOL1
7055	3108	+ve	4.706	27.761	0.608	0.000	0.430	47.096
			16:COM3	34:CVOL3	20:COM7	-	28:COM1	34:CVOL3
			-1.685	0.000	-0.533	-9.193	-0.322	0.000
			26:COM1	-	30:COM1	34:CVOL3	22:COM9	-
	2882	-ve	4.706	25.377	0.608	0.000	0.740	1.470
			16:COM3	34:CVOL3	20:COM7	-	20:COM7	16:COM3
			-1.685	0.000	-0.533	-9.193	-0.501	0.000
			26:COM1	-	30:COM1	34:CVOL3	30:COM1	-
7056	3106	+ve	0.000	6.055	0.001	0.145	0.009	4.721
			-	35:CVOL4	24:COM1	16:COM3	16:COM3	35:CVOL4
			-3.552	0.000	-0.003	0.000	-0.002	0.000
			18:COM5	-	18:COM5	-	26:COM1	-
	3108	-ve	0.000	0.000	0.001	0.145	0.006	7.144
			-	-	24:COM1	16:COM3	24:COM1	34:CVOL3
			-3.552	-6.849	-0.003	0.000	-0.010	0.000
			18:COM5	34:CVOL3	18:COM5	-	18:COM5	-
7057	3107	+ve	3.405	5.773	0.004	0.130	0.000	4.845
			16:COM3	35:CVOL4	20:COM7	16:COM3	-	35:CVOL4
			-0.085	0.000	0.000	0.000	-0.013	0.000
			26:COM1	-	-	-	18:COM5	-
	2882	-ve	3.405	0.000	0.004	0.130	0.014	6.644
			16:COM3	-	20:COM7	16:COM3	20:COM7	34:CVOL3
			-0.085	-6.382	0.000	0.000	0.000	0.000
			26:COM1	34:CVOL3	-	-	-	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
7058	3109	+ve	0.000	0.000	0.440	0.000	0.000	0.323
			-	-	34:CVOL3	-	-	32:CVOL1
			-3.528	-2.290	0.000	-0.498	-0.369	0.000
			34:CVOL3	34:CVOL3	-	22:COM9	34:CVOL3	-
	3110	-ve	0.000	0.000	0.440	0.000	0.490	6.738
			-	-	34:CVOL3	-	34:CVOL3	34:CVOL3
			-3.528	-4.456	0.000	-0.498	0.000	0.000
			34:CVOL3	32:CVOL1	-	22:COM9	-	-
7059	3110	+ve	0.000	0.000	0.709	0.000	0.000	6.821
			-	-	34:CVOL3	-	-	34:CVOL3
			-8.879	-4.353	0.000	-0.379	-0.644	0.000
			22:COM9	22:COM9	-	18:COM5	34:CVOL3	-
	3086	-ve	0.000	0.000	0.709	0.000	0.721	16.928
			-	-	34:CVOL3	-	34:CVOL3	34:CVOL3
			-8.879	-6.351	0.000	-0.379	0.000	0.000
			22:COM9	22:COM9	-	18:COM5	-	-
7060	3109	+ve	0.000	2.087	0.061	0.087	0.000	0.439
			-	35:CVOL4	34:CVOL3	20:COM7	-	35:CVOL4
			-3.337	0.000	0.000	0.000	-0.093	-0.001
			22:COM9	-	-	-	34:CVOL3	30:COM1
	3105	-ve	0.000	0.000	0.061	0.087	0.091	3.579
			-	-	34:CVOL3	20:COM7	34:CVOL3	34:CVOL3
			-3.337	-4.084	0.000	0.000	0.000	0.000
			22:COM9	34:CVOL3	-	-	-	-
7061	3110	+ve	0.783	0.188	0.129	0.119	0.000	0.029
			32:CVOL1	20:COM7	34:CVOL3	16:COM3	-	28:COM1
			0.000	-0.527	0.000	0.000	-0.206	-0.182
			-	30:COM1	-	-	34:CVOL3	22:COM9
	3104	-ve	0.783	0.000	0.129	0.119	0.185	9.804
			32:CVOL1	-	34:CVOL3	16:COM3	34:CVOL3	34:CVOL3
			0.000	-6.455	0.000	0.000	0.000	0.000
			-	34:CVOL3	-	-	-	-
7062	3111	+ve	0.702	6.658	0.000	0.374	0.027	19.327
			28:COM1	16:COM3	-	16:COM3	20:COM7	16:COM3
			-0.969	0.000	-0.032	0.000	-0.002	0.000
			22:COM9	-	18:COM5	-	30:COM1	-
	3112	-ve	0.702	4.913	0.000	0.374	0.000	8.675
			28:COM1	16:COM3	-	16:COM3	-	34:CVOL3
			-0.969	0.000	-0.032	0.000	-0.048	0.000
			22:COM9	-	18:COM5	-	18:COM5	-
7063	3112	+ve	0.283	4.729	0.000	0.207	0.088	8.581
			24:COM1	32:CVOL1	-	32:CVOL1	16:COM3	34:CVOL3
			-0.346	0.000	-0.079	0.000	0.000	0.000
			18:COM5	-	18:COM5	-	-	-
	2878	-ve	0.283	2.556	0.000	0.207	0.000	0.065
			24:COM1	34:CVOL3	-	32:CVOL1	-	24:COM1
			-0.346	0.000	-0.079	0.000	-0.101	-0.063
			18:COM5	-	18:COM5	-	18:COM5	18:COM5

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
7064	3111	+ve	0.000	0.075	0.053	0.055	0.067	0.034
			-	24:COM11	24:COM11	24:COM11	16:COM3	24:COM11
			-6.937	-4.822	-0.108	-0.123	-0.035	-2.002
			18:COM5	18:COM5	18:COM5	18:COM5	26:COM13	18:COM5
	3106	-ve	0.000	0.000	0.053	0.055	0.030	5.323
			-	-	24:COM11	24:COM11	24:COM11	16:COM3
			-6.937	-6.973	-0.108	-0.123	-0.067	0.000
			18:COM5	18:COM5	18:COM5	18:COM5	18:COM5	-
7065	3112	+ve	0.000	0.730	0.000	0.000	0.059	0.214
			-	24:COM11	-	-	34:CVOL3	24:COM11
			-4.332	-1.712	-0.090	-0.086	0.000	-0.624
			18:COM5	18:COM5	34:CVOL3	34:CVOL3	-	18:COM5
	3107	-ve	0.000	0.000	0.000	0.000	0.000	2.828
			-	-	-	-	-	16:COM3
			-4.332	-3.858	-0.090	-0.086	-0.052	0.000
			18:COM5	18:COM5	34:CVOL3	34:CVOL3	34:CVOL3	-
7067	3108	+ve	1.539	8.198	0.005	0.393	0.010	11.575
			28:COM15	34:CVOL3	20:COM7	16:COM3	24:COM11	34:CVOL3
			-3.863	0.000	-0.004	-0.005	-0.013	0.000
			22:COM9	-	30:COM17	26:COM13	18:COM5	-
	3187	-ve	1.539	0.000	0.005	0.393	0.010	0.465
			28:COM15	-	20:COM7	16:COM3	20:COM7	24:COM11
			-3.863	-2.831	-0.004	-0.005	-0.007	-3.057
			22:COM9	35:CVOL4	30:COM17	26:COM13	30:COM17	18:COM5
7074	3116	+ve	2.410	6.362	0.013	0.383	0.029	15.157
			28:COM15	16:COM3	24:COM11	16:COM3	16:COM3	16:COM3
			-3.054	-0.041	-0.036	0.000	-0.011	-8.295
			22:COM9	26:COM13	18:COM5	-	26:COM13	26:COM13
	3117	-ve	2.410	5.687	0.013	0.383	0.015	4.324
			28:COM15	16:COM3	24:COM11	16:COM3	24:COM11	24:COM11
			-3.054	-0.547	-0.036	0.000	-0.041	-8.637
			22:COM9	26:COM13	18:COM5	-	18:COM5	18:COM5
7075	3117	+ve	2.883	4.972	0.022	0.148	0.039	4.179
			28:COM15	16:COM3	24:COM11	16:COM3	16:COM3	24:COM11
			-3.704	-1.824	-0.038	-0.004	-0.021	-8.726
			22:COM9	26:COM13	18:COM5	26:COM13	26:COM13	18:COM5
	3118	-ve	2.883	4.297	0.022	0.148	0.021	0.000
			28:COM15	16:COM3	24:COM11	16:COM3	24:COM11	-
			-3.704	-2.330	-0.038	-0.004	-0.036	-6.405
			22:COM9	26:COM13	18:COM5	26:COM13	18:COM5	35:CVOL4
7076	3118	+ve	3.397	2.780	0.034	0.003	0.024	0.000
			28:COM15	24:COM11	16:COM3	24:COM11	24:COM11	-
			-4.053	-3.577	-0.024	-0.149	-0.032	-6.405
			22:COM9	18:COM5	26:COM13	18:COM5	18:COM5	35:CVOL4
	3119	-ve	3.397	2.274	0.034	0.003	0.034	3.360
			28:COM15	24:COM11	16:COM3	24:COM11	16:COM3	24:COM11
			-4.053	-4.251	-0.024	-0.149	-0.023	-10.190
			22:COM9	18:COM5	26:COM13	18:COM5	26:COM13	18:COM5

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
7077	3119	+ve	3.982	0.974	0.032	0.000	0.016	3.507
			28:COM15	24:COM11	16:COM3	-	24:COM11	24:COM11
			-4.023	-5.043	-0.013	-0.380	-0.037	-10.110
			22:COM9	18:COM5	26:COM13	22:COM9	18:COM5	18:COM5
	3120	-ve	3.982	0.468	0.032	0.000	0.027	12.521
			28:COM15	24:COM11	16:COM3	-	16:COM3	16:COM3
			-4.023	-5.718	-0.013	-0.380	-0.010	-10.039
			22:COM9	18:COM5	26:COM13	22:COM9	26:COM13	26:COM13
7078	3120	+ve	4.890	0.000	0.016	0.000	0.023	12.867
			20:COM7	-	24:COM11	-	16:COM3	16:COM3
			-4.615	-3.242	-0.025	-0.483	-0.011	-9.937
			30:COM17	18:COM5	18:COM5	18:COM5	26:COM13	26:COM13
	2887	-ve	4.890	0.000	0.016	0.000	0.021	15.178
			20:COM7	-	24:COM11	-	28:COM15	16:COM3
			-4.615	-3.917	-0.025	-0.483	-0.028	-4.480
			30:COM17	18:COM5	18:COM5	18:COM5	22:COM9	26:COM13
7079	3116	+ve	1.809	2.835	0.000	0.000	0.207	0.503
			24:COM11	24:COM11	-	-	16:COM3	24:COM11
			-5.239	-5.436	-0.556	-0.277	0.000	-0.946
			18:COM5	18:COM5	22:COM9	18:COM5	-	18:COM5
	2906	-ve	1.809	2.086	0.000	0.000	0.000	3.620
			24:COM11	24:COM11	-	-	-	16:COM3
			-5.239	-6.736	-0.556	-0.277	-0.210	-1.343
			18:COM5	18:COM5	22:COM9	18:COM5	22:COM9	26:COM13
7080	3117	+ve	0.998	1.818	0.000	0.000	0.152	0.325
			16:COM3	16:COM3	-	-	16:COM3	16:COM3
			-0.575	0.000	-0.374	-0.158	0.000	0.000
			26:COM13	-	18:COM5	18:COM5	-	-
	2907	-ve	0.998	0.531	0.000	0.000	0.000	0.210
			16:COM3	24:COM11	-	-	-	24:COM11
			-0.575	-0.587	-0.374	-0.158	-0.129	-0.558
			26:COM13	18:COM5	18:COM5	18:COM5	18:COM5	18:COM5
7081	3118	+ve	0.921	2.004	0.088	0.028	0.044	0.353
			35:CVOL4	35:CVOL4	24:COM11	16:COM3	16:COM3	20:COM7
			0.000	0.000	-0.098	-0.027	-0.039	0.000
			-	-	18:COM5	26:COM13	26:COM13	-
	2908	-ve	0.921	0.570	0.088	0.028	0.027	0.000
			35:CVOL4	20:COM7	24:COM11	16:COM3	24:COM11	-
			0.000	0.000	-0.098	-0.027	-0.030	-0.601
			-	-	18:COM5	26:COM13	18:COM5	35:CVOL4
7082	3119	+ve	1.037	1.865	0.364	0.156	0.006	0.327
			16:COM3	16:COM3	16:COM3	16:COM3	24:COM11	16:COM3
			-0.481	0.000	-0.002	0.000	-0.146	0.000
			26:COM13	-	26:COM13	-	18:COM5	-
	2909	-ve	1.037	0.565	0.364	0.156	0.127	0.183
			16:COM3	16:COM3	16:COM3	16:COM3	20:COM7	24:COM11
			-0.481	-0.522	-0.002	0.000	0.000	-0.595
			26:COM13	26:COM13	26:COM13	-	-	18:COM5

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
7083	3120	+ve	1.988	3.041	0.578	0.283	0.000	0.535
			24:COM1	24:COM11	20:COM7	20:COM7	-	24:COM1
			-4.796	-4.897	0.000	0.000	-0.216	-0.851
			18:COM5	18:COM5	-	-	22:COM9	18:COM5
	2910	-ve	1.988	2.291	0.578	0.283	0.217	3.310
			24:COM1	24:COM11	20:COM7	20:COM7	20:COM7	16:COM3
			-4.796	-6.196	0.000	0.000	0.000	-1.466
			18:COM5	18:COM5	-	-	-	26:COM1
7084	2897	+ve	0.199	6.703	0.005	0.081	0.014	8.425
			24:COM1	34:CVOL3	28:COM1	24:COM1	20:COM7	34:CVOL3
			-0.331	0.000	-0.008	-0.158	-0.009	0.000
			18:COM5	-	22:COM9	18:COM5	30:COM1	-
	3121	-ve	0.199	0.000	0.005	0.081	0.011	0.358
			24:COM1	-	28:COM1	24:COM1	28:COM1	35:CVOL4
			-0.331	-3.536	-0.008	-0.158	-0.017	0.000
			18:COM5	35:CVOL4	22:COM9	18:COM5	22:COM9	-
7085	2898	+ve	0.074	7.151	0.004	0.006	0.011	10.542
			24:COM1	34:CVOL3	28:COM1	24:COM1	20:COM7	20:COM7
			-0.714	0.000	-0.006	-0.191	-0.008	0.000
			18:COM5	-	22:COM9	35:CVOL4	30:COM1	-
	3122	-ve	0.074	0.000	0.004	0.006	0.009	0.508
			24:COM1	-	28:COM1	24:COM1	28:COM1	16:COM3
			-0.714	-2.951	-0.006	-0.191	-0.016	-0.046
			18:COM5	18:COM5	22:COM9	35:CVOL4	22:COM9	26:COM1
7086	2899	+ve	0.000	7.718	0.006	0.000	0.004	14.974
			-	34:CVOL3	20:COM7	-	28:COM1	16:COM3
			-2.733	0.000	-0.003	-0.212	-0.013	0.000
			22:COM9	-	30:COM1	35:CVOL4	22:COM9	-
	3123	-ve	0.000	0.000	0.006	0.000	0.011	2.036
			-	-	20:COM7	-	20:COM7	16:COM3
			-2.733	-2.521	-0.003	-0.212	-0.007	0.000
			22:COM9	18:COM5	30:COM1	35:CVOL4	30:COM1	-
7087	3124	+ve	5.044	1.783	0.270	0.204	0.286	29.171
			24:COM1	24:COM11	24:COM11	28:COM1	16:COM3	16:COM3
			-9.125	-5.650	-0.357	-2.303	-0.203	-5.691
			18:COM5	18:COM5	18:COM5	22:COM9	26:COM1	26:COM1
	2889	-ve	5.044	1.208	0.270	0.204	0.246	28.286
			24:COM1	24:COM11	24:COM11	28:COM1	24:COM11	16:COM3
			-9.125	-6.416	-0.357	-2.303	-0.307	0.000
			18:COM5	18:COM5	18:COM5	22:COM9	18:COM5	-
7088	2809	+ve	4.610	27.289	0.066	1.706	0.092	58.440
			16:COM3	20:COM7	24:COM11	20:COM7	16:COM3	20:COM7
			-0.356	-8.949	-0.078	-0.462	-0.082	-28.000
			26:COM1	30:COM1	18:COM5	30:COM1	26:COM1	30:COM1
	3124	-ve	4.610	22.577	0.066	1.706	0.072	1.391
			16:COM3	20:COM7	24:COM11	20:COM7	24:COM11	28:COM1
			-0.356	-11.787	-0.078	-0.462	-0.090	-4.765
			26:COM1	30:COM1	18:COM5	30:COM1	18:COM5	22:COM9

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
7089	3059	+ve	8.775	9.711	0.009	0.174	0.040	15.888
			20:COM7	34:CVOL3	28:COM15	24:COM11	20:COM7	20:COM7
			-3.564	0.000	-0.048	-0.427	-0.007	-6.440
			30:COM17	-	22:COM9	18:COM5	30:COM17	30:COM17
	3058	-ve	8.775	8.542	0.009	0.174	0.011	0.796
			20:COM7	20:COM7	28:COM15	24:COM11	28:COM15	28:COM15
			-3.564	0.000	-0.048	-0.427	-0.054	-14.141
			30:COM17	-	22:COM9	18:COM5	22:COM9	22:COM9
7090	3058	+ve	7.619	5.976	0.033	0.096	0.037	0.739
			20:COM7	20:COM7	28:COM15	24:COM11	20:COM7	28:COM15
			-2.858	0.000	-0.040	-0.300	-0.036	-14.143
			30:COM17	-	22:COM9	18:COM5	30:COM17	22:COM9
	3057	-ve	7.619	5.082	0.033	0.096	0.028	0.000
			20:COM7	20:COM7	28:COM15	24:COM11	28:COM15	-
			-2.858	0.000	-0.040	-0.300	-0.040	-19.168
			30:COM17	-	22:COM9	18:COM5	22:COM9	34:CVOL3
7091	3057	+ve	6.850	2.095	0.027	0.324	0.040	0.000
			20:COM7	16:COM3	28:COM15	16:COM3	20:COM7	-
			-2.802	-1.325	-0.039	-0.273	-0.032	-19.157
			30:COM17	26:COM13	22:COM9	26:COM13	30:COM17	34:CVOL3
	3121	-ve	6.850	1.227	0.027	0.324	0.023	0.000
			20:COM7	24:COM11	28:COM15	16:COM3	28:COM15	-
			-2.802	-2.082	-0.039	-0.273	-0.039	-19.031
			30:COM17	18:COM5	22:COM9	26:COM13	22:COM9	34:CVOL3
7092	3121	+ve	6.735	0.000	0.023	0.533	0.039	0.000
			20:COM7	-	28:COM15	16:COM3	20:COM7	-
			-3.091	-4.675	-0.039	-0.115	-0.028	-18.988
			30:COM17	18:COM5	22:COM9	26:COM13	30:COM17	34:CVOL3
	3122	-ve	6.735	0.000	0.023	0.533	0.018	0.420
			20:COM7	-	28:COM15	16:COM3	28:COM15	24:COM11
			-3.091	-5.637	-0.039	-0.115	-0.037	-13.247
			30:COM17	32:CVOL1	22:COM9	26:COM13	22:COM9	18:COM5
7093	3122	+ve	6.693	0.000	0.059	0.792	0.004	0.542
			20:COM7	-	16:COM3	35:CVOL4	24:COM11	24:COM11
			-3.693	-7.889	-0.002	0.000	-0.055	-13.193
			30:COM17	34:CVOL3	26:COM13	-	18:COM5	18:COM5
	3123	-ve	6.693	0.000	0.059	0.792	0.062	12.935
			20:COM7	-	16:COM3	35:CVOL4	16:COM3	16:COM3
			-3.693	-9.739	-0.002	0.000	-0.001	-2.843
			30:COM17	34:CVOL3	26:COM13	-	26:COM13	26:COM13
7094	3123	+ve	4.677	0.000	0.155	2.572	0.013	13.015
			28:COM15	-	16:COM3	16:COM3	24:COM11	16:COM3
			-6.495	-11.444	-0.030	0.000	-0.132	-2.718
			22:COM9	34:CVOL3	26:COM13	-	18:COM5	26:COM13
	2885	-ve	4.677	0.000	0.155	2.572	0.175	32.499
			28:COM15	-	16:COM3	16:COM3	16:COM3	32:CVOL1
			-6.495	-13.370	-0.030	0.000	-0.046	0.000
			22:COM9	32:CVOL1	26:COM13	-	26:COM13	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
7095	3053	+ve	10.574	5.409	0.072	0.343	0.118	2.171
			20:COM7	16:COM3	24:COM11	16:COM3	16:COM3	24:COM11
			-6.902	0.000	-0.092	-0.338	-0.086	-9.868
			30:COM17	-	18:COM5	26:COM13	26:COM13	18:COM5
	3052	-ve	10.574	3.696	0.072	0.343	0.066	0.000
			20:COM7	16:COM3	24:COM11	16:COM3	28:COM15	-
			-6.902	-0.226	-0.092	-0.338	-0.073	-12.808
			30:COM17	26:COM13	18:COM5	26:COM13	22:COM9	18:COM5
7096	3052	+ve	8.398	2.509	0.069	0.039	0.034	0.000
			20:COM7	16:COM3	20:COM7	28:COM15	28:COM15	-
			-5.096	-0.838	-0.043	-0.088	-0.045	-12.773
			30:COM17	26:COM13	30:COM17	22:COM9	22:COM9	18:COM5
	3079	-ve	8.398	0.981	0.069	0.039	0.093	0.000
			20:COM7	24:COM11	20:COM7	28:COM15	20:COM7	-
			-5.096	-2.309	-0.043	-0.088	-0.053	-12.002
			30:COM17	18:COM5	30:COM17	22:COM9	30:COM17	22:COM9
7097	3079	+ve	4.735	0.000	0.091	0.204	0.026	0.000
			20:COM7	-	20:COM7	24:COM11	28:COM15	-
			-2.085	-2.936	-0.022	-0.277	-0.080	-11.960
			30:COM17	18:COM5	30:COM17	18:COM5	22:COM9	22:COM9
	3080	-ve	4.735	0.000	0.091	0.204	0.102	0.000
			20:COM7	-	20:COM7	24:COM11	20:COM7	-
			-2.085	-4.650	-0.022	-0.277	-0.021	-8.317
			30:COM17	18:COM5	30:COM17	18:COM5	30:COM17	22:COM9
7098	3080	+ve	4.710	0.000	0.070	0.334	0.024	0.000
			20:COM7	-	16:COM3	24:COM11	28:COM15	-
			-3.800	-4.800	-0.030	-0.501	-0.072	-8.234
			30:COM17	22:COM9	26:COM13	18:COM5	22:COM9	22:COM9
	3081	-ve	4.710	0.000	0.070	0.334	0.080	8.565
			20:COM7	-	16:COM3	24:COM11	16:COM3	20:COM7
			-3.800	-6.513	-0.030	-0.501	-0.050	-1.056
			30:COM17	22:COM9	26:COM13	18:COM5	26:COM13	30:COM17
7099	3081	+ve	8.378	0.000	0.000	0.797	0.101	8.545
			28:COM15	-	-	24:COM11	16:COM3	20:COM7
			-10.817	-7.142	-0.115	-0.810	0.000	-0.987
			22:COM9	18:COM5	22:COM9	18:COM5	-	30:COM17
	2873	-ve	8.378	0.000	0.000	0.797	0.032	21.376
			28:COM15	-	-	24:COM11	28:COM15	20:COM7
			-10.817	-8.857	-0.115	-0.810	-0.161	0.000
			22:COM9	18:COM5	22:COM9	18:COM5	22:COM9	-
7103	3135	+ve	0.344	2.060	0.038	0.340	0.070	0.330
			20:COM7	20:COM7	24:COM11	24:COM11	16:COM3	16:COM3
			-0.172	-0.587	-0.081	-0.394	-0.041	-0.284
			30:COM17	30:COM17	18:COM5	18:COM5	26:COM13	26:COM13
	3142	-ve	0.344	0.364	0.038	0.340	0.009	1.405
			20:COM7	28:COM15	24:COM11	24:COM11	24:COM11	28:COM15
			-0.172	-2.041	-0.081	-0.394	-0.037	-1.225
			30:COM17	22:COM9	18:COM5	18:COM5	18:COM5	22:COM9

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
7104	3135	+ve	0.771	0.587	0.040	0.396	0.047	0.220
			16:COM3	28:COM15	24:COM11	24:COM11	16:COM3	24:COM11
			0.000	-2.060	-0.034	-0.421	-0.054	-0.286
			-	22:COM9	18:COM5	18:COM5	26:COM13	18:COM5
	3149	-ve	0.771	0.000	0.040	0.396	0.037	7.091
			16:COM3	-	24:COM11	24:COM11	24:COM11	20:COM7
			0.000	-4.034	-0.034	-0.421	-0.030	0.000
			-	22:COM9	18:COM5	18:COM5	18:COM5	-
7105	3078	+ve	1.857	7.503	0.092	1.475	0.073	12.795
			20:COM7	20:COM7	28:COM15	16:COM3	20:COM7	16:COM3
			-1.450	0.000	-0.160	-0.343	-0.039	0.000
			30:COM17	-	22:COM9	26:COM13	30:COM17	-
	3136	-ve	1.857	6.473	0.092	1.475	0.057	11.616
			20:COM7	20:COM7	28:COM15	16:COM3	28:COM15	16:COM3
			-1.450	-0.400	-0.160	-0.343	-0.091	-3.884
			30:COM17	30:COM17	22:COM9	26:COM13	22:COM9	26:COM13
7106	3136	+ve	2.843	6.473	0.217	2.822	0.242	8.397
			20:COM7	20:COM7	28:COM15	24:COM11	20:COM7	16:COM3
			-2.289	-0.400	-0.403	-8.160	-0.197	-2.690
			30:COM17	30:COM17	22:COM9	18:COM5	30:COM17	26:COM13
	3141	-ve	2.843	3.130	0.217	2.822	0.158	10.082
			20:COM7	20:COM7	28:COM15	24:COM11	28:COM15	16:COM3
			-2.289	-2.907	-0.403	-8.160	-0.416	-9.501
			30:COM17	30:COM17	22:COM9	18:COM5	22:COM9	26:COM13
7113	3141	+ve	0.000	0.000	0.040	0.093	0.098	0.000
			-	-	24:COM11	24:COM11	16:COM3	-
			-3.408	-3.201	-0.117	-0.269	-0.032	-3.338
			18:COM5	18:COM5	18:COM5	18:COM5	26:COM13	18:COM5
	3014	-ve	0.000	0.000	0.040	0.093	0.034	4.406
			-	-	24:COM11	24:COM11	24:COM11	16:COM3
			-3.408	-6.089	-0.117	-0.269	-0.096	0.000
			18:COM5	18:COM5	18:COM5	18:COM5	18:COM5	-
7114	3141	+ve	6.062	4.000	0.044	2.560	0.253	12.594
			20:COM7	20:COM7	28:COM15	24:COM11	16:COM3	16:COM3
			-2.815	-0.463	-0.254	-6.142	-0.070	-9.666
			30:COM17	30:COM17	22:COM9	18:COM5	26:COM13	26:COM13
	3140	-ve	6.062	0.213	0.044	2.560	0.107	15.904
			20:COM7	28:COM15	28:COM15	24:COM11	28:COM15	16:COM3
			-2.815	-4.032	-0.254	-6.142	-0.355	-12.687
			30:COM17	22:COM9	22:COM9	18:COM5	22:COM9	26:COM13
7116	3142	+ve	1.148	5.528	0.039	0.435	0.025	2.339
			20:COM7	16:COM3	20:COM7	24:COM11	28:COM15	24:COM11
			0.000	-3.135	-0.023	-0.891	-0.038	-2.720
			-	26:COM13	30:COM17	18:COM5	22:COM9	18:COM5
	3164	-ve	1.148	3.030	0.039	0.435	0.037	5.260
			20:COM7	24:COM11	20:COM7	24:COM11	20:COM7	24:COM11
			0.000	-5.204	-0.023	-0.891	-0.020	-5.851
			-	18:COM5	30:COM17	18:COM5	30:COM17	18:COM5

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
7118	3142	+ve	0.000	1.255	0.439	3.827	0.232	1.243
			-	24:COM11	28:COM15	24:COM11	28:COM15	24:COM11
			-1.628	-5.325	-0.435	-3.130	-0.361	-1.371
			18:COM5	18:COM5	22:COM9	18:COM5	22:COM9	18:COM5
	3144	-ve	0.000	0.000	0.439	3.827	0.453	10.402
			-	-	28:COM15	24:COM11	28:COM15	16:COM3
			-1.628	-7.450	-0.435	-3.130	-0.574	0.000
			18:COM5	18:COM5	22:COM9	18:COM5	22:COM9	-
7121	3145	+ve	10.169	0.000	0.056	4.865	0.239	41.514
			16:COM3	-	24:COM11	28:COM15	16:COM3	16:COM3
			0.000	-21.051	-0.683	-5.428	-0.156	0.000
			-	18:COM5	18:COM5	22:COM9	26:COM13	-
	2835	-ve	10.169	0.000	0.056	4.865	0.000	82.213
			16:COM3	-	24:COM11	28:COM15	-	16:COM3
			0.000	-23.176	-0.683	-5.428	-1.025	0.000
			-	18:COM5	18:COM5	22:COM9	18:COM5	-
7128	3149	+ve	1.430	0.000	0.018	0.334	0.065	7.263
			16:COM3	-	28:COM15	28:COM15	20:COM7	20:COM7
			-0.493	-4.399	-0.066	-0.668	-0.011	-0.019
			26:COM13	18:COM5	22:COM9	22:COM9	30:COM17	30:COM17
	3150	-ve	1.430	0.000	0.018	0.334	0.023	14.675
			16:COM3	-	28:COM15	28:COM15	28:COM15	20:COM7
			-0.493	-6.000	-0.066	-0.668	-0.057	0.000
			26:COM13	18:COM5	22:COM9	22:COM9	22:COM9	-
7129	3150	+ve	1.463	0.000	0.027	0.250	0.060	14.858
			24:COM11	-	24:COM11	28:COM15	16:COM3	20:COM7
			-3.357	-8.146	-0.074	-0.509	-0.038	0.000
			18:COM5	18:COM5	18:COM5	22:COM9	26:COM13	-
	2870	-ve	1.463	0.000	0.027	0.250	0.014	28.243
			24:COM11	-	24:COM11	28:COM15	24:COM11	16:COM3
			-3.357	-9.748	-0.074	-0.509	-0.078	0.000
			18:COM5	18:COM5	18:COM5	22:COM9	18:COM5	-
7130	3149	+ve	2.691	2.556	0.091	0.168	0.063	0.519
			24:COM11	16:COM3	16:COM3	16:COM3	24:COM11	16:COM3
			-4.535	-1.681	-0.099	-0.123	-0.061	-0.486
			18:COM5	26:COM13	26:COM13	26:COM13	18:COM5	26:COM13
	3144	-ve	2.691	0.992	0.091	0.168	0.053	2.611
			24:COM11	24:COM11	16:COM3	16:COM3	16:COM3	16:COM3
			-4.535	-3.533	-0.099	-0.123	-0.061	-1.537
			18:COM5	18:COM5	26:COM13	26:COM13	26:COM13	26:COM13
7131	3150	+ve	1.914	2.163	0.138	0.165	0.020	0.652
			24:COM11	16:COM3	20:COM7	20:COM7	28:COM15	24:COM11
			-4.070	-2.365	-0.035	-0.076	-0.084	-1.051
			18:COM5	26:COM13	30:COM17	30:COM17	22:COM9	18:COM5
	3145	-ve	1.914	0.808	0.138	0.165	0.089	3.128
			24:COM11	24:COM11	20:COM7	20:COM7	20:COM7	16:COM3
			-4.070	-4.425	-0.035	-0.076	-0.023	-1.140
			18:COM5	18:COM5	30:COM17	30:COM17	30:COM17	26:COM13

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
7132	3151	+ve	1.408	0.000	0.293	8.643	0.784	0.175
			28:COM1	-	28:COM1	20:COM7	20:COM7	28:COM1
			-2.263	-14.969	-0.949	-1.772	-0.250	-3.524
			22:COM9	32:CVOL1	22:COM9	30:COM1	30:COM1	22:COM9
	3157	-ve	1.408	0.000	0.293	8.643	0.168	20.344
			28:COM1	-	28:COM1	20:COM7	28:COM1	32:CVOL1
			-2.263	-16.883	-0.949	-1.772	-0.566	0.000
			22:COM9	32:CVOL1	22:COM9	30:COM1	22:COM9	-
7133	3102	+ve	0.000	1.953	0.000	0.331	0.088	1.948
			-	35:CVOL4	-	34:CVOL3	32:CVOL1	20:COM7
			-5.807	0.000	-0.107	0.000	0.000	0.000
			22:COM9	-	34:CVOL3	-	-	-
	3156	-ve	0.000	0.000	0.000	0.331	0.000	2.452
			-	-	-	34:CVOL3	-	34:CVOL3
			-5.807	-2.108	-0.107	0.000	-0.086	0.000
			22:COM9	34:CVOL3	34:CVOL3	-	34:CVOL3	-
7134	3152	+ve	0.507	0.000	0.000	0.735	0.074	0.751
			16:COM3	-	-	20:COM7	20:COM7	20:COM7
			-0.515	-2.709	-0.064	-0.056	0.000	-0.077
			26:COM1	34:CVOL3	22:COM9	30:COM1	-	30:COM1
	3155	-ve	0.507	0.000	0.000	0.735	0.000	9.127
			16:COM3	-	-	20:COM7	-	34:CVOL3
			-0.515	-5.107	-0.064	-0.056	-0.070	0.000
			26:COM1	32:CVOL1	22:COM9	30:COM1	22:COM9	-
7135	3151	+ve	0.148	4.823	0.014	0.091	0.071	3.636
			28:COM1	32:CVOL1	28:COM1	28:COM1	20:COM7	16:COM3
			-0.315	0.000	-0.056	-0.948	-0.018	0.000
			22:COM9	-	22:COM9	22:COM9	30:COM1	-
	3152	-ve	0.148	0.000	0.014	0.091	0.019	0.454
			28:COM1	-	28:COM1	28:COM1	28:COM1	20:COM7
			-0.315	-2.709	-0.056	-0.948	-0.073	-0.029
			22:COM9	34:CVOL3	22:COM9	22:COM9	22:COM9	30:COM1
7137	3153	+ve	3.583	0.000	0.023	0.501	0.073	0.000
			20:COM7	-	28:COM1	28:COM1	20:COM7	-
			-3.207	-3.915	-0.039	-1.208	-0.046	-16.058
			30:COM1	22:COM9	22:COM9	22:COM9	30:COM1	34:CVOL3
	3151	-ve	3.583	0.000	0.023	0.501	0.039	12.001
			20:COM7	-	28:COM1	28:COM1	28:COM1	20:COM7
			-3.207	-10.146	-0.039	-1.208	-0.074	0.000
			30:COM1	32:CVOL1	22:COM9	22:COM9	22:COM9	-
7139	2877	+ve	0.000	6.219	0.027	1.201	0.004	1.933
			-	32:CVOL1	20:COM7	20:COM7	28:COM1	20:COM7
			-4.847	0.000	-0.004	0.000	-0.049	0.000
			34:CVOL3	-	30:COM1	-	22:COM9	-
	3156	-ve	0.000	2.814	0.027	1.201	0.024	0.000
			-	34:CVOL3	20:COM7	20:COM7	20:COM7	-
			-4.847	0.000	-0.004	0.000	-0.006	-10.290
			34:CVOL3	-	30:COM1	-	30:COM1	34:CVOL3

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
7140	3154	+ve	0.000	5.817	0.000	0.024	0.062	7.074
			-	20:COM7	-	28:COM15	20:COM7	20:COM7
			-9.268	0.000	-0.051	-0.233	0.000	0.000
			22:COM9	-	22:COM9	22:COM9	-	-
	2958	-ve	0.000	1.601	0.000	0.024	0.000	0.000
			-	20:COM7	-	28:COM15	-	-
			-9.268	-0.185	-0.051	-0.233	-0.061	-1.972
			22:COM9	30:COM17	22:COM9	22:COM9	22:COM9	18:COM5
7141	3157	+ve	0.000	4.415	0.000	0.010	0.073	4.888
			-	20:COM7	-	28:COM15	20:COM7	20:COM7
			-6.725	0.000	-0.060	-0.285	0.000	0.000
			22:COM9	-	22:COM9	22:COM9	-	-
	3155	-ve	0.000	0.544	0.000	0.010	0.000	0.094
			-	28:COM15	-	28:COM15	-	24:COM17
			-6.725	-1.159	-0.060	-0.285	-0.072	-0.748
			22:COM9	22:COM9	22:COM9	22:COM9	22:COM9	18:COM5
7142	3154	+ve	2.930	0.000	0.307	9.329	1.314	70.185
			20:COM7	-	28:COM15	20:COM7	20:COM7	32:CVOL1
			0.000	-39.899	-0.940	-4.019	-0.261	0.000
			-	34:CVOL3	22:COM9	30:COM17	30:COM17	-
	2829	-ve	2.930	0.000	0.307	9.329	0.419	159.276
			20:COM7	-	28:COM15	20:COM7	28:COM15	34:CVOL3
			0.000	-42.398	-0.940	-4.019	-0.738	0.000
			-	34:CVOL3	22:COM9	30:COM17	22:COM9	-
7143	3157	+ve	0.963	0.000	0.010	8.531	0.408	20.377
			28:COM15	-	28:COM15	20:COM7	20:COM7	32:CVOL1
			-1.779	-24.643	-0.494	-3.187	-0.046	0.000
			22:COM9	34:CVOL3	22:COM9	30:COM17	30:COM17	-
	3154	-ve	0.963	0.000	0.010	8.531	0.000	70.369
			28:COM15	-	28:COM15	20:COM7	-	32:CVOL1
			-1.779	-26.911	-0.494	-3.187	-0.565	0.000
			22:COM9	34:CVOL3	22:COM9	30:COM17	22:COM9	-
7144	3155	+ve	1.466	0.000	0.007	1.034	0.084	9.344
			28:COM15	-	28:COM15	20:COM7	20:COM7	34:CVOL3
			-2.065	-5.634	-0.079	-0.007	-0.011	0.000
			22:COM9	18:COM5	22:COM9	30:COM17	30:COM17	-
	2958	-ve	1.466	0.000	0.007	1.034	0.003	21.976
			28:COM15	-	28:COM15	20:COM7	28:COM15	34:CVOL3
			-2.065	-7.556	-0.079	-0.007	-0.072	0.000
			22:COM9	18:COM5	22:COM9	30:COM17	22:COM9	-
7146	3153	+ve	7.433	2.605	0.000	0.064	0.060	1.476
			28:COM15	34:CVOL3	-	28:COM15	34:CVOL3	20:COM7
			-7.180	0.000	-0.035	-0.348	0.000	-1.600
			22:COM9	-	34:CVOL3	22:COM9	-	30:COM17
	3157	-ve	7.433	0.000	0.000	0.064	0.000	4.619
			28:COM15	-	-	28:COM15	-	20:COM7
			-7.180	-4.481	-0.035	-0.348	-0.061	0.000
			22:COM9	35:CVOL4	34:CVOL3	22:COM9	34:CVOL3	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
7147	3156	+ve	0.479	5.703	0.000	0.000	0.045	5.298
			28:COM15	34:CVOL3	-	-	16:COM3	34:CVOL3
			-4.998	0.000	-0.012	-0.198	0.000	0.000
			22:COM9	-	34:CVOL3	34:CVOL3	-	-
	3153	-ve	0.479	0.000	0.000	0.000	0.000	5.722
			28:COM15	-	-	-	-	34:CVOL3
			-4.998	-5.831	-0.012	-0.198	-0.038	0.000
			22:COM9	34:CVOL3	34:CVOL3	34:CVOL3	34:CVOL3	-
7149	3160	+ve	3.724	0.000	0.193	1.350	1.393	62.673
			28:COM15	-	24:COM11	28:COM15	20:COM7	20:COM7
			-12.551	-46.390	-0.997	-26.666	-0.351	0.000
			22:COM9	22:COM9	18:COM5	22:COM9	30:COM17	-
	2814	-ve	3.724	0.000	0.193	1.350	0.291	168.154
			28:COM15	-	24:COM11	28:COM15	24:COM11	20:COM7
			-12.551	-48.942	-0.997	-26.666	-1.027	0.000
			22:COM9	22:COM9	18:COM5	22:COM9	18:COM5	-
7150	3159	+ve	2.835	0.000	0.000	0.000	3.882	4.109
			24:COM11	-	-	-	16:COM3	32:CVOL1
			-7.848	-18.386	-2.883	-5.764	0.000	0.000
			18:COM5	22:COM9	18:COM5	22:COM9	-	-
	5665	-ve	2.835	0.000	0.000	0.000	0.433	36.546
			24:COM11	-	-	-	24:COM11	20:COM7
			-7.848	-20.347	-2.883	-5.764	-1.065	0.000
			18:COM5	22:COM9	18:COM5	22:COM9	18:COM5	-
7509	3144	+ve	8.804	0.000	0.000	5.166	1.296	12.985
			20:COM7	-	-	28:COM15	20:COM7	16:COM3
			-1.099	-14.621	-1.026	-8.041	0.000	-4.801
			30:COM17	35:CVOL4	22:COM9	22:COM9	-	26:COM13
	3145	-ve	8.804	0.000	0.000	5.166	0.000	41.664
			20:COM7	-	-	28:COM15	-	16:COM3
			-1.099	-16.746	-1.026	-8.041	-0.598	0.000
			30:COM17	35:CVOL4	22:COM9	22:COM9	22:COM9	-
7510	3164	+ve	3.762	0.618	0.083	0.647	0.033	7.887
			20:COM7	24:COM11	20:COM7	16:COM3	28:COM15	24:COM11
			-2.032	-8.235	-0.053	-0.626	-0.080	-21.594
			30:COM17	18:COM5	30:COM17	26:COM13	22:COM9	18:COM5
	3144	-ve	3.762	0.000	0.083	0.647	0.088	8.342
			20:COM7	-	20:COM7	16:COM3	28:COM15	16:COM3
			-2.032	-9.374	-0.053	-0.626	-0.077	-5.028
			30:COM17	18:COM5	30:COM17	26:COM13	22:COM9	26:COM13
7512	5313	+ve	12.222	2.435	0.033	0.000	0.221	4.599
			20:COM7	16:COM3	28:COM15	-	20:COM7	16:COM3
			-6.140	-2.252	-0.206	-1.259	-0.056	-1.300
			30:COM17	26:COM13	22:COM9	18:COM5	30:COM17	26:COM13
	5318	-ve	12.222	1.438	0.033	0.000	0.004	4.708
			20:COM7	24:COM11	28:COM15	-	28:COM15	16:COM3
			-6.140	-3.059	-0.206	-1.259	-0.149	-0.123
			30:COM17	18:COM5	22:COM9	18:COM5	22:COM9	26:COM13

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
7513	3170	+ve	6.793	5.040	0.079	0.234	0.047	0.000
			20:COM7	16:COM3	20:COM7	24:COM1	28:COM1	-
			-2.646	0.000	-0.038	-0.739	-0.080	-11.818
			30:COM1	-	30:COM1	18:COM5	22:COM9	22:COM9
	3171	-ve	6.793	3.945	0.079	0.234	0.070	0.000
			20:COM7	16:COM3	20:COM7	24:COM1	20:COM7	-
			-2.646	-0.614	-0.038	-0.739	-0.026	-14.772
			30:COM1	26:COM1	30:COM1	18:COM5	30:COM1	35:CVOL
7514	3171	+ve	6.603	3.255	0.063	0.116	0.034	0.000
			20:COM7	16:COM3	20:COM7	28:COM1	28:COM1	-
			-3.035	-2.273	-0.019	-0.446	-0.067	-14.677
			30:COM1	26:COM1	30:COM1	22:COM9	22:COM9	35:CVOL
	3172	-ve	6.603	2.336	0.063	0.116	0.056	0.000
			20:COM7	24:COM1	20:COM7	28:COM1	20:COM7	-
			-3.035	-3.269	-0.019	-0.446	-0.005	-19.369
			30:COM1	18:COM5	30:COM1	22:COM9	30:COM1	18:COM5
7515	3172	+ve	6.223	1.903	0.069	0.851	0.006	0.000
			20:COM7	28:COM1	16:COM3	16:COM3	28:COM1	-
			-3.322	-4.940	-0.011	-0.791	-0.066	-19.267
			30:COM1	22:COM9	26:COM1	26:COM1	22:COM9	18:COM5
	3164	-ve	6.223	1.082	0.069	0.851	0.079	5.602
			20:COM7	28:COM1	16:COM3	16:COM3	20:COM7	24:COM1
			-3.322	-6.035	-0.011	-0.791	-0.027	-19.872
			30:COM1	22:COM9	26:COM1	26:COM1	30:COM1	18:COM5
7518	3170	+ve	0.346	2.291	0.012	0.270	0.018	0.027
			28:COM1	16:COM3	20:COM7	16:COM3	28:COM1	24:COM1
			-0.533	-0.764	-0.009	-0.045	-0.024	-0.140
			22:COM9	26:COM1	30:COM1	26:COM1	22:COM9	18:COM5
	6272	-ve	0.346	0.000	0.012	0.270	0.021	14.937
			28:COM1	-	20:COM7	16:COM3	20:COM7	16:COM3
			-0.533	-7.823	-0.009	-0.045	-0.017	0.000
			22:COM9	18:COM5	30:COM1	26:COM1	30:COM1	-
7519	3171	+ve	0.530	2.449	0.010	0.146	0.012	0.366
			28:COM1	20:COM7	20:COM7	16:COM3	28:COM1	24:COM1
			-0.983	-0.100	-0.006	-0.003	-0.020	-0.545
			22:COM9	30:COM1	30:COM1	26:COM1	22:COM9	18:COM5
	6273	-ve	0.530	0.000	0.010	0.146	0.017	11.162
			28:COM1	-	20:COM7	16:COM3	20:COM7	20:COM7
			-0.983	-6.689	-0.006	-0.003	-0.011	0.000
			22:COM9	22:COM9	30:COM1	26:COM1	30:COM1	-
7520	3172	+ve	0.582	1.704	0.009	0.133	0.003	0.621
			28:COM1	20:COM7	20:COM7	20:COM7	28:COM1	24:COM1
			-0.956	0.000	-0.002	-0.115	-0.017	-1.011
			22:COM9	-	30:COM1	30:COM1	22:COM9	18:COM5
	6274	-ve	0.582	0.000	0.009	0.133	0.015	8.616
			28:COM1	-	20:COM7	20:COM7	20:COM7	20:COM7
			-0.956	-6.192	-0.002	-0.115	-0.002	0.000
			22:COM9	34:CVOL	30:COM1	30:COM1	30:COM1	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
7527	3164	+ve	1.599	2.888	0.008	0.110	0.009	4.031
			20:COM7	20:COM7	20:COM7	24:COM1	28:COM1	24:COM1
			-0.185	-2.398	-0.005	-0.252	-0.015	-4.775
			30:COM1	30:COM1	30:COM1	18:COM5	22:COM9	18:COM5
	6275	-ve	1.599	0.000	0.008	0.110	0.011	12.613
			20:COM7	-	20:COM7	24:COM1	16:COM3	20:COM7
			-0.185	-8.252	-0.005	-0.252	-0.009	0.000
			30:COM1	22:COM9	30:COM1	18:COM5	26:COM1	-
7528	3144	+ve	0.000	2.373	0.003	0.043	0.047	2.271
			-	16:COM3	24:COM1	24:COM1	16:COM3	16:COM3
			-11.186	0.000	-0.029	-0.209	-0.005	0.000
			22:COM9	-	18:COM5	18:COM5	26:COM1	-
	6276	-ve	0.000	0.000	0.003	0.043	0.003	5.399
			-	-	24:COM1	24:COM1	24:COM1	16:COM3
			-11.186	-4.259	-0.029	-0.209	-0.046	0.000
			22:COM9	18:COM5	18:COM5	18:COM5	18:COM5	-
7532	3179	+ve	14.722	11.033	5.569	9.314	1.353	10.785
			20:COM7	24:COM1	28:COM1	20:COM7	28:COM1	20:COM7
			-7.866	-24.715	-5.745	-3.634	-1.668	-6.907
			30:COM1	18:COM5	22:COM9	30:COM1	22:COM9	30:COM1
	2891	-ve	14.722	10.865	5.569	9.314	1.114	22.427
			20:COM7	24:COM1	28:COM1	20:COM7	28:COM1	16:COM3
			-7.866	-24.940	-5.745	-3.634	-1.515	-11.797
			30:COM1	18:COM5	22:COM9	30:COM1	22:COM9	26:COM1
7533	5319	+ve	1.576	9.267	0.025	0.667	0.019	17.940
			28:COM1	20:COM7	20:COM7	16:COM3	28:COM1	16:COM3
			-1.796	-0.160	-0.012	0.000	-0.037	0.000
			22:COM9	30:COM1	30:COM1	-	22:COM9	-
	3179	-ve	1.576	3.182	0.025	0.667	0.043	10.643
			28:COM1	28:COM1	20:COM7	16:COM3	20:COM7	20:COM7
			-1.796	-4.487	-0.012	0.000	-0.018	-3.196
			22:COM9	22:COM9	30:COM1	-	30:COM1	30:COM1
7534	3180	+ve	7.865	39.617	2.674	5.042	2.805	64.359
			20:COM7	16:COM3	28:COM1	24:COM1	20:COM7	16:COM3
			-0.369	-3.135	-3.623	-31.518	-2.421	-13.185
			30:COM1	26:COM1	22:COM9	18:COM5	30:COM1	26:COM1
	2884	-ve	7.865	36.678	2.674	5.042	1.241	12.543
			20:COM7	16:COM3	28:COM1	24:COM1	28:COM1	16:COM3
			-0.369	-5.095	-3.623	-31.518	-2.146	-7.599
			30:COM1	26:COM1	22:COM9	18:COM5	22:COM9	26:COM1
7535	5320	+ve	1.183	15.097	0.058	0.672	0.000	17.200
			28:COM1	24:COM1	20:COM7	16:COM3	-	16:COM3
			-4.464	-16.120	0.000	-0.310	-0.061	-6.120
			22:COM9	18:COM5	-	26:COM1	22:COM9	26:COM1
	3180	-ve	1.183	12.401	0.058	0.672	0.068	36.405
			28:COM1	24:COM1	20:COM7	16:COM3	20:COM7	16:COM3
			-4.464	-20.598	0.000	-0.310	0.000	-15.159
			22:COM9	18:COM5	-	26:COM1	-	26:COM1

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
7556	2833	+ve	2.525	39.839	0.586	6.720	2.134	142.798
			20:COM7	34:CVOL3	28:COM15	28:COM15	20:COM7	34:CVOL3
			-1.851	0.000	-1.691	-5.736	-0.711	0.000
			30:COM17	-	22:COM9	22:COM9	30:COM17	-
	3197	-ve	2.525	37.470	0.586	6.720	0.506	63.799
			20:COM7	34:CVOL3	28:COM15	28:COM15	28:COM15	16:COM3
			-1.851	0.000	-1.691	-5.736	-1.355	0.000
			30:COM17	-	22:COM9	22:COM9	22:COM9	-
7563	3185	+ve	0.079	5.447	0.041	0.701	0.000	4.529
			28:COM15	32:CVOL1	20:COM7	20:COM7	-	32:CVOL1
			-0.567	0.000	0.000	-0.510	-0.056	0.000
			22:COM9	-	-	30:COM17	22:COM9	-
	3184	-ve	0.079	0.000	0.041	0.701	0.050	0.307
			28:COM15	-	20:COM7	20:COM7	20:COM7	20:COM7
			-0.567	-2.182	0.000	-0.510	0.000	-0.194
			22:COM9	34:CVOL3	-	30:COM17	-	30:COM17
7566	3185	+ve	0.823	7.188	0.424	0.169	0.309	9.533
			28:COM15	20:COM7	20:COM7	28:COM15	28:COM15	20:COM7
			-5.697	0.000	-0.207	-3.005	-0.633	-4.061
			22:COM9	-	30:COM17	22:COM9	22:COM9	30:COM17
	3186	-ve	0.823	2.925	0.424	0.169	0.695	0.000
			28:COM15	20:COM7	20:COM7	28:COM15	20:COM7	-
			-5.697	-2.759	-0.207	-3.005	-0.339	-6.379
			22:COM9	30:COM17	30:COM17	22:COM9	30:COM17	18:COM5
7569	3188	+ve	2.583	4.771	0.009	0.024	0.010	4.475
			24:COM17	34:CVOL3	20:COM7	28:COM15	28:COM15	20:COM7
			-3.215	0.000	-0.006	-0.360	-0.015	0.000
			18:COM5	-	30:COM17	22:COM9	22:COM9	-
	3186	-ve	2.583	0.000	0.009	0.024	0.026	1.052
			24:COM17	-	20:COM7	28:COM15	20:COM7	20:COM7
			-3.215	-3.125	-0.006	-0.360	-0.015	-1.129
			18:COM5	34:CVOL3	30:COM17	22:COM9	30:COM17	30:COM17
7570	3188	+ve	9.951	0.181	0.162	1.181	0.176	3.743
			28:COM15	28:COM15	24:COM11	24:COM17	16:COM3	28:COM15
			-12.741	-10.281	-0.189	-1.410	-0.161	-11.376
			22:COM9	22:COM9	18:COM5	18:COM5	26:COM13	22:COM9
	3192	-ve	9.951	0.000	0.162	1.181	0.150	23.908
			28:COM15	-	24:COM11	24:COM17	24:COM11	20:COM7
			-12.741	-12.860	-0.189	-1.410	-0.187	-8.130
			22:COM9	22:COM9	18:COM5	18:COM5	18:COM5	30:COM17
7572	2980	+ve	0.523	4.665	0.065	0.357	0.009	7.849
			28:COM15	32:CVOL1	20:COM7	28:COM15	28:COM15	32:CVOL1
			-0.702	0.000	-0.004	-0.529	-0.075	0.000
			22:COM9	-	30:COM17	22:COM9	22:COM9	-
	3184	-ve	0.523	2.182	0.065	0.357	0.077	0.553
			28:COM15	34:CVOL3	20:COM7	28:COM15	20:COM7	20:COM7
			-0.702	0.000	-0.004	-0.529	0.000	-0.412
			22:COM9	-	30:COM17	22:COM9	-	30:COM17

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
7576	3192	+ve	10.233	11.170	0.238	0.000	0.158	19.868
			28:COM15	16:COM3	20:COM7	-	28:COM15	20:COM7
			-12.050	-3.549	-0.168	-1.839	-0.196	-6.368
			22:COM9	26:COM13	30:COM17	22:COM9	22:COM9	30:COM17
	3193	-ve	10.233	8.848	0.238	0.000	0.232	7.788
			28:COM15	16:COM3	20:COM7	-	16:COM3	20:COM7
			-12.050	-5.291	-0.168	-1.839	-0.151	-3.821
			22:COM9	26:COM13	30:COM17	22:COM9	26:COM13	30:COM17
7577	3193	+ve	1.880	6.096	0.216	0.957	0.184	7.602
			24:COM17	24:COM11	20:COM7	16:COM3	24:COM11	20:COM7
			-5.188	-7.462	-0.145	-0.398	-0.267	-3.880
			18:COM5	18:COM5	30:COM17	26:COM13	18:COM5	30:COM17
	5542	-ve	1.880	4.036	0.216	0.957	0.196	21.594
			24:COM17	24:COM11	20:COM7	16:COM3	20:COM7	16:COM3
			-5.188	-10.209	-0.145	-0.398	-0.135	-10.267
			18:COM5	18:COM5	30:COM17	26:COM13	30:COM17	26:COM13
7581	5483	+ve	49.396	15.352	1.147	10.954	0.681	11.354
			28:COM15	24:COM11	16:COM3	16:COM3	24:COM11	28:COM15
			-87.848	-31.016	-0.552	-4.601	-1.283	-21.470
			22:COM9	18:COM5	26:COM13	26:COM13	18:COM5	22:COM9
	5543	-ve	49.396	12.062	1.147	10.954	0.817	39.843
			28:COM15	24:COM11	16:COM3	16:COM3	16:COM3	16:COM3
			-87.848	-36.123	-0.552	-4.601	-0.348	-14.207
			22:COM9	18:COM5	26:COM13	26:COM13	26:COM13	26:COM13
7582	5673	+ve	11.980	6.365	0.004	0.060	0.041	7.268
			20:COM7	35:CVOL4	28:COM15	24:COM17	20:COM7	16:COM3
			-7.635	0.000	-0.012	-0.342	-0.015	0.000
			30:COM17	-	22:COM9	18:COM5	30:COM17	-
	3197	-ve	11.980	0.000	0.004	0.060	0.015	8.531
			20:COM7	-	28:COM15	24:COM17	28:COM15	34:CVOL3
			-7.635	-7.210	-0.012	-0.342	-0.040	0.000
			30:COM17	34:CVOL3	22:COM9	18:COM5	22:COM9	-
7584	3196	+ve	1.630	13.475	1.585	7.163	1.151	16.377
			20:COM7	32:CVOL1	20:COM7	20:COM7	20:COM7	32:CVOL1
			-1.326	0.000	-1.441	-5.367	-1.053	0.000
			30:COM17	-	30:COM17	30:COM17	30:COM17	-
	3185	-ve	1.630	11.534	1.585	7.163	1.247	0.471
			20:COM7	32:CVOL1	20:COM7	20:COM7	20:COM7	28:COM15
			-1.326	0.000	-1.441	-5.367	-0.941	-3.032
			30:COM17	-	30:COM17	30:COM17	30:COM17	22:COM9
7585	3197	+ve	2.028	25.297	0.807	7.937	0.495	63.901
			28:COM15	20:COM7	20:COM7	20:COM7	28:COM15	20:COM7
			-2.841	0.000	-0.299	-5.546	-0.863	0.000
			22:COM9	-	30:COM17	30:COM17	22:COM9	-
	3196	-ve	2.028	22.930	0.807	7.937	0.798	15.873
			28:COM15	20:COM7	20:COM7	20:COM7	20:COM7	32:CVOL1
			-2.841	0.000	-0.299	-5.546	-0.124	0.000
			22:COM9	-	30:COM17	30:COM17	30:COM17	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
7588	3197	+ve	0.000	5.793	0.035	0.141	0.034	6.979
			-	20:COM7	20:COM7	20:COM7	28:COM15	20:COM7
			-9.645	0.000	-0.027	-0.085	-0.043	0.000
			22:COM9	-	30:COM17	30:COM17	22:COM9	-
	2979	-ve	0.000	1.566	0.035	0.141	0.042	0.144
			-	20:COM7	20:COM7	20:COM7	20:COM7	28:COM15
			-9.645	-0.698	-0.027	-0.085	-0.033	-1.999
			22:COM9	30:COM17	30:COM17	30:COM17	30:COM17	22:COM9
7590	3196	+ve	2.328	4.364	0.053	0.213	0.032	4.752
			28:COM15	20:COM7	20:COM7	20:COM7	28:COM15	20:COM7
			-6.219	0.000	-0.025	-0.120	-0.065	0.000
			22:COM9	-	30:COM17	30:COM17	22:COM9	-
	2980	-ve	2.328	0.588	0.053	0.213	0.064	0.389
			28:COM15	28:COM15	20:COM7	20:COM7	20:COM7	24:COM17
			-6.219	-1.786	-0.025	-0.120	-0.030	-0.754
			22:COM9	22:COM9	30:COM17	30:COM17	30:COM17	18:COM5
7591	5670	+ve	18.330	1.922	0.007	0.001	0.113	0.000
			20:COM7	35:CVOL4	28:COM15	24:COM17	20:COM7	-
			-2.794	0.000	-0.057	-0.656	-0.013	-4.681
			30:COM17	-	22:COM9	18:COM5	30:COM17	18:COM5
	3196	-ve	18.330	0.000	0.007	0.001	0.016	5.899
			20:COM7	-	28:COM15	24:COM17	28:COM15	20:COM7
			-2.794	-6.111	-0.057	-0.656	-0.113	0.000
			30:COM17	34:CVOL3	22:COM9	18:COM5	22:COM9	-
7620	3224	+ve	2.951	43.349	0.392	0.000	0.945	144.277
			20:COM7	16:COM3	28:COM15	-	20:COM7	16:COM3
			-0.889	0.000	-0.974	-6.817	-0.341	-21.487
			30:COM17	-	22:COM9	22:COM9	30:COM17	26:COM13
	3375	-ve	2.951	41.100	0.392	0.000	0.444	61.959
			20:COM7	16:COM3	28:COM15	-	28:COM15	16:COM3
			-0.889	0.000	-0.974	-6.817	-0.974	-33.364
			30:COM17	-	22:COM9	22:COM9	22:COM9	26:COM13
7621	3225	+ve	15.487	45.050	0.655	0.820	0.595	138.943
			28:COM15	16:COM3	28:COM15	24:COM17	28:COM15	16:COM3
			-20.355	0.000	-0.595	-6.388	-0.727	-18.183
			22:COM9	-	22:COM9	18:COM5	22:COM9	26:COM13
	3380	-ve	15.487	42.801	0.655	0.820	0.563	53.315
			28:COM15	16:COM3	28:COM15	24:COM17	28:COM15	16:COM3
			-20.355	0.000	-0.595	-6.388	-0.579	-31.917
			22:COM9	-	22:COM9	18:COM5	22:COM9	26:COM13
7622	3226	+ve	21.877	44.758	0.136	0.462	0.824	138.001
			28:COM15	16:COM3	28:COM15	24:COM17	20:COM7	16:COM3
			-27.471	0.000	-0.697	-6.390	-0.229	-18.361
			22:COM9	-	22:COM9	18:COM5	30:COM17	26:COM13
	3385	-ve	21.877	42.509	0.136	0.462	0.121	52.946
			28:COM15	16:COM3	28:COM15	24:COM17	24:COM11	16:COM3
			-27.471	0.000	-0.697	-6.390	-0.621	-32.274
			22:COM9	-	22:COM9	18:COM5	18:COM5	26:COM13

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
7623	3227	+ve	16.906	44.697	1.274	0.568	1.966	138.751
			28:COM15	16:COM3	28:COM15	24:COM17	20:COM7	16:COM3
			-22.395	0.000	-1.779	-7.713	-1.478	-24.704
			22:COM9	-	22:COM9	18:COM5	30:COM17	26:COM13
	3390	-ve	16.906	42.448	1.274	0.568	1.008	53.794
			28:COM15	16:COM3	28:COM15	24:COM17	28:COM15	16:COM3
			-22.395	0.000	-1.779	-7.713	-1.506	-35.012
			22:COM9	-	22:COM9	18:COM5	22:COM9	26:COM13
7624	3211	+ve	27.491	58.905	2.668	14.383	1.484	150.340
			28:COM15	20:COM7	20:COM7	28:COM15	28:COM15	16:COM3
			-33.277	0.000	-1.141	-26.359	-2.961	-13.555
			22:COM9	-	30:COM17	22:COM9	22:COM9	26:COM13
	3303	-ve	27.491	56.656	2.668	14.383	2.247	48.954
			28:COM15	20:COM7	20:COM7	28:COM15	20:COM7	16:COM3
			-33.277	0.000	-1.141	-26.359	-0.746	-43.782
			22:COM9	-	30:COM17	22:COM9	30:COM17	26:COM13
7625	3212	+ve	6.730	38.094	1.481	11.861	0.866	119.486
			28:COM15	16:COM3	20:COM7	20:COM7	28:COM15	16:COM3
			-11.462	0.000	-0.796	0.000	-1.501	-28.285
			22:COM9	-	30:COM17	-	22:COM9	26:COM13
	3298	-ve	6.730	35.846	1.481	11.861	1.392	47.505
			28:COM15	16:COM3	20:COM7	20:COM7	20:COM7	16:COM3
			-11.462	0.000	-0.796	0.000	-0.692	-30.646
			22:COM9	-	30:COM17	-	30:COM17	26:COM13
7626	3213	+ve	9.101	37.853	1.032	11.965	0.002	117.476
			28:COM15	16:COM3	20:COM7	20:COM7	28:COM15	16:COM3
			-10.034	0.000	-0.063	0.000	-0.969	-29.208
			22:COM9	-	30:COM17	-	22:COM9	26:COM13
	3308	-ve	9.101	35.604	1.032	11.965	1.073	45.913
			28:COM15	16:COM3	20:COM7	20:COM7	20:COM7	16:COM3
			-10.034	0.000	-0.063	0.000	-0.150	-31.821
			22:COM9	-	30:COM17	-	30:COM17	26:COM13
7627	3214	+ve	13.993	39.847	0.851	14.429	0.414	128.069
			24:COM17	16:COM3	20:COM7	20:COM7	28:COM15	16:COM3
			-18.799	0.000	-0.208	-2.351	-1.001	-29.014
			18:COM5	-	30:COM17	30:COM17	22:COM9	26:COM13
	3313	-ve	13.993	37.599	0.851	14.429	0.671	52.581
			24:COM17	16:COM3	20:COM7	20:COM7	20:COM7	16:COM3
			-18.799	0.000	-0.208	-2.351	-0.004	-33.116
			18:COM5	-	30:COM17	30:COM17	30:COM17	26:COM13
7628	3211	+ve	0.000	266.580	1.843	23.720	0.743	240.042
			-	20:COM7	20:COM7	28:COM15	28:COM15	20:COM7
			-32.513	-245.525	-1.129	-31.383	-1.397	-217.921
			22:COM9	30:COM17	30:COM17	22:COM9	22:COM9	30:COM17
	3247	-ve	0.000	261.941	1.843	23.720	1.567	177.428
			-	20:COM7	20:COM7	28:COM15	20:COM7	28:COM15
			-32.513	-248.525	-1.129	-31.383	-1.078	-182.883
			22:COM9	30:COM17	30:COM17	22:COM9	30:COM17	22:COM9

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
7629	3212	+ve	0.000	57.355	0.550	13.019	0.407	36.698
			-	28:COM15	20:COM7	16:COM3	28:COM15	28:COM15
			-29.220	-67.692	-0.413	-11.959	-0.396	-43.081
			22:COM9	22:COM9	30:COM17	26:COM13	22:COM9	22:COM9
	3248	-ve	0.000	54.632	0.550	13.019	0.490	68.660
			-	28:COM15	20:COM7	16:COM3	20:COM7	20:COM7
			-29.220	-71.963	-0.413	-11.959	-0.261	-52.908
			22:COM9	22:COM9	30:COM17	26:COM13	30:COM17	30:COM17
7630	3213	+ve	0.000	54.876	0.587	13.335	0.145	33.971
			-	28:COM15	16:COM3	16:COM3	24:COM11	28:COM15
			-33.820	-63.949	-0.207	-11.198	-0.472	-39.392
			22:COM9	22:COM9	26:COM13	26:COM13	18:COM5	22:COM9
	3249	-ve	0.000	52.153	0.587	13.335	0.475	66.345
			-	28:COM15	16:COM3	16:COM3	16:COM3	20:COM7
			-33.820	-68.220	-0.207	-11.198	-0.194	-51.655
			22:COM9	22:COM9	26:COM13	26:COM13	26:COM13	30:COM17
7631	3214	+ve	0.000	59.809	0.558	14.169	0.342	38.430
			-	28:COM15	20:COM7	16:COM3	28:COM15	28:COM15
			-30.865	-71.112	-0.383	-11.293	-0.418	-45.171
			22:COM9	22:COM9	30:COM17	26:COM13	22:COM9	22:COM9
	3250	-ve	0.000	57.086	0.558	14.169	0.476	72.036
			-	28:COM15	20:COM7	16:COM3	20:COM7	20:COM7
			-30.865	-75.383	-0.383	-11.293	-0.272	-55.096
			22:COM9	22:COM9	30:COM17	26:COM13	30:COM17	30:COM17
7632	3215	+ve	5.614	273.842	0.940	28.113	1.369	249.316
			28:COM15	20:COM7	28:COM15	16:COM3	16:COM3	20:COM7
			-42.733	-254.969	-1.290	-26.253	-1.038	-226.184
			22:COM9	30:COM17	22:COM9	26:COM13	26:COM13	30:COM17
	3251	-ve	5.614	269.202	0.940	28.113	0.727	184.316
			28:COM15	20:COM7	28:COM15	16:COM3	28:COM15	28:COM15
			-42.733	-257.969	-1.290	-26.253	-0.955	-185.269
			22:COM9	30:COM17	22:COM9	26:COM13	22:COM9	22:COM9
7633	3233	+ve	1.434	39.419	4.696	0.000	0.000	47.000
			28:COM15	20:COM7	34:CVOL3	-	-	20:COM7
			-16.844	0.000	0.000	-30.223	-5.231	0.000
			22:COM9	-	-	34:CVOL3	34:CVOL3	-
	3235	-ve	1.434	33.764	4.696	0.000	3.927	0.584
			28:COM15	20:COM7	34:CVOL3	-	16:COM3	28:COM15
			-16.844	0.000	0.000	-30.223	0.000	-24.619
			22:COM9	-	-	34:CVOL3	-	22:COM9
7634	3203	+ve	52.301	124.695	0.000	0.000	4.177	328.779
			20:COM7	20:COM7	-	-	20:COM7	20:COM7
			-32.165	-106.403	-2.010	-18.377	0.000	-322.755
			30:COM17	30:COM17	22:COM9	22:COM9	-	30:COM17
	3282	-ve	52.301	116.401	0.000	0.000	0.946	49.745
			20:COM7	20:COM7	-	-	24:COM11	28:COM15
			-32.165	-111.918	-2.010	-18.377	-0.914	-70.483
			30:COM17	30:COM17	22:COM9	22:COM9	18:COM5	22:COM9

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
7635	3229	+ve	0.155	82.026	0.544	10.408	0.235	75.900
			28:COM15	20:COM7	16:COM3	20:COM7	24:COM11	20:COM7
			-31.693	-17.849	-0.270	-8.286	-0.340	-6.248
			22:COM9	30:COM17	26:COM13	30:COM17	18:COM5	30:COM17
	3236	-ve	0.155	76.821	0.544	10.408	0.729	31.801
			28:COM15	20:COM7	16:COM3	20:COM7	16:COM3	28:COM15
			-31.693	-21.167	-0.270	-8.286	-0.298	-78.981
			22:COM9	30:COM17	26:COM13	30:COM17	26:COM13	22:COM9
7636	3230	+ve	3.360	53.406	0.032	5.197	0.290	43.948
			28:COM15	20:COM7	24:COM11	16:COM3	16:COM3	20:COM7
			-41.763	-34.935	-0.396	-5.369	-0.006	-27.175
			22:COM9	30:COM17	18:COM5	26:COM13	26:COM13	30:COM17
	3237	-ve	3.360	48.201	0.032	5.197	0.076	44.194
			28:COM15	20:COM7	24:COM11	16:COM3	28:COM15	28:COM15
			-41.763	-38.254	-0.396	-5.369	-0.502	-55.127
			22:COM9	30:COM17	18:COM5	26:COM13	22:COM9	22:COM9
7637	3231	+ve	0.756	46.170	0.376	11.194	0.271	38.125
			28:COM15	20:COM7	20:COM7	16:COM3	24:COM11	20:COM7
			-47.202	-34.765	-0.339	-9.377	-0.287	-26.669
			22:COM9	30:COM17	30:COM17	26:COM13	18:COM5	30:COM17
	3238	-ve	0.756	41.978	0.376	11.194	0.460	45.234
			28:COM15	28:COM15	20:COM7	16:COM3	20:COM7	20:COM7
			-47.202	-39.097	-0.339	-9.377	-0.404	-47.707
			22:COM9	22:COM9	30:COM17	26:COM13	30:COM17	30:COM17
7638	3232	+ve	10.823	74.378	0.563	8.939	0.502	62.156
			28:COM15	20:COM7	24:COM11	24:COM11	16:COM3	20:COM7
			-48.857	-46.514	-0.605	-9.663	-0.477	-35.829
			22:COM9	30:COM17	18:COM5	18:COM5	26:COM13	30:COM17
	3239	-ve	10.823	69.173	0.563	8.939	0.625	58.114
			28:COM15	20:COM7	24:COM11	24:COM11	24:COM11	28:COM15
			-48.857	-49.833	-0.605	-9.663	-0.681	-77.810
			22:COM9	30:COM17	18:COM5	18:COM5	18:COM5	22:COM9
7639	3216	+ve	20.688	137.022	13.410	0.000	2.150	79.473
			28:COM15	20:COM7	20:COM7	-	28:COM15	20:COM7
			-31.170	-131.418	-2.955	-37.226	-14.418	-73.635
			22:COM9	30:COM17	30:COM17	22:COM9	22:COM9	30:COM17
	3203	-ve	20.688	131.797	13.410	0.000	9.697	167.515
			28:COM15	28:COM15	20:COM7	-	20:COM7	20:COM7
			-31.170	-136.747	-2.955	-37.226	-3.185	-162.264
			22:COM9	22:COM9	30:COM17	22:COM9	30:COM17	30:COM17
7640	3217	+ve	0.000	0.000	1.001	17.948	1.176	0.796
			-	-	20:COM7	20:COM7	28:COM15	28:COM15
			-23.379	-42.937	-0.752	-13.734	-1.358	-31.444
			22:COM9	22:COM9	30:COM17	30:COM17	22:COM9	22:COM9
	3204	-ve	0.000	0.000	1.001	17.948	0.634	50.313
			-	-	20:COM7	20:COM7	16:COM3	20:COM7
			-23.379	-48.033	-0.752	-13.734	-0.369	0.000
			22:COM9	22:COM9	30:COM17	30:COM17	26:COM13	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
7641	3218	+ve	0.000	0.000	0.104	4.925	0.134	0.000
			-	-	28:COM15	16:COM3	20:COM7	-
			-35.654	-61.311	-0.269	-4.446	-0.042	-44.473
			22:COM9	22:COM9	22:COM9	26:COM13	30:COM17	22:COM9
	3205	-ve	0.000	0.000	0.104	4.925	0.149	73.912
			-	-	28:COM15	16:COM3	28:COM15	34:CVOL3
			-35.654	-66.407	-0.269	-4.446	-0.354	0.000
			22:COM9	22:COM9	22:COM9	26:COM13	22:COM9	-
7642	3219	+ve	0.000	87.392	0.475	18.891	0.833	58.561
			-	28:COM15	24:COM11	24:COM11	16:COM3	28:COM15
			-30.558	-104.673	-0.531	-25.127	-0.762	-70.029
			18:COM5	22:COM9	18:COM5	18:COM5	26:COM13	22:COM9
	3206	-ve	0.000	84.109	0.475	18.891	0.593	122.637
			-	28:COM15	24:COM11	24:COM11	28:COM15	20:COM7
			-30.558	-109.769	-0.531	-25.127	-0.623	-95.541
			18:COM5	22:COM9	18:COM5	18:COM5	22:COM9	30:COM17
7643	3234	+ve	13.372	7.352	0.896	10.583	0.839	5.349
			28:COM15	20:COM7	20:COM7	24:COM11	28:COM15	33:CVOL2
			-26.785	0.000	-0.817	-14.095	-1.009	0.000
			22:COM9	-	30:COM17	18:COM5	22:COM9	-
	3240	-ve	13.372	2.672	0.896	10.583	0.740	5.451
			28:COM15	28:COM15	20:COM7	24:COM11	20:COM7	20:COM7
			-26.785	-3.178	-0.817	-14.095	-0.755	-4.873
			22:COM9	22:COM9	30:COM17	18:COM5	30:COM17	30:COM17
7644	3220	+ve	20.288	0.282	8.501	9.509	5.635	3.012
			28:COM15	28:COM15	16:COM3	16:COM3	24:COM11	28:COM15
			-36.833	-36.210	-6.600	-2.381	-7.483	-23.018
			22:COM9	22:COM9	26:COM13	26:COM13	18:COM5	22:COM9
	3207	-ve	20.288	0.000	8.501	9.509	7.792	46.655
			28:COM15	-	16:COM3	16:COM3	16:COM3	20:COM7
			-36.833	-41.306	-6.600	-2.381	-6.225	0.000
			22:COM9	22:COM9	26:COM13	26:COM13	26:COM13	-
7645	3217	+ve	16.940	67.382	0.483	3.536	1.050	193.652
			20:COM7	20:COM7	24:COM11	32:CVOL1	16:COM3	20:COM7
			-8.258	-9.915	-1.206	0.000	-0.448	-63.090
			30:COM17	30:COM17	18:COM5	-	26:COM13	30:COM17
	3339	-ve	16.940	64.786	0.483	3.536	0.514	70.377
			20:COM7	20:COM7	24:COM11	32:CVOL1	24:COM11	16:COM3
			-8.258	-11.862	-1.206	0.000	-1.269	-43.349
			30:COM17	30:COM17	18:COM5	-	18:COM5	26:COM13
7646	3221	+ve	0.000	14.676	0.258	4.954	0.142	16.502
			-	28:COM15	16:COM3	16:COM3	16:COM3	28:COM15
			-43.051	-44.655	-0.064	-1.373	-0.092	-36.701
			22:COM9	22:COM9	26:COM13	26:COM13	26:COM13	22:COM9
	3500	-ve	0.000	11.315	0.258	4.954	0.464	50.273
			-	28:COM15	16:COM3	16:COM3	20:COM7	20:COM7
			-43.051	-49.873	-0.064	-1.373	-0.058	-7.457
			22:COM9	22:COM9	26:COM13	26:COM13	30:COM17	30:COM17

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
7647	3233	+ve	25.168	40.827	0.000	2.916	1.450	151.774
			34:CVOL3	20:COM7	-	28:COM1	20:COM7	20:COM7
			0.000	0.000	-1.806	-7.886	-0.047	0.000
			-	-	18:COM5	22:COM9	30:COM1	-
	3396	-ve	25.168	38.541	0.000	2.916	0.000	73.160
			34:CVOL3	20:COM7	-	28:COM1	-	20:COM7
			0.000	0.000	-1.806	-7.886	-2.338	-4.957
			-	-	18:COM5	22:COM9	22:COM9	30:COM1
7648	3229	+ve	0.556	37.179	1.641	2.952	0.000	120.220
			24:COM1	16:COM3	20:COM7	16:COM3	-	16:COM3
			-3.208	0.000	-0.068	-4.626	-1.529	0.000
			18:COM5	-	30:COM1	26:COM1	22:COM9	-
	3398	-ve	0.556	35.012	1.641	2.952	1.563	52.406
			24:COM1	16:COM3	20:COM7	16:COM3	20:COM7	16:COM3
			-3.208	0.000	-0.068	-4.626	-0.210	-5.157
			18:COM5	-	30:COM1	26:COM1	30:COM1	26:COM1
7649	3230	+ve	6.274	38.514	1.388	8.388	0.482	131.776
			20:COM7	16:COM3	20:COM7	16:COM3	28:COM1	16:COM3
			-2.857	0.000	-0.359	0.000	-1.615	-8.073
			30:COM1	-	30:COM1	-	22:COM9	26:COM1
	3404	-ve	6.274	36.236	1.388	8.388	1.130	57.959
			20:COM7	16:COM3	20:COM7	16:COM3	20:COM7	16:COM3
			-2.857	0.000	-0.359	0.000	-0.229	-24.002
			30:COM1	-	30:COM1	-	30:COM1	26:COM1
7650	3221	+ve	7.691	57.408	1.339	7.912	2.226	196.108
			16:COM3	16:COM3	28:COM1	32:CVOL1	20:COM7	16:COM3
			-4.678	0.000	-2.095	0.000	-1.532	0.000
			26:COM1	-	22:COM9	-	30:COM1	-
	3286	-ve	7.691	54.685	1.339	7.912	1.106	85.873
			16:COM3	16:COM3	28:COM1	32:CVOL1	28:COM1	16:COM3
			-4.678	0.000	-2.095	0.000	-1.901	-31.105
			26:COM1	-	22:COM9	-	22:COM9	26:COM1
7651	3218	+ve	13.534	57.850	0.966	9.839	1.733	193.954
			16:COM3	16:COM3	28:COM1	16:COM3	20:COM7	16:COM3
			-11.375	0.000	-1.844	0.000	-0.993	-0.278
			26:COM1	-	22:COM9	-	30:COM1	26:COM1
	3292	-ve	13.534	55.120	0.966	9.839	0.920	82.555
			16:COM3	16:COM3	28:COM1	16:COM3	28:COM1	16:COM3
			-11.375	0.000	-1.844	0.000	-1.912	-33.358
			26:COM1	-	22:COM9	-	22:COM9	26:COM1
7652	3231	+ve	20.576	40.614	1.292	8.890	0.000	133.360
			20:COM7	16:COM3	20:COM7	16:COM3	-	16:COM3
			-15.557	0.000	0.000	0.000	-1.317	-15.992
			30:COM1	-	-	-	22:COM9	26:COM1
	3410	-ve	20.576	38.338	1.292	8.890	1.241	55.451
			20:COM7	16:COM3	20:COM7	16:COM3	20:COM7	16:COM3
			-15.557	0.000	0.000	0.000	0.000	-27.504
			30:COM1	-	-	-	-	26:COM1

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
7653	3219	+ve	59.440	227.635	3.296	12.749	3.697	574.541
			16:COM3	16:COM3	28:COM15	28:COM15	24:COM11	24:COM11
			-52.270	-216.451	-3.524	-16.228	-3.583	-570.195
			26:COM13	26:COM13	22:COM9	22:COM9	18:COM5	18:COM5
	3331	-ve	59.440	223.536	3.296	12.749	3.342	130.519
			16:COM3	16:COM3	28:COM15	28:COM15	28:COM15	24:COM11
			-52.270	-219.525	-3.524	-16.228	-3.678	-141.178
			26:COM13	26:COM13	22:COM9	22:COM9	22:COM9	18:COM5
7654	3209	+ve	25.770	21.531	7.133	8.147	4.407	23.544
			24:COM11	20:COM7	20:COM7	16:COM3	20:COM7	20:COM7
			-50.841	-9.528	-7.182	-6.638	-3.459	-13.359
			18:COM5	30:COM17	30:COM17	26:COM13	30:COM17	30:COM17
	3333	-ve	25.770	20.099	7.133	8.147	1.747	12.194
			24:COM11	20:COM7	20:COM7	16:COM3	20:COM7	16:COM3
			-50.841	-10.601	-7.182	-6.638	-0.833	-9.422
			18:COM5	30:COM17	30:COM17	26:COM13	30:COM17	26:COM13
7655	3206	+ve	18.929	72.207	1.621	24.056	3.606	202.046
			20:COM7	20:COM7	24:COM11	16:COM3	16:COM3	28:COM15
			-10.498	-58.033	-2.391	-11.917	-2.527	-203.685
			30:COM17	30:COM17	18:COM5	26:COM13	26:COM13	22:COM9
	3281	-ve	18.929	68.256	1.621	24.056	2.104	10.140
			20:COM7	20:COM7	24:COM11	16:COM3	24:COM11	28:COM15
			-10.498	-60.995	-2.391	-11.917	-3.224	-42.371
			30:COM17	30:COM17	18:COM5	26:COM13	18:COM5	22:COM9
7656	3210	+ve	18.406	58.931	5.910	5.559	6.903	90.337
			24:COM11	16:COM3	24:COM11	16:COM3	16:COM3	16:COM3
			-33.852	-51.368	-7.693	-5.148	-5.240	-65.088
			18:COM5	26:COM13	18:COM5	26:COM13	26:COM13	26:COM13
	3220	-ve	18.406	54.867	5.910	5.559	6.406	44.631
			24:COM11	16:COM3	24:COM11	16:COM3	24:COM11	16:COM3
			-33.852	-54.416	-7.693	-5.148	-8.234	-27.226
			18:COM5	26:COM13	18:COM5	26:COM13	18:COM5	26:COM13
7657	3209	+ve	3.020	26.385	0.918	8.844	0.956	20.703
			28:COM15	28:COM15	20:COM7	20:COM7	28:COM15	28:COM15
			-15.840	-30.897	-0.725	-7.873	-1.250	-24.340
			22:COM9	22:COM9	30:COM17	30:COM17	22:COM9	22:COM9
	3208	-ve	3.020	24.827	0.918	8.844	0.825	47.526
			28:COM15	28:COM15	20:COM7	20:COM7	20:COM7	20:COM7
			-15.840	-32.973	-0.725	-7.873	-0.684	-36.920
			22:COM9	22:COM9	30:COM17	30:COM17	30:COM17	30:COM17
7660	3208	+ve	15.226	61.156	0.664	3.492	0.683	152.370
			20:COM7	20:COM7	16:COM3	28:COM15	16:COM3	20:COM7
			-13.342	-45.427	-0.677	-5.740	-0.632	-133.293
			30:COM17	30:COM17	26:COM13	22:COM9	26:COM13	30:COM17
	3342	-ve	15.226	58.859	0.664	3.492	1.030	6.275
			20:COM7	20:COM7	16:COM3	28:COM15	16:COM3	28:COM15
			-13.342	-47.150	-0.677	-5.740	-1.012	-21.357
			30:COM17	30:COM17	26:COM13	22:COM9	26:COM13	22:COM9

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
7661	3216	+ve	18.957	96.710	1.230	8.843	5.330	156.367
			20:COM7	16:COM3	24:COM11	20:COM7	16:COM3	16:COM3
			-2.704	0.000	-3.670	0.000	-1.660	0.000
			30:COM17	-	18:COM5	-	26:COM13	-
	3318	-ve	18.957	93.187	1.230	8.843	1.324	18.119
			20:COM7	16:COM3	24:COM11	20:COM7	28:COM15	24:COM17
			-2.704	0.000	-3.670	0.000	-2.624	-37.125
			30:COM17	-	18:COM5	-	22:COM9	18:COM5
7662	3222	+ve	49.644	55.417	0.969	6.066	0.756	36.874
			20:COM7	28:COM15	28:COM15	16:COM3	20:COM7	28:COM15
			-45.406	-73.297	-0.986	-0.406	-0.486	-45.050
			30:COM17	22:COM9	22:COM9	26:COM13	30:COM17	22:COM9
	3320	-ve	49.644	52.745	0.969	6.066	1.543	109.594
			20:COM7	28:COM15	28:COM15	16:COM3	20:COM7	20:COM7
			-45.406	-76.860	-0.986	-0.406	-1.308	-74.521
			30:COM17	22:COM9	22:COM9	26:COM13	30:COM17	30:COM17
7663	3319	+ve	69.956	118.932	3.797	8.508	2.556	213.130
			20:COM7	20:COM7	20:COM7	20:COM7	28:COM15	20:COM7
			-52.246	-80.511	-2.932	-5.139	-4.078	-190.112
			30:COM17	30:COM17	30:COM17	30:COM17	22:COM9	30:COM17
	3322	-ve	69.956	115.495	3.797	8.508	3.480	0.000
			20:COM7	20:COM7	20:COM7	20:COM7	28:COM15	-
			-52.246	-83.089	-2.932	-5.139	-3.284	-38.753
			30:COM17	30:COM17	30:COM17	30:COM17	22:COM9	22:COM9
7664	3207	+ve	7.792	29.754	0.208	14.405	0.742	76.201
			20:COM7	20:COM7	24:COM11	16:COM3	16:COM3	20:COM7
			-6.092	0.000	-0.375	-12.257	-0.421	0.000
			30:COM17	-	18:COM5	26:COM13	26:COM13	-
	3555	-ve	7.792	21.100	0.208	14.405	0.223	1.287
			20:COM7	20:COM7	24:COM11	16:COM3	24:COM11	24:COM17
			-6.092	0.000	-0.375	-12.257	-0.411	-2.914
			30:COM17	-	18:COM5	26:COM13	18:COM5	18:COM5
7665	3232	+ve	23.676	37.132	2.161	5.793	0.283	104.400
			20:COM7	16:COM3	16:COM3	16:COM3	24:COM11	16:COM3
			-19.531	0.000	-1.023	-4.128	-1.419	-8.138
			30:COM17	-	26:COM13	26:COM13	18:COM5	26:COM13
	3416	-ve	23.676	34.858	2.161	5.793	3.062	33.469
			20:COM7	16:COM3	16:COM3	16:COM3	16:COM3	16:COM3
			-19.531	0.000	-1.023	-4.128	-1.954	-12.996
			30:COM17	-	26:COM13	26:COM13	26:COM13	26:COM13
7666	3235	+ve	0.000	19.536	0.000	0.949	2.198	21.936
			-	20:COM7	-	16:COM3	34:CVOL3	20:COM7
			-22.912	-1.379	-0.470	-0.533	0.000	-1.559
			18:COM5	30:COM17	22:COM9	26:COM13	-	30:COM17
	3241	-ve	0.000	12.286	0.000	0.949	1.418	7.823
			-	20:COM7	-	16:COM3	20:COM7	28:COM15
			-22.912	-6.066	-0.470	-0.533	0.000	-17.917
			18:COM5	30:COM17	22:COM9	26:COM13	-	22:COM9

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
7667	3236	+ve	10.957	64.595	0.473	1.619	0.159	80.224
			16:COM3	28:COM15	28:COM15	20:COM7	24:COM11	28:COM15
			0.000	-79.466	-0.516	-1.722	-0.318	-97.903
			-	22:COM9	22:COM9	30:COM17	18:COM5	22:COM9
	3242	-ve	10.957	60.340	0.473	1.619	1.010	109.105
			16:COM3	28:COM15	28:COM15	20:COM7	28:COM15	20:COM7
			0.000	-86.140	-0.516	-1.722	-1.276	-75.945
			-	22:COM9	22:COM9	30:COM17	22:COM9	30:COM17
7668	3237	+ve	10.901	63.382	0.036	3.073	0.206	77.258
			20:COM7	28:COM15	28:COM15	20:COM7	20:COM7	28:COM15
			0.000	-73.244	-0.131	-1.066	-0.117	-95.162
			-	22:COM9	22:COM9	30:COM17	30:COM17	22:COM9
	3243	-ve	10.901	59.127	0.036	3.073	0.025	96.290
			20:COM7	28:COM15	28:COM15	20:COM7	28:COM15	20:COM7
			0.000	-79.917	-0.131	-1.066	-0.173	-75.879
			-	22:COM9	22:COM9	30:COM17	22:COM9	30:COM17
7669	3238	+ve	8.990	60.028	0.146	1.150	0.199	73.177
			20:COM7	28:COM15	20:COM7	24:COM17	28:COM15	28:COM15
			0.000	-62.703	-0.080	-1.891	-0.255	-80.336
			-	22:COM9	30:COM17	18:COM5	22:COM9	22:COM9
	3244	-ve	8.990	55.773	0.146	1.150	0.126	84.764
			20:COM7	28:COM15	20:COM7	24:COM17	20:COM7	20:COM7
			0.000	-69.376	-0.080	-1.891	-0.017	-71.575
			-	22:COM9	30:COM17	18:COM5	30:COM17	30:COM17
7670	3239	+ve	16.189	82.623	0.658	2.726	0.553	101.818
			20:COM7	28:COM15	16:COM3	24:COM17	16:COM3	28:COM15
			-2.821	-102.420	-0.642	-4.009	-0.520	-130.962
			30:COM17	22:COM9	26:COM13	18:COM5	26:COM13	22:COM9
	3245	-ve	16.189	78.368	0.658	2.726	1.172	133.453
			20:COM7	28:COM15	16:COM3	24:COM17	16:COM3	20:COM7
			-2.821	-109.093	-0.642	-4.009	-1.100	-99.444
			30:COM17	22:COM9	26:COM13	18:COM5	26:COM13	30:COM17
7671	3240	+ve	0.000	5.978	0.228	0.496	0.214	4.957
			-	20:COM7	20:COM7	24:COM17	20:COM7	20:COM7
			-18.115	-1.384	-0.213	-0.738	-0.208	-2.755
			18:COM5	30:COM17	30:COM17	18:COM5	30:COM17	30:COM17
	3246	-ve	0.000	0.769	0.228	0.496	0.378	7.056
			-	28:COM15	20:COM7	24:COM17	20:COM7	20:COM7
			-18.115	-7.103	-0.213	-0.738	-0.337	-2.678
			18:COM5	22:COM9	30:COM17	18:COM5	30:COM17	30:COM17
7672	3241	+ve	0.000	53.736	2.930	20.072	5.432	34.668
			-	20:COM7	24:COM11	20:COM7	16:COM3	20:COM7
			-21.352	-31.176	-7.950	0.000	-2.799	-17.073
			22:COM9	30:COM17	18:COM5	-	26:COM13	30:COM17
	3216	-ve	0.000	48.951	2.930	20.072	2.113	36.934
			-	20:COM7	24:COM11	20:COM7	24:COM11	28:COM15
			-21.352	-34.269	-7.950	0.000	-7.761	-50.063
			22:COM9	30:COM17	18:COM5	-	18:COM5	22:COM9

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
7673	3242	+ve	0.000	40.490	1.352	16.327	1.113	51.112
			-	28:COM15	28:COM15	28:COM15	16:COM3	20:COM7
			-22.227	-39.334	-1.891	-20.472	-0.637	-41.810
			22:COM9	22:COM9	22:COM9	22:COM9	26:COM13	30:COM17
	3217	-ve	0.000	37.682	1.352	16.327	1.725	28.777
			-	28:COM15	28:COM15	28:COM15	28:COM15	20:COM7
			-22.227	-43.738	-1.891	-20.472	-2.138	-15.433
			22:COM9	22:COM9	22:COM9	22:COM9	22:COM9	30:COM17
7674	3243	+ve	0.000	54.713	0.000	1.346	0.734	59.445
			-	20:COM7	-	24:COM17	20:COM7	20:COM7
			-35.773	-44.868	-0.841	-6.928	0.000	-44.451
			22:COM9	30:COM17	22:COM9	18:COM5	-	30:COM17
	3221	-ve	0.000	50.559	0.000	1.346	0.000	33.555
			-	28:COM15	-	24:COM17	-	20:COM7
			-35.773	-47.927	-0.841	-6.928	-0.689	-28.854
			22:COM9	22:COM9	22:COM9	18:COM5	22:COM9	30:COM17
7675	3244	+ve	0.000	35.360	0.394	5.596	0.058	42.838
			-	28:COM15	16:COM3	24:COM17	28:COM15	28:COM15
			-38.195	-49.533	-0.026	-6.475	-0.378	-47.143
			22:COM9	22:COM9	26:COM13	18:COM5	22:COM9	22:COM9
	3218	-ve	0.000	32.552	0.394	5.596	0.304	38.221
			-	28:COM15	16:COM3	24:COM17	20:COM7	20:COM7
			-38.195	-53.937	-0.026	-6.475	-0.017	-13.190
			22:COM9	22:COM9	26:COM13	18:COM5	30:COM17	30:COM17
7676	3245	+ve	0.000	79.860	1.503	29.718	0.875	79.340
			-	20:COM7	16:COM3	16:COM3	24:COM11	20:COM7
			-34.410	-67.055	-1.195	-22.576	-1.175	-62.579
			18:COM5	30:COM17	26:COM13	26:COM13	18:COM5	30:COM17
	3219	-ve	0.000	75.456	1.503	29.718	1.427	51.411
			-	20:COM7	16:COM3	16:COM3	16:COM3	20:COM7
			-34.410	-69.864	-1.195	-22.576	-1.218	-49.827
			18:COM5	30:COM17	26:COM13	26:COM13	26:COM13	30:COM17
7677	3246	+ve	6.174	3.859	6.578	7.202	6.150	2.708
			28:COM15	24:COM11	24:COM11	24:COM17	16:COM3	24:COM17
			-28.410	-17.249	-7.734	-10.126	-5.395	-10.980
			22:COM9	18:COM5	18:COM5	18:COM5	26:COM13	18:COM5
	3220	-ve	6.174	1.051	6.578	7.202	5.465	21.155
			28:COM15	24:COM11	24:COM11	24:COM17	24:COM11	16:COM3
			-28.410	-21.653	-7.734	-10.126	-6.618	-1.383
			22:COM9	18:COM5	18:COM5	18:COM5	18:COM5	26:COM13
7678	3247	+ve	12.963	92.317	0.116	2.062	0.616	146.234
			28:COM15	20:COM7	28:COM15	28:COM15	28:COM15	28:COM15
			-19.273	-90.876	-0.167	-2.745	-0.605	-151.436
			22:COM9	30:COM17	22:COM9	22:COM9	22:COM9	22:COM9
	3252	-ve	12.963	85.627	0.116	2.062	0.099	173.244
			28:COM15	28:COM15	28:COM15	28:COM15	28:COM15	20:COM7
			-19.273	-100.421	-0.167	-2.745	-0.263	-155.745
			22:COM9	22:COM9	22:COM9	22:COM9	22:COM9	30:COM17

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
7679	3248	+ve	0.000	59.562	0.099	0.883	0.179	95.437
			-	20:COM7	28:COM15	24:COM17	28:COM15	20:COM7
			-5.669	-48.253	-0.128	-0.885	-0.196	-84.273
			22:COM9	30:COM17	22:COM9	18:COM5	22:COM9	30:COM17
	3253	-ve	0.000	50.874	0.099	0.883	0.155	89.624
			-	28:COM15	28:COM15	24:COM17	28:COM15	28:COM15
			-5.669	-54.427	-0.128	-0.885	-0.269	-91.645
			22:COM9	22:COM9	22:COM9	18:COM5	22:COM9	22:COM9
7680	3249	+ve	0.000	58.631	0.035	0.810	0.031	94.280
			-	20:COM7	20:COM7	24:COM17	28:COM15	20:COM7
			-7.353	-48.039	-0.032	-0.968	-0.068	-83.981
			22:COM9	30:COM17	30:COM17	18:COM5	22:COM9	30:COM17
	3254	-ve	0.000	50.145	0.035	0.810	0.073	89.190
			-	28:COM15	20:COM7	24:COM17	28:COM15	28:COM15
			-7.353	-54.415	-0.032	-0.968	-0.100	-89.638
			22:COM9	22:COM9	30:COM17	18:COM5	22:COM9	22:COM9
7681	3250	+ve	0.000	62.649	0.078	0.738	0.114	100.761
			-	20:COM7	20:COM7	24:COM17	28:COM15	20:COM7
			-6.384	-50.242	-0.069	-1.151	-0.165	-87.574
			22:COM9	30:COM17	30:COM17	18:COM5	22:COM9	30:COM17
	3255	-ve	0.000	53.731	0.078	0.738	0.122	93.087
			-	28:COM15	20:COM7	24:COM17	24:COM11	28:COM15
			-6.384	-56.186	-0.069	-1.151	-0.141	-96.818
			22:COM9	22:COM9	30:COM17	18:COM5	18:COM5	22:COM9
7682	3251	+ve	8.631	95.367	0.311	2.164	0.606	149.309
			28:COM15	20:COM7	24:COM11	16:COM3	16:COM3	20:COM7
			-10.590	-87.939	-0.349	-0.858	-0.542	-144.287
			22:COM9	30:COM17	18:COM5	26:COM13	26:COM13	30:COM17
	3256	-ve	8.631	87.358	0.311	2.164	0.537	167.049
			28:COM15	28:COM15	24:COM11	16:COM3	24:COM11	20:COM7
			-10.590	-96.164	-0.349	-0.858	-0.601	-159.684
			22:COM9	22:COM9	18:COM5	26:COM13	18:COM5	30:COM17
7683	3252	+ve	3.835	82.119	0.067	17.567	0.672	97.235
			28:COM15	28:COM15	24:COM11	16:COM3	16:COM3	28:COM15
			-40.503	-107.231	-0.707	-4.153	-0.048	-105.982
			22:COM9	22:COM9	18:COM5	26:COM13	26:COM13	22:COM9
	3224	-ve	3.835	78.838	0.067	17.567	0.108	86.141
			28:COM15	28:COM15	24:COM11	16:COM3	24:COM11	20:COM7
			-40.503	-112.306	-0.707	-4.153	-0.603	-43.630
			22:COM9	22:COM9	18:COM5	26:COM13	18:COM5	30:COM17
7684	3253	+ve	0.000	37.336	0.363	10.837	0.526	45.455
			-	28:COM15	24:COM11	24:COM17	16:COM3	28:COM15
			-22.181	-65.753	-0.553	-13.110	-0.256	-63.127
			22:COM9	22:COM9	18:COM5	18:COM5	26:COM13	22:COM9
	3225	-ve	0.000	34.358	0.363	10.837	0.387	56.032
			-	28:COM15	24:COM11	24:COM17	24:COM11	20:COM7
			-22.181	-70.424	-0.553	-13.110	-0.449	-17.282
			22:COM9	22:COM9	18:COM5	18:COM5	18:COM5	30:COM17

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
7685	3254	+ve	0.000	37.168	0.272	10.703	0.467	45.525
			-	28:COM15	24:COM11	24:COM11	16:COM3	28:COM15
			-26.851	-66.876	-0.542	-12.330	-0.237	-63.636
			22:COM9	22:COM9	18:COM5	18:COM5	26:COM13	22:COM9
	3226	-ve	0.000	34.189	0.272	10.703	0.248	57.484
			-	28:COM15	24:COM11	24:COM11	24:COM11	20:COM7
			-26.851	-71.547	-0.542	-12.330	-0.490	-16.913
			22:COM9	22:COM9	18:COM5	18:COM5	18:COM5	30:COM17
7686	3255	+ve	0.000	39.298	0.368	11.375	0.478	47.703
			-	28:COM15	24:COM11	24:COM11	16:COM3	28:COM15
			-29.666	-69.131	-0.483	-12.367	-0.295	-66.651
			22:COM9	22:COM9	18:COM5	18:COM5	26:COM13	22:COM9
	3227	-ve	0.000	36.320	0.368	11.375	0.362	58.421
			-	28:COM15	24:COM11	24:COM11	24:COM11	20:COM7
			-29.666	-73.802	-0.483	-12.367	-0.381	-18.467
			22:COM9	22:COM9	18:COM5	18:COM5	18:COM5	30:COM17
7687	3256	+ve	9.454	80.555	0.931	5.758	0.633	95.057
			28:COM15	28:COM15	16:COM3	24:COM11	24:COM11	28:COM15
			-48.203	-113.562	-0.849	-18.888	-0.810	-111.814
			22:COM9	22:COM9	26:COM13	18:COM5	18:COM5	22:COM9
	3228	-ve	9.454	77.274	0.931	5.758	0.848	91.403
			28:COM15	28:COM15	16:COM3	24:COM11	24:COM11	20:COM7
			-48.203	-118.637	-0.849	-18.888	-0.883	-43.086
			22:COM9	22:COM9	26:COM13	18:COM5	18:COM5	30:COM17
7688	3268	+ve	0.000	0.543	0.135	0.299	0.000	0.037
			-	32:CVOL1	32:CVOL1	20:COM7	-	24:COM11
			-4.856	-1.112	0.000	0.000	-0.202	-0.354
			34:CVOL3	35:CVOL4	-	-	32:CVOL1	18:COM5
	3269	-ve	0.000	0.000	0.135	0.299	0.214	10.020
			-	-	32:CVOL1	20:COM7	32:CVOL1	32:CVOL1
			-4.856	-7.169	0.000	0.000	0.000	0.000
			34:CVOL3	32:CVOL1	-	-	-	-
7689	3268	+ve	1.648	1.112	4.391	0.374	0.000	0.267
			32:CVOL1	35:CVOL4	32:CVOL1	16:COM3	-	20:COM7
			0.000	-0.543	0.000	0.000	-0.160	-0.033
			-	32:CVOL1	-	-	32:CVOL1	30:COM17
	3486	-ve	1.648	0.900	4.391	0.374	0.737	0.250
			32:CVOL1	35:CVOL4	32:CVOL1	16:COM3	32:CVOL1	32:CVOL1
			0.000	-0.790	0.000	0.000	0.000	-0.029
			-	32:CVOL1	-	-	-	35:CVOL4
7690	3263	+ve	0.000	13.682	0.000	0.893	0.327	52.222
			-	20:COM7	-	20:COM7	34:CVOL3	20:COM7
			-18.894	0.000	-0.308	-0.108	0.000	0.000
			22:COM9	-	34:CVOL3	30:COM17	-	-
	3450	-ve	0.000	11.624	0.000	0.893	0.000	27.117
			-	20:COM7	-	20:COM7	-	20:COM7
			-18.894	0.000	-0.308	-0.108	-0.283	-0.883
			22:COM9	-	34:CVOL3	30:COM17	34:CVOL3	30:COM17

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
7691	3262	+ve	0.000	9.058	0.100	1.342	0.000	21.622
			-	20:COM7	20:COM7	16:COM3	-	20:COM7
			-3.425	0.000	0.000	0.000	-0.095	0.000
			22:COM9	-	-	-	22:COM9	-
	3456	-ve	0.000	7.107	0.100	1.342	0.094	7.842
			-	20:COM7	20:COM7	16:COM3	20:COM7	34:CVOL3
			-3.425	0.000	0.000	0.000	-0.006	0.000
			22:COM9	-	-	-	30:COM1	-
7692	3263	+ve	17.286	0.000	0.000	10.768	10.399	0.000
			20:COM7	-	-	20:COM7	34:CVOL3	-
			0.000	-23.295	-6.250	-6.882	0.000	-1.356
			-	22:COM9	34:CVOL3	30:COM1	-	34:CVOL3
	3233	-ve	17.286	0.000	0.000	10.768	0.000	83.408
			20:COM7	-	-	20:COM7	-	20:COM7
			0.000	-32.151	-6.250	-6.882	-8.687	0.000
			-	22:COM9	34:CVOL3	30:COM1	34:CVOL3	-
7693	3262	+ve	4.619	0.000	0.068	3.986	0.117	0.000
			20:COM7	-	24:COM1	28:COM1	16:COM3	-
			0.000	-15.886	-0.078	-4.451	-0.078	-2.232
			-	34:CVOL3	18:COM5	22:COM9	26:COM1	34:CVOL3
	3229	-ve	4.619	0.000	0.068	3.986	0.136	59.850
			20:COM7	-	24:COM1	28:COM1	20:COM7	34:CVOL3
			0.000	-24.771	-0.078	-4.451	-0.129	0.000
			-	34:CVOL3	18:COM5	22:COM9	30:COM1	-
7694	3269	+ve	1.140	10.146	0.003	0.133	0.001	12.221
			24:COM1	32:CVOL1	16:COM3	16:COM3	24:COM1	20:COM7
			-2.778	0.000	-0.003	-0.078	-0.022	0.000
			18:COM5	-	26:COM1	26:COM1	18:COM5	-
	3270	-ve	1.140	0.000	0.003	0.133	0.002	14.112
			24:COM1	-	16:COM3	16:COM3	24:COM1	20:COM7
			-2.778	-10.666	-0.003	-0.078	-0.020	0.000
			18:COM5	32:CVOL1	26:COM1	26:COM1	18:COM5	-
7695	3233	+ve	171.433	80.264	0.000	4.025	4.789	357.851
			34:CVOL3	34:CVOL3	-	28:COM1	16:COM3	34:CVOL3
			0.000	0.000	-3.068	-2.517	0.000	0.000
			-	-	18:COM5	22:COM9	-	-
	3418	-ve	171.433	77.439	0.000	4.025	1.161	229.095
			34:CVOL3	34:CVOL3	-	28:COM1	20:COM7	34:CVOL3
			0.000	0.000	-3.068	-2.517	-0.733	0.000
			-	-	18:COM5	22:COM9	30:COM1	-
7696	3270	+ve	0.000	10.399	0.000	0.000	0.346	11.507
			-	32:CVOL1	-	-	32:CVOL1	32:CVOL1
			-2.184	0.000	-0.443	-2.028	0.000	0.000
			18:COM5	-	32:CVOL1	22:COM9	-	-
	3271	-ve	0.000	6.223	0.000	0.000	0.000	1.047
			-	32:CVOL1	-	-	-	34:CVOL3
			-2.184	0.000	-0.443	-2.028	-0.230	0.000
			18:COM5	-	32:CVOL1	22:COM9	22:COM9	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
7697	3224	+ve	2.235	27.572	0.352	18.593	0.211	57.323
			20:COM7	16:COM3	16:COM3	16:COM3	24:COM11	16:COM3
			-1.704	0.000	-0.128	-3.732	-0.456	0.000
			30:COM17	-	26:COM13	26:COM13	18:COM5	-
	3257	-ve	2.235	20.467	0.352	18.593	0.409	0.000
			20:COM7	16:COM3	16:COM3	16:COM3	16:COM3	-
			-1.704	0.000	-0.128	-3.732	-0.104	-1.666
			30:COM17	-	26:COM13	26:COM13	26:COM13	22:COM9
7698	3225	+ve	3.185	21.153	0.076	12.631	0.119	41.832
			20:COM7	35:CVOL4	16:COM3	24:COM17	28:COM15	35:CVOL4
			-1.726	0.000	-0.036	-15.863	-0.236	0.000
			30:COM17	-	26:COM13	18:COM5	22:COM9	-
	3258	-ve	3.185	14.177	0.076	12.631	0.116	0.000
			20:COM7	33:CVOL2	16:COM3	24:COM17	28:COM15	-
			-1.726	0.000	-0.036	-15.863	-0.134	-1.269
			30:COM17	-	26:COM13	18:COM5	22:COM9	34:CVOL3
7699	3226	+ve	4.159	21.722	0.018	12.451	0.084	43.245
			20:COM7	35:CVOL4	24:COM11	24:COM17	20:COM7	35:CVOL4
			-1.856	0.000	-0.067	-14.189	-0.005	0.000
			30:COM17	-	18:COM5	18:COM5	30:COM17	-
	3259	-ve	4.159	14.700	0.018	12.451	0.048	0.000
			20:COM7	20:COM7	24:COM11	24:COM17	24:COM11	-
			-1.856	0.000	-0.067	-14.189	-0.090	-1.244
			30:COM17	-	18:COM5	18:COM5	18:COM5	34:CVOL3
7700	3227	+ve	4.567	21.259	0.076	13.705	0.208	42.090
			20:COM7	35:CVOL4	28:COM15	24:COM17	20:COM7	35:CVOL4
			-2.709	0.000	-0.080	-14.225	-0.199	0.000
			30:COM17	-	22:COM9	18:COM5	30:COM17	-
	3260	-ve	4.567	14.259	0.076	13.705	0.066	0.000
			20:COM7	33:CVOL2	28:COM15	24:COM17	24:COM11	-
			-2.709	0.000	-0.080	-14.225	-0.066	-1.269
			30:COM17	-	22:COM9	18:COM5	18:COM5	34:CVOL3
7701	3228	+ve	4.180	27.903	0.254	2.146	0.857	58.534
			20:COM7	16:COM3	28:COM15	24:COM17	20:COM7	16:COM3
			-2.524	0.000	-0.452	-20.021	-0.517	0.000
			30:COM17	-	22:COM9	18:COM5	30:COM17	-
	3261	-ve	4.180	20.799	0.254	2.146	0.134	0.000
			20:COM7	16:COM3	28:COM15	24:COM17	28:COM15	-
			-2.524	0.000	-0.452	-20.021	-0.279	-1.346
			30:COM17	-	22:COM9	18:COM5	22:COM9	22:COM9
7702	3257	+ve	3.369	10.699	0.003	0.000	0.086	40.633
			20:COM7	16:COM3	28:COM15	-	20:COM7	16:COM3
			-2.339	0.000	-0.094	-1.016	0.000	0.000
			30:COM17	-	22:COM9	18:COM5	-	-
	3344	-ve	3.369	8.793	0.003	0.000	0.008	21.746
			20:COM7	16:COM3	28:COM15	-	28:COM15	16:COM3
			-2.339	0.000	-0.094	-1.016	-0.100	-6.148
			30:COM17	-	22:COM9	18:COM5	22:COM9	26:COM13

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
7703	3258	+ve	9.702	7.208	0.002	0.332	0.103	20.302
			28:COM15	33:CVOL2	24:COM11	24:COM11	16:COM3	16:COM3
			-12.037	0.000	-0.106	-1.054	-0.003	0.000
			22:COM9	-	18:COM5	18:COM5	26:COM13	-
	3349	-ve	9.702	5.247	0.002	0.332	0.001	9.529
			28:COM15	20:COM7	24:COM11	24:COM11	24:COM11	16:COM3
			-12.037	0.000	-0.106	-1.054	-0.104	-4.324
			22:COM9	-	18:COM5	18:COM5	18:COM5	26:COM13
7704	3259	+ve	13.906	7.376	0.007	0.242	0.125	21.580
			28:COM15	20:COM7	24:COM11	24:COM11	20:COM7	16:COM3
			-18.065	0.000	-0.122	-1.058	-0.011	0.000
			22:COM9	-	18:COM5	18:COM5	30:COM17	-
	3354	-ve	13.906	5.470	0.007	0.242	0.005	10.298
			28:COM15	20:COM7	24:COM11	24:COM11	24:COM11	16:COM3
			-18.065	0.000	-0.122	-1.058	-0.114	-4.492
			22:COM9	-	18:COM5	18:COM5	18:COM5	26:COM13
7705	3260	+ve	11.063	7.018	0.028	0.264	0.150	21.778
			28:COM15	33:CVOL2	28:COM15	24:COM11	20:COM7	16:COM3
			-14.088	0.000	-0.139	-1.189	-0.042	0.000
			22:COM9	-	22:COM9	18:COM5	30:COM17	-
	3359	-ve	11.063	5.086	0.028	0.264	0.017	10.527
			28:COM15	20:COM7	28:COM15	24:COM11	24:COM11	16:COM3
			-14.088	0.000	-0.139	-1.189	-0.124	-5.819
			22:COM9	-	22:COM9	18:COM5	18:COM5	26:COM13
7706	3261	+ve	1.278	10.360	0.024	0.189	0.121	39.248
			24:COM11	16:COM3	28:COM15	28:COM15	20:COM7	16:COM3
			-2.254	0.000	-0.114	-0.311	-0.026	0.000
			18:COM5	-	22:COM9	22:COM9	30:COM17	-
	3364	-ve	1.278	8.346	0.024	0.189	0.023	21.093
			24:COM11	16:COM3	28:COM15	28:COM15	28:COM15	34:CVOL3
			-2.254	0.000	-0.114	-0.311	-0.114	0.000
			18:COM5	-	22:COM9	22:COM9	22:COM9	-
7707	3270	+ve	15.808	0.000	0.000	3.628	3.628	0.000
			32:CVOL1	-	-	28:COM15	20:COM7	-
			0.000	-21.066	-3.469	-3.993	0.000	-5.626
			-	32:CVOL1	22:COM9	22:COM9	-	22:COM9
	3479	-ve	15.808	0.000	0.000	3.628	0.000	40.514
			32:CVOL1	-	-	28:COM15	-	32:CVOL1
			0.000	-25.800	-3.469	-3.993	-3.155	0.000
			-	32:CVOL1	22:COM9	22:COM9	22:COM9	-
7708	3264	+ve	0.921	8.182	0.098	0.800	0.000	35.330
			24:COM11	32:CVOL1	16:COM3	16:COM3	-	16:COM3
			-1.673	0.000	0.000	0.000	-0.106	0.000
			18:COM5	-	-	-	18:COM5	-
	3424	-ve	0.921	6.170	0.098	0.800	0.089	21.956
			24:COM11	32:CVOL1	16:COM3	16:COM3	16:COM3	16:COM3
			-1.673	0.000	0.000	0.000	0.000	-7.187
			18:COM5	-	-	-	-	26:COM13

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
7709	3265	+ve	8.594	7.694	0.141	0.958	0.014	26.314
			20:COM7	16:COM3	16:COM3	16:COM3	24:COM11	16:COM3
			-8.333	0.000	-0.014	-0.216	-0.145	0.000
			30:COM17	-	26:COM13	26:COM13	18:COM5	-
	3430	-ve	8.594	5.980	0.141	0.958	0.133	18.685
			20:COM7	16:COM3	16:COM3	16:COM3	16:COM3	16:COM3
			-8.333	0.000	-0.014	-0.216	-0.014	-7.415
			30:COM17	-	26:COM13	26:COM13	26:COM13	26:COM13
7710	3266	+ve	12.537	10.640	0.100	0.253	0.035	20.550
			20:COM7	16:COM3	20:COM7	16:COM3	28:COM15	20:COM7
			-12.229	0.000	-0.015	-0.025	-0.126	0.000
			30:COM17	-	30:COM17	26:COM13	22:COM9	-
	3433	-ve	12.537	8.927	0.100	0.253	0.074	11.856
			20:COM7	16:COM3	20:COM7	16:COM3	20:COM7	16:COM3
			-12.229	0.000	-0.015	-0.025	0.000	-2.031
			30:COM17	-	30:COM17	26:COM13	-	26:COM13
7711	3267	+ve	4.715	5.744	0.378	12.019	0.271	0.764
			20:COM7	24:COM11	16:COM3	24:COM11	16:COM3	24:COM11
			-2.482	-22.179	-0.358	-18.822	-0.213	-1.432
			30:COM17	18:COM5	26:COM13	18:COM5	26:COM13	18:COM5
	3234	-ve	4.715	3.616	0.378	12.019	0.364	28.417
			20:COM7	24:COM11	16:COM3	24:COM11	16:COM3	16:COM3
			-2.482	-25.517	-0.358	-18.822	-0.279	-5.115
			30:COM17	18:COM5	26:COM13	18:COM5	26:COM13	26:COM13
7712	3266	+ve	2.437	0.000	0.724	12.617	0.524	0.000
			20:COM7	-	24:COM11	16:COM3	16:COM3	-
			-1.203	-16.780	-0.894	-10.519	-0.419	-1.074
			30:COM17	18:COM5	18:COM5	26:COM13	26:COM13	18:COM5
	3232	-ve	2.437	0.000	0.724	12.617	0.491	22.696
			20:COM7	-	24:COM11	16:COM3	24:COM11	16:COM3
			-1.203	-20.118	-0.894	-10.519	-0.598	0.000
			30:COM17	18:COM5	18:COM5	26:COM13	18:COM5	-
7713	3265	+ve	1.860	0.000	0.474	17.591	0.379	0.000
			20:COM7	-	16:COM3	16:COM3	24:COM11	-
			-0.376	-13.924	-0.361	-14.717	-0.467	-1.210
			30:COM17	33:CVOL2	26:COM13	26:COM13	18:COM5	35:CVOL4
	3231	-ve	1.860	0.000	0.474	17.591	0.266	18.529
			20:COM7	-	16:COM3	16:COM3	20:COM7	33:CVOL2
			-0.376	-17.235	-0.361	-14.717	-0.213	0.000
			30:COM17	33:CVOL2	26:COM13	26:COM13	30:COM17	-
7714	3264	+ve	1.892	0.000	0.304	6.801	0.254	0.000
			20:COM7	-	24:COM11	24:COM11	16:COM3	-
			-0.971	-15.799	-0.404	-9.393	-0.199	-0.973
			30:COM17	18:COM5	18:COM5	18:COM5	26:COM13	22:COM9
	3230	-ve	1.892	0.000	0.304	6.801	0.310	20.961
			20:COM7	-	24:COM11	24:COM11	28:COM15	16:COM3
			-0.971	-19.137	-0.404	-9.393	-0.380	0.000
			30:COM17	18:COM5	18:COM5	18:COM5	22:COM9	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
7715	3272	+ve	0.147	2.551	0.000	0.027	0.125	0.189
			28:COM1	34:CVOL3	-	24:COM1	16:COM3	34:CVOL3
			-0.407	0.000	-0.150	-0.116	0.000	0.000
			22:COM9	-	18:COM5	18:COM5	-	-
	3273	-ve	0.147	0.000	0.000	0.027	0.000	0.186
			28:COM1	-	-	24:COM1	-	24:COM1
			-0.407	-1.540	-0.150	-0.116	-0.077	-0.762
			22:COM9	32:CVOL1	18:COM5	18:COM5	22:COM9	18:COM5
7716	3273	+ve	0.332	6.603	0.002	0.569	0.014	0.625
			24:COM1	32:CVOL1	28:COM1	34:CVOL3	20:COM7	32:CVOL1
			-1.753	0.000	-0.004	0.000	-0.003	-1.070
			18:COM5	-	22:COM9	-	30:COM1	35:CVOL4
	3274	-ve	0.332	0.000	0.002	0.569	0.009	19.262
			24:COM1	-	28:COM1	34:CVOL3	24:COM11	32:CVOL1
			-1.753	-12.300	-0.004	0.000	-0.011	0.000
			18:COM5	32:CVOL1	22:COM9	-	18:COM5	-
7717	3234	+ve	3.838	84.955	1.437	3.759	0.548	155.394
			28:COM1	16:COM3	16:COM3	16:COM3	28:COM1	16:COM3
			-4.908	-56.963	-0.517	0.000	-1.492	-96.468
			22:COM9	26:COM1	26:COM1	-	22:COM9	26:COM1
	3435	-ve	3.838	83.013	1.437	3.759	1.155	14.202
			28:COM1	16:COM3	16:COM3	16:COM3	16:COM3	16:COM3
			-4.908	-58.420	-0.517	0.000	-0.548	0.000
			22:COM9	26:COM1	26:COM1	-	26:COM1	-
7718	3267	+ve	5.352	13.485	0.094	0.601	0.059	29.469
			28:COM1	16:COM3	20:COM7	16:COM3	28:COM1	16:COM3
			-7.679	-8.310	-0.042	0.000	-0.108	-9.183
			22:COM9	26:COM1	30:COM1	-	22:COM9	26:COM1
	3477	-ve	5.352	12.023	0.094	0.601	0.052	9.605
			28:COM1	16:COM3	20:COM7	16:COM3	20:COM7	20:COM7
			-7.679	-9.407	-0.042	0.000	-0.012	0.000
			22:COM9	26:COM1	30:COM1	-	30:COM1	-
7719	3274	+ve	1.582	7.522	0.009	0.900	0.022	15.735
			24:COM1	32:CVOL1	16:COM3	16:COM3	24:COM11	32:CVOL1
			-4.593	0.000	-0.006	0.000	-0.031	0.000
			18:COM5	-	26:COM1	-	18:COM5	-
	3550	-ve	1.582	0.000	0.009	0.900	0.016	5.872
			24:COM1	-	16:COM3	16:COM3	16:COM3	16:COM3
			-4.593	-2.905	-0.006	0.000	-0.011	-0.580
			18:COM5	32:CVOL1	26:COM1	-	26:COM1	26:COM1
7720	3220	+ve	49.351	126.154	2.455	2.191	3.246	220.952
			16:COM3	16:COM3	28:COM1	16:COM3	20:COM7	16:COM3
			-34.948	-91.932	-3.276	0.000	-2.322	-170.476
			26:COM1	26:COM1	22:COM9	-	30:COM1	26:COM1
	3335	-ve	49.351	123.826	2.455	2.191	1.853	11.745
			16:COM3	16:COM3	28:COM1	16:COM3	28:COM1	24:COM1
			-34.948	-93.677	-3.276	0.000	-2.310	-15.404
			26:COM1	26:COM1	22:COM9	-	22:COM9	18:COM5

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
7721	3276	+ve	0.000	12.958	0.000	0.419	0.056	34.427
			-	34:CVOL3	-	16:COM3	20:COM7	16:COM3
			-2.217	0.000	-0.054	-0.278	0.000	0.000
			22:COM9	-	22:COM9	26:COM1	-	-
	3438	-ve	0.000	11.138	0.000	0.419	0.000	13.822
			-	34:CVOL3	-	16:COM3	-	16:COM3
			-2.217	0.000	-0.054	-0.278	-0.050	-9.257
			22:COM9	-	22:COM9	26:COM1	22:COM9	26:COM1
7722	3278	+ve	1.136	0.000	0.951	18.100	0.463	0.000
			28:COM1	-	20:COM7	16:COM3	24:COM1	-
			-1.388	-8.584	-0.728	-17.757	-0.547	-0.847
			22:COM9	22:COM9	30:COM1	26:COM1	18:COM5	22:COM9
	3212	-ve	1.136	0.000	0.951	18.100	0.593	6.828
			28:COM1	-	20:COM7	16:COM3	20:COM7	20:COM7
			-1.388	-10.585	-0.728	-17.757	-0.510	0.000
			22:COM9	22:COM9	30:COM1	26:COM1	30:COM1	-
7723	3279	+ve	0.470	0.000	0.613	19.002	0.462	0.000
			28:COM1	-	16:COM3	16:COM3	24:COM1	-
			-0.620	-5.998	-0.280	-16.093	-0.545	-0.812
			22:COM9	22:COM9	26:COM1	26:COM1	18:COM5	22:COM9
	3213	-ve	0.470	0.000	0.613	19.002	0.382	4.701
			28:COM1	-	16:COM3	16:COM3	16:COM3	20:COM7
			-0.620	-8.000	-0.280	-16.093	-0.216	0.000
			22:COM9	22:COM9	26:COM1	26:COM1	26:COM1	-
7724	3280	+ve	1.050	0.000	0.495	21.076	0.464	0.000
			28:COM1	-	16:COM3	16:COM3	24:COM1	-
			-0.964	-8.760	-0.549	-16.294	-0.551	-0.892
			22:COM9	22:COM9	26:COM1	26:COM1	18:COM5	22:COM9
	3214	-ve	1.050	0.000	0.495	21.076	0.432	6.949
			28:COM1	-	16:COM3	16:COM3	28:COM1	20:COM7
			-0.964	-10.762	-0.549	-16.294	-0.559	0.000
			22:COM9	22:COM9	26:COM1	26:COM1	22:COM9	-
7725	3278	+ve	2.232	4.349	0.038	0.472	0.012	18.106
			28:COM1	16:COM3	20:COM7	16:COM3	28:COM1	16:COM3
			-3.907	0.000	-0.010	0.000	-0.038	-2.250
			22:COM9	-	30:COM1	-	22:COM9	26:COM1
	3490	-ve	2.232	3.675	0.038	0.472	0.036	15.301
			28:COM1	16:COM3	20:COM7	16:COM3	20:COM7	16:COM3
			-3.907	0.000	-0.010	0.000	-0.009	-7.867
			22:COM9	-	30:COM1	-	30:COM1	26:COM1
7726	3279	+ve	3.357	3.603	0.037	0.457	0.003	16.796
			28:COM1	16:COM3	16:COM3	16:COM3	24:COM1	16:COM3
			-4.310	0.000	-0.003	0.000	-0.038	-3.280
			22:COM9	-	26:COM1	-	18:COM5	26:COM1
	3370	-ve	3.357	2.929	0.037	0.457	0.035	14.795
			28:COM1	16:COM3	16:COM3	16:COM3	16:COM3	16:COM3
			-4.310	0.000	-0.003	0.000	-0.003	-8.273
			22:COM9	-	26:COM1	-	26:COM1	26:COM1

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
7727	3204	+ve	7.895	51.792	0.581	34.202	0.970	111.819
			20:COM7	34:CVOL3	20:COM7	20:COM7	28:COM15	34:CVOL3
			-4.029	0.000	-0.526	-26.008	-1.078	0.000
			30:COM17	-	30:COM17	30:COM17	22:COM9	-
	3275	-ve	7.895	44.554	0.581	34.202	0.299	0.000
			20:COM7	34:CVOL3	20:COM7	20:COM7	20:COM7	-
			-4.029	0.000	-0.526	-26.008	-0.278	-1.710
			30:COM17	-	30:COM17	30:COM17	30:COM17	22:COM9
7728	3205	+ve	6.928	60.434	0.669	16.678	0.535	155.452
			20:COM7	34:CVOL3	16:COM3	24:COM17	24:COM11	34:CVOL3
			0.000	0.000	-0.661	-19.069	-0.532	0.000
			-	-	26:COM13	18:COM5	18:COM5	-
	3277	-ve	6.928	53.206	0.669	16.678	1.042	22.220
			20:COM7	34:CVOL3	16:COM3	24:COM17	16:COM3	35:CVOL4
			0.000	0.000	-0.661	-19.069	-1.020	0.000
			-	-	26:COM13	18:COM5	26:COM13	-
7730	3277	+ve	5.554	13.566	0.051	0.000	0.163	36.540
			24:COM17	32:CVOL1	24:COM11	-	16:COM3	16:COM3
			-10.296	0.000	-0.145	-2.514	-0.068	0.000
			18:COM5	-	18:COM5	18:COM5	26:COM13	-
	3440	-ve	5.554	11.694	0.051	0.000	0.033	16.584
			24:COM17	34:CVOL3	24:COM11	-	24:COM11	16:COM3
			-10.296	0.000	-0.145	-2.514	-0.123	-3.528
			18:COM5	-	18:COM5	18:COM5	18:COM5	26:COM13
7731	3282	+ve	28.490	105.890	0.654	9.838	1.632	51.065
			20:COM7	28:COM15	28:COM15	20:COM7	16:COM3	28:COM15
			-27.146	-112.865	-1.034	0.000	-0.883	-74.782
			30:COM17	22:COM9	22:COM9	-	26:COM13	22:COM9
	3211	-ve	28.490	98.191	0.654	9.838	1.444	314.424
			20:COM7	28:COM15	28:COM15	20:COM7	28:COM15	20:COM7
			-27.146	-124.441	-1.034	0.000	-1.941	-283.651
			30:COM17	22:COM9	22:COM9	-	22:COM9	30:COM17
7732	3282	+ve	3.380	11.998	0.118	2.493	0.040	23.662
			28:COM15	20:COM7	20:COM7	20:COM7	24:COM11	20:COM7
			-8.580	-0.540	-0.008	-1.983	-0.100	0.000
			22:COM9	30:COM17	30:COM17	30:COM17	18:COM5	-
	3443	-ve	3.380	11.168	0.118	2.493	0.116	20.230
			28:COM15	20:COM7	20:COM7	20:COM7	20:COM7	20:COM7
			-8.580	-1.162	-0.008	-1.983	0.000	-9.716
			22:COM9	30:COM17	30:COM17	30:COM17	-	30:COM17
7733	3286	+ve	5.331	41.895	0.362	4.636	1.266	85.854
			24:COM17	16:COM3	28:COM15	32:CVOL1	20:COM7	16:COM3
			-7.759	0.000	-1.022	0.000	-0.377	-31.083
			18:COM5	-	22:COM9	-	30:COM17	26:COM13
	3287	-ve	5.331	39.172	0.362	4.636	0.336	15.625
			24:COM17	16:COM3	28:COM15	32:CVOL1	28:COM15	24:COM17
			-7.759	0.000	-1.022	0.000	-0.746	-56.897
			18:COM5	-	22:COM9	-	22:COM9	18:COM5

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
7734	3275	+ve	4.457	11.985	0.039	0.000	0.092	36.039
			20:COM7	34:CVOL3	24:COM11	-	16:COM3	16:COM3
			-5.025	0.000	-0.107	-2.033	-0.025	0.000
			30:COM17	-	18:COM5	22:COM9	26:COM13	-
	3446	-ve	4.457	10.449	0.039	0.000	0.049	15.574
			20:COM7	16:COM3	24:COM11	-	24:COM11	16:COM3
			-5.025	0.000	-0.107	-2.033	-0.110	0.000
			30:COM17	-	18:COM5	22:COM9	18:COM5	-
7735	3283	+ve	0.000	0.881	2.466	7.482	0.000	5.320
			-	28:COM15	20:COM7	16:COM3	-	16:COM3
			-2.132	-1.586	0.000	0.000	-0.612	0.000
			22:COM9	22:COM9	-	-	22:COM9	-
	3276	-ve	0.000	0.772	2.466	7.482	0.168	5.834
			-	28:COM15	20:COM7	16:COM3	20:COM7	16:COM3
			-2.132	-1.823	0.000	0.000	0.000	0.000
			22:COM9	32:CVOL1	-	-	-	-
7736	3284	+ve	9.229	2.996	4.914	10.099	1.853	3.248
			24:COM11	20:COM7	16:COM3	20:COM7	16:COM3	28:COM15
			-13.987	-3.649	-5.749	-2.898	-1.463	-24.032
			18:COM5	30:COM17	26:COM13	30:COM17	26:COM13	22:COM9
	3449	-ve	9.229	2.724	4.914	10.099	1.472	1.892
			24:COM11	20:COM7	16:COM3	20:COM7	16:COM3	28:COM15
			-13.987	-3.853	-5.749	-2.898	-1.574	-22.150
			18:COM5	30:COM17	26:COM13	30:COM17	26:COM13	22:COM9
7737	3285	+ve	5.570	8.392	0.315	2.765	0.300	13.029
			28:COM15	28:COM15	24:COM11	20:COM7	16:COM3	20:COM7
			-8.237	-21.848	-0.426	-1.470	-0.222	-7.939
			22:COM9	22:COM9	18:COM5	30:COM17	26:COM13	30:COM17
	3498	-ve	5.570	7.911	0.315	2.765	0.218	30.372
			28:COM15	28:COM15	24:COM11	20:COM7	24:COM11	16:COM3
			-8.237	-22.489	-0.426	-1.470	-0.293	-5.807
			22:COM9	22:COM9	18:COM5	30:COM17	18:COM5	26:COM13
7738	3287	+ve	5.678	26.793	0.144	2.383	0.090	15.747
			24:COM11	16:COM3	20:COM7	16:COM3	20:COM7	24:COM11
			-8.808	0.000	-0.146	-0.855	-0.060	-56.887
			18:COM5	-	30:COM17	26:COM13	30:COM17	18:COM5
	3288	-ve	5.678	24.070	0.144	2.383	0.249	0.000
			24:COM11	16:COM3	20:COM7	16:COM3	20:COM7	-
			-8.808	-1.411	-0.146	-0.855	-0.225	-67.851
			18:COM5	26:COM13	30:COM17	26:COM13	30:COM17	18:COM5
7739	3288	+ve	6.245	12.449	0.132	2.294	0.067	0.000
			24:COM11	16:COM3	28:COM15	16:COM3	16:COM3	-
			-9.535	-8.176	-0.126	-1.693	-0.067	-67.878
			18:COM5	26:COM13	22:COM9	26:COM13	26:COM13	18:COM5
	3289	-ve	6.245	9.726	0.132	2.294	0.241	0.000
			24:COM11	16:COM3	28:COM15	16:COM3	20:COM7	-
			-9.535	-10.218	-0.126	-1.693	-0.230	-66.045
			18:COM5	26:COM13	22:COM9	26:COM13	30:COM17	34:CVOL3

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
7740	3289	+ve	7.132	3.110	0.127	1.463	0.094	0.000
			24:COM1	24:COM11	28:COM15	16:COM3	16:COM3	-
			-10.202	-21.938	-0.126	-1.448	-0.071	-66.105
			18:COM5	18:COM5	22:COM9	26:COM13	26:COM13	34:CVOL3
	3290	-ve	7.132	1.068	0.127	1.463	0.252	7.497
			24:COM1	24:COM11	28:COM15	16:COM3	28:COM15	24:COM1
			-10.202	-24.660	-0.126	-1.448	-0.226	-59.854
			18:COM5	18:COM5	22:COM9	26:COM13	22:COM9	18:COM5
7741	3290	+ve	8.412	0.000	0.603	0.258	0.021	7.360
			24:COM1	-	20:COM7	33:CVOL2	28:COM15	24:COM1
			-10.726	-37.482	0.000	-3.634	-0.458	-59.969
			18:COM5	18:COM5	-	32:CVOL1	22:COM9	18:COM5
	3291	-ve	8.412	0.000	0.603	0.258	0.796	71.001
			24:COM1	-	20:COM7	33:CVOL2	20:COM7	16:COM3
			-10.726	-40.205	0.000	-3.634	0.000	-34.959
			18:COM5	18:COM5	-	32:CVOL1	-	26:COM13
7742	3291	+ve	11.586	0.000	1.056	0.000	0.000	70.892
			16:COM3	-	20:COM7	-	-	16:COM3
			-9.088	-53.725	0.000	-9.505	-1.101	-35.145
			26:COM13	18:COM5	-	18:COM5	22:COM9	26:COM13
	3218	-ve	11.586	0.000	1.056	0.000	1.150	179.259
			16:COM3	-	20:COM7	-	20:COM7	16:COM3
			-9.088	-56.448	0.000	-9.505	0.000	-6.267
			26:COM13	18:COM5	-	18:COM5	-	26:COM13
7743	3292	+ve	12.536	41.613	0.319	3.831	0.989	82.607
			24:COM1	16:COM3	28:COM15	32:CVOL1	20:COM7	16:COM3
			-15.023	0.000	-0.877	-0.418	-0.261	-33.172
			18:COM5	-	22:COM9	30:COM17	30:COM17	26:COM13
	3293	-ve	12.536	38.882	0.319	3.831	0.380	14.293
			24:COM1	16:COM3	28:COM15	32:CVOL1	28:COM15	24:COM1
			-15.023	0.000	-0.877	-0.418	-0.752	-60.207
			18:COM5	-	22:COM9	30:COM17	22:COM9	18:COM5
7744	3293	+ve	13.307	25.989	0.133	1.787	0.133	14.408
			24:COM1	16:COM3	20:COM7	24:COM1	28:COM15	24:COM1
			-16.223	0.000	-0.088	-1.930	-0.150	-60.078
			18:COM5	-	30:COM17	18:COM5	22:COM9	18:COM5
	3294	-ve	13.307	23.259	0.133	1.787	0.317	0.000
			24:COM1	16:COM3	20:COM7	24:COM1	20:COM7	-
			-16.223	-1.358	-0.088	-1.930	-0.245	-70.528
			18:COM5	26:COM13	30:COM17	18:COM5	30:COM17	18:COM5
7745	3294	+ve	14.151	11.197	0.142	2.118	0.144	0.000
			24:COM1	16:COM3	16:COM3	24:COM1	24:COM11	-
			-17.056	-7.768	-0.109	-2.976	-0.165	-70.553
			18:COM5	26:COM13	26:COM13	18:COM5	18:COM5	18:COM5
	3295	-ve	14.151	8.635	0.142	2.118	0.321	0.000
			24:COM1	24:COM11	16:COM3	24:COM1	20:COM7	-
			-17.056	-9.984	-0.109	-2.976	-0.275	-67.174
			18:COM5	18:COM5	26:COM13	18:COM5	30:COM17	34:CVOL3

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
7746	3295	+ve	15.032	1.689	0.250	1.373	0.280	0.000
			24:COM1	24:COM11	24:COM11	24:COM1	16:COM3	-
			-17.441	-21.581	-0.257	-3.247	-0.241	-67.210
			18:COM5	18:COM5	18:COM5	18:COM5	26:COM1	34:CVOL
	3296	-ve	15.032	0.000	0.250	1.373	0.379	3.612
			24:COM1	-	24:COM11	24:COM1	28:COM1	24:COM1
			-17.441	-24.311	-0.257	-3.247	-0.355	-55.271
			18:COM5	18:COM5	18:COM5	18:COM5	22:COM9	18:COM5
7747	3296	+ve	15.575	0.000	0.777	0.000	0.450	3.465
			24:COM1	-	16:COM3	-	24:COM11	24:COM1
			-16.928	-36.786	-0.422	-5.290	-0.658	-55.277
			18:COM5	18:COM5	26:COM1	32:CVOL1	18:COM5	18:COM5
	3297	-ve	15.575	0.000	0.777	0.000	0.882	66.663
			24:COM1	-	16:COM3	-	16:COM3	16:COM3
			-16.928	-39.516	-0.422	-5.290	-0.390	-26.926
			18:COM5	18:COM5	26:COM1	32:CVOL1	26:COM1	26:COM1
7748	3297	+ve	16.117	0.000	1.106	0.000	0.813	66.630
			16:COM3	-	20:COM7	-	28:COM1	16:COM3
			-13.589	-53.123	-0.622	-10.468	-1.392	-26.905
			26:COM1	18:COM5	30:COM1	32:CVOL1	22:COM9	26:COM1
	3219	-ve	16.117	0.000	1.106	0.000	0.890	174.063
			16:COM3	-	20:COM7	-	20:COM7	16:COM3
			-13.589	-55.853	-0.622	-10.468	-0.513	0.000
			26:COM1	18:COM5	30:COM1	32:CVOL1	30:COM1	-
7749	3298	+ve	5.695	23.675	0.290	7.601	0.288	47.809
			28:COM1	16:COM3	28:COM1	20:COM7	20:COM7	16:COM3
			-10.776	-1.006	-0.303	0.000	-0.262	-30.543
			22:COM9	26:COM1	22:COM9	-	30:COM1	26:COM1
	3299	-ve	5.695	21.426	0.290	7.601	0.316	9.239
			28:COM1	16:COM3	28:COM1	20:COM7	28:COM1	24:COM1
			-10.776	-2.692	-0.303	0.000	-0.316	-32.340
			22:COM9	26:COM1	22:COM9	-	22:COM9	18:COM5
7750	3299	+ve	5.766	15.338	0.026	3.300	0.137	9.360
			28:COM1	16:COM3	24:COM11	16:COM3	20:COM7	24:COM1
			-10.182	-5.456	-0.094	0.000	-0.099	-32.267
			22:COM9	26:COM1	18:COM5	-	30:COM1	18:COM5
	3300	-ve	5.766	13.089	0.026	3.300	0.106	0.000
			28:COM1	16:COM3	24:COM11	16:COM3	28:COM1	-
			-10.182	-7.142	-0.094	0.000	-0.201	-26.123
			22:COM9	26:COM1	18:COM5	-	22:COM9	35:CVOL
7751	3300	+ve	6.254	8.582	0.089	0.000	0.120	0.000
			28:COM1	24:COM11	16:COM3	-	28:COM1	-
			-10.185	-10.736	-0.027	-3.380	-0.202	-26.119
			22:COM9	18:COM5	26:COM1	18:COM5	22:COM9	35:CVOL
	3301	-ve	6.254	6.896	0.089	0.000	0.157	6.711
			28:COM1	24:COM11	16:COM3	-	20:COM7	24:COM1
			-10.185	-12.985	-0.027	-3.380	-0.117	-37.008
			22:COM9	18:COM5	26:COM1	18:COM5	30:COM1	18:COM5

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
7752	3301	+ve	6.750	4.217	0.112	0.000	0.202	6.589
			28:COM15	24:COM11	20:COM7	-	28:COM15	24:COM11
			-10.515	-19.063	-0.069	-7.854	-0.190	-37.065
			22:COM9	18:COM5	30:COM17	22:COM9	22:COM9	18:COM5
	3302	-ve	6.750	2.530	0.112	0.000	0.193	38.704
			28:COM15	24:COM11	20:COM7	-	20:COM7	16:COM3
			-10.515	-21.312	-0.069	-7.854	-0.096	-36.393
			22:COM9	18:COM5	30:COM17	22:COM9	30:COM17	26:COM13
7753	3302	+ve	7.797	1.530	0.048	0.000	0.824	38.392
			28:COM15	24:COM11	28:COM15	-	20:COM7	16:COM3
			-10.224	-33.099	-0.720	-11.832	-0.079	-36.477
			22:COM9	18:COM5	22:COM9	22:COM9	30:COM17	26:COM13
	3213	-ve	7.797	0.000	0.048	0.000	0.104	105.087
			28:COM15	-	28:COM15	-	28:COM15	16:COM3
			-10.224	-35.348	-0.720	-11.832	-0.670	-37.775
			22:COM9	18:COM5	22:COM9	22:COM9	22:COM9	26:COM13
7754	3303	+ve	28.571	27.880	2.956	21.050	2.675	49.505
			28:COM15	16:COM3	20:COM7	20:COM7	28:COM15	16:COM3
			-38.662	-3.036	-2.275	-3.506	-3.512	-41.504
			22:COM9	26:COM13	30:COM17	30:COM17	22:COM9	26:COM13
	3304	-ve	28.571	25.631	2.956	21.050	2.254	6.122
			28:COM15	16:COM3	20:COM7	20:COM7	20:COM7	24:COM11
			-38.662	-4.722	-2.275	-3.506	-1.762	-42.729
			22:COM9	26:COM13	30:COM17	30:COM17	30:COM17	18:COM5
7755	3304	+ve	19.958	14.536	0.183	15.267	0.162	6.270
			28:COM15	16:COM3	28:COM15	20:COM7	20:COM7	24:COM11
			-28.191	-7.796	-0.198	-4.253	-0.174	-42.315
			22:COM9	26:COM13	22:COM9	30:COM17	30:COM17	18:COM5
	3305	-ve	19.958	12.287	0.183	15.267	0.215	0.000
			28:COM15	16:COM3	28:COM15	20:COM7	28:COM15	-
			-28.191	-9.483	-0.198	-4.253	-0.256	-31.412
			22:COM9	26:COM13	22:COM9	30:COM17	22:COM9	34:CVOL3
7756	3305	+ve	15.206	7.742	0.152	8.043	0.135	0.000
			28:COM15	24:COM11	20:COM7	20:COM7	28:COM15	-
			-22.058	-13.497	-0.097	-5.477	-0.250	-31.257
			22:COM9	18:COM5	30:COM17	30:COM17	22:COM9	34:CVOL3
	3306	-ve	15.206	6.055	0.152	8.043	0.093	8.282
			28:COM15	24:COM11	20:COM7	20:COM7	16:COM3	24:COM11
			-22.058	-15.746	-0.097	-5.477	-0.102	-38.370
			22:COM9	18:COM5	30:COM17	30:COM17	26:COM13	18:COM5
7757	3306	+ve	11.960	3.351	0.233	3.746	0.102	8.240
			28:COM15	24:COM11	20:COM7	28:COM15	24:COM11	24:COM11
			-17.917	-21.706	-0.135	-9.042	-0.173	-38.410
			22:COM9	18:COM5	30:COM17	22:COM9	18:COM5	18:COM5
	3307	-ve	11.960	1.665	0.233	3.746	0.395	45.480
			28:COM15	24:COM11	20:COM7	28:COM15	20:COM7	16:COM3
			-17.917	-23.955	-0.135	-9.042	-0.274	-36.022
			22:COM9	18:COM5	30:COM17	22:COM9	30:COM17	26:COM13

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
7758	3307	+ve	9.661	0.678	0.290	1.489	0.547	45.254
			28:COM15	24:COM11	28:COM15	28:COM15	20:COM7	16:COM3
			-13.715	-35.612	-0.697	-12.952	-0.144	-36.119
			22:COM9	18:COM5	22:COM9	22:COM9	30:COM17	26:COM13
	3212	-ve	9.661	0.000	0.290	1.489	0.433	116.702
			28:COM15	-	28:COM15	28:COM15	28:COM15	16:COM3
			-13.715	-37.861	-0.697	-12.952	-0.823	-35.609
			22:COM9	18:COM5	22:COM9	22:COM9	22:COM9	26:COM13
7759	3308	+ve	9.127	23.261	0.116	7.644	0.186	46.222
			24:COM17	16:COM3	28:COM15	20:COM7	20:COM7	16:COM3
			-11.598	-1.155	-0.156	0.000	-0.082	-31.716
			18:COM5	26:COM13	22:COM9	-	30:COM17	26:COM13
	3309	-ve	9.127	21.012	0.116	7.644	0.254	8.813
			24:COM17	16:COM3	28:COM15	20:COM7	28:COM15	24:COM17
			-11.598	-2.842	-0.156	0.000	-0.228	-33.576
			18:COM5	26:COM13	22:COM9	-	22:COM9	18:COM5
7760	3309	+ve	10.014	14.888	0.022	3.366	0.204	8.935
			24:COM17	16:COM3	24:COM11	16:COM3	20:COM7	24:COM17
			-12.594	-5.636	-0.105	0.000	-0.135	-33.500
			18:COM5	26:COM13	18:COM5	-	30:COM17	18:COM5
	3310	-ve	10.014	12.639	0.022	3.366	0.106	0.000
			24:COM17	16:COM3	24:COM11	16:COM3	28:COM15	-
			-12.594	-7.323	-0.105	0.000	-0.201	-26.374
			18:COM5	26:COM13	18:COM5	-	22:COM9	35:CVOL4
7761	3310	+ve	10.766	8.269	0.076	0.045	0.162	0.000
			24:COM17	24:COM11	16:COM3	24:COM17	28:COM15	-
			-13.754	-11.048	-0.046	-3.339	-0.212	-26.370
			18:COM5	18:COM5	26:COM13	18:COM5	22:COM9	35:CVOL4
	3311	-ve	10.766	6.583	0.076	0.045	0.102	6.519
			24:COM17	24:COM11	16:COM3	24:COM17	20:COM7	24:COM17
			-13.754	-13.297	-0.046	-3.339	-0.094	-36.025
			18:COM5	18:COM5	26:COM13	18:COM5	30:COM17	18:COM5
7762	3311	+ve	11.358	3.938	0.292	0.000	0.397	6.397
			24:COM17	24:COM11	28:COM15	-	20:COM7	24:COM17
			-15.005	-19.360	-0.378	-7.850	-0.307	-36.082
			18:COM5	18:COM5	22:COM9	22:COM9	30:COM17	18:COM5
	3312	-ve	11.358	2.252	0.292	0.000	0.278	39.294
			24:COM17	24:COM11	28:COM15	-	28:COM15	16:COM3
			-15.005	-21.608	-0.378	-7.850	-0.355	-35.070
			18:COM5	18:COM5	22:COM9	22:COM9	22:COM9	26:COM13
7763	3312	+ve	12.694	1.548	0.463	0.000	1.439	38.981
			24:COM17	24:COM11	28:COM15	-	20:COM7	16:COM3
			-15.724	-33.385	-1.474	-11.900	-0.476	-35.153
			18:COM5	18:COM5	22:COM9	18:COM5	30:COM17	26:COM13
	3214	-ve	12.694	0.000	0.463	0.000	0.442	106.186
			24:COM17	-	28:COM15	-	28:COM15	16:COM3
			-15.724	-35.634	-1.474	-11.900	-1.451	-36.438
			18:COM5	18:COM5	22:COM9	18:COM5	22:COM9	26:COM13

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
7764	3313	+ve	15.439	25.470	0.083	10.311	0.347	52.808
			24:COM1	16:COM3	28:COM1	20:COM7	20:COM7	16:COM3
			-21.908	-0.559	-0.177	-3.447	-0.213	-32.973
			18:COM5	26:COM1	22:COM9	30:COM1	30:COM1	26:COM1
	3314	-ve	15.439	23.221	0.083	10.311	0.128	11.153
			24:COM1	16:COM3	28:COM1	20:COM7	28:COM1	24:COM1
			-21.908	-2.246	-0.177	-3.447	-0.177	-36.054
			18:COM5	26:COM1	22:COM9	30:COM1	22:COM9	18:COM5
7765	3314	+ve	17.767	17.215	0.080	6.408	0.162	11.199
			24:COM1	16:COM3	28:COM1	28:COM1	16:COM3	24:COM1
			-24.633	-5.088	-0.187	-6.864	-0.104	-35.958
			18:COM5	26:COM1	22:COM9	22:COM9	26:COM1	18:COM5
	3315	-ve	17.767	14.966	0.080	6.408	0.133	0.000
			24:COM1	16:COM3	28:COM1	28:COM1	28:COM1	-
			-24.633	-6.774	-0.187	-6.864	-0.284	-30.807
			18:COM5	26:COM1	22:COM9	22:COM9	22:COM9	34:CVOL
7766	3315	+ve	20.328	10.378	0.144	5.635	0.132	0.000
			24:COM1	24:COM1	20:COM7	28:COM1	24:COM1	-
			-27.861	-10.518	-0.082	-13.840	-0.209	-30.904
			18:COM5	18:COM5	30:COM1	22:COM9	18:COM5	34:CVOL
	3316	-ve	20.328	8.692	0.144	5.635	0.196	3.363
			24:COM1	24:COM1	20:COM7	28:COM1	20:COM7	24:COM1
			-27.861	-12.767	-0.082	-13.840	-0.152	-43.944
			18:COM5	18:COM5	30:COM1	22:COM9	30:COM1	18:COM5
7767	3316	+ve	22.818	5.262	1.202	5.410	0.766	3.367
			24:COM1	24:COM1	20:COM7	28:COM1	28:COM1	24:COM1
			-30.790	-21.762	-1.022	-19.740	-0.885	-44.382
			18:COM5	18:COM5	30:COM1	22:COM9	22:COM9	18:COM5
	3317	-ve	22.818	3.576	1.202	5.410	1.468	39.334
			24:COM1	24:COM1	20:COM7	28:COM1	20:COM7	24:COM1
			-30.790	-24.011	-1.022	-19.740	-1.236	-44.336
			18:COM5	18:COM5	30:COM1	22:COM9	30:COM1	18:COM5
7768	3317	+ve	27.366	0.000	1.283	21.029	2.210	40.855
			28:COM1	-	28:COM1	28:COM1	20:COM7	24:COM1
			-36.368	-37.111	-2.618	-20.804	-1.021	-41.825
			22:COM9	18:COM5	22:COM9	22:COM9	30:COM1	18:COM5
	3215	-ve	27.366	0.000	1.283	21.029	1.498	110.795
			28:COM1	-	28:COM1	28:COM1	28:COM1	16:COM3
			-36.368	-39.360	-2.618	-20.804	-2.911	-22.778
			22:COM9	18:COM5	22:COM9	22:COM9	22:COM9	26:COM1
7769	3318	+ve	41.541	22.125	2.720	5.149	0.000	22.724
			28:COM1	20:COM7	20:COM7	20:COM7	-	20:COM7
			-66.964	-11.448	-0.843	-0.706	-2.946	-13.346
			22:COM9	30:COM1	30:COM1	30:COM1	22:COM9	30:COM1
	3222	-ve	41.541	18.826	2.720	5.149	2.253	10.936
			28:COM1	20:COM7	20:COM7	20:COM7	28:COM1	28:COM1
			-66.964	-13.922	-0.843	-0.706	-2.000	-16.415
			22:COM9	30:COM1	30:COM1	30:COM1	22:COM9	22:COM9

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
7771	3320	+ve	185.135	220.064	0.710	7.265	3.053	126.851
			20:COM7	28:COM15	24:COM11	16:COM3	16:COM3	20:COM7
			-141.263	-299.184	-3.783	-0.510	-0.984	-88.576
			30:COM17	22:COM9	18:COM5	26:COM13	26:COM13	30:COM17
	5731	-ve	185.135	219.117	0.710	7.265	0.501	345.715
			20:COM7	28:COM15	24:COM11	16:COM3	28:COM15	20:COM7
			-141.263	-300.446	-3.783	-0.510	-0.676	-248.875
			30:COM17	22:COM9	18:COM5	26:COM13	22:COM9	30:COM17
7772	3321	+ve	92.888	73.794	6.125	10.653	2.352	134.915
			20:COM7	28:COM15	20:COM7	28:COM15	28:COM15	28:COM15
			-84.647	-106.606	-2.473	-28.241	-5.833	-174.081
			30:COM17	22:COM9	30:COM17	22:COM9	22:COM9	22:COM9
	3217	-ve	92.888	71.208	6.125	10.653	6.374	341.760
			20:COM7	28:COM15	20:COM7	28:COM15	20:COM7	20:COM7
			-84.647	-110.053	-2.473	-28.241	-2.580	-309.529
			30:COM17	22:COM9	30:COM17	22:COM9	30:COM17	30:COM17
7773	3322	+ve	12.143	98.147	4.276	1.295	1.632	0.000
			28:COM15	20:COM7	20:COM7	24:COM17	28:COM15	-
			-15.291	-89.783	-1.334	-9.454	-4.689	-45.508
			22:COM9	30:COM17	30:COM17	18:COM5	22:COM9	22:COM9
	3321	-ve	12.143	94.700	4.276	1.295	3.838	146.903
			28:COM15	20:COM7	20:COM7	24:COM17	20:COM7	28:COM15
			-15.291	-92.369	-1.334	-9.454	-1.031	-203.524
			22:COM9	30:COM17	30:COM17	18:COM5	30:COM17	22:COM9
7780	3329	+ve	72.103	134.215	1.335	7.854	1.302	170.951
			24:COM17	16:COM3	24:COM11	20:COM7	20:COM7	16:COM3
			-88.830	-121.247	-2.309	-5.036	-0.393	-149.083
			18:COM5	26:COM13	18:COM5	30:COM17	30:COM17	26:COM13
	3209	-ve	72.103	131.550	1.335	7.854	1.837	9.977
			24:COM17	16:COM3	24:COM11	20:COM7	24:COM11	16:COM3
			-88.830	-123.246	-2.309	-5.036	-2.178	-1.767
			18:COM5	26:COM13	18:COM5	30:COM17	18:COM5	26:COM13
7781	3330	+ve	129.354	220.942	3.752	30.984	4.576	318.793
			16:COM3	24:COM11	28:COM15	20:COM7	16:COM3	16:COM3
			-110.979	-263.094	-3.880	-31.168	-4.279	-298.539
			26:COM13	18:COM5	22:COM9	30:COM17	26:COM13	26:COM13
	5379	-ve	129.354	219.541	3.752	30.984	1.339	556.393
			16:COM3	24:COM11	28:COM15	20:COM7	16:COM3	16:COM3
			-110.979	-264.962	-3.880	-31.168	-1.158	-496.731
			26:COM13	18:COM5	22:COM9	30:COM17	26:COM13	26:COM13
7782	3331	+ve	62.722	226.880	1.195	2.432	1.672	140.610
			16:COM3	24:COM11	24:COM11	20:COM7	16:COM3	24:COM17
			-53.847	-239.404	-2.024	-1.909	-0.552	-151.220
			26:COM13	18:COM5	18:COM5	30:COM17	26:COM13	18:COM5
	3330	-ve	62.722	223.805	1.195	2.432	1.828	325.625
			16:COM3	24:COM11	24:COM11	20:COM7	24:COM11	16:COM3
			-53.847	-243.503	-2.024	-1.909	-2.344	-304.417
			26:COM13	18:COM5	18:COM5	30:COM17	18:COM5	26:COM13

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
7783	3332	+ve	70.137	19.090	3.296	5.706	3.673	0.000
			24:COM1	24:COM1	16:COM3	24:COM1	24:COM1	-
			-111.862	-25.859	-2.857	-6.067	-4.633	-10.227
			18:COM5	18:COM5	26:COM1	18:COM5	18:COM5	22:COM9
	3210	-ve	70.137	15.919	3.296	5.706	2.719	48.287
			24:COM1	24:COM1	16:COM3	24:COM1	28:COM1	16:COM3
			-111.862	-30.088	-2.857	-6.067	-2.786	-37.844
			18:COM5	18:COM5	26:COM1	18:COM5	22:COM9	26:COM1
7784	3333	+ve	14.483	8.824	0.841	2.745	1.023	9.344
			24:COM1	20:COM7	24:COM1	16:COM3	20:COM7	20:COM7
			-42.665	-2.832	-0.900	-1.667	-0.822	-3.199
			18:COM5	30:COM1	18:COM5	26:COM1	30:COM1	30:COM1
	3332	-ve	14.483	4.732	0.841	2.745	1.441	8.694
			24:COM1	20:COM7	24:COM1	16:COM3	16:COM3	16:COM3
			-42.665	-5.900	-0.900	-1.667	-1.356	-7.303
			18:COM5	30:COM1	18:COM5	26:COM1	26:COM1	26:COM1
7785	3281	+ve	11.371	60.535	0.709	1.436	2.438	39.038
			20:COM7	28:COM1	28:COM1	28:COM1	20:COM7	28:COM1
			-6.440	-64.793	-1.257	-12.246	-1.553	-51.388
			30:COM1	22:COM9	22:COM9	22:COM9	30:COM1	22:COM9
	3215	-ve	11.371	54.455	0.709	1.436	1.192	209.462
			20:COM7	28:COM1	28:COM1	28:COM1	28:COM1	20:COM7
			-6.440	-73.803	-1.257	-12.246	-2.366	-177.397
			30:COM1	22:COM9	22:COM9	22:COM9	22:COM9	30:COM1
7786	3339	+ve	7.969	52.625	0.583	1.480	1.144	70.689
			20:COM7	20:COM7	24:COM1	24:COM1	16:COM3	16:COM3
			-2.733	-17.780	-1.090	-1.562	-0.588	-43.530
			30:COM1	30:COM1	18:COM5	18:COM5	26:COM1	26:COM1
	3340	-ve	7.969	50.029	0.583	1.480	0.506	0.000
			20:COM7	20:COM7	24:COM1	24:COM1	24:COM1	-
			-2.733	-19.727	-1.090	-1.562	-0.903	-26.321
			30:COM1	30:COM1	18:COM5	18:COM5	18:COM5	22:COM9
7787	3340	+ve	4.044	39.849	0.165	1.317	0.158	0.000
			20:COM7	16:COM3	16:COM3	24:COM1	24:COM1	-
			0.000	-27.692	-0.101	-2.282	-0.359	-26.044
			-	26:COM1	26:COM1	18:COM5	18:COM5	22:COM9
	3573	-ve	4.044	37.281	0.165	1.317	0.070	44.658
			20:COM7	16:COM3	16:COM3	24:COM1	28:COM1	28:COM1
			0.000	-29.618	-0.101	-2.282	-0.152	-97.101
			-	26:COM1	26:COM1	18:COM5	22:COM9	22:COM9
7788	3342	+ve	11.476	26.983	0.089	5.214	0.366	1.579
			16:COM3	28:COM1	28:COM1	20:COM7	20:COM7	28:COM1
			-12.401	-33.938	-0.130	-3.398	-0.358	-23.828
			26:COM1	22:COM9	22:COM9	30:COM1	30:COM1	22:COM9
	3215	-ve	11.476	24.325	0.089	5.214	0.132	113.359
			16:COM3	28:COM1	28:COM1	20:COM7	24:COM1	20:COM7
			-12.401	-37.482	-0.130	-3.398	-0.283	-96.975
			26:COM1	22:COM9	22:COM9	30:COM1	18:COM5	30:COM1

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
7789	3404	+ve	0.029	5.600	0.000	0.000	0.014	4.931
			24:COM1	35:CVOL4	28:COM1	-	20:COM7	20:COM7
			-1.595	0.000	-0.005	-0.073	-0.000	0.000
			32:CVOL1	-	22:COM9	34:CVOL3	30:COM1	-
	3286	-ve	0.029	0.000	0.000	0.000	0.000	7.710
			24:COM1	-	28:COM1	-	28:COM1	34:CVOL3
			-1.595	-6.556	-0.005	-0.073	-0.014	0.000
			32:CVOL1	34:CVOL3	22:COM9	34:CVOL3	22:COM9	-
7790	3403	+ve	2.529	5.535	0.001	0.000	0.015	4.169
			35:CVOL4	35:CVOL4	28:COM1	-	20:COM7	20:COM7
			-0.169	0.000	-0.005	-0.073	-0.004	0.000
			32:CVOL1	-	22:COM9	18:COM5	30:COM1	-
	3287	-ve	2.529	0.000	0.001	0.000	0.004	7.870
			35:CVOL4	-	28:COM1	-	28:COM1	34:CVOL3
			-0.169	-6.671	-0.005	-0.073	-0.015	0.000
			32:CVOL1	34:CVOL3	22:COM9	18:COM5	22:COM9	-
7791	3402	+ve	3.952	5.547	0.002	0.010	0.011	3.945
			35:CVOL4	35:CVOL4	28:COM1	24:COM1	20:COM7	35:CVOL4
			0.000	0.000	-0.003	-0.045	-0.006	0.000
			-	-	22:COM9	18:COM5	30:COM1	-
	3288	-ve	3.952	0.000	0.002	0.010	0.006	7.767
			35:CVOL4	-	28:COM1	24:COM1	28:COM1	34:CVOL3
			0.000	-6.676	-0.003	-0.045	-0.010	0.000
			-	34:CVOL3	22:COM9	18:COM5	22:COM9	-
7792	3401	+ve	3.785	5.515	0.003	0.047	0.005	3.878
			35:CVOL4	35:CVOL4	20:COM7	16:COM3	28:COM1	35:CVOL4
			-0.190	0.000	-0.002	-0.007	-0.008	0.000
			30:COM1	-	30:COM1	26:COM1	22:COM9	-
	3289	-ve	3.785	0.000	0.003	0.047	0.008	7.883
			35:CVOL4	-	20:COM7	16:COM3	20:COM7	34:CVOL3
			-0.190	-6.705	-0.002	-0.007	-0.005	0.000
			30:COM1	34:CVOL3	30:COM1	26:COM1	30:COM1	-
7793	3400	+ve	2.697	5.439	0.003	0.073	0.002	3.904
			16:COM3	35:CVOL4	20:COM7	34:CVOL3	28:COM1	20:COM7
			-1.519	0.000	-0.001	0.000	-0.011	0.000
			26:COM1	-	30:COM1	-	22:COM9	-
	3290	-ve	2.697	0.000	0.003	0.073	0.010	8.231
			16:COM3	-	20:COM7	34:CVOL3	20:COM7	34:CVOL3
			-1.519	-6.761	-0.001	0.000	-0.002	0.000
			26:COM1	34:CVOL3	30:COM1	-	30:COM1	-
7794	3399	+ve	0.653	5.467	0.004	0.071	0.000	4.563
			24:COM1	35:CVOL4	20:COM7	34:CVOL3	28:COM1	20:COM7
			-3.314	0.000	-0.000	0.000	-0.012	0.000
			18:COM5	-	30:COM1	-	22:COM9	-
	3291	-ve	0.653	0.000	0.004	0.071	0.012	8.242
			24:COM1	-	20:COM7	34:CVOL3	20:COM7	34:CVOL3
			-3.314	-6.684	-0.000	0.000	-0.000	0.000
			18:COM5	34:CVOL3	30:COM1	-	30:COM1	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
7795	3410	+ve	0.149	5.471	0.000	0.000	0.010	4.694
			24:COM1	35:CVOL4	-	-	20:COM7	20:COM7
			-3.461	0.000	-0.003	-0.071	0.000	0.000
			18:COM5	-	22:COM9	18:COM5	-	-
	3292	-ve	0.149	0.000	0.000	0.000	0.000	8.312
			24:COM1	-	-	-	-	34:CVOL3
			-3.461	-6.681	-0.003	-0.071	-0.010	0.000
			18:COM5	34:CVOL3	22:COM9	18:COM5	22:COM9	-
7796	3409	+ve	1.822	5.434	0.001	0.000	0.011	3.963
			16:COM3	35:CVOL4	28:COM1	-	20:COM7	35:CVOL4
			-1.462	0.000	-0.003	-0.067	-0.002	0.000
			26:COM1	-	22:COM9	34:CVOL3	30:COM1	-
	3293	-ve	1.822	0.000	0.001	0.000	0.002	8.372
			16:COM3	-	28:COM1	-	28:COM1	34:CVOL3
			-1.462	-6.772	-0.003	-0.067	-0.010	0.000
			26:COM1	34:CVOL3	22:COM9	34:CVOL3	22:COM9	-
7797	3408	+ve	3.347	5.499	0.001	0.007	0.005	3.909
			35:CVOL4	35:CVOL4	28:COM1	28:COM1	20:COM7	35:CVOL4
			-0.117	0.000	-0.002	-0.038	-0.003	0.000
			32:CVOL1	-	22:COM9	22:COM9	30:COM1	-
	3294	-ve	3.347	0.000	0.001	0.007	0.003	8.085
			35:CVOL4	-	28:COM1	28:COM1	28:COM1	34:CVOL3
			-0.117	-6.734	-0.002	-0.038	-0.005	0.000
			32:CVOL1	34:CVOL3	22:COM9	22:COM9	22:COM9	-
7798	3407	+ve	3.546	5.519	0.002	0.055	0.001	3.937
			35:CVOL4	35:CVOL4	20:COM7	20:COM7	28:COM1	35:CVOL4
			-0.100	0.000	-0.000	-0.009	-0.006	0.000
			32:CVOL1	-	30:COM1	30:COM1	22:COM9	-
	3295	-ve	3.546	0.000	0.002	0.055	0.006	8.036
			35:CVOL4	-	20:COM7	20:COM7	20:COM7	34:CVOL3
			-0.100	-6.725	-0.000	-0.009	-0.001	0.000
			32:CVOL1	34:CVOL3	30:COM1	30:COM1	30:COM1	-
7799	3406	+ve	2.260	5.490	0.003	0.096	0.000	4.041
			16:COM3	35:CVOL4	20:COM7	20:COM7	-	35:CVOL4
			-1.294	0.000	0.000	0.000	-0.010	0.000
			26:COM1	-	-	-	22:COM9	-
	3296	-ve	2.260	0.000	0.003	0.096	0.010	8.213
			16:COM3	-	20:COM7	20:COM7	16:COM3	34:CVOL3
			-1.294	-6.742	0.000	0.000	0.000	0.000
			26:COM1	34:CVOL3	-	-	-	-
7800	3405	+ve	0.973	5.543	0.004	0.107	0.000	4.524
			24:COM1	35:CVOL4	20:COM7	16:COM3	-	35:CVOL4
			-3.004	0.000	0.000	0.000	-0.012	0.000
			18:COM5	-	-	-	22:COM9	-
	3297	-ve	0.973	0.000	0.004	0.107	0.013	8.071
			24:COM1	-	20:COM7	16:COM3	16:COM3	34:CVOL3
			-3.004	-6.636	0.000	0.000	0.000	0.000
			18:COM5	34:CVOL3	-	-	-	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
7801	3303	+ve	11.753	7.186	0.003	0.033	0.006	12.817
			28:COM15	34:CVOL3	20:COM7	20:COM7	28:COM15	20:COM7
			-17.501	0.000	-0.002	-0.027	-0.009	0.000
			22:COM9	-	30:COM17	30:COM17	22:COM9	-
	3375	-ve	11.753	0.000	0.003	0.033	0.009	6.470
			28:COM15	-	20:COM7	20:COM7	20:COM7	20:COM7
			-17.501	-6.243	-0.002	-0.027	-0.007	0.000
			22:COM9	35:CVOL4	30:COM17	30:COM17	30:COM17	-
7802	3304	+ve	9.809	6.838	0.004	0.013	0.020	9.393
			20:COM7	34:CVOL3	28:COM15	28:COM15	20:COM7	20:COM7
			-6.757	0.000	-0.006	-0.043	-0.015	0.000
			30:COM17	-	22:COM9	22:COM9	30:COM17	-
	3374	-ve	9.809	0.000	0.004	0.013	0.013	6.477
			20:COM7	-	28:COM15	28:COM15	28:COM15	35:CVOL4
			-6.757	-6.535	-0.006	-0.043	-0.019	0.000
			30:COM17	35:CVOL4	22:COM9	22:COM9	22:COM9	-
7803	3305	+ve	9.005	6.629	0.004	0.013	0.018	6.997
			20:COM7	34:CVOL3	28:COM15	28:COM15	20:COM7	20:COM7
			-1.726	0.000	-0.005	-0.043	-0.013	0.000
			30:COM17	-	22:COM9	22:COM9	30:COM17	-
	3373	-ve	9.005	0.000	0.004	0.013	0.012	6.608
			20:COM7	-	28:COM15	28:COM15	28:COM15	34:CVOL3
			-1.726	-6.707	-0.005	-0.043	-0.018	0.000
			30:COM17	35:CVOL4	22:COM9	22:COM9	22:COM9	-
7804	3306	+ve	7.181	6.519	0.003	0.018	0.015	6.035
			20:COM7	34:CVOL3	28:COM15	28:COM15	20:COM7	34:CVOL3
			-0.094	0.000	-0.005	-0.025	-0.011	0.000
			30:COM17	-	22:COM9	22:COM9	30:COM17	-
	3372	-ve	7.181	0.000	0.003	0.018	0.011	6.960
			20:COM7	-	28:COM15	28:COM15	28:COM15	34:CVOL3
			-0.094	-6.800	-0.005	-0.025	-0.015	0.000
			30:COM17	35:CVOL4	22:COM9	22:COM9	22:COM9	-
7805	3307	+ve	3.891	6.493	0.002	0.016	0.008	6.359
			16:COM3	35:CVOL4	28:COM15	20:COM7	20:COM7	20:COM7
			-1.034	0.000	-0.002	-0.008	-0.007	0.000
			26:COM13	-	22:COM9	30:COM17	30:COM17	-
	3371	-ve	3.891	0.000	0.002	0.016	0.007	7.868
			16:COM3	-	28:COM15	20:COM7	28:COM15	20:COM7
			-1.034	-6.826	-0.002	-0.008	-0.008	0.000
			26:COM13	34:CVOL3	22:COM9	30:COM17	22:COM9	-
7806	3298	+ve	3.348	6.418	0.001	0.000	0.010	6.567
			16:COM3	35:CVOL4	28:COM15	-	20:COM7	20:COM7
			-0.089	0.000	-0.003	-0.043	-0.004	0.000
			26:COM13	-	22:COM9	22:COM9	30:COM17	-
	3380	-ve	3.348	0.000	0.001	0.000	0.003	8.283
			16:COM3	-	28:COM15	-	28:COM15	20:COM7
			-0.089	-6.916	-0.003	-0.043	-0.010	0.000
			26:COM13	34:CVOL3	22:COM9	22:COM9	22:COM9	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
7807	3299	+ve	6.383	6.393	0.002	0.000	0.010	5.602
			35:CVOL4	35:CVOL4	28:COM15	-	20:COM7	20:COM7
			0.000	0.000	-0.003	-0.037	-0.005	0.000
			-	-	22:COM9	18:COM5	30:COM17	-
	3379	-ve	6.383	0.000	0.002	0.000	0.005	7.483
			35:CVOL4	-	28:COM15	-	28:COM15	20:COM7
			0.000	-6.934	-0.003	-0.037	-0.010	0.000
			-	34:CVOL3	22:COM9	18:COM5	22:COM9	-
7808	3300	+ve	7.621	6.406	0.002	0.017	0.006	5.324
			35:CVOL4	35:CVOL4	28:COM15	16:COM3	20:COM7	20:COM7
			0.000	0.000	-0.002	-0.012	-0.005	0.000
			-	-	22:COM9	26:COM13	30:COM17	-
	3378	-ve	7.621	0.000	0.002	0.017	0.005	7.046
			35:CVOL4	-	28:COM15	16:COM3	28:COM15	20:COM7
			0.000	-6.918	-0.002	-0.012	-0.006	0.000
			-	34:CVOL3	22:COM9	26:COM13	22:COM9	-
7809	3301	+ve	6.456	6.391	0.002	0.043	0.003	5.583
			35:CVOL4	35:CVOL4	20:COM7	20:COM7	28:COM15	20:COM7
			0.000	0.000	-0.001	0.000	-0.006	0.000
			-	-	30:COM17	-	22:COM9	-
	3377	-ve	6.456	0.000	0.002	0.043	0.006	7.391
			35:CVOL4	-	20:COM7	20:COM7	20:COM7	20:COM7
			0.000	-6.936	-0.001	0.000	-0.003	0.000
			-	34:CVOL3	30:COM17	-	30:COM17	-
7810	3302	+ve	3.306	6.408	0.002	0.044	0.001	6.552
			16:COM3	35:CVOL4	20:COM7	20:COM7	28:COM15	20:COM7
			-0.141	0.000	-0.000	0.000	-0.005	0.000
			26:COM13	-	30:COM17	-	22:COM9	-
	3376	-ve	3.306	0.000	0.002	0.044	0.006	8.219
			16:COM3	-	20:COM7	20:COM7	20:COM7	20:COM7
			-0.141	-6.926	-0.000	0.000	-0.001	0.000
			26:COM13	34:CVOL3	30:COM17	-	30:COM17	-
7811	3308	+ve	3.112	6.409	0.000	0.000	0.005	6.573
			16:COM3	35:CVOL4	24:COM11	-	16:COM3	20:COM7
			-0.319	0.000	-0.001	-0.040	-0.000	0.000
			26:COM13	-	18:COM5	22:COM9	26:COM13	-
	3385	-ve	3.112	0.000	0.000	0.000	0.000	8.340
			16:COM3	-	24:COM11	-	24:COM11	20:COM7
			-0.319	-6.924	-0.001	-0.040	-0.005	0.000
			26:COM13	34:CVOL3	18:COM5	22:COM9	18:COM5	-
7812	3309	+ve	6.287	6.387	0.001	0.000	0.004	5.609
			35:CVOL4	35:CVOL4	24:COM11	-	16:COM3	20:COM7
			0.000	0.000	-0.001	-0.039	-0.002	0.000
			-	-	18:COM5	18:COM5	26:COM13	-
	3384	-ve	6.287	0.000	0.001	0.000	0.002	7.524
			35:CVOL4	-	24:COM11	-	24:COM11	20:COM7
			0.000	-6.940	-0.001	-0.039	-0.004	0.000
			-	34:CVOL3	18:COM5	18:COM5	18:COM5	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
7813	3310	+ve	7.591	6.405	0.001	0.015	0.003	5.337
			35:CVOL4	35:CVOL4	20:COM7	16:COM3	28:COM15	20:COM7
			0.000	0.000	-0.001	-0.013	-0.005	0.000
			-	-	30:COM17	26:COM13	22:COM9	-
	3383	-ve	7.591	0.000	0.001	0.015	0.004	7.064
			35:CVOL4	-	20:COM7	16:COM3	20:COM7	20:COM7
			0.000	-6.919	-0.001	-0.013	-0.003	0.000
			-	34:CVOL3	30:COM17	26:COM13	30:COM17	-
7814	3311	+ve	6.448	6.397	0.002	0.041	0.003	5.618
			35:CVOL4	35:CVOL4	20:COM7	20:COM7	28:COM15	20:COM7
			0.000	0.000	-0.001	0.000	-0.008	0.000
			-	-	30:COM17	-	22:COM9	-
	3382	-ve	6.448	0.000	0.002	0.041	0.008	7.383
			35:CVOL4	-	20:COM7	20:COM7	20:COM7	20:COM7
			0.000	-6.929	-0.001	0.000	-0.003	0.000
			-	34:CVOL3	30:COM17	-	30:COM17	-
7815	3312	+ve	3.405	6.420	0.002	0.046	0.002	6.627
			16:COM3	35:CVOL4	20:COM7	20:COM7	28:COM15	20:COM7
			-0.185	0.000	-0.000	0.000	-0.008	0.000
			26:COM13	-	30:COM17	-	22:COM9	-
	3381	-ve	3.405	0.000	0.002	0.046	0.008	8.213
			16:COM3	-	20:COM7	20:COM7	20:COM7	20:COM7
			-0.185	-6.913	-0.000	0.000	-0.001	0.000
			26:COM13	34:CVOL3	30:COM17	-	30:COM17	-
7816	3313	+ve	3.954	6.473	0.003	0.016	0.009	6.321
			20:COM7	35:CVOL4	28:COM15	28:COM15	20:COM7	20:COM7
			-1.306	0.000	-0.003	-0.030	-0.009	0.000
			30:COM17	-	22:COM9	22:COM9	30:COM17	-
	3390	-ve	3.954	0.000	0.003	0.016	0.009	8.108
			20:COM7	-	28:COM15	28:COM15	28:COM15	20:COM7
			-1.306	-6.843	-0.003	-0.030	-0.010	0.000
			30:COM17	34:CVOL3	22:COM9	22:COM9	22:COM9	-
7817	3314	+ve	7.951	6.473	0.004	0.034	0.013	5.830
			20:COM7	34:CVOL3	20:COM7	28:COM15	28:COM15	34:CVOL3
			-0.437	0.000	-0.004	-0.032	-0.015	0.000
			30:COM17	-	30:COM17	22:COM9	22:COM9	-
	3389	-ve	7.951	0.000	0.004	0.034	0.015	7.262
			20:COM7	-	20:COM7	28:COM15	20:COM7	20:COM7
			-0.437	-6.848	-0.004	-0.032	-0.013	0.000
			30:COM17	35:CVOL4	30:COM17	22:COM9	30:COM17	-
7818	3315	+ve	10.130	6.546	0.005	0.052	0.014	6.468
			20:COM7	34:CVOL3	20:COM7	20:COM7	28:COM15	20:COM7
			-1.551	0.000	-0.004	-0.022	-0.017	0.000
			30:COM17	-	30:COM17	30:COM17	22:COM9	-
	3388	-ve	10.130	0.000	0.005	0.052	0.017	6.741
			20:COM7	-	20:COM7	20:COM7	20:COM7	35:CVOL4
			-1.551	-6.792	-0.004	-0.022	-0.013	0.000
			30:COM17	35:CVOL4	30:COM17	30:COM17	30:COM17	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
7819	3316	+ve	11.530	6.681	0.006	0.048	0.015	8.571
			20:COM7	34:CVOL3	20:COM7	20:COM7	28:COM15	20:COM7
			-5.859	0.000	-0.004	-0.009	-0.019	0.000
			30:COM17	-	30:COM17	30:COM17	22:COM9	-
	3387	-ve	11.530	0.000	0.006	0.048	0.018	6.741
			20:COM7	-	20:COM7	20:COM7	20:COM7	35:CVOL4
			-5.859	-6.696	-0.004	-0.009	-0.013	0.000
			30:COM17	35:CVOL4	30:COM17	30:COM17	30:COM17	-
7820	3317	+ve	12.894	6.912	0.003	0.029	0.009	11.797
			20:COM7	34:CVOL3	20:COM7	16:COM3	28:COM15	20:COM7
			-14.133	0.000	-0.002	-0.022	-0.011	-0.596
			30:COM17	-	30:COM17	26:COM13	22:COM9	30:COM17
	3386	-ve	12.894	0.000	0.003	0.029	0.009	6.964
			20:COM7	-	20:COM7	16:COM3	20:COM7	20:COM7
			-14.133	-6.527	-0.002	-0.022	-0.007	0.000
			30:COM17	35:CVOL4	30:COM17	26:COM13	30:COM17	-
7821	3396	+ve	0.000	5.851	0.005	0.231	0.006	6.705
			-	34:CVOL3	20:COM7	20:COM7	28:COM15	20:COM7
			-3.624	0.000	-0.001	-0.051	-0.008	0.000
			18:COM5	-	30:COM17	30:COM17	22:COM9	-
	3318	-ve	0.000	0.000	0.005	0.231	0.019	5.246
			-	-	20:COM7	20:COM7	16:COM3	35:CVOL4
			-3.624	-5.371	-0.001	-0.051	0.000	0.000
			18:COM5	35:CVOL4	30:COM17	30:COM17	-	-
7822	3395	+ve	1.215	4.922	0.014	0.380	0.028	4.554
			28:COM15	34:CVOL3	20:COM7	20:COM7	28:COM15	16:COM3
			-7.474	0.000	-0.009	-0.105	-0.039	0.000
			22:COM9	-	30:COM17	30:COM17	22:COM9	-
	3222	-ve	1.215	0.000	0.014	0.380	0.040	8.979
			28:COM15	-	20:COM7	20:COM7	20:COM7	20:COM7
			-7.474	-6.297	-0.009	-0.105	-0.023	0.000
			22:COM9	35:CVOL4	30:COM17	30:COM17	30:COM17	-
7823	3394	+ve	1.300	5.198	0.016	0.351	0.039	5.569
			28:COM15	20:COM7	20:COM7	20:COM7	28:COM15	20:COM7
			-9.955	0.000	-0.012	-0.176	-0.049	-3.434
			22:COM9	-	30:COM17	30:COM17	22:COM9	30:COM17
	3320	-ve	1.300	0.000	0.016	0.351	0.042	15.712
			28:COM15	-	20:COM7	20:COM7	20:COM7	20:COM7
			-9.955	-8.186	-0.012	-0.176	-0.029	-0.309
			22:COM9	22:COM9	30:COM17	30:COM17	30:COM17	30:COM17
7824	3393	+ve	0.615	5.479	0.005	0.031	0.040	6.565
			28:COM15	20:COM7	28:COM15	24:COM17	20:COM7	20:COM7
			-13.195	-0.883	-0.012	-0.110	-0.017	-5.872
			22:COM9	30:COM17	22:COM9	18:COM5	30:COM17	30:COM17
	3319	-ve	0.615	0.000	0.005	0.031	0.012	19.414
			28:COM15	-	28:COM15	24:COM17	28:COM15	20:COM7
			-13.195	-9.334	-0.012	-0.110	-0.030	-1.527
			22:COM9	22:COM9	22:COM9	18:COM5	22:COM9	30:COM17

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
7825	3392	+ve	0.000	5.284	0.013	0.119	0.076	6.258
			-	20:COM7	28:COM15	28:COM15	20:COM7	20:COM7
			-12.480	0.000	-0.025	-0.327	-0.041	-2.542
			22:COM9	-	22:COM9	22:COM9	30:COM17	30:COM17
	3322	-ve	0.000	0.000	0.013	0.119	0.031	15.070
			-	-	28:COM15	28:COM15	28:COM15	20:COM7
			-12.480	-7.872	-0.025	-0.327	-0.065	0.000
			22:COM9	22:COM9	22:COM9	22:COM9	22:COM9	-
7826	3391	+ve	0.000	10.709	0.263	4.313	0.858	27.844
			-	20:COM7	28:COM15	28:COM15	28:COM15	20:COM7
			-4.104	-3.455	-0.283	-12.189	-0.916	-7.948
			18:COM5	30:COM17	22:COM9	22:COM9	22:COM9	30:COM17
	3321	-ve	0.000	0.000	0.263	4.313	0.649	56.113
			-	-	28:COM15	28:COM15	28:COM15	20:COM7
			-4.104	-18.214	-0.283	-12.189	-0.829	-2.655
			18:COM5	22:COM9	22:COM9	22:COM9	22:COM9	30:COM17
7827	3318	+ve	4.497	9.551	0.032	0.000	0.000	29.828
			28:COM15	20:COM7	16:COM3	-	-	20:COM7
			-7.834	0.000	0.000	-0.338	-0.075	-12.358
			22:COM9	-	-	22:COM9	18:COM5	30:COM17
	3443	-ve	4.497	0.897	0.032	0.000	0.073	8.550
			28:COM15	28:COM15	16:COM3	-	16:COM3	28:COM15
			-7.834	-3.491	0.000	-0.338	0.000	-13.685
			22:COM9	22:COM9	-	22:COM9	-	22:COM9
7831	3322	+ve	0.000	10.294	0.056	0.480	0.080	23.553
			-	34:CVOL3	20:COM7	16:COM3	28:COM15	16:COM3
			-1.477	0.000	-0.042	-0.228	-0.106	0.000
			22:COM9	-	30:COM17	26:COM13	22:COM9	-
	3448	-ve	0.000	0.642	0.056	0.480	0.145	0.476
			-	24:COM11	20:COM7	16:COM3	20:COM7	28:COM15
			-1.477	-1.160	-0.042	-0.228	-0.109	-0.595
			22:COM9	18:COM5	30:COM17	26:COM13	30:COM17	22:COM9
7832	3321	+ve	1.415	11.216	0.873	11.365	1.796	46.101
			28:COM15	34:CVOL3	28:COM15	16:COM3	20:COM7	34:CVOL3
			-5.472	0.000	-0.962	0.000	-1.665	0.000
			22:COM9	-	22:COM9	-	30:COM17	-
	3447	-ve	1.415	0.000	0.873	11.365	2.115	26.386
			28:COM15	-	28:COM15	16:COM3	28:COM15	34:CVOL3
			-5.472	-3.129	-0.962	0.000	-2.374	0.000
			22:COM9	35:CVOL4	22:COM9	-	22:COM9	-
7833	3450	+ve	0.000	0.873	0.000	0.090	0.083	0.000
			-	20:COM7	-	28:COM15	34:CVOL3	-
			-8.511	-0.170	-0.054	-0.130	0.000	-1.071
			22:COM9	30:COM17	34:CVOL3	22:COM9	-	22:COM9
	3396	-ve	0.000	0.000	0.000	0.090	0.000	6.457
			-	-	-	28:COM15	-	20:COM7
			-8.511	-5.323	-0.054	-0.130	-0.083	0.000
			22:COM9	34:CVOL3	34:CVOL3	22:COM9	34:CVOL3	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
7834	3451	+ve	0.000	1.367	0.000	0.059	0.063	0.000
			-	34:CVOL3	28:COM15	28:COM15	16:COM3	-
			-3.969	0.000	-0.043	-0.099	0.000	-0.704
			22:COM9	-	22:COM9	22:COM9	-	22:COM9
	3395	-ve	0.000	0.000	0.000	0.059	0.002	4.718
			-	-	28:COM15	28:COM15	28:COM15	20:COM7
			-3.969	-4.683	-0.043	-0.099	-0.067	0.000
			22:COM9	35:CVOL4	22:COM9	22:COM9	22:COM9	-
7835	3452	+ve	0.000	1.900	0.014	0.015	0.047	0.038
			-	34:CVOL3	28:COM15	28:COM15	20:COM7	20:COM7
			-1.794	0.000	-0.032	-0.036	-0.018	-0.253
			22:COM9	-	22:COM9	22:COM9	30:COM17	30:COM17
	3394	-ve	0.000	0.000	0.014	0.015	0.025	3.462
			-	-	28:COM15	28:COM15	28:COM15	35:CVOL4
			-1.794	-4.168	-0.032	-0.036	-0.052	0.000
			22:COM9	35:CVOL4	22:COM9	22:COM9	22:COM9	-
7836	3453	+ve	1.474	2.087	0.017	0.052	0.050	0.091
			20:COM7	34:CVOL3	28:COM15	16:COM3	20:COM7	34:CVOL3
			-2.420	0.000	-0.034	-0.062	-0.024	-0.102
			30:COM17	-	22:COM9	26:COM13	30:COM17	30:COM17
	3393	-ve	1.474	0.000	0.017	0.052	0.027	3.673
			20:COM7	-	28:COM15	16:COM3	28:COM15	20:COM7
			-2.420	-3.996	-0.034	-0.062	-0.053	0.000
			30:COM17	35:CVOL4	22:COM9	26:COM13	22:COM9	-
7837	3454	+ve	1.534	2.195	0.038	0.109	0.067	0.307
			28:COM15	20:COM7	28:COM15	20:COM7	20:COM7	20:COM7
			-3.532	0.000	-0.046	-0.106	-0.055	-0.206
			22:COM9	-	22:COM9	30:COM17	30:COM17	30:COM17
	3392	-ve	1.534	0.000	0.038	0.109	0.061	4.096
			28:COM15	-	28:COM15	20:COM7	28:COM15	20:COM7
			-3.532	-4.050	-0.046	-0.106	-0.074	0.000
			22:COM9	35:CVOL4	22:COM9	30:COM17	22:COM9	-
7838	3455	+ve	1.496	3.623	0.573	5.120	0.494	0.528
			28:COM15	28:COM15	20:COM7	20:COM7	28:COM15	28:COM15
			-1.492	-6.820	-0.373	-3.735	-0.747	-0.340
			22:COM9	22:COM9	30:COM17	30:COM17	22:COM9	22:COM9
	3391	-ve	1.496	0.000	0.573	5.120	1.005	32.936
			28:COM15	-	20:COM7	20:COM7	20:COM7	20:COM7
			-1.492	-14.972	-0.373	-3.735	-0.645	-2.601
			22:COM9	22:COM9	30:COM17	30:COM17	30:COM17	30:COM17
7839	3293	+ve	0.227	7.331	0.005	0.186	0.008	11.438
			24:COM17	34:CVOL3	20:COM7	35:CVOL4	28:COM15	16:COM3
			-0.639	0.000	-0.004	0.000	-0.008	0.000
			18:COM5	-	30:COM17	-	22:COM9	-
	3439	-ve	0.227	0.000	0.005	0.186	0.010	0.490
			24:COM17	-	20:COM7	35:CVOL4	20:COM7	16:COM3
			-0.639	-2.819	-0.004	0.000	-0.009	-0.071
			18:COM5	18:COM5	30:COM17	-	30:COM17	26:COM13

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
7840	3294	+ve	0.533	6.888	0.004	0.149	0.007	9.261
			16:COM3	34:CVOL3	20:COM7	16:COM3	28:COM15	34:CVOL3
			-0.457	0.000	-0.004	-0.079	-0.007	0.000
			26:COM13	-	30:COM17	26:COM13	22:COM9	-
	3460	-ve	0.533	0.000	0.004	0.149	0.009	0.349
			16:COM3	-	20:COM7	16:COM3	20:COM7	35:CVOL4
			-0.457	-3.320	-0.004	-0.079	-0.008	0.000
			26:COM13	35:CVOL4	30:COM17	26:COM13	30:COM17	-
7841	3295	+ve	0.639	6.949	0.003	0.109	0.006	9.414
			16:COM3	34:CVOL3	20:COM7	16:COM3	28:COM15	34:CVOL3
			-0.541	0.000	-0.003	-0.134	-0.005	0.000
			26:COM13	-	30:COM17	26:COM13	22:COM9	-
	3461	-ve	0.639	0.000	0.003	0.109	0.007	0.365
			16:COM3	-	20:COM7	16:COM3	20:COM7	20:COM7
			-0.541	-3.329	-0.003	-0.134	-0.008	-0.138
			26:COM13	35:CVOL4	30:COM17	26:COM13	30:COM17	30:COM17
7842	3296	+ve	0.525	7.414	0.003	0.137	0.006	11.051
			24:COM17	34:CVOL3	28:COM15	28:COM15	28:COM15	34:CVOL3
			-0.845	0.000	-0.003	-0.180	-0.005	0.000
			18:COM5	-	22:COM9	22:COM9	22:COM9	-
	3462	-ve	0.525	0.000	0.003	0.137	0.006	0.858
			24:COM17	-	28:COM15	28:COM15	28:COM15	28:COM15
			-0.845	-2.766	-0.003	-0.180	-0.008	-1.036
			18:COM5	35:CVOL4	22:COM9	22:COM9	22:COM9	22:COM9
7843	3297	+ve	0.424	9.157	0.006	0.326	0.007	13.931
			24:COM17	20:COM7	16:COM3	20:COM7	24:COM17	16:COM3
			-2.611	0.000	-0.004	-0.214	-0.011	0.000
			18:COM5	-	26:COM13	30:COM17	18:COM5	-
	3463	-ve	0.424	1.334	0.006	0.326	0.012	9.634
			24:COM17	28:COM15	16:COM3	20:COM7	16:COM3	28:COM15
			-2.611	-3.238	-0.004	-0.214	-0.010	-11.465
			18:COM5	22:COM9	26:COM13	30:COM17	26:COM13	22:COM9
7844	3286	+ve	0.000	7.420	0.002	0.001	0.013	11.394
			-	34:CVOL3	28:COM15	33:CVOL2	20:COM7	16:COM3
			-1.786	0.000	-0.006	-0.162	-0.003	0.000
			22:COM9	-	22:COM9	32:CVOL1	30:COM17	-
	3438	-ve	0.000	0.000	0.002	0.001	0.007	0.319
			-	-	28:COM15	33:CVOL2	28:COM15	24:COM17
			-1.786	-2.637	-0.006	-0.162	-0.013	-0.483
			22:COM9	18:COM5	22:COM9	32:CVOL1	22:COM9	18:COM5
7845	3287	+ve	0.077	7.217	0.006	0.073	0.013	10.198
			24:COM17	34:CVOL3	28:COM15	16:COM3	20:COM7	34:CVOL3
			-0.322	0.000	-0.007	-0.050	-0.011	0.000
			18:COM5	-	22:COM9	26:COM13	30:COM17	-
	3437	-ve	0.077	0.000	0.006	0.073	0.014	0.118
			24:COM17	-	28:COM15	16:COM3	28:COM15	24:COM17
			-0.322	-2.967	-0.007	-0.050	-0.015	-0.253
			18:COM5	35:CVOL4	22:COM9	26:COM13	22:COM9	18:COM5

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
7846	3288	+ve	0.336	6.867	0.005	0.101	0.011	8.950
			16:COM3	34:CVOL3	28:COM15	24:COM11	20:COM7	34:CVOL3
			-0.202	0.000	-0.006	-0.092	-0.009	0.000
			26:COM13	-	22:COM9	18:COM5	30:COM17	-
	3436	-ve	0.336	0.000	0.005	0.101	0.012	0.246
			16:COM3	-	28:COM15	24:COM11	28:COM15	35:CVOL4
			-0.202	-3.437	-0.006	-0.092	-0.014	-0.016
			26:COM13	35:CVOL4	22:COM9	18:COM5	22:COM9	32:CVOL1
7847	3292	+ve	0.000	7.887	0.001	0.196	0.008	15.520
			-	34:CVOL3	28:COM15	16:COM3	20:COM7	16:COM3
			-1.820	0.000	-0.004	-0.024	-0.001	0.000
			22:COM9	-	22:COM9	26:COM13	30:COM17	-
	3440	-ve	0.000	0.000	0.001	0.196	0.004	1.951
			-	-	28:COM15	16:COM3	28:COM15	16:COM3
			-1.820	-2.335	-0.004	-0.024	-0.009	0.000
			22:COM9	18:COM5	22:COM9	26:COM13	22:COM9	-
7848	3416	+ve	3.770	5.991	0.023	0.349	0.052	6.941
			24:COM11	16:COM3	16:COM3	16:COM3	24:COM11	16:COM3
			-5.805	0.000	-0.016	-0.144	-0.073	-1.510
			18:COM5	-	26:COM13	26:COM13	18:COM5	26:COM13
	3331	-ve	3.770	0.000	0.023	0.349	0.066	11.748
			24:COM11	-	16:COM3	16:COM3	16:COM3	16:COM3
			-5.805	-7.154	-0.016	-0.144	-0.045	-0.817
			18:COM5	18:COM5	26:COM13	26:COM13	26:COM13	26:COM13
7849	3415	+ve	5.138	6.075	0.022	0.248	0.040	6.932
			16:COM3	16:COM3	16:COM3	16:COM3	24:COM11	16:COM3
			-6.439	-0.255	-0.013	-0.049	-0.068	-5.408
			26:COM13	26:COM13	26:COM13	26:COM13	18:COM5	26:COM13
	3330	-ve	5.138	0.000	0.022	0.248	0.062	16.875
			16:COM3	-	16:COM3	16:COM3	16:COM3	16:COM3
			-6.439	-8.797	-0.013	-0.049	-0.036	-2.615
			26:COM13	18:COM5	26:COM13	26:COM13	26:COM13	26:COM13
7850	3414	+ve	4.362	5.109	0.010	0.184	0.020	4.396
			16:COM3	16:COM3	16:COM3	16:COM3	24:COM11	24:COM11
			-5.421	-0.289	-0.006	-0.120	-0.031	-5.404
			26:COM13	26:COM13	26:COM13	26:COM13	18:COM5	18:COM5
	3329	-ve	4.362	0.000	0.010	0.184	0.025	16.914
			16:COM3	-	16:COM3	16:COM3	16:COM3	16:COM3
			-5.421	-8.858	-0.006	-0.120	-0.014	-0.680
			26:COM13	18:COM5	26:COM13	26:COM13	26:COM13	26:COM13
7851	3413	+ve	3.701	4.106	0.009	0.140	0.028	1.815
			16:COM3	16:COM3	24:COM11	24:COM11	16:COM3	24:COM11
			-5.172	0.000	-0.010	-0.228	-0.026	-3.040
			26:COM13	-	18:COM5	18:COM5	26:COM13	18:COM5
	3333	-ve	3.701	0.000	0.009	0.140	0.025	14.169
			16:COM3	-	24:COM11	24:COM11	24:COM11	16:COM3
			-5.172	-7.940	-0.010	-0.228	-0.027	0.000
			26:COM13	18:COM5	18:COM5	18:COM5	18:COM5	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
7852	3412	+ve	3.352	4.008	0.009	0.071	0.040	1.257
			16:COM3	35:CVOL4	24:COM11	24:COM11	16:COM3	16:COM3
			-4.519	0.000	-0.014	-0.274	-0.027	-0.159
			26:COM13	-	18:COM5	18:COM5	26:COM13	26:COM13
	3332	-ve	3.352	0.000	0.009	0.071	0.026	10.405
			16:COM3	-	24:COM11	24:COM11	24:COM11	16:COM3
			-4.519	-7.141	-0.014	-0.274	-0.040	0.000
			26:COM13	34:CVOL3	18:COM5	18:COM5	18:COM5	-
7853	3411	+ve	0.000	4.882	0.005	0.019	0.040	3.720
			-	35:CVOL4	28:COM15	24:COM11	20:COM7	16:COM3
			-2.169	0.000	-0.014	-0.231	-0.015	0.000
			18:COM5	-	22:COM9	18:COM5	30:COM17	-
	3210	-ve	0.000	0.000	0.005	0.019	0.012	7.280
			-	-	28:COM15	24:COM11	28:COM15	34:CVOL3
			-2.169	-6.269	-0.014	-0.231	-0.039	0.000
			18:COM5	34:CVOL3	22:COM9	18:COM5	22:COM9	-
7854	3457	+ve	1.033	1.692	0.085	0.054	0.027	0.384
			16:COM3	16:COM3	20:COM7	16:COM3	28:COM15	16:COM3
			-0.211	0.000	-0.045	-0.044	-0.053	-0.240
			26:COM13	-	30:COM17	26:COM13	22:COM9	26:COM13
	3413	-ve	1.033	0.000	0.085	0.054	0.058	0.511
			16:COM3	-	20:COM7	16:COM3	16:COM3	24:COM11
			-0.211	-1.548	-0.045	-0.044	-0.033	-0.380
			26:COM13	18:COM5	30:COM17	26:COM13	26:COM13	18:COM5
7855	3458	+ve	0.269	1.554	0.165	0.098	0.049	0.249
			24:COM11	16:COM3	16:COM3	16:COM3	24:COM11	16:COM3
			-1.660	-0.847	-0.094	-0.072	-0.096	-0.360
			18:COM5	26:COM13	26:COM13	26:COM13	18:COM5	26:COM13
	3412	-ve	0.269	0.000	0.165	0.098	0.110	1.661
			24:COM11	-	16:COM3	16:COM3	16:COM3	16:COM3
			-1.660	-2.683	-0.094	-0.072	-0.068	-0.522
			18:COM5	18:COM5	26:COM13	26:COM13	26:COM13	26:COM13
7856	3459	+ve	0.141	1.095	0.083	0.158	0.032	0.353
			24:COM11	24:COM11	20:COM7	16:COM3	28:COM15	24:COM11
			-4.570	-2.644	-0.052	-0.116	-0.056	-1.166
			18:COM5	18:COM5	30:COM17	26:COM13	22:COM9	18:COM5
	3411	-ve	0.141	0.000	0.083	0.158	0.050	3.495
			24:COM11	-	20:COM7	16:COM3	20:COM7	16:COM3
			-4.570	-4.810	-0.052	-0.116	-0.036	-0.236
			18:COM5	18:COM5	30:COM17	26:COM13	30:COM17	26:COM13
7857	3331	+ve	1.616	12.965	0.021	0.851	0.050	22.164
			28:COM15	16:COM3	24:COM11	16:COM3	16:COM3	16:COM3
			-3.543	-5.514	-0.026	-0.702	-0.039	-14.938
			22:COM9	26:COM13	18:COM5	26:COM13	26:COM13	26:COM13
	3281	-ve	1.616	5.878	0.021	0.851	0.051	29.322
			28:COM15	24:COM11	24:COM11	16:COM3	24:COM11	20:COM7
			-3.543	-12.256	-0.026	-0.702	-0.061	-24.379
			22:COM9	18:COM5	18:COM5	26:COM13	18:COM5	30:COM17

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
7863	3210	+ve	4.430	6.007	0.045	0.467	0.057	14.374
			28:COM15	16:COM3	16:COM3	20:COM7	24:COM11	20:COM7
			-6.185	0.000	-0.035	-0.203	-0.073	0.000
			22:COM9	-	26:COM13	30:COM17	18:COM5	-
	5684	-ve	4.430	0.296	0.045	0.467	0.075	14.821
			28:COM15	24:COM11	16:COM3	20:COM7	16:COM3	16:COM3
			-6.185	-4.347	-0.035	-0.203	-0.060	-3.925
			22:COM9	18:COM5	26:COM13	30:COM17	26:COM13	26:COM13
7864	3332	+ve	2.889	9.336	0.023	0.344	0.039	28.841
			28:COM15	20:COM7	20:COM7	28:COM15	28:COM15	20:COM7
			-4.631	0.000	-0.017	-0.379	-0.055	-5.394
			22:COM9	-	30:COM17	22:COM9	22:COM9	30:COM17
	5686	-ve	2.889	1.232	0.023	0.344	0.047	7.481
			28:COM15	28:COM15	20:COM7	28:COM15	20:COM7	20:COM7
			-4.631	-4.073	-0.017	-0.379	-0.035	-2.948
			22:COM9	22:COM9	30:COM17	22:COM9	30:COM17	30:COM17
7865	3326	+ve	1.918	6.893	0.006	0.108	0.041	15.048
			20:COM7	20:COM7	24:COM11	24:COM11	16:COM3	20:COM7
			-1.229	-2.848	-0.026	-0.455	-0.009	-11.553
			30:COM17	30:COM17	18:COM5	18:COM5	26:COM13	30:COM17
	5680	-ve	1.918	2.003	0.006	0.108	0.013	6.904
			20:COM7	28:COM15	24:COM11	24:COM11	24:COM11	16:COM3
			-1.229	-8.448	-0.026	-0.455	-0.044	0.000
			30:COM17	22:COM9	18:COM5	18:COM5	18:COM5	-
7866	3329	+ve	2.571	5.435	0.015	0.596	0.028	21.745
			28:COM15	16:COM3	20:COM7	28:COM15	28:COM15	20:COM7
			-3.971	0.000	-0.015	-0.648	-0.029	-13.626
			22:COM9	-	30:COM17	22:COM9	22:COM9	30:COM17
	3342	-ve	2.571	0.000	0.015	0.596	0.037	21.518
			28:COM15	-	20:COM7	28:COM15	20:COM7	20:COM7
			-3.971	-4.670	-0.015	-0.648	-0.037	-16.016
			22:COM9	18:COM5	30:COM17	22:COM9	30:COM17	30:COM17
7867	3330	+ve	2.028	15.989	0.002	0.341	0.009	42.800
			20:COM7	20:COM7	28:COM15	24:COM17	20:COM7	20:COM7
			-2.204	-3.705	-0.003	-0.382	-0.004	-27.570
			30:COM17	30:COM17	22:COM9	18:COM5	30:COM17	30:COM17
	3215	-ve	2.028	3.891	0.002	0.341	0.008	37.166
			20:COM7	28:COM15	28:COM15	24:COM17	28:COM15	20:COM7
			-2.204	-15.756	-0.003	-0.382	-0.016	-23.489
			30:COM17	22:COM9	22:COM9	18:COM5	22:COM9	30:COM17
7869	3527	+ve	13.008	6.119	0.003	0.225	0.008	5.368
			20:COM7	35:CVOL4	28:COM15	20:COM7	20:COM7	20:COM7
			-6.105	0.000	-0.003	-0.115	-0.009	0.000
			30:COM17	-	22:COM9	30:COM17	30:COM17	-
	3521	-ve	13.008	0.000	0.003	0.225	0.013	8.567
			20:COM7	-	28:COM15	20:COM7	28:COM15	20:COM7
			-6.105	-7.288	-0.003	-0.115	-0.013	0.000
			30:COM17	34:CVOL3	22:COM9	30:COM17	22:COM9	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
7870	3435	+ve	0.000	5.854	0.004	0.027	0.015	5.633
			-	35:CVOL4	24:COM11	24:COM11	16:COM3	35:CVOL4
			-2.717	0.000	-0.004	-0.028	-0.013	0.000
			18:COM5	-	18:COM5	18:COM5	26:COM13	-
	3335	-ve	0.000	0.000	0.004	0.027	0.010	6.660
			-	-	24:COM11	24:COM11	24:COM11	34:CVOL3
			-2.717	-6.189	-0.004	-0.028	-0.011	0.000
			18:COM5	34:CVOL3	18:COM5	18:COM5	18:COM5	-
7871	5470	+ve	21.066	10.941	0.471	15.844	0.515	12.347
			28:COM15	16:COM3	24:COM11	16:COM3	16:COM3	16:COM3
			-39.282	-1.571	-0.510	-4.539	-0.446	-4.378
			22:COM9	26:COM13	18:COM5	26:COM13	26:COM13	26:COM13
	5511	-ve	21.066	6.153	0.471	15.844	0.472	2.747
			28:COM15	24:COM11	24:COM11	16:COM3	24:COM11	24:COM11
			-39.282	-5.307	-0.510	-4.539	-0.480	-4.739
			22:COM9	18:COM5	18:COM5	26:COM13	18:COM5	18:COM5
7872	3417	+ve	2.785	10.656	0.014	0.047	0.000	12.822
			16:COM3	20:COM7	16:COM3	28:COM15	-	20:COM7
			0.000	0.000	0.000	-0.108	-0.054	0.000
			-	-	-	22:COM9	18:COM5	-
	3337	-ve	2.785	0.000	0.014	0.047	0.034	22.137
			16:COM3	-	16:COM3	28:COM15	16:COM3	20:COM7
			0.000	-10.940	0.000	-0.108	-0.004	-4.624
			-	22:COM9	-	22:COM9	26:COM13	30:COM17
7873	3418	+ve	3.570	6.068	0.009	0.007	0.000	6.992
			28:COM15	34:CVOL3	16:COM3	28:COM15	-	20:COM7
			-7.617	0.000	0.000	-0.067	-0.030	0.000
			22:COM9	-	-	22:COM9	18:COM5	-
	3338	-ve	3.570	0.000	0.009	0.007	0.025	8.308
			28:COM15	-	16:COM3	28:COM15	16:COM3	20:COM7
			-7.617	-5.981	0.000	-0.067	-0.000	0.000
			22:COM9	35:CVOL4	-	22:COM9	26:COM13	-
7874	3456	+ve	0.000	1.298	0.000	0.039	0.054	0.138
			-	16:COM3	-	24:COM11	16:COM3	24:COM11
			-3.359	-0.541	-0.035	-0.279	0.000	-2.425
			22:COM9	26:COM13	18:COM5	18:COM5	-	18:COM5
	3398	-ve	0.000	0.000	0.000	0.039	0.000	6.190
			-	-	-	24:COM11	-	20:COM7
			-3.359	-5.460	-0.035	-0.279	-0.053	0.000
			22:COM9	18:COM5	18:COM5	18:COM5	18:COM5	-
7875	3398	+ve	0.000	5.841	0.004	0.176	0.009	6.116
			-	35:CVOL4	28:COM15	20:COM7	20:COM7	20:COM7
			-4.537	0.000	-0.004	-0.120	-0.011	0.000
			32:CVOL1	-	22:COM9	30:COM17	30:COM17	-
	3339	-ve	0.000	0.000	0.004	0.176	0.015	7.110
			-	-	28:COM15	20:COM7	28:COM15	16:COM3
			-4.537	-6.099	-0.004	-0.120	-0.013	0.000
			32:CVOL1	34:CVOL3	22:COM9	30:COM17	22:COM9	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
7876	3397	+ve	0.051	5.605	0.008	0.240	0.010	6.247
			24:COM1	35:CVOL4	20:COM7	20:COM7	28:COM1	16:COM3
			-5.698	0.000	-0.004	-0.105	-0.023	0.000
			18:COM5	-	30:COM1	30:COM1	22:COM9	-
	3340	-ve	0.051	0.000	0.008	0.240	0.025	9.165
			24:COM1	-	20:COM7	20:COM7	20:COM7	16:COM3
			-5.698	-6.285	-0.004	-0.105	-0.012	0.000
			18:COM5	34:CVOL3	30:COM1	30:COM1	30:COM1	-
7877	3342	+ve	4.826	29.345	0.013	0.110	0.032	28.262
			28:COM1	20:COM7	24:COM1	28:COM1	16:COM3	20:COM7
			-5.145	-17.038	-0.028	-1.188	-0.018	-14.567
			22:COM9	30:COM1	18:COM5	22:COM9	26:COM1	30:COM1
	5681	-ve	4.826	24.669	0.013	0.110	0.020	27.964
			28:COM1	20:COM7	24:COM1	28:COM1	28:COM1	28:COM1
			-5.145	-19.854	-0.028	-1.188	-0.043	-33.989
			22:COM9	30:COM1	18:COM5	22:COM9	22:COM9	22:COM9
7878	3339	+ve	0.000	6.930	0.011	0.207	0.025	10.951
			-	34:CVOL3	28:COM1	16:COM3	20:COM7	20:COM7
			-1.375	0.000	-0.012	-0.023	-0.021	0.000
			18:COM5	-	22:COM9	26:COM1	30:COM1	-
	3446	-ve	0.000	0.000	0.011	0.207	0.024	2.121
			-	-	28:COM1	16:COM3	28:COM1	20:COM7
			-1.375	-3.089	-0.012	-0.023	-0.026	-0.111
			18:COM5	22:COM9	22:COM9	26:COM1	22:COM9	30:COM1
7879	3340	+ve	0.000	6.878	0.007	0.201	0.016	10.295
			-	34:CVOL3	28:COM1	16:COM3	20:COM7	16:COM3
			-0.689	0.000	-0.008	-0.181	-0.014	0.000
			18:COM5	-	22:COM9	26:COM1	30:COM1	-
	3445	-ve	0.000	0.000	0.007	0.201	0.015	0.617
			-	-	28:COM1	16:COM3	28:COM1	16:COM3
			-0.689	-3.256	-0.008	-0.181	-0.017	0.000
			18:COM5	18:COM5	22:COM9	26:COM1	22:COM9	-
7880	3343	+ve	2.058	0.000	0.074	0.668	0.031	22.206
			28:COM1	-	20:COM7	20:COM7	28:COM1	34:CVOL3
			-2.541	-7.665	-0.020	-0.168	-0.078	0.000
			22:COM9	18:COM5	30:COM1	30:COM1	22:COM9	-
	3257	-ve	2.058	0.000	0.074	0.668	0.082	40.146
			28:COM1	-	20:COM7	20:COM7	20:COM7	16:COM3
			-2.541	-9.782	-0.020	-0.168	-0.013	0.000
			22:COM9	18:COM5	30:COM1	30:COM1	30:COM1	-
7881	3344	+ve	4.157	9.133	0.050	0.000	0.006	21.567
			20:COM7	16:COM3	20:COM7	-	28:COM1	16:COM3
			-2.152	0.000	-0.027	-0.764	-0.036	-6.232
			30:COM1	-	30:COM1	18:COM5	22:COM9	26:COM1
	3345	-ve	4.157	7.227	0.050	0.000	0.061	6.194
			20:COM7	16:COM3	20:COM7	-	20:COM7	24:COM1
			-2.152	0.000	-0.027	-0.764	-0.048	-8.862
			30:COM1	-	30:COM1	18:COM5	30:COM1	18:COM5

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
7882	3345	+ve	2.611	6.519	0.041	0.291	0.022	6.060
			20:COM7	16:COM3	20:COM7	24:COM1	28:COM1	24:COM1
			-1.598	-0.654	-0.032	-0.540	-0.034	-8.875
			30:COM1	26:COM1	30:COM1	18:COM5	22:COM9	18:COM5
	3346	-ve	2.611	4.613	0.041	0.291	0.046	0.000
			20:COM7	16:COM3	20:COM7	24:COM1	20:COM7	-
			-1.598	-2.083	-0.032	-0.540	-0.041	-8.021
			30:COM1	26:COM1	30:COM1	18:COM5	30:COM1	18:COM5
7883	3346	+ve	3.526	3.027	0.019	0.599	0.039	0.000
			28:COM1	16:COM3	28:COM1	16:COM3	20:COM7	-
			-3.611	-2.481	-0.040	-0.176	-0.019	-7.916
			22:COM9	26:COM1	22:COM9	26:COM1	30:COM1	18:COM5
	3347	-ve	3.526	1.580	0.019	0.599	0.019	0.741
			28:COM1	24:COM1	28:COM1	16:COM3	28:COM1	24:COM1
			-3.611	-4.369	-0.040	-0.176	-0.040	-9.531
			22:COM9	18:COM5	22:COM9	26:COM1	22:COM9	18:COM5
7884	3347	+ve	5.882	0.136	0.000	0.655	0.029	0.870
			28:COM1	24:COM1	-	34:CVOL	20:COM7	24:COM1
			-6.561	-4.249	-0.022	0.000	-0.002	-9.479
			22:COM9	18:COM5	18:COM5	-	30:COM1	18:COM5
	3348	-ve	5.882	0.000	0.000	0.655	0.000	9.153
			28:COM1	-	-	34:CVOL	-	16:COM3
			-6.561	-6.154	-0.022	0.000	-0.021	-6.491
			22:COM9	18:COM5	18:COM5	-	18:COM5	26:COM1
7885	3348	+ve	8.142	0.000	0.117	1.286	0.017	9.252
			28:COM1	-	16:COM3	16:COM3	24:COM1	16:COM3
			-10.042	-4.989	-0.022	-0.209	-0.109	-6.348
			22:COM9	22:COM9	26:COM1	26:COM1	18:COM5	26:COM1
	3258	-ve	8.142	0.000	0.117	1.286	0.120	20.489
			28:COM1	-	16:COM3	16:COM3	16:COM3	16:COM3
			-10.042	-6.970	-0.022	-0.209	-0.026	0.000
			22:COM9	33:CVOL2	26:COM1	26:COM1	26:COM1	-
7886	3349	+ve	10.512	6.244	0.027	0.000	0.007	9.450
			28:COM1	16:COM3	20:COM7	-	28:COM1	16:COM3
			-12.615	0.000	-0.004	-0.610	-0.029	-4.434
			22:COM9	-	30:COM1	22:COM9	22:COM9	26:COM1
	3350	-ve	10.512	4.338	0.027	0.000	0.024	0.830
			28:COM1	16:COM3	20:COM7	-	20:COM7	24:COM1
			-12.615	0.000	-0.004	-0.610	-0.001	-9.132
			22:COM9	-	30:COM1	22:COM9	30:COM1	18:COM5
7887	3350	+ve	11.198	4.669	0.034	0.265	0.020	0.690
			28:COM1	16:COM3	16:COM3	24:COM1	24:COM1	24:COM1
			-14.032	-0.335	-0.018	-0.657	-0.035	-9.158
			22:COM9	26:COM1	26:COM1	18:COM5	18:COM5	18:COM5
	3351	-ve	11.198	2.763	0.034	0.265	0.032	0.000
			28:COM1	16:COM3	16:COM3	24:COM1	16:COM3	-
			-14.032	-1.764	-0.018	-0.657	-0.016	-8.874
			22:COM9	26:COM1	26:COM1	18:COM5	26:COM1	34:CVOL

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
7888	3351	+ve	12.073	1.964	0.017	0.561	0.035	0.000
			28:COM15	24:COM11	24:COM11	16:COM3	16:COM3	-
			-15.240	-2.507	-0.032	-0.321	-0.019	-8.890
			22:COM9	18:COM5	18:COM5	26:COM13	26:COM13	34:CVOL3
	3352	-ve	12.073	0.535	0.017	0.561	0.015	0.615
			28:COM15	24:COM11	24:COM11	16:COM3	24:COM11	24:COM11
			-15.240	-4.413	-0.032	-0.321	-0.029	-9.993
			22:COM9	18:COM5	18:COM5	26:COM13	18:COM5	18:COM5
7889	3352	+ve	13.043	0.000	0.000	0.598	0.026	0.744
			28:COM15	-	-	16:COM3	20:COM7	24:COM11
			-16.172	-4.350	-0.018	0.000	-0.003	-9.985
			22:COM9	18:COM5	18:COM5	-	30:COM17	18:COM5
	3353	-ve	13.043	0.000	0.000	0.598	0.002	9.119
			28:COM15	-	-	16:COM3	28:COM15	16:COM3
			-16.172	-6.256	-0.018	0.000	-0.020	-5.351
			22:COM9	18:COM5	18:COM5	-	22:COM9	26:COM13
7890	3353	+ve	13.700	0.000	0.107	1.145	0.000	9.211
			28:COM15	-	16:COM3	16:COM3	24:COM11	16:COM3
			-17.911	-5.455	-0.002	-0.198	-0.101	-5.238
			22:COM9	22:COM9	26:COM13	26:COM13	18:COM5	26:COM13
	3259	-ve	13.700	0.000	0.107	1.145	0.109	20.726
			28:COM15	-	16:COM3	16:COM3	16:COM3	16:COM3
			-17.911	-7.360	-0.002	-0.198	-0.005	0.000
			22:COM9	33:CVOL2	26:COM13	26:COM13	26:COM13	-
7891	3354	+ve	13.663	6.420	0.019	0.000	0.003	10.205
			28:COM15	16:COM3	16:COM3	-	28:COM15	16:COM3
			-16.803	0.000	0.000	-0.637	-0.022	-4.600
			22:COM9	-	-	18:COM5	22:COM9	26:COM13
	3355	-ve	13.663	4.515	0.019	0.000	0.025	1.193
			28:COM15	16:COM3	16:COM3	-	20:COM7	24:COM11
			-16.803	0.000	0.000	-0.637	-0.000	-9.275
			22:COM9	-	-	18:COM5	30:COM17	18:COM5
7892	3355	+ve	13.206	4.755	0.037	0.274	0.015	1.050
			28:COM15	16:COM3	16:COM3	24:COM11	24:COM11	24:COM11
			-16.481	-0.284	-0.015	-0.657	-0.035	-9.299
			22:COM9	26:COM13	26:COM13	18:COM5	18:COM5	18:COM5
	3356	-ve	13.206	2.849	0.037	0.274	0.039	0.000
			28:COM15	16:COM3	16:COM3	24:COM11	20:COM7	-
			-16.481	-1.713	-0.015	-0.657	-0.016	-8.889
			22:COM9	26:COM13	26:COM13	18:COM5	30:COM17	35:CVOL4
7893	3356	+ve	12.853	1.967	0.020	0.563	0.029	0.000
			28:COM15	24:COM11	24:COM11	16:COM3	16:COM3	-
			-15.986	-2.379	-0.030	-0.312	-0.020	-8.900
			22:COM9	18:COM5	18:COM5	26:COM13	26:COM13	35:CVOL4
	3357	-ve	12.853	0.538	0.020	0.563	0.022	0.118
			28:COM15	24:COM11	24:COM11	16:COM3	28:COM15	24:COM11
			-15.986	-4.285	-0.030	-0.312	-0.030	-9.795
			22:COM9	18:COM5	18:COM5	26:COM13	22:COM9	18:COM5

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
7894	3357	+ve	12.679	0.000	0.003	0.576	0.018	0.245
			28:COM15	-	28:COM15	16:COM3	20:COM7	24:COM17
			-15.381	-4.144	-0.021	0.000	0.000	-9.784
			22:COM9	18:COM5	22:COM9	-	-	18:COM5
	3358	-ve	12.679	0.000	0.003	0.576	0.008	8.169
			28:COM15	-	28:COM15	16:COM3	28:COM15	16:COM3
			-15.381	-6.049	-0.021	0.000	-0.024	-5.035
			22:COM9	18:COM5	22:COM9	-	22:COM9	26:COM13
7895	3358	+ve	12.457	0.000	0.098	1.153	0.000	8.248
			28:COM15	-	16:COM3	16:COM3	-	16:COM3
			-15.739	-5.278	0.000	-0.278	-0.094	-4.918
			22:COM9	35:CVOL4	-	26:COM13	18:COM5	26:COM13
	3260	-ve	12.457	0.000	0.098	1.153	0.099	19.216
			28:COM15	-	16:COM3	16:COM3	16:COM3	16:COM3
			-15.739	-7.241	0.000	-0.278	-0.002	0.000
			22:COM9	33:CVOL2	-	26:COM13	26:COM13	-
7896	3359	+ve	8.584	6.450	0.021	0.000	0.000	10.432
			28:COM15	16:COM3	16:COM3	-	-	16:COM3
			-10.564	0.000	0.000	-0.680	-0.022	-5.957
			22:COM9	-	-	34:CVOL3	22:COM9	26:COM13
	3360	-ve	8.584	4.545	0.021	0.000	0.029	1.326
			28:COM15	16:COM3	16:COM3	-	20:COM7	24:COM17
			-10.564	0.000	0.000	-0.680	-0.002	-9.143
			22:COM9	-	-	34:CVOL3	30:COM17	18:COM5
7897	3360	+ve	6.000	4.857	0.050	0.139	0.022	1.186
			28:COM15	16:COM3	20:COM7	24:COM17	28:COM15	24:COM17
			-7.959	-1.280	-0.024	-0.680	-0.048	-9.208
			22:COM9	26:COM13	30:COM17	18:COM5	22:COM9	18:COM5
	3361	-ve	6.000	2.952	0.050	0.139	0.050	0.000
			28:COM15	16:COM3	20:COM7	24:COM17	20:COM7	-
			-7.959	-2.709	-0.024	-0.680	-0.024	-8.263
			22:COM9	26:COM13	30:COM17	18:COM5	30:COM17	18:COM5
7898	3361	+ve	3.681	2.403	0.042	0.474	0.049	0.000
			28:COM15	24:COM11	28:COM15	16:COM3	20:COM7	-
			-5.080	-4.105	-0.045	-0.342	-0.046	-8.380
			22:COM9	18:COM5	22:COM9	26:COM13	30:COM17	18:COM5
	3362	-ve	3.681	0.974	0.042	0.474	0.035	4.980
			28:COM15	24:COM11	28:COM15	16:COM3	28:COM15	24:COM17
			-5.080	-6.011	-0.045	-0.342	-0.039	-10.210
			22:COM9	18:COM5	22:COM9	26:COM13	22:COM9	18:COM5
7899	3362	+ve	2.424	0.000	0.034	0.744	0.065	5.107
			28:COM15	-	28:COM15	16:COM3	20:COM7	24:COM17
			-2.789	-6.835	-0.051	0.000	-0.051	-10.215
			22:COM9	18:COM5	22:COM9	-	30:COM17	18:COM5
	3363	-ve	2.424	0.000	0.034	0.744	0.017	19.112
			28:COM15	-	28:COM15	16:COM3	28:COM15	16:COM3
			-2.789	-8.740	-0.051	0.000	-0.036	-7.535
			22:COM9	18:COM5	22:COM9	-	22:COM9	26:COM13

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
7900	3363	+ve	1.742	0.000	0.094	1.037	0.011	19.293
			28:COM15	-	20:COM7	34:CVOL3	28:COM15	16:COM3
			-2.597	-8.536	-0.009	0.000	-0.097	-7.455
			22:COM9	18:COM5	30:COM17	-	22:COM9	26:COM13
	3261	-ve	1.742	0.000	0.094	1.037	0.086	37.742
			28:COM15	-	20:COM7	34:CVOL3	20:COM7	16:COM3
			-2.597	-10.441	-0.009	0.000	-0.008	-0.850
			22:COM9	18:COM5	30:COM17	-	30:COM17	26:COM13
7901	3364	+ve	1.738	7.716	0.055	0.379	0.000	21.045
			24:COM11	16:COM3	16:COM3	28:COM15	-	34:CVOL3
			-2.374	0.000	0.000	-0.795	-0.049	0.000
			18:COM5	-	-	22:COM9	18:COM5	-
	3365	-ve	1.738	5.703	0.055	0.379	0.067	7.927
			24:COM11	16:COM3	16:COM3	28:COM15	16:COM3	32:CVOL1
			-2.374	0.000	0.000	-0.795	0.000	0.000
			18:COM5	-	-	22:COM9	-	-
7902	3366	+ve	3.892	0.140	0.005	0.000	0.033	12.878
			24:COM11	28:COM15	24:COM11	-	16:COM3	16:COM3
			-5.646	-4.016	-0.035	-0.488	-0.004	-9.239
			18:COM5	22:COM9	18:COM5	18:COM5	26:COM13	26:COM13
	3280	-ve	3.892	0.000	0.005	0.000	0.006	15.631
			24:COM11	-	24:COM11	-	24:COM11	16:COM3
			-5.646	-4.690	-0.035	-0.488	-0.036	-3.282
			18:COM5	22:COM9	18:COM5	18:COM5	18:COM5	26:COM13
7903	3367	+ve	4.345	0.793	0.032	0.000	0.020	3.373
			24:COM11	24:COM11	16:COM3	-	24:COM11	24:COM11
			-4.854	-5.084	-0.018	-0.386	-0.035	-9.704
			18:COM5	18:COM5	26:COM13	22:COM9	18:COM5	18:COM5
	3366	-ve	4.345	0.287	0.032	0.000	0.027	12.531
			24:COM11	24:COM11	16:COM3	-	16:COM3	16:COM3
			-4.854	-5.759	-0.018	-0.386	-0.014	-9.342
			18:COM5	18:COM5	26:COM13	22:COM9	26:COM13	26:COM13
7904	3368	+ve	4.037	2.631	0.032	0.008	0.025	0.000
			24:COM11	24:COM11	16:COM3	24:COM11	24:COM11	-
			-4.728	-3.595	-0.025	-0.149	-0.029	-6.432
			18:COM5	18:COM5	26:COM13	18:COM5	18:COM5	35:CVOL4
	3367	-ve	4.037	2.125	0.032	0.008	0.034	3.226
			24:COM11	24:COM11	16:COM3	24:COM11	16:COM3	24:COM11
			-4.728	-4.270	-0.025	-0.149	-0.024	-9.781
			18:COM5	18:COM5	26:COM13	18:COM5	26:COM13	18:COM5
7906	3370	+ve	4.159	6.157	0.009	0.385	0.030	14.452
			28:COM15	16:COM3	24:COM11	16:COM3	16:COM3	16:COM3
			-4.020	-0.067	-0.035	0.000	-0.006	-8.395
			22:COM9	26:COM13	18:COM5	-	26:COM13	26:COM13
	3369	-ve	4.159	5.483	0.009	0.385	0.012	4.088
			28:COM15	16:COM3	24:COM11	16:COM3	24:COM11	24:COM11
			-4.020	-0.573	-0.035	0.000	-0.039	-8.755
			22:COM9	26:COM13	18:COM5	-	18:COM5	18:COM5

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
7907	3370	+ve	1.293	2.406	0.000	0.000	0.207	0.408
			24:COM1	24:COM1	-	-	20:COM7	24:COM1
			-5.284	-5.500	-0.553	-0.278	0.000	-0.960
			18:COM5	18:COM5	22:COM9	18:COM5	-	18:COM5
	3308	-ve	1.293	1.656	0.000	0.000	0.000	3.654
			24:COM1	24:COM1	-	-	-	16:COM3
			-5.284	-6.799	-0.553	-0.278	-0.208	-1.117
			18:COM5	18:COM5	22:COM9	18:COM5	22:COM9	26:COM1
7908	3369	+ve	0.806	1.748	0.000	0.000	0.149	0.303
			16:COM3	16:COM3	-	-	16:COM3	16:COM3
			-0.477	0.000	-0.369	-0.160	0.000	0.000
			26:COM1	-	18:COM5	18:COM5	-	-
	3309	-ve	0.806	0.478	0.000	0.000	0.000	0.221
			16:COM3	24:COM1	-	-	-	24:COM1
			-0.477	-0.605	-0.369	-0.160	-0.127	-0.527
			26:COM1	18:COM5	18:COM5	18:COM5	18:COM5	18:COM5
7909	3368	+ve	0.963	2.010	0.081	0.028	0.041	0.355
			16:COM3	35:CVOL4	24:COM1	24:COM1	16:COM3	20:COM7
			0.000	0.000	-0.089	-0.030	-0.036	0.000
			-	-	18:COM5	18:COM5	26:COM1	-
	3310	-ve	0.963	0.574	0.081	0.028	0.025	0.000
			16:COM3	20:COM7	24:COM1	24:COM1	24:COM1	-
			0.000	0.000	-0.089	-0.030	-0.026	-0.602
			-	-	18:COM5	18:COM5	18:COM5	35:CVOL4
7910	3367	+ve	1.223	1.913	0.357	0.157	0.005	0.350
			16:COM3	16:COM3	16:COM3	16:COM3	24:COM1	16:COM3
			-0.612	0.000	0.000	0.000	-0.144	0.000
			26:COM1	-	-	-	18:COM5	-
	3311	-ve	1.223	0.614	0.357	0.157	0.124	0.163
			16:COM3	16:COM3	16:COM3	16:COM3	16:COM3	24:COM1
			-0.612	-0.516	0.000	0.000	0.000	-0.605
			26:COM1	26:COM1	-	-	-	18:COM5
7911	3366	+ve	2.265	3.269	0.576	0.285	0.000	0.592
			24:COM1	24:COM1	20:COM7	20:COM7	-	24:COM1
			-4.976	-4.865	0.000	0.000	-0.215	-0.868
			18:COM5	18:COM5	-	-	22:COM9	18:COM5
	3312	-ve	2.265	2.520	0.576	0.285	0.218	3.269
			24:COM1	24:COM1	20:COM7	20:COM7	20:COM7	16:COM3
			-4.976	-6.164	0.000	0.000	0.000	-1.579
			18:COM5	18:COM5	-	-	-	26:COM1
7912	3371	+ve	13.664	0.000	1.777	8.048	0.950	46.339
			28:COM1	-	20:COM7	16:COM3	28:COM1	16:COM3
			-15.581	-39.869	-1.130	-0.333	-1.508	-38.766
			22:COM9	18:COM5	30:COM1	26:COM1	22:COM9	26:COM1
	3225	-ve	13.664	0.000	1.777	8.048	1.960	126.268
			28:COM1	-	20:COM7	16:COM3	20:COM7	16:COM3
			-15.581	-42.118	-1.130	-0.333	-1.257	-31.260
			22:COM9	18:COM5	30:COM1	26:COM1	30:COM1	26:COM1

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
7913	3372	+ve	11.192	3.149	0.894	4.616	0.564	3.296
			28:COM15	24:COM11	20:COM7	20:COM7	20:COM7	24:COM11
			-13.776	-26.012	-0.697	0.000	-0.701	-43.892
			22:COM9	18:COM5	30:COM17	-	30:COM17	18:COM5
	3371	-ve	11.192	1.462	0.894	4.616	1.049	46.444
			28:COM15	24:COM11	20:COM7	20:COM7	20:COM7	16:COM3
			-13.776	-28.261	-0.697	0.000	-0.801	-38.620
			22:COM9	18:COM5	30:COM17	-	30:COM17	26:COM13
7914	3373	+ve	9.259	9.285	0.590	2.807	0.432	0.000
			28:COM15	24:COM11	20:COM7	16:COM3	28:COM15	-
			-11.018	-13.395	-0.440	-0.414	-0.614	-36.370
			22:COM9	18:COM5	30:COM17	26:COM13	22:COM9	35:CVOL4
	3372	-ve	9.259	7.599	0.590	2.807	0.540	3.424
			28:COM15	24:COM11	20:COM7	16:COM3	20:COM7	24:COM11
			-11.018	-15.644	-0.440	-0.414	-0.428	-43.847
			22:COM9	18:COM5	30:COM17	26:COM13	30:COM17	18:COM5
7915	3374	+ve	6.508	19.010	0.552	1.041	0.220	11.664
			28:COM15	16:COM3	20:COM7	24:COM11	28:COM15	24:COM11
			-7.508	-5.172	-0.199	-2.907	-0.595	-40.799
			22:COM9	26:COM13	30:COM17	18:COM5	22:COM9	18:COM5
	3373	-ve	6.508	16.761	0.552	1.041	0.487	0.000
			28:COM15	16:COM3	20:COM7	24:COM11	20:COM7	-
			-7.508	-6.859	-0.199	-2.907	-0.173	-36.377
			22:COM9	26:COM13	30:COM17	18:COM5	30:COM17	35:CVOL4
7916	3375	+ve	4.811	30.697	0.461	0.000	0.147	62.122
			28:COM15	16:COM3	16:COM3	-	28:COM15	16:COM3
			-5.962	0.000	-0.106	-4.821	-0.649	-33.271
			22:COM9	-	26:COM13	18:COM5	22:COM9	26:COM13
	3374	-ve	4.811	28.449	0.461	0.000	0.518	11.527
			28:COM15	16:COM3	16:COM3	-	20:COM7	24:COM11
			-5.962	-0.589	-0.106	-4.821	-0.329	-40.840
			22:COM9	26:COM13	26:COM13	18:COM5	30:COM17	18:COM5
7917	3376	+ve	20.734	0.000	0.745	7.009	0.149	45.914
			28:COM15	-	20:COM7	20:COM7	28:COM15	16:COM3
			-26.931	-40.159	-0.302	-0.737	-0.594	-36.514
			22:COM9	18:COM5	30:COM17	30:COM17	22:COM9	26:COM13
	3226	-ve	20.734	0.000	0.745	7.009	0.877	126.375
			28:COM15	-	20:COM7	20:COM7	20:COM7	16:COM3
			-26.931	-42.407	-0.302	-0.737	-0.458	-24.763
			22:COM9	18:COM5	30:COM17	30:COM17	30:COM17	26:COM13
7918	3377	+ve	20.032	1.182	0.267	3.726	0.145	2.958
			28:COM15	24:COM11	28:COM15	20:COM7	16:COM3	24:COM11
			-27.053	-26.242	-0.192	0.000	-0.155	-46.002
			22:COM9	18:COM5	22:COM9	-	26:COM13	18:COM5
	3376	-ve	20.032	0.000	0.267	3.726	0.413	46.041
			28:COM15	-	28:COM15	20:COM7	28:COM15	16:COM3
			-27.053	-28.491	-0.192	0.000	-0.277	-36.381
			22:COM9	18:COM5	22:COM9	-	22:COM9	26:COM13

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
7919	3378	+ve	19.383	7.628	0.097	2.428	0.129	0.000
			28:COM15	24:COM11	28:COM15	16:COM3	20:COM7	-
			-25.836	-13.545	-0.175	-1.135	-0.054	-39.808
			22:COM9	18:COM5	22:COM9	26:COM13	30:COM17	34:CVOL3
	3377	-ve	19.383	5.941	0.097	2.428	0.196	3.111
			28:COM15	24:COM11	28:COM15	16:COM3	28:COM15	24:COM11
			-25.836	-15.793	-0.175	-1.135	-0.272	-45.969
			22:COM9	18:COM5	22:COM9	26:COM13	22:COM9	18:COM5
7920	3379	+ve	18.280	17.704	0.183	0.884	0.032	4.673
			28:COM15	16:COM3	20:COM7	24:COM11	28:COM15	24:COM11
			-24.543	-4.918	-0.051	-2.930	-0.168	-41.826
			22:COM9	26:COM13	30:COM17	18:COM5	22:COM9	18:COM5
	3378	-ve	18.280	15.456	0.183	0.884	0.259	0.000
			28:COM15	16:COM3	20:COM7	24:COM11	20:COM7	-
			-24.543	-6.605	-0.051	-2.930	-0.137	-39.820
			22:COM9	26:COM13	30:COM17	18:COM5	30:COM17	34:CVOL3
7921	3380	+ve	16.838	30.717	0.320	0.000	0.187	53.428
			28:COM15	16:COM3	20:COM7	-	28:COM15	16:COM3
			-23.272	0.000	-0.181	-3.984	-0.310	-31.789
			22:COM9	-	30:COM17	22:COM9	22:COM9	26:COM13
	3379	-ve	16.838	28.468	0.320	0.000	0.327	4.512
			28:COM15	16:COM3	20:COM7	-	20:COM7	24:COM11
			-23.272	-0.181	-0.181	-3.984	-0.178	-41.870
			22:COM9	26:COM13	30:COM17	22:COM9	30:COM17	18:COM5
7922	3381	+ve	18.861	0.000	0.614	7.069	0.315	45.627
			28:COM15	-	20:COM7	20:COM7	28:COM15	16:COM3
			-23.457	-40.326	-0.310	-1.047	-0.608	-35.935
			22:COM9	18:COM5	30:COM17	30:COM17	22:COM9	26:COM13
	3227	-ve	18.861	0.000	0.614	7.069	0.602	126.414
			28:COM15	-	20:COM7	20:COM7	20:COM7	16:COM3
			-23.457	-42.574	-0.310	-1.047	-0.303	-24.169
			22:COM9	18:COM5	30:COM17	30:COM17	30:COM17	26:COM13
7923	3382	+ve	19.958	1.154	0.208	3.738	0.243	2.419
			28:COM15	24:COM11	28:COM15	20:COM7	20:COM7	24:COM11
			-26.137	-26.352	-0.226	0.000	-0.197	-45.450
			22:COM9	18:COM5	22:COM9	-	30:COM17	18:COM5
	3381	-ve	19.958	0.000	0.208	3.738	0.233	45.742
			28:COM15	-	28:COM15	20:COM7	24:COM11	16:COM3
			-26.137	-28.601	-0.226	0.000	-0.224	-35.798
			22:COM9	18:COM5	22:COM9	-	18:COM5	26:COM13
7924	3383	+ve	20.901	7.559	0.045	2.409	0.191	0.000
			28:COM15	24:COM11	24:COM11	16:COM3	20:COM7	-
			-26.958	-13.581	-0.129	-1.103	-0.109	-39.891
			22:COM9	18:COM5	18:COM5	26:COM13	30:COM17	34:CVOL3
	3382	-ve	20.901	5.872	0.045	2.409	0.101	2.569
			28:COM15	24:COM11	24:COM11	16:COM3	28:COM15	24:COM11
			-26.958	-15.830	-0.129	-1.103	-0.181	-45.416
			22:COM9	18:COM5	18:COM5	26:COM13	22:COM9	18:COM5

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
7925	3384	+ve	21.585	17.557	0.153	0.915	0.136	4.824
			28:COM15	16:COM3	16:COM3	24:COM17	28:COM15	24:COM17
			-27.919	-4.882	-0.047	-2.971	-0.239	-42.387
			22:COM9	26:COM13	26:COM13	18:COM5	22:COM9	18:COM5
	3383	-ve	21.585	15.308	0.153	0.915	0.183	0.000
			28:COM15	16:COM3	16:COM3	24:COM17	16:COM3	-
			-27.919	-6.569	-0.047	-2.971	-0.080	-39.904
			22:COM9	26:COM13	26:COM13	18:COM5	26:COM13	34:CVOL3
7926	3385	+ve	21.790	30.490	0.181	0.000	0.324	53.073
			28:COM15	16:COM3	16:COM3	-	28:COM15	16:COM3
			-28.620	0.000	-0.223	-4.038	-0.224	-32.150
			22:COM9	-	26:COM13	22:COM9	22:COM9	26:COM13
	3384	-ve	21.790	28.241	0.181	0.000	0.194	4.659
			28:COM15	16:COM3	16:COM3	-	16:COM3	24:COM17
			-28.620	-0.109	-0.223	-4.038	-0.176	-42.431
			22:COM9	26:COM13	26:COM13	22:COM9	26:COM13	18:COM5
7927	3386	+ve	5.544	0.000	0.933	7.386	0.544	52.645
			28:COM15	-	20:COM7	20:COM7	28:COM15	16:COM3
			-9.064	-39.440	-0.578	0.000	-1.010	-37.950
			22:COM9	18:COM5	30:COM17	-	22:COM9	26:COM13
	3228	-ve	5.544	0.000	0.933	7.386	0.861	131.741
			28:COM15	-	20:COM7	20:COM7	20:COM7	16:COM3
			-9.064	-41.689	-0.578	0.000	-0.636	-28.395
			22:COM9	18:COM5	30:COM17	-	30:COM17	26:COM13
7928	3387	+ve	8.351	1.715	0.411	4.752	0.588	7.917
			28:COM15	24:COM11	28:COM15	16:COM3	20:COM7	24:COM17
			-13.454	-26.569	-0.653	0.000	-0.361	-45.256
			22:COM9	18:COM5	22:COM9	-	30:COM17	18:COM5
	3386	-ve	8.351	0.028	0.411	4.752	0.573	52.807
			28:COM15	24:COM11	28:COM15	16:COM3	28:COM15	16:COM3
			-13.454	-28.818	-0.653	0.000	-0.820	-37.844
			22:COM9	18:COM5	22:COM9	-	22:COM9	26:COM13
7929	3388	+ve	10.967	7.948	0.270	2.475	0.522	0.000
			28:COM15	24:COM11	28:COM15	16:COM3	20:COM7	-
			-16.319	-14.766	-0.567	-1.335	-0.254	-37.617
			22:COM9	18:COM5	22:COM9	26:COM13	30:COM17	35:CVOL4
	3387	-ve	10.967	6.261	0.270	2.475	0.278	8.043
			28:COM15	24:COM11	28:COM15	16:COM3	28:COM15	24:COM17
			-16.319	-17.015	-0.567	-1.335	-0.589	-45.222
			22:COM9	18:COM5	22:COM9	26:COM13	22:COM9	18:COM5
7930	3389	+ve	13.589	17.630	0.461	0.239	0.461	5.362
			28:COM15	16:COM3	20:COM7	24:COM17	28:COM15	24:COM17
			-19.489	-6.340	-0.480	-3.254	-0.470	-41.521
			22:COM9	26:COM13	30:COM17	18:COM5	22:COM9	18:COM5
	3388	-ve	13.589	15.381	0.461	0.239	0.435	0.000
			28:COM15	16:COM3	20:COM7	24:COM17	20:COM7	-
			-19.489	-8.027	-0.480	-3.254	-0.481	-37.633
			22:COM9	26:COM13	30:COM17	18:COM5	30:COM17	35:CVOL4

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
7931	3390	+ve	15.272	30.486	0.680	0.000	0.905	53.898
			28:COM15	16:COM3	20:COM7	-	28:COM15	16:COM3
			-21.826	-0.112	-0.760	-4.877	-0.776	-34.869
			22:COM9	26:COM13	30:COM17	22:COM9	22:COM9	26:COM13
	3389	-ve	15.272	28.237	0.680	0.000	0.553	5.222
			28:COM15	16:COM3	20:COM7	-	20:COM7	24:COM11
			-21.826	-1.799	-0.760	-4.877	-0.581	-41.584
			22:COM9	26:COM13	30:COM17	22:COM9	30:COM17	18:COM5
7932	3391	+ve	1.763	2.408	0.340	12.773	0.957	39.071
			20:COM7	28:COM15	28:COM15	20:COM7	20:COM7	20:COM7
			-1.366	-52.966	-0.841	-2.028	-0.661	-36.513
			30:COM17	22:COM9	22:COM9	30:COM17	30:COM17	30:COM17
	3229	-ve	1.763	0.693	0.340	12.773	0.119	146.345
			20:COM7	28:COM15	28:COM15	20:COM7	28:COM15	20:COM7
			-1.366	-55.253	-0.841	-2.028	-0.816	-39.568
			30:COM17	22:COM9	22:COM9	30:COM17	22:COM9	30:COM17
7933	3392	+ve	2.462	2.269	2.992	5.149	4.498	0.000
			24:COM11	28:COM15	28:COM15	28:COM15	20:COM7	-
			-4.515	-25.024	-3.840	-4.881	-3.344	-35.345
			18:COM5	22:COM9	22:COM9	22:COM9	30:COM17	22:COM9
	3391	-ve	2.462	0.553	2.992	5.149	2.590	41.684
			24:COM11	28:COM15	28:COM15	28:COM15	28:COM15	20:COM7
			-4.515	-27.311	-3.840	-4.881	-3.119	-29.903
			18:COM5	22:COM9	22:COM9	22:COM9	22:COM9	30:COM17
7934	3393	+ve	3.009	6.118	2.965	3.845	3.913	0.000
			24:COM11	28:COM15	28:COM15	16:COM3	20:COM7	-
			-5.318	-13.421	-4.197	-2.815	-2.595	-39.155
			18:COM5	22:COM9	22:COM9	26:COM13	30:COM17	22:COM9
	3392	-ve	3.009	4.402	2.965	3.845	3.286	0.000
			24:COM11	28:COM15	28:COM15	16:COM3	28:COM15	-
			-5.318	-15.709	-4.197	-2.815	-4.411	-35.128
			18:COM5	22:COM9	22:COM9	26:COM13	22:COM9	22:COM9
7935	3394	+ve	1.443	9.996	0.451	0.851	1.948	0.000
			24:COM11	20:COM7	24:COM11	28:COM15	20:COM7	-
			-4.990	-3.062	-1.067	-1.855	-1.459	-44.840
			18:COM5	30:COM17	18:COM5	22:COM9	30:COM17	22:COM9
	3393	-ve	1.443	7.709	0.451	0.851	0.124	0.000
			24:COM11	20:COM7	24:COM11	28:COM15	28:COM15	-
			-4.990	-4.777	-1.067	-1.855	-0.856	-39.088
			18:COM5	30:COM17	18:COM5	22:COM9	22:COM9	22:COM9
7936	3395	+ve	2.011	17.520	2.422	2.940	3.632	22.409
			24:COM11	20:COM7	28:COM15	28:COM15	20:COM7	28:COM15
			-3.575	0.000	-3.735	-5.989	-1.881	-28.306
			18:COM5	-	22:COM9	22:COM9	30:COM17	22:COM9
	3394	-ve	2.011	15.233	2.422	2.940	2.923	0.000
			24:COM11	20:COM7	28:COM15	28:COM15	28:COM15	-
			-3.575	0.000	-3.735	-5.989	-3.777	-44.728
			18:COM5	-	22:COM9	22:COM9	22:COM9	22:COM9

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
7937	3396	+ve	10.113	28.048	0.000	3.335	2.731	73.324
			20:COM7	20:COM7	-	28:COM15	20:COM7	20:COM7
			0.000	0.000	-2.411	-7.290	0.000	-4.885
			-	-	34:CVOL3	22:COM9	-	30:COM17
	3395	-ve	10.113	25.761	0.000	3.335	0.000	22.111
			20:COM7	20:COM7	-	28:COM15	-	28:COM15
			0.000	0.000	-2.411	-7.290	-2.731	-28.427
			-	-	34:CVOL3	22:COM9	22:COM9	22:COM9
7938	3397	+ve	0.703	11.394	0.457	1.895	0.130	9.502
			24:COM17	16:COM3	16:COM3	24:COM17	24:COM11	24:COM17
			-2.456	-2.386	-0.088	-8.223	-0.353	-9.009
			18:COM5	26:COM13	26:COM13	18:COM5	18:COM5	18:COM5
	3511	-ve	0.703	10.096	0.457	1.895	0.185	0.000
			24:COM17	16:COM3	16:COM3	24:COM17	16:COM3	-
			-2.456	-3.360	-0.088	-8.223	0.000	-7.136
			18:COM5	26:COM13	26:COM13	18:COM5	-	18:COM5
7939	3398	+ve	0.661	24.276	1.167	3.521	0.410	52.607
			24:COM17	16:COM3	20:COM7	24:COM17	28:COM15	16:COM3
			-3.818	0.000	-0.226	-5.864	-1.277	-5.083
			18:COM5	-	30:COM17	18:COM5	22:COM9	26:COM13
	3397	-ve	0.661	22.110	1.167	3.521	0.921	9.441
			24:COM17	16:COM3	20:COM7	24:COM17	20:COM7	24:COM17
			-3.818	0.000	-0.226	-5.864	-0.019	-9.082
			18:COM5	-	30:COM17	18:COM5	30:COM17	18:COM5
7940	3399	+ve	17.477	0.000	0.000	0.000	1.086	43.989
			20:COM7	-	-	-	20:COM7	16:COM3
			-12.348	-35.303	-1.326	-9.921	0.000	-27.750
			30:COM17	18:COM5	22:COM9	18:COM5	-	26:COM13
	3231	-ve	17.477	0.000	0.000	0.000	0.154	115.179
			20:COM7	-	-	-	28:COM15	16:COM3
			-12.348	-37.557	-1.326	-9.921	-1.520	-18.019
			30:COM17	18:COM5	22:COM9	18:COM5	22:COM9	26:COM13
7941	3400	+ve	15.505	0.000	0.000	0.000	0.417	6.065
			20:COM7	-	-	-	20:COM7	24:COM17
			-12.064	-22.179	-0.325	-6.422	0.000	-38.191
			30:COM17	18:COM5	22:COM9	22:COM9	-	18:COM5
	3399	-ve	15.505	0.000	0.000	0.000	0.035	44.109
			20:COM7	-	-	-	28:COM15	16:COM3
			-12.064	-24.434	-0.325	-6.422	-0.282	-27.656
			30:COM17	18:COM5	22:COM9	22:COM9	22:COM9	26:COM13
7942	3401	+ve	14.292	3.546	0.056	0.000	0.161	0.000
			20:COM7	24:COM11	16:COM3	-	20:COM7	-
			-10.347	-12.603	-0.092	-4.504	-0.082	-37.578
			30:COM17	18:COM5	26:COM13	18:COM5	30:COM17	18:COM5
	3400	-ve	14.292	1.855	0.056	0.000	0.096	6.156
			20:COM7	24:COM11	16:COM3	-	16:COM3	24:COM17
			-10.347	-14.858	-0.092	-4.504	-0.087	-38.158
			30:COM17	18:COM5	26:COM13	18:COM5	26:COM13	18:COM5

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
7943	3402	+ve	12.524	9.079	0.064	1.514	0.095	0.000
			20:COM7	16:COM3	16:COM3	16:COM3	28:COM15	-
			-8.659	-5.320	-0.047	-1.646	-0.086	-39.369
			30:COM17	26:COM13	26:COM13	26:COM13	22:COM9	18:COM5
	3401	-ve	12.524	6.824	0.064	1.514	0.100	0.000
			20:COM7	16:COM3	16:COM3	16:COM3	16:COM3	-
			-8.659	-7.011	-0.047	-1.646	-0.056	-37.598
			30:COM17	26:COM13	26:COM13	26:COM13	26:COM13	18:COM5
7944	3403	+ve	10.417	17.067	0.113	4.367	0.040	14.021
			20:COM7	16:COM3	16:COM3	16:COM3	28:COM15	24:COM11
			-6.934	-0.459	-0.033	0.000	-0.090	-35.519
			30:COM17	26:COM13	26:COM13	-	22:COM9	18:COM5
	3402	-ve	10.417	14.812	0.113	4.367	0.152	0.000
			20:COM7	16:COM3	16:COM3	16:COM3	16:COM3	-
			-6.934	-2.150	-0.033	0.000	-0.045	-39.378
			30:COM17	26:COM13	26:COM13	-	26:COM13	18:COM5
7945	3404	+ve	8.050	26.300	0.489	6.509	0.282	58.139
			20:COM7	16:COM3	20:COM7	20:COM7	28:COM15	16:COM3
			-5.538	0.000	-0.168	0.000	-0.509	-23.920
			30:COM17	-	30:COM17	-	22:COM9	26:COM13
	3403	-ve	8.050	24.045	0.489	6.509	0.449	13.924
			20:COM7	16:COM3	20:COM7	20:COM7	20:COM7	24:COM11
			-5.538	0.000	-0.168	0.000	-0.049	-35.587
			30:COM17	-	30:COM17	-	30:COM17	18:COM5
7946	3405	+ve	23.878	0.000	0.070	0.000	1.199	52.856
			20:COM7	-	24:COM11	-	16:COM3	16:COM3
			-19.733	-36.319	-1.201	-8.797	-0.157	-30.832
			30:COM17	18:COM5	18:COM5	22:COM9	26:COM13	26:COM13
	3232	-ve	23.878	0.000	0.070	0.000	0.106	126.718
			20:COM7	-	24:COM11	-	28:COM15	16:COM3
			-19.733	-38.594	-1.201	-8.797	-1.294	-19.565
			30:COM17	18:COM5	18:COM5	22:COM9	22:COM9	26:COM13
7947	3406	+ve	25.073	0.000	0.591	0.000	0.826	10.975
			20:COM7	-	24:COM11	-	16:COM3	24:COM11
			-21.976	-23.525	-0.923	-6.989	-0.437	-40.546
			30:COM17	18:COM5	18:COM5	18:COM5	26:COM13	18:COM5
	3405	-ve	25.073	0.000	0.591	0.000	0.732	52.958
			20:COM7	-	24:COM11	-	24:COM11	16:COM3
			-21.976	-25.800	-0.923	-6.989	-0.998	-30.726
			30:COM17	18:COM5	18:COM5	18:COM5	18:COM5	26:COM13
7948	3407	+ve	25.188	3.649	0.256	0.127	0.326	0.000
			20:COM7	24:COM11	24:COM11	24:COM11	20:COM7	-
			-21.253	-13.977	-0.328	-5.139	-0.219	-40.361
			30:COM17	18:COM5	18:COM5	18:COM5	30:COM17	18:COM5
	3406	-ve	25.188	1.942	0.256	0.127	0.306	11.062
			20:COM7	24:COM11	24:COM11	24:COM11	24:COM11	24:COM11
			-21.253	-16.252	-0.328	-5.139	-0.342	-40.498
			30:COM17	18:COM5	18:COM5	18:COM5	18:COM5	18:COM5

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
7949	3408	+ve	24.561	8.767	0.120	1.799	0.212	0.000
			20:COM7	16:COM3	24:COM11	24:COM11	20:COM7	-
			-20.319	-6.261	-0.155	-1.962	-0.147	-39.150
			30:COM17	26:COM13	18:COM5	18:COM5	30:COM17	18:COM5
	3407	-ve	24.561	6.672	0.120	1.799	0.168	0.000
			20:COM7	24:COM11	24:COM11	24:COM11	24:COM11	-
			-20.319	-8.147	-0.155	-1.962	-0.174	-40.373
			30:COM17	18:COM5	18:COM5	18:COM5	18:COM5	18:COM5
7950	3409	+ve	23.448	16.768	0.127	4.371	0.135	11.441
			20:COM7	16:COM3	24:COM11	16:COM3	20:COM7	24:COM11
			-19.274	-1.368	-0.096	0.000	-0.121	-37.695
			30:COM17	26:COM13	18:COM5	-	30:COM17	18:COM5
	3408	-ve	23.448	14.493	0.127	4.371	0.202	0.000
			20:COM7	16:COM3	24:COM11	16:COM3	16:COM3	-
			-19.274	-3.074	-0.096	0.000	-0.128	-39.121
			30:COM17	26:COM13	18:COM5	-	26:COM13	18:COM5
7951	3410	+ve	21.892	26.647	0.534	6.044	0.151	55.611
			20:COM7	16:COM3	20:COM7	20:COM7	28:COM15	16:COM3
			-18.474	0.000	-0.098	0.000	-0.512	-27.445
			30:COM17	-	30:COM17	-	22:COM9	26:COM13
	3409	-ve	21.892	24.372	0.534	6.044	0.563	11.320
			20:COM7	16:COM3	20:COM7	20:COM7	16:COM3	24:COM11
			-18.474	0.000	-0.098	0.000	-0.063	-37.713
			30:COM17	-	30:COM17	-	26:COM13	18:COM5
7952	3411	+ve	4.649	0.000	1.222	5.892	3.336	24.086
			28:COM15	-	24:COM11	24:COM11	16:COM3	16:COM3
			-5.056	-26.061	-2.864	-6.306	-1.628	-5.023
			22:COM9	18:COM5	18:COM5	18:COM5	26:COM13	26:COM13
	3234	-ve	4.649	0.000	1.222	5.892	1.294	77.620
			28:COM15	-	24:COM11	24:COM11	28:COM15	16:COM3
			-5.056	-28.335	-2.864	-6.306	-2.822	0.000
			22:COM9	18:COM5	18:COM5	18:COM5	22:COM9	-
7953	3412	+ve	7.800	0.000	0.491	5.158	0.601	0.000
			20:COM7	-	24:COM11	24:COM11	16:COM3	-
			-6.294	-14.614	-1.062	-4.472	-0.239	-23.737
			30:COM17	18:COM5	18:COM5	18:COM5	26:COM13	22:COM9
	3411	-ve	7.800	0.000	0.491	5.158	1.413	24.267
			20:COM7	-	24:COM11	24:COM11	24:COM11	16:COM3
			-6.294	-16.887	-1.062	-4.472	-2.177	-4.891
			30:COM17	18:COM5	18:COM5	18:COM5	18:COM5	26:COM13
7954	3413	+ve	12.572	0.000	2.517	4.015	1.746	0.000
			20:COM7	-	16:COM3	24:COM11	24:COM11	-
			-10.529	-6.766	-1.958	-3.404	-2.164	-32.724
			30:COM17	22:COM9	26:COM13	18:COM5	18:COM5	22:COM9
	3412	-ve	12.572	0.000	2.517	4.015	2.801	0.000
			20:COM7	-	16:COM3	24:COM11	16:COM3	-
			-10.529	-9.039	-1.958	-3.404	-2.117	-23.634
			30:COM17	22:COM9	26:COM13	18:COM5	26:COM13	22:COM9

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
7955	3414	+ve	17.289	3.279	2.521	1.496	2.357	0.000
			20:COM7	20:COM7	16:COM3	24:COM1	24:COM1	-
			-14.746	-1.210	-2.061	-1.899	-2.635	-29.502
			30:COM1	30:COM1	26:COM1	18:COM5	18:COM5	35:CVOL4
	3413	-ve	17.289	1.315	2.521	1.496	2.419	0.000
			20:COM7	28:COM1	16:COM3	24:COM1	16:COM3	-
			-14.746	-3.224	-2.061	-1.899	-1.792	-32.755
			30:COM1	22:COM9	26:COM1	18:COM5	26:COM1	22:COM9
7956	3415	+ve	21.474	11.512	1.247	1.812	1.702	0.000
			20:COM7	16:COM3	16:COM3	24:COM1	24:COM1	-
			-18.213	0.000	-0.549	-3.004	-2.382	-20.812
			30:COM1	-	26:COM1	18:COM5	18:COM5	18:COM5
	3414	-ve	21.474	9.239	1.247	1.812	1.371	0.000
			20:COM7	16:COM3	16:COM3	24:COM1	16:COM3	-
			-18.213	-0.726	-0.549	-3.004	-0.674	-29.539
			30:COM1	26:COM1	26:COM1	18:COM5	26:COM1	35:CVOL4
7957	3416	+ve	23.469	22.573	4.802	5.382	3.902	33.603
			20:COM7	16:COM3	16:COM3	16:COM3	24:COM1	16:COM3
			-20.530	0.000	-3.880	-5.898	-4.614	-12.845
			30:COM1	-	26:COM1	26:COM1	18:COM5	26:COM1
	3415	-ve	23.469	20.300	4.802	5.382	4.856	0.000
			20:COM7	16:COM3	16:COM3	16:COM3	16:COM3	-
			-20.530	0.000	-3.880	-5.898	-3.752	-20.899
			30:COM1	-	26:COM1	26:COM1	26:COM1	18:COM5
7958	3417	+ve	83.530	46.794	7.747	2.244	0.000	141.079
			34:CVOL3	34:CVOL3	34:CVOL3	24:COM1	-	34:CVOL3
			0.000	0.000	0.000	-2.037	-8.073	0.000
			-	-	-	18:COM5	34:CVOL3	-
	3481	-ve	83.530	43.447	7.747	2.244	6.916	54.433
			34:CVOL3	34:CVOL3	34:CVOL3	24:COM1	34:CVOL3	32:CVOL1
			0.000	0.000	0.000	-2.037	0.000	0.000
			-	-	-	18:COM5	-	-
7959	3418	+ve	129.776	66.221	5.128	4.695	0.000	237.528
			34:CVOL3	34:CVOL3	34:CVOL3	20:COM7	-	34:CVOL3
			0.000	0.000	0.000	-1.495	-3.825	0.000
			-	-	-	30:COM1	22:COM9	-
	3417	-ve	129.776	63.396	5.128	4.695	4.716	131.701
			34:CVOL3	34:CVOL3	34:CVOL3	20:COM7	34:CVOL3	34:CVOL3
			0.000	0.000	0.000	-1.495	0.000	0.000
			-	-	-	30:COM1	-	-
7960	3338	+ve	248.421	0.000	22.733	31.044	8.576	298.005
			34:CVOL3	-	20:COM7	28:COM1	28:COM1	34:CVOL3
			0.000	-104.487	-11.376	-37.058	-19.144	0.000
			-	22:COM9	30:COM1	22:COM9	22:COM9	-
	3216	-ve	248.421	0.000	22.733	31.044	18.074	458.538
			34:CVOL3	-	20:COM7	28:COM1	20:COM7	34:CVOL3
			0.000	-107.886	-11.376	-37.058	-10.050	0.000
			-	22:COM9	30:COM1	22:COM9	30:COM1	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
7961	3337	+ve	171.489	0.000	3.233	10.055	4.673	183.177
			34:CVOL3	-	28:COM15	28:COM15	20:COM7	34:CVOL3
			0.000	-80.373	-3.467	-11.936	-1.797	0.000
			-	22:COM9	22:COM9	22:COM9	30:COM17	-
	3338	-ve	171.489	0.000	3.233	10.055	4.025	313.692
			34:CVOL3	-	28:COM15	28:COM15	20:COM7	34:CVOL3
			0.000	-83.763	-3.467	-11.936	-1.531	0.000
			-	22:COM9	22:COM9	22:COM9	30:COM17	-
7962	3419	+ve	8.059	0.000	0.010	0.144	0.111	14.632
			20:COM7	-	24:COM11	24:COM11	16:COM3	16:COM3
			-7.781	-6.438	-0.121	-1.093	-0.009	-7.020
			30:COM17	18:COM5	18:COM5	18:COM5	26:COM13	26:COM13
	3265	-ve	8.059	0.000	0.010	0.144	0.012	22.506
			20:COM7	-	24:COM11	24:COM11	24:COM11	16:COM3
			-7.781	-8.137	-0.121	-1.093	-0.125	0.000
			30:COM17	18:COM5	18:COM5	18:COM5	18:COM5	-
7963	3420	+ve	8.713	0.000	0.031	0.000	0.016	3.947
			20:COM7	-	16:COM3	-	24:COM11	24:COM11
			-5.888	-5.513	-0.009	-0.766	-0.036	-12.744
			30:COM17	18:COM5	26:COM13	18:COM5	18:COM5	18:COM5
	3419	-ve	8.713	0.000	0.031	0.000	0.027	14.447
			20:COM7	-	16:COM3	-	16:COM3	16:COM3
			-5.888	-7.211	-0.009	-0.766	-0.004	-7.147
			30:COM17	18:COM5	26:COM13	18:COM5	26:COM13	26:COM13
7964	3421	+ve	8.020	1.567	0.053	0.014	0.022	0.000
			20:COM7	24:COM11	16:COM3	24:COM11	24:COM11	-
			-5.024	-4.376	-0.020	-0.550	-0.046	-12.803
			30:COM17	18:COM5	26:COM13	18:COM5	18:COM5	18:COM5
	3420	-ve	8.020	0.293	0.053	0.014	0.058	3.806
			20:COM7	24:COM11	16:COM3	24:COM11	16:COM3	24:COM11
			-5.024	-6.074	-0.020	-0.550	-0.018	-12.828
			30:COM17	18:COM5	26:COM13	18:COM5	26:COM13	18:COM5
7965	3422	+ve	6.754	4.184	0.021	0.176	0.028	0.000
			20:COM7	16:COM3	24:COM11	16:COM3	16:COM3	-
			-4.080	-1.962	-0.024	-0.186	-0.018	-13.217
			30:COM17	26:COM13	18:COM5	26:COM13	26:COM13	18:COM5
	3421	-ve	6.754	2.517	0.021	0.176	0.024	0.000
			20:COM7	24:COM11	24:COM11	16:COM3	16:COM3	-
			-4.080	-3.267	-0.024	-0.186	-0.020	-12.800
			30:COM17	18:COM5	18:COM5	26:COM13	26:COM13	18:COM5
7966	3423	+ve	5.301	7.124	0.006	0.510	0.049	7.011
			20:COM7	16:COM3	24:COM11	16:COM3	16:COM3	24:COM11
			-2.820	0.000	-0.044	0.000	-0.004	-11.718
			30:COM17	-	18:COM5	-	26:COM13	18:COM5
	3422	-ve	5.301	5.425	0.006	0.510	0.007	0.000
			20:COM7	16:COM3	24:COM11	16:COM3	24:COM11	-
			-2.820	-1.142	-0.044	0.000	-0.038	-13.217
			30:COM17	26:COM13	18:COM5	-	18:COM5	18:COM5

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
7967	3424	+ve	3.281	8.776	0.000	0.773	0.025	21.746
			20:COM7	16:COM3	-	20:COM7	20:COM7	16:COM3
			-1.452	0.000	-0.028	0.000	0.000	-7.291
			30:COM1	-	18:COM5	-	-	26:COM1
	3423	-ve	3.281	7.078	0.000	0.773	0.002	7.138
			20:COM7	16:COM3	-	20:COM7	24:COM1	24:COM1
			-1.452	0.000	-0.028	0.000	-0.031	-11.623
			30:COM1	-	18:COM5	-	18:COM5	18:COM5
7968	3425	+ve	12.184	0.000	0.000	0.000	0.091	19.036
			20:COM7	-	-	-	16:COM3	16:COM3
			-12.020	-5.451	-0.099	-0.879	0.000	-9.219
			30:COM1	18:COM5	18:COM5	18:COM5	-	26:COM1
	3266	-ve	12.184	0.000	0.000	0.000	0.000	29.454
			20:COM7	-	-	-	-	16:COM3
			-12.020	-7.200	-0.099	-0.879	-0.106	-0.412
			30:COM1	33:CVOL2	18:COM5	18:COM5	22:COM9	26:COM1
7969	3426	+ve	12.613	0.000	0.024	0.000	0.004	6.137
			20:COM7	-	16:COM3	-	24:COM1	24:COM1
			-10.237	-6.358	0.000	-0.854	-0.033	-13.812
			30:COM1	18:COM5	-	18:COM5	18:COM5	18:COM5
	3425	-ve	12.613	0.000	0.024	0.000	0.026	18.813
			20:COM7	-	16:COM3	-	16:COM3	16:COM3
			-10.237	-8.073	0.000	-0.854	-0.002	-9.317
			30:COM1	18:COM5	-	18:COM5	26:COM1	26:COM1
7970	3427	+ve	12.834	1.703	0.043	0.043	0.012	0.000
			20:COM7	24:COM1	16:COM3	24:COM1	24:COM1	-
			-10.026	-5.003	-0.008	-0.596	-0.040	-13.870
			30:COM1	18:COM5	26:COM1	18:COM5	18:COM5	18:COM5
	3426	-ve	12.834	0.417	0.043	0.043	0.048	5.981
			20:COM7	24:COM1	16:COM3	24:COM1	16:COM3	24:COM1
			-10.026	-6.718	-0.008	-0.596	-0.005	-13.889
			30:COM1	18:COM5	26:COM1	18:COM5	26:COM1	18:COM5
7971	3428	+ve	12.528	4.128	0.020	0.210	0.032	0.000
			20:COM7	16:COM3	24:COM1	24:COM1	16:COM3	-
			-9.615	-2.380	-0.025	-0.218	-0.019	-13.187
			30:COM1	26:COM1	18:COM5	18:COM5	26:COM1	18:COM5
	3427	-ve	12.528	2.578	0.020	0.210	0.023	0.000
			20:COM7	24:COM1	24:COM1	24:COM1	16:COM3	-
			-9.615	-3.832	-0.025	-0.218	-0.020	-13.859
			30:COM1	18:COM5	18:COM5	18:COM5	26:COM1	18:COM5
7972	3429	+ve	12.000	6.904	0.015	0.561	0.068	5.997
			20:COM7	16:COM3	24:COM1	16:COM3	16:COM3	24:COM1
			-8.811	-0.180	-0.061	-0.022	-0.014	-12.587
			30:COM1	26:COM1	18:COM5	26:COM1	26:COM1	18:COM5
	3428	-ve	12.000	5.189	0.015	0.561	0.016	0.000
			20:COM7	16:COM3	24:COM1	16:COM3	24:COM1	-
			-8.811	-1.467	-0.061	-0.022	-0.053	-13.197
			30:COM1	26:COM1	18:COM5	26:COM1	18:COM5	18:COM5

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
7973	3430	+ve	10.893	7.785	0.004	0.768	0.028	18.508
			20:COM7	16:COM3	24:COM11	20:COM7	16:COM3	16:COM3
			-7.978	0.000	-0.034	0.000	-0.001	-7.534
			30:COM17	-	18:COM5	-	26:COM13	26:COM13
	3429	-ve	10.893	6.070	0.004	0.768	0.009	6.143
			20:COM7	16:COM3	24:COM11	20:COM7	24:COM11	24:COM11
			-7.978	0.000	-0.034	0.000	-0.040	-12.503
			30:COM17	-	18:COM5	-	18:COM5	18:COM5
7974	3433	+ve	12.693	6.693	0.092	0.683	0.109	11.644
			20:COM7	20:COM7	24:COM11	16:COM3	16:COM3	16:COM3
			-9.861	0.000	-0.119	-0.506	-0.080	-1.892
			30:COM17	-	18:COM5	26:COM13	26:COM13	26:COM13
	3432	-ve	12.693	4.980	0.092	0.683	0.103	2.236
			20:COM7	20:COM7	24:COM11	16:COM3	24:COM11	24:COM11
			-9.861	0.000	-0.119	-0.506	-0.127	-10.058
			30:COM17	-	18:COM5	26:COM13	18:COM5	18:COM5
7976	3435	+ve	3.987	76.650	1.313	0.204	1.971	14.450
			28:COM15	16:COM3	28:COM15	24:COM11	20:COM7	16:COM3
			-4.589	-61.264	-2.000	-3.720	-1.289	0.000
			22:COM9	26:COM13	22:COM9	18:COM5	30:COM17	-
	5470	-ve	3.987	74.324	1.313	0.204	1.395	125.829
			28:COM15	16:COM3	28:COM15	24:COM11	28:COM15	24:COM11
			-4.589	-63.008	-2.000	-3.720	-2.098	-137.995
			22:COM9	26:COM13	22:COM9	18:COM5	22:COM9	18:COM5
7978	3335	+ve	27.962	111.661	1.375	0.000	0.969	12.028
			16:COM3	16:COM3	20:COM7	-	28:COM15	24:COM11
			-18.109	-100.743	-1.176	-3.093	-1.260	-15.530
			26:COM13	26:COM13	30:COM17	18:COM5	22:COM9	18:COM5
	5484	-ve	27.962	108.871	1.375	0.000	1.522	190.725
			16:COM3	16:COM3	20:COM7	-	28:COM15	24:COM11
			-18.109	-102.836	-1.176	-3.093	-1.412	-211.322
			26:COM13	26:COM13	30:COM17	18:COM5	22:COM9	18:COM5
7981	3439	+ve	8.356	6.530	0.021	0.084	0.024	2.330
			28:COM15	16:COM3	20:COM7	24:COM11	28:COM15	24:COM11
			-9.485	0.000	-0.019	-0.485	-0.027	-13.527
			22:COM9	-	30:COM17	18:COM5	22:COM9	18:COM5
	3460	-ve	8.356	5.620	0.021	0.084	0.016	0.000
			28:COM15	16:COM3	20:COM7	24:COM11	16:COM3	-
			-9.485	0.000	-0.019	-0.485	-0.016	-19.213
			22:COM9	-	30:COM17	18:COM5	26:COM13	34:CVOL3
7982	3440	+ve	7.517	10.181	0.003	0.000	0.063	16.552
			28:COM15	34:CVOL3	24:COM11	-	16:COM3	16:COM3
			-8.960	0.000	-0.058	-0.759	-0.003	-3.667
			22:COM9	-	18:COM5	35:CVOL4	26:COM13	26:COM13
	3439	-ve	7.517	8.333	0.003	0.000	0.003	2.421
			28:COM15	34:CVOL3	24:COM11	-	24:COM11	24:COM11
			-8.960	0.000	-0.058	-0.759	-0.051	-13.453
			22:COM9	-	18:COM5	35:CVOL4	18:COM5	18:COM5

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
7983	3441	+ve	1.385	4.088	0.869	0.079	0.171	12.928
			28:COM15	16:COM3	16:COM3	28:COM15	24:COM11	28:COM15
			-3.348	0.000	-0.352	-2.534	-0.553	-17.673
			22:COM9	-	26:COM13	22:COM9	18:COM5	22:COM9
	3284	-ve	1.385	3.445	0.869	0.079	0.682	10.501
			28:COM15	16:COM3	16:COM3	28:COM15	16:COM3	28:COM15
			-3.348	-0.240	-0.352	-2.534	-0.345	-20.494
			22:COM9	26:COM13	26:COM13	22:COM9	26:COM13	22:COM9
7984	3442	+ve	2.490	4.339	0.430	3.125	0.257	17.063
			28:COM15	16:COM3	20:COM7	20:COM7	28:COM15	20:COM7
			-7.333	0.000	-0.317	-0.995	-0.373	-14.665
			22:COM9	-	30:COM17	30:COM17	22:COM9	30:COM17
	3441	-ve	2.490	3.410	0.430	3.125	0.492	12.275
			28:COM15	16:COM3	20:COM7	20:COM7	20:COM7	28:COM15
			-7.333	-0.464	-0.317	-0.995	-0.381	-17.444
			22:COM9	26:COM13	30:COM17	30:COM17	30:COM17	22:COM9
7985	3443	+ve	1.841	4.118	0.142	1.445	0.000	20.485
			24:COM17	20:COM7	20:COM7	20:COM7	-	20:COM7
			-11.823	0.000	0.000	-0.448	-0.146	-9.523
			18:COM5	-	-	30:COM17	22:COM9	30:COM17
	3442	-ve	1.841	3.217	0.142	1.445	0.134	16.816
			24:COM17	20:COM7	20:COM7	20:COM7	20:COM7	20:COM7
			-11.823	0.000	0.000	-0.448	0.000	-14.714
			18:COM5	-	-	30:COM17	-	30:COM17
7986	3445	+ve	2.954	4.256	0.023	0.495	0.033	1.143
			20:COM7	16:COM3	28:COM15	20:COM7	20:COM7	20:COM7
			-1.533	-0.158	-0.036	-0.201	-0.027	-1.506
			30:COM17	26:COM13	22:COM9	30:COM17	30:COM17	30:COM17
	3571	-ve	2.954	3.408	0.023	0.495	0.015	0.660
			20:COM7	16:COM3	28:COM15	20:COM7	28:COM15	28:COM15
			-1.533	-0.793	-0.036	-0.201	-0.034	-7.188
			30:COM17	26:COM13	22:COM9	30:COM17	22:COM9	22:COM9
7987	3446	+ve	4.924	8.374	0.043	0.311	0.078	15.372
			20:COM7	16:COM3	24:COM11	24:COM17	16:COM3	16:COM3
			-3.271	0.000	-0.078	-0.769	-0.046	0.000
			30:COM17	-	18:COM5	18:COM5	26:COM13	-
	3445	-ve	4.924	7.509	0.043	0.311	0.035	1.077
			20:COM7	16:COM3	24:COM11	24:COM17	24:COM11	20:COM7
			-3.271	0.000	-0.078	-0.769	-0.069	-1.424
			30:COM17	-	18:COM5	18:COM5	18:COM5	30:COM17
7988	3447	+ve	3.094	0.000	0.083	0.000	0.114	3.439
			20:COM7	-	20:COM7	-	20:COM7	28:COM15
			-4.337	-31.183	-0.073	-0.504	-0.110	-31.619
			30:COM17	22:COM9	30:COM17	35:CVOL4	30:COM17	22:COM9
	3275	-ve	3.094	0.000	0.083	0.000	0.059	56.522
			20:COM7	-	20:COM7	-	20:COM7	20:COM7
			-4.337	-32.568	-0.073	-0.504	-0.037	-5.034
			30:COM17	34:CVOL3	30:COM17	35:CVOL4	30:COM17	30:COM17

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
7989	3448	+ve	5.770	5.098	0.481	0.925	0.468	0.000
			20:COM7	20:COM7	20:COM7	16:COM3	28:COM15	-
			-5.571	-6.327	-0.422	-0.853	-0.565	-17.404
			30:COM17	30:COM17	30:COM17	26:COM13	22:COM9	18:COM5
	3447	-ve	5.770	4.183	0.481	0.925	0.389	6.591
			20:COM7	20:COM7	20:COM7	16:COM3	20:COM7	28:COM15
			-5.571	-7.014	-0.422	-0.853	-0.370	-23.218
			30:COM17	30:COM17	30:COM17	26:COM13	30:COM17	22:COM9
7990	3449	+ve	4.651	5.740	0.657	1.235	0.336	1.916
			20:COM7	20:COM7	20:COM7	16:COM3	28:COM15	28:COM15
			-5.936	-4.851	-0.396	-1.046	-0.627	-22.142
			30:COM17	30:COM17	30:COM17	26:COM13	22:COM9	22:COM9
	3448	-ve	4.651	4.825	0.657	1.235	0.676	0.000
			20:COM7	20:COM7	20:COM7	16:COM3	20:COM7	-
			-5.936	-5.537	-0.396	-1.046	-0.450	-17.541
			30:COM17	30:COM17	30:COM17	26:COM13	30:COM17	18:COM5
7991	3375	+ve	0.000	4.676	0.042	0.188	0.000	5.188
			-	16:COM3	34:CVOL3	34:CVOL3	-	16:COM3
			-6.615	0.000	0.000	0.000	-0.052	0.000
			18:COM5	-	-	-	34:CVOL3	-
	3344	-ve	0.000	0.692	0.042	0.188	0.051	0.469
			-	24:COM11	34:CVOL3	34:CVOL3	34:CVOL3	24:COM11
			-6.615	-1.406	0.000	0.000	0.000	-1.071
			18:COM5	18:COM5	-	-	-	18:COM5
7992	3374	+ve	0.022	3.594	0.040	0.172	0.014	3.310
			28:COM15	16:COM3	16:COM3	16:COM3	24:COM11	16:COM3
			-3.845	0.000	-0.012	-0.029	-0.048	0.000
			22:COM9	-	26:COM13	26:COM13	18:COM5	-
	3345	-ve	0.022	0.000	0.040	0.172	0.049	0.383
			28:COM15	-	16:COM3	16:COM3	16:COM3	16:COM3
			-3.845	-1.576	-0.012	-0.029	-0.016	-0.341
			22:COM9	18:COM5	26:COM13	26:COM13	26:COM13	26:COM13
7993	3373	+ve	0.000	3.314	0.022	0.083	0.037	2.773
			-	35:CVOL4	24:COM11	24:COM11	16:COM3	16:COM3
			-2.689	0.000	-0.031	-0.106	-0.027	0.000
			18:COM5	-	18:COM5	18:COM5	26:COM13	-
	3346	-ve	0.000	0.000	0.022	0.083	0.028	0.378
			-	-	24:COM11	24:COM11	24:COM11	16:COM3
			-2.689	-1.622	-0.031	-0.106	-0.039	-0.124
			18:COM5	18:COM5	18:COM5	18:COM5	18:COM5	26:COM13
7994	3372	+ve	0.989	4.381	0.004	0.000	0.056	4.709
			24:COM11	16:COM3	24:COM11	-	16:COM3	16:COM3
			-5.614	0.000	-0.046	-0.171	-0.005	0.000
			18:COM5	-	18:COM5	18:COM5	26:COM13	-
	3347	-ve	0.989	0.606	0.004	0.000	0.006	0.622
			24:COM11	24:COM11	24:COM11	-	24:COM11	16:COM3
			-5.614	-1.929	-0.046	-0.171	-0.058	-0.835
			18:COM5	18:COM5	18:COM5	18:COM5	18:COM5	26:COM13

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
7995	3371	+ve	0.163	5.589	0.000	0.000	0.057	6.691
			24:COM1	16:COM3	-	-	20:COM7	16:COM3
			-8.405	0.000	-0.048	-0.203	0.000	0.000
			18:COM5	-	22:COM9	18:COM5	-	-
	3348	-ve	0.163	1.507	0.000	0.000	0.000	0.741
			24:COM1	24:COM11	-	-	-	24:COM1
			-8.405	-1.611	-0.048	-0.203	-0.061	-1.804
			18:COM5	18:COM5	22:COM9	18:COM5	22:COM9	18:COM5
7996	3380	+ve	0.000	5.917	0.034	0.164	0.000	7.224
			-	16:COM3	16:COM3	16:COM3	-	16:COM3
			-8.957	0.000	0.000	0.000	-0.042	0.000
			18:COM5	-	-	-	18:COM5	-
	3349	-ve	0.000	1.694	0.034	0.164	0.041	0.578
			-	24:COM11	16:COM3	16:COM3	16:COM3	24:COM1
			-8.957	-1.225	0.000	0.000	0.000	-2.075
			18:COM5	18:COM5	-	-	-	18:COM5
7997	3379	+ve	0.000	4.585	0.039	0.181	0.007	5.071
			-	16:COM3	16:COM3	16:COM3	24:COM11	16:COM3
			-6.033	0.000	-0.006	-0.020	-0.048	0.000
			18:COM5	-	26:COM1	26:COM1	18:COM5	-
	3350	-ve	0.000	0.695	0.039	0.181	0.047	0.441
			-	24:COM11	16:COM3	16:COM3	16:COM3	24:COM1
			-6.033	-1.524	-0.006	-0.020	-0.007	-0.967
			18:COM5	18:COM5	26:COM1	26:COM1	26:COM1	18:COM5
7998	3378	+ve	0.000	3.571	0.026	0.121	0.029	2.965
			-	34:CVOL3	16:COM3	16:COM3	24:COM11	20:COM7
			-2.751	0.000	-0.023	-0.100	-0.032	0.000
			22:COM9	-	26:COM1	26:COM1	18:COM5	-
	3351	-ve	0.000	0.000	0.026	0.121	0.032	0.091
			-	-	16:COM3	16:COM3	16:COM3	35:CVOL4
			-2.751	-1.272	-0.023	-0.100	-0.029	-0.060
			22:COM9	35:CVOL4	26:COM1	26:COM1	26:COM1	30:COM1
7999	3377	+ve	0.062	4.325	0.008	0.031	0.046	4.613
			24:COM1	16:COM3	24:COM11	24:COM1	16:COM3	16:COM3
			-5.423	0.000	-0.038	-0.163	-0.009	0.000
			18:COM5	-	18:COM5	18:COM5	26:COM1	-
	3352	-ve	0.062	0.511	0.008	0.031	0.009	0.490
			24:COM1	24:COM11	24:COM11	24:COM1	24:COM11	24:COM1
			-5.423	-1.637	-0.038	-0.163	-0.046	-0.790
			18:COM5	18:COM5	18:COM5	18:COM5	18:COM5	18:COM5
8000	3376	+ve	0.000	5.561	0.000	0.000	0.047	6.648
			-	16:COM3	-	-	20:COM7	16:COM3
			-8.322	0.000	-0.039	-0.167	0.000	0.000
			18:COM5	-	22:COM9	18:COM5	-	-
	3353	-ve	0.000	1.455	0.000	0.000	0.000	0.672
			-	24:COM11	-	-	-	24:COM1
			-8.322	-1.440	-0.039	-0.167	-0.048	-1.781
			18:COM5	18:COM5	22:COM9	18:COM5	22:COM9	18:COM5

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
8001	3385	+ve	0.000	5.846	0.035	0.163	0.000	7.124
			-	16:COM3	16:COM3	16:COM3	-	16:COM3
			-8.936	0.000	0.000	0.000	-0.043	0.000
			18:COM5	-	-	-	18:COM5	-
	3354	-ve	0.000	1.634	0.035	0.163	0.043	0.569
			-	24:COM11	16:COM3	16:COM3	16:COM3	24:COM1
			-8.936	-1.223	0.000	0.000	0.000	-2.000
			18:COM5	18:COM5	-	-	-	18:COM5
8002	3384	+ve	0.000	4.505	0.042	0.184	0.007	4.938
			-	16:COM3	16:COM3	16:COM3	24:COM11	16:COM3
			-5.843	0.000	-0.006	-0.022	-0.052	0.000
			18:COM5	-	26:COM1	26:COM1	18:COM5	-
	3355	-ve	0.000	0.626	0.042	0.184	0.052	0.422
			-	24:COM11	16:COM3	16:COM3	16:COM3	24:COM1
			-5.843	-1.506	-0.006	-0.022	-0.008	-0.904
			18:COM5	18:COM5	26:COM1	26:COM1	26:COM1	18:COM5
8003	3383	+ve	0.000	3.567	0.028	0.119	0.029	2.970
			-	34:CVOL3	16:COM3	16:COM3	24:COM11	20:COM7
			-2.744	0.000	-0.023	-0.102	-0.035	0.000
			22:COM9	-	26:COM1	26:COM1	18:COM5	-
	3356	-ve	0.000	0.000	0.028	0.119	0.035	0.093
			-	-	16:COM3	16:COM3	16:COM3	35:CVOL4
			-2.744	-1.276	-0.023	-0.102	-0.029	-0.064
			22:COM9	35:CVOL4	26:COM1	26:COM1	26:COM1	30:COM1
8004	3382	+ve	0.168	4.399	0.008	0.028	0.044	4.737
			24:COM1	16:COM3	24:COM11	24:COM1	16:COM3	16:COM3
			-5.611	0.000	-0.036	-0.161	-0.009	0.000
			18:COM5	-	18:COM5	18:COM5	26:COM1	-
	3357	-ve	0.168	0.578	0.008	0.028	0.010	0.511
			24:COM1	24:COM11	24:COM11	24:COM1	24:COM11	24:COM1
			-5.611	-1.662	-0.036	-0.161	-0.044	-0.850
			18:COM5	18:COM5	18:COM5	18:COM5	18:COM5	18:COM5
8005	3381	+ve	0.000	5.631	0.000	0.000	0.045	6.744
			-	16:COM3	-	-	16:COM3	16:COM3
			-8.371	0.000	-0.036	-0.169	0.000	0.000
			18:COM5	-	18:COM5	18:COM5	-	-
	3358	-ve	0.000	1.514	0.000	0.000	0.000	0.682
			-	24:COM11	-	-	-	24:COM1
			-8.371	-1.445	-0.036	-0.169	-0.044	-1.855
			18:COM5	18:COM5	18:COM5	18:COM5	18:COM5	18:COM5
8006	3390	+ve	0.000	5.881	0.043	0.198	0.000	7.181
			-	16:COM3	20:COM7	16:COM3	-	16:COM3
			-9.081	0.000	0.000	0.000	-0.052	0.000
			18:COM5	-	-	-	18:COM5	-
	3359	-ve	0.000	1.689	0.043	0.198	0.054	0.634
			-	24:COM11	20:COM7	16:COM3	20:COM7	24:COM1
			-9.081	-1.376	0.000	0.000	0.000	-2.028
			18:COM5	18:COM5	-	-	-	18:COM5

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
8007	3389	+ve	0.795	4.576	0.053	0.187	0.008	5.060
			24:COM1	16:COM3	20:COM7	16:COM3	28:COM1	16:COM3
			-6.080	0.000	-0.008	0.000	-0.063	0.000
			18:COM5	-	30:COM1	-	22:COM9	-
	3360	-ve	0.795	0.729	0.053	0.187	0.066	0.559
			24:COM1	24:COM1	20:COM7	16:COM3	20:COM7	24:COM1
			-6.080	-1.788	-0.008	0.000	-0.011	-0.954
			18:COM5	18:COM5	30:COM1	-	30:COM1	18:COM5
8008	3388	+ve	0.057	3.339	0.036	0.127	0.026	2.942
			28:COM1	35:CVOL4	20:COM7	16:COM3	24:COM1	20:COM7
			-2.904	0.000	-0.022	-0.073	-0.042	0.000
			22:COM9	-	30:COM1	26:COM1	18:COM5	-
	3361	-ve	0.057	0.000	0.036	0.127	0.046	0.377
			28:COM1	-	20:COM7	16:COM3	20:COM7	16:COM3
			-2.904	-1.637	-0.022	-0.073	-0.028	-0.131
			22:COM9	22:COM9	30:COM1	26:COM1	30:COM1	26:COM1
8009	3387	+ve	0.000	3.487	0.016	0.039	0.047	3.162
			-	16:COM3	28:COM1	24:COM1	20:COM7	16:COM3
			-3.224	0.000	-0.039	-0.158	-0.018	0.000
			18:COM5	-	22:COM9	18:COM5	30:COM1	-
	3362	-ve	0.000	0.000	0.016	0.039	0.021	0.447
			-	-	28:COM1	24:COM1	28:COM1	16:COM3
			-3.224	-1.660	-0.039	-0.158	-0.048	-0.264
			18:COM5	18:COM5	22:COM9	18:COM5	22:COM9	26:COM1
8010	3386	+ve	0.000	4.502	0.000	0.000	0.046	4.936
			-	16:COM3	-	-	34:CVOL3	16:COM3
			-6.151	0.000	-0.038	-0.187	0.000	0.000
			18:COM5	-	34:CVOL3	34:CVOL3	-	-
	3363	-ve	0.000	0.581	0.000	0.000	0.000	0.521
			-	24:COM1	-	-	-	24:COM1
			-6.151	-1.538	-0.038	-0.187	-0.046	-0.897
			18:COM5	18:COM5	34:CVOL3	34:CVOL3	34:CVOL3	18:COM5
8011	3424	+ve	0.153	1.095	0.000	0.000	0.108	0.349
			24:COM1	24:COM1	-	-	34:CVOL3	24:COM1
			-5.397	-2.905	-0.172	-0.204	0.000	-1.177
			18:COM5	18:COM5	34:CVOL3	22:COM9	-	18:COM5
	3404	-ve	0.153	0.000	0.000	0.000	0.000	3.811
			24:COM1	-	-	-	-	16:COM3
			-5.397	-5.071	-0.172	-0.204	-0.107	-0.240
			18:COM5	18:COM5	34:CVOL3	22:COM9	34:CVOL3	26:COM1
8012	3423	+ve	0.337	1.327	0.000	0.000	0.096	0.334
			24:COM1	16:COM3	-	-	16:COM3	16:COM3
			-2.184	-0.374	-0.148	-0.171	0.000	-0.151
			18:COM5	26:COM1	18:COM5	18:COM5	-	26:COM1
	3403	-ve	0.337	0.000	0.000	0.000	0.000	1.332
			24:COM1	-	-	-	-	16:COM3
			-2.184	-2.213	-0.148	-0.171	-0.089	-0.204
			18:COM5	18:COM5	18:COM5	18:COM5	18:COM5	26:COM1

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
8013	3422	+ve	0.250	1.643	0.018	0.021	0.050	0.430
			16:COM3	35:CVOL4	24:COM11	24:COM11	16:COM3	35:CVOL4
			-0.276	0.000	-0.077	-0.085	-0.012	0.000
			26:COM13	-	18:COM5	18:COM5	26:COM13	-
	3402	-ve	0.250	0.000	0.018	0.021	0.011	0.212
			16:COM3	-	24:COM11	24:COM11	24:COM11	24:COM11
			-0.276	-0.934	-0.077	-0.085	-0.046	-0.125
			26:COM13	18:COM5	18:COM5	18:COM5	18:COM5	18:COM5
8014	3421	+ve	0.767	1.662	0.079	0.093	0.017	0.436
			16:COM3	35:CVOL4	16:COM3	16:COM3	24:COM11	20:COM7
			-0.774	0.000	-0.025	-0.023	-0.051	0.000
			26:COM13	-	26:COM13	26:COM13	18:COM5	-
	3401	-ve	0.767	0.000	0.079	0.093	0.047	0.337
			16:COM3	-	16:COM3	16:COM3	16:COM3	24:COM11
			-0.774	-1.059	-0.025	-0.023	-0.014	-0.253
			26:COM13	18:COM5	26:COM13	26:COM13	26:COM13	18:COM5
8015	3420	+ve	1.342	1.906	0.156	0.183	0.000	0.527
			24:COM11	16:COM3	16:COM3	16:COM3	-	16:COM3
			-3.142	-0.934	0.000	0.000	-0.101	-0.352
			18:COM5	26:COM13	-	-	18:COM5	26:COM13
	3400	-ve	1.342	0.284	0.156	0.183	0.094	1.785
			24:COM11	24:COM11	16:COM3	16:COM3	16:COM3	16:COM3
			-3.142	-2.728	0.000	0.000	0.000	-0.688
			18:COM5	18:COM5	-	-	-	26:COM13
8016	3419	+ve	1.624	2.337	0.178	0.206	0.000	0.839
			24:COM11	24:COM11	20:COM7	20:COM7	-	24:COM11
			-6.809	-4.036	0.000	0.000	-0.112	-1.652
			18:COM5	18:COM5	-	-	22:COM9	18:COM5
	3399	-ve	1.624	1.088	0.178	0.206	0.110	4.750
			24:COM11	24:COM11	20:COM7	20:COM7	20:COM7	16:COM3
			-6.809	-6.202	0.000	0.000	0.000	-1.303
			18:COM5	18:COM5	-	-	-	26:COM13
8017	3430	+ve	1.070	2.022	0.000	0.000	0.096	0.688
			24:COM11	24:COM11	-	-	35:CVOL4	24:COM11
			-7.558	-4.775	-0.153	-0.194	0.000	-1.890
			18:COM5	18:COM5	35:CVOL4	35:CVOL4	-	18:COM5
	3410	-ve	1.070	0.772	0.000	0.000	0.000	5.436
			24:COM11	24:COM11	-	-	-	16:COM3
			-7.558	-6.941	-0.153	-0.194	-0.095	-1.059
			18:COM5	18:COM5	35:CVOL4	35:CVOL4	35:CVOL4	26:COM13
8018	3428	+ve	0.370	1.610	0.025	0.029	0.053	0.422
			16:COM3	35:CVOL4	24:COM11	24:COM11	16:COM3	35:CVOL4
			-0.624	0.000	-0.080	-0.095	-0.017	0.000
			26:COM13	-	18:COM5	18:COM5	26:COM13	-
	3408	-ve	0.370	0.000	0.025	0.029	0.014	0.391
			16:COM3	-	24:COM11	24:COM11	24:COM11	24:COM11
			-0.624	-1.106	-0.080	-0.095	-0.047	-0.216
			26:COM13	18:COM5	18:COM5	18:COM5	18:COM5	18:COM5

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
8019	3427	+ve	0.674	1.657	0.087	0.102	0.017	0.446
			16:COM3	35:CVOL4	16:COM3	16:COM3	24:COM11	20:COM7
			-0.777	0.000	-0.024	-0.030	-0.057	0.000
			26:COM13	-	26:COM13	26:COM13	18:COM5	-
	3407	-ve	0.674	0.000	0.087	0.102	0.052	0.270
			16:COM3	-	16:COM3	16:COM3	16:COM3	24:COM1
			-0.777	-0.997	-0.024	-0.030	-0.014	-0.162
			26:COM13	18:COM5	26:COM13	26:COM13	26:COM13	18:COM5
8020	3426	+ve	1.101	1.614	0.165	0.198	0.000	0.451
			24:COM1	16:COM3	16:COM3	16:COM3	-	16:COM3
			-3.044	-0.712	0.000	0.000	-0.108	-0.283
			18:COM5	26:COM13	-	-	18:COM5	26:COM13
	3406	-ve	1.101	0.013	0.165	0.198	0.099	1.601
			24:COM1	24:COM11	16:COM3	16:COM3	16:COM3	16:COM3
			-3.044	-2.527	0.000	0.000	0.000	-0.425
			18:COM5	18:COM5	-	-	-	26:COM13
8021	3425	+ve	0.956	1.691	0.177	0.210	0.000	0.587
			24:COM1	24:COM11	20:COM7	16:COM3	-	24:COM1
			-6.456	-3.655	0.000	0.000	-0.109	-1.472
			18:COM5	18:COM5	-	-	22:COM9	18:COM5
	3405	-ve	0.956	0.441	0.177	0.210	0.113	4.453
			24:COM1	24:COM11	20:COM7	16:COM3	20:COM7	16:COM3
			-6.456	-5.821	0.000	0.000	0.000	-0.747
			18:COM5	18:COM5	-	-	-	26:COM13
8022	3429	+ve	0.878	1.671	0.000	0.000	0.103	0.427
			24:COM1	16:COM3	-	-	16:COM3	16:COM3
			-3.412	-1.109	-0.157	-0.185	0.000	-0.373
			18:COM5	26:COM13	18:COM5	18:COM5	-	26:COM13
	3409	-ve	0.878	0.146	0.000	0.000	0.000	2.076
			24:COM1	24:COM11	-	-	-	16:COM3
			-3.412	-3.000	-0.157	-0.185	-0.094	-0.589
			18:COM5	18:COM5	18:COM5	18:COM5	18:COM5	26:COM13
8023	3433	+ve	3.483	3.044	0.221	0.116	0.161	1.039
			24:COM1	24:COM11	24:COM11	24:COM1	16:COM3	24:COM1
			-7.639	-4.139	-0.280	-0.181	-0.122	-1.612
			18:COM5	18:COM5	18:COM5	18:COM5	26:COM13	18:COM5
	3416	-ve	3.483	1.795	0.221	0.116	0.155	4.919
			24:COM1	24:COM11	24:COM11	24:COM1	24:COM11	16:COM3
			-7.639	-6.305	-0.280	-0.181	-0.189	-1.987
			18:COM5	18:COM5	18:COM5	18:COM5	18:COM5	26:COM13
8024	3432	+ve	1.851	2.005	0.256	0.130	0.157	0.158
			24:COM1	16:COM3	24:COM11	24:COM1	16:COM3	16:COM3
			-2.786	-0.992	-0.263	-0.145	-0.146	-0.126
			18:COM5	26:COM13	18:COM5	18:COM5	26:COM13	26:COM13
	3415	-ve	1.851	0.368	0.256	0.130	0.174	2.033
			24:COM1	24:COM11	24:COM11	24:COM1	24:COM11	16:COM3
			-2.786	-2.770	-0.263	-0.145	-0.171	-1.133
			18:COM5	18:COM5	18:COM5	18:COM5	18:COM5	26:COM13

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
8025	3431	+ve	1.177	1.446	0.047	0.040	0.016	0.397
			16:COM3	35:CVOL4	16:COM3	16:COM3	24:COM11	16:COM3
			-0.383	0.000	-0.032	-0.029	-0.023	-0.231
			26:COM1	-	26:COM1	26:COM1	18:COM5	26:COM1
	3414	-ve	1.177	0.000	0.047	0.040	0.040	0.371
			16:COM3	-	16:COM3	16:COM3	16:COM3	24:COM1
			-0.383	-1.023	-0.032	-0.029	-0.028	-0.309
			26:COM1	32:CVOL1	26:COM1	26:COM1	26:COM1	18:COM5
8026	3337	+ve	3.392	13.194	0.000	0.157	0.100	31.775
			16:COM3	20:COM7	-	28:COM1	20:COM7	20:COM7
			-1.468	-0.161	-0.042	-0.267	0.000	-15.666
			26:COM1	30:COM1	22:COM9	22:COM9	-	30:COM1
	3526	-ve	3.392	3.876	0.000	0.157	0.000	0.539
			16:COM3	28:COM1	-	28:COM1	-	28:COM1
			-1.468	-7.165	-0.042	-0.267	-0.113	-8.881
			26:COM1	22:COM9	22:COM9	22:COM9	34:CVOL3	22:COM9
8027	3338	+ve	3.955	14.857	0.003	0.141	0.030	38.536
			28:COM1	20:COM7	28:COM1	20:COM7	20:COM7	20:COM7
			-5.210	-2.129	-0.010	-0.098	-0.013	-22.691
			22:COM9	30:COM1	22:COM9	30:COM1	30:COM1	30:COM1
	3527	-ve	3.955	4.152	0.003	0.141	0.006	14.310
			28:COM1	28:COM1	28:COM1	20:COM7	28:COM1	20:COM7
			-5.210	-11.641	-0.010	-0.098	-0.033	-14.750
			22:COM9	22:COM9	22:COM9	30:COM1	22:COM9	30:COM1
8028	3335	+ve	1.944	7.395	0.026	0.311	0.037	11.055
			28:COM1	34:CVOL3	16:COM3	16:COM3	24:COM11	34:CVOL3
			-4.145	0.000	-0.018	-0.149	-0.054	0.000
			22:COM9	-	26:COM1	26:COM1	18:COM5	-
	3556	-ve	1.944	0.000	0.026	0.311	0.071	1.988
			28:COM1	-	16:COM3	16:COM3	16:COM3	20:COM7
			-4.145	-3.531	-0.018	-0.149	-0.050	0.000
			22:COM9	35:CVOL4	26:COM1	26:COM1	26:COM1	-
8029	3450	+ve	0.000	11.444	0.000	0.527	0.208	27.185
			-	20:COM7	-	20:COM7	20:COM7	20:COM7
			-11.430	0.000	-0.189	-0.211	0.000	-1.004
			18:COM5	-	34:CVOL3	30:COM1	-	30:COM1
	3451	-ve	0.000	9.386	0.000	0.527	0.000	6.728
			-	20:COM7	-	20:COM7	-	28:COM1
			-11.430	0.000	-0.189	-0.211	-0.176	-7.271
			18:COM5	-	34:CVOL3	30:COM1	18:COM5	22:COM9
8030	3451	+ve	0.000	8.516	0.037	0.268	0.182	6.788
			-	20:COM7	28:COM1	20:COM7	16:COM3	28:COM1
			-7.513	0.000	-0.185	-0.070	-0.014	-7.377
			18:COM5	-	22:COM9	30:COM1	26:COM1	22:COM9
	3452	-ve	0.000	6.459	0.037	0.268	0.060	0.000
			-	20:COM7	28:COM1	20:COM7	28:COM1	-
			-7.513	-0.031	-0.185	-0.070	-0.186	-12.342
			18:COM5	30:COM1	22:COM9	30:COM1	22:COM9	22:COM9

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
8031	3452	+ve	1.973	4.831	0.000	0.188	0.107	0.000
			24:COM1	20:COM7	-	16:COM3	16:COM3	-
			-5.983	-0.813	-0.080	-0.092	-0.013	-12.380
			18:COM5	30:COM1	18:COM5	26:COM1	26:COM1	22:COM9
	3453	-ve	1.973	2.774	0.000	0.188	0.000	0.000
			24:COM1	20:COM7	-	16:COM3	28:COM1	-
			-5.983	-2.356	-0.080	-0.092	-0.093	-15.811
			18:COM5	30:COM1	18:COM5	26:COM1	22:COM9	22:COM9
8032	3453	+ve	1.440	1.277	0.134	0.321	0.207	0.000
			24:COM1	28:COM1	28:COM1	28:COM1	20:COM7	-
			-4.168	-3.561	-0.214	-0.353	-0.118	-15.870
			18:COM5	22:COM9	22:COM9	22:COM9	30:COM1	22:COM9
	3454	-ve	1.440	0.000	0.134	0.321	0.148	1.958
			24:COM1	-	28:COM1	28:COM1	28:COM1	28:COM1
			-4.168	-5.618	-0.214	-0.353	-0.217	-15.202
			18:COM5	22:COM9	22:COM9	22:COM9	22:COM9	22:COM9
8033	3454	+ve	0.000	0.000	0.090	0.305	0.186	2.062
			-	-	28:COM1	28:COM1	20:COM7	28:COM1
			-3.458	-6.882	-0.157	-0.737	-0.109	-15.305
			18:COM5	22:COM9	22:COM9	22:COM9	30:COM1	22:COM9
	3455	-ve	0.000	0.000	0.090	0.305	0.071	14.742
			-	-	28:COM1	28:COM1	28:COM1	20:COM7
			-3.458	-8.939	-0.157	-0.737	-0.125	-7.445
			18:COM5	22:COM9	22:COM9	22:COM9	22:COM9	30:COM1
8034	3455	+ve	0.000	0.000	0.010	0.000	0.037	19.792
			-	-	28:COM1	-	20:COM7	20:COM7
			-4.116	-8.900	-0.038	-0.490	-0.019	-11.111
			22:COM9	22:COM9	22:COM9	32:CVOL1	30:COM1	30:COM1
	3262	-ve	0.000	0.000	0.010	0.000	0.002	26.021
			-	-	28:COM1	-	24:COM1	20:COM7
			-4.116	-10.955	-0.038	-0.490	-0.040	0.000
			22:COM9	22:COM9	22:COM9	32:CVOL1	18:COM5	-
8038	3285	+ve	8.579	12.222	0.032	0.000	0.197	16.727
			20:COM7	20:COM7	24:COM1	-	16:COM3	28:COM1
			-8.866	-11.154	-0.074	-2.601	-0.112	-18.492
			30:COM1	30:COM1	18:COM5	22:COM9	26:COM1	22:COM9
	3468	-ve	8.579	7.678	0.032	0.000	0.056	46.148
			20:COM7	28:COM1	24:COM1	-	28:COM1	20:COM7
			-8.866	-18.103	-0.074	-2.601	-0.158	-27.210
			30:COM1	22:COM9	18:COM5	22:COM9	22:COM9	30:COM1
8039	3284	+ve	7.232	5.857	0.130	2.293	0.154	2.738
			16:COM3	20:COM7	16:COM3	20:COM7	24:COM1	28:COM1
			-8.237	-1.999	-0.054	-1.697	-0.290	-17.206
			26:COM1	30:COM1	26:COM1	30:COM1	18:COM5	22:COM9
	3466	-ve	7.232	0.763	0.130	2.293	0.276	4.693
			16:COM3	28:COM1	16:COM3	20:COM7	16:COM3	28:COM1
			-8.237	-8.224	-0.054	-1.697	-0.083	-11.312
			26:COM1	22:COM9	26:COM1	30:COM1	26:COM1	22:COM9

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
8040	3460	+ve	8.906	3.364	0.020	0.306	0.023	0.000
			28:COM15	16:COM3	20:COM7	24:COM11	28:COM15	-
			-10.199	-1.241	-0.018	-0.348	-0.026	-19.250
			22:COM9	26:COM13	30:COM17	18:COM5	22:COM9	34:CVOL3
	3461	-ve	8.906	2.454	0.020	0.306	0.016	0.000
			28:COM15	16:COM3	20:COM7	24:COM11	20:COM7	-
			-10.199	-1.923	-0.018	-0.348	-0.016	-21.236
			22:COM9	26:COM13	30:COM17	18:COM5	30:COM17	34:CVOL3
8041	3461	+ve	9.236	0.769	0.020	0.502	0.023	0.000
			28:COM15	24:COM11	16:COM3	16:COM3	28:COM15	-
			-10.600	-4.306	-0.020	-0.317	-0.023	-21.239
			22:COM9	18:COM5	26:COM13	26:COM13	22:COM9	34:CVOL3
	3462	-ve	9.236	0.086	0.020	0.502	0.018	0.000
			28:COM15	24:COM11	16:COM3	16:COM3	16:COM3	-
			-10.600	-5.216	-0.020	-0.317	-0.020	-17.954
			22:COM9	18:COM5	26:COM13	26:COM13	26:COM13	18:COM5
8042	3462	+ve	9.391	0.000	0.074	1.302	0.023	0.000
			28:COM15	-	16:COM3	20:COM7	24:COM11	-
			-11.224	-6.921	-0.028	-1.295	-0.064	-18.051
			22:COM9	18:COM5	26:COM13	30:COM17	18:COM5	18:COM5
	3463	-ve	9.391	0.000	0.074	1.302	0.083	9.033
			28:COM15	-	16:COM3	20:COM7	16:COM3	24:COM11
			-11.224	-7.989	-0.028	-1.295	-0.032	-10.080
			22:COM9	34:CVOL3	26:COM13	30:COM17	26:COM13	18:COM5
8043	3463	+ve	9.982	0.000	5.104	10.931	0.902	9.077
			28:COM15	-	20:COM7	28:COM15	28:COM15	24:COM11
			-15.315	-9.499	-3.449	-12.754	-1.396	-10.235
			22:COM9	22:COM9	30:COM17	22:COM9	22:COM9	18:COM5
	3285	-ve	9.982	0.000	5.104	10.931	1.591	14.539
			28:COM15	-	20:COM7	28:COM15	20:COM7	16:COM3
			-15.315	-9.769	-3.449	-12.754	-1.120	-8.608
			22:COM9	22:COM9	30:COM17	22:COM9	30:COM17	26:COM13
8044	3464	+ve	0.000	0.000	1.072	0.114	0.000	17.014
			-	-	34:CVOL3	28:COM15	-	34:CVOL3
			-12.845	-5.395	0.000	-0.369	-0.891	0.000
			22:COM9	22:COM9	-	22:COM9	34:CVOL3	-
	3465	-ve	0.000	0.000	1.072	0.114	0.859	27.080
			-	-	34:CVOL3	28:COM15	34:CVOL3	20:COM7
			-12.845	-7.088	0.000	-0.369	0.000	0.000
			22:COM9	22:COM9	-	22:COM9	-	-
8045	3465	+ve	0.000	0.000	0.000	0.018	0.052	27.199
			-	-	-	28:COM15	16:COM3	20:COM7
			-16.726	-7.924	-0.292	-0.996	-0.036	0.000
			22:COM9	22:COM9	22:COM9	22:COM9	26:COM13	-
	3263	-ve	0.000	0.000	0.000	0.018	0.000	41.475
			-	-	-	28:COM15	-	20:COM7
			-16.726	-9.613	-0.292	-0.996	-0.451	0.000
			22:COM9	22:COM9	22:COM9	22:COM9	34:CVOL3	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
8046	3464	+ve	2.656	0.000	0.148	0.131	0.000	0.088
			32:CVOL1	-	34:CVOL3	16:COM3	-	28:COM1
			0.000	-1.610	0.000	0.000	-0.240	-0.333
			-	32:CVOL1	-	-	34:CVOL3	22:COM9
	3417	-ve	2.656	0.000	0.148	0.131	0.212	13.377
			32:CVOL1	-	34:CVOL3	16:COM3	34:CVOL3	34:CVOL3
			0.000	-7.649	0.000	0.000	0.000	0.000
			-	34:CVOL3	-	-	-	-
8047	3465	+ve	0.000	0.941	0.069	0.111	0.000	0.050
			-	35:CVOL4	20:COM7	20:COM7	-	28:COM1
			-4.892	0.000	0.000	-0.035	-0.115	-0.452
			22:COM9	-	-	30:COM1	22:COM9	22:COM9
	3418	-ve	0.000	0.000	0.069	0.111	0.097	6.317
			-	-	20:COM7	20:COM7	20:COM7	34:CVOL3
			-4.892	-5.150	0.000	-0.035	0.000	0.000
			22:COM9	34:CVOL3	-	30:COM1	-	-
8048	3466	+ve	9.592	1.303	1.693	2.520	1.266	4.761
			28:COM1	28:COM1	20:COM7	16:COM3	28:COM1	28:COM1
			-14.024	-17.133	-1.678	-0.570	-1.345	-12.760
			22:COM9	22:COM9	30:COM1	26:COM1	22:COM9	22:COM9
	3467	-ve	9.592	0.591	1.693	2.520	1.444	32.291
			28:COM1	28:COM1	20:COM7	16:COM3	20:COM7	20:COM7
			-14.024	-18.083	-1.678	-0.570	-1.499	-12.858
			22:COM9	22:COM9	30:COM1	26:COM1	30:COM1	30:COM1
8049	3442	+ve	3.085	4.126	0.059	0.206	0.019	4.349
			28:COM1	20:COM7	16:COM3	28:COM1	24:COM1	28:COM1
			-4.397	-3.488	-0.015	-0.441	-0.078	-16.977
			22:COM9	30:COM1	26:COM1	22:COM9	18:COM5	22:COM9
	3466	-ve	3.085	0.542	0.059	0.206	0.087	1.255
			28:COM1	28:COM1	16:COM3	28:COM1	16:COM3	28:COM1
			-4.397	-8.912	-0.015	-0.441	-0.021	-3.174
			22:COM9	22:COM9	26:COM1	22:COM9	26:COM1	22:COM9
8050	3443	+ve	9.179	7.455	0.022	0.240	0.020	6.846
			28:COM1	20:COM7	20:COM7	28:COM1	24:COM1	28:COM1
			-12.105	-5.368	-0.010	-0.331	-0.051	-12.470
			22:COM9	30:COM1	30:COM1	22:COM9	18:COM5	22:COM9
	3303	-ve	9.179	1.611	0.022	0.240	0.046	27.453
			28:COM1	28:COM1	20:COM7	28:COM1	20:COM7	20:COM7
			-12.105	-13.571	-0.010	-0.331	-0.027	-11.758
			22:COM9	22:COM9	30:COM1	22:COM9	30:COM1	30:COM1
8051	3467	+ve	9.223	0.000	4.498	2.775	1.280	28.507
			28:COM1	-	20:COM7	24:COM1	28:COM1	20:COM7
			-14.956	-15.455	-3.275	-6.486	-1.743	-12.098
			22:COM9	22:COM9	30:COM1	18:COM5	22:COM9	30:COM1
	3303	-ve	9.223	0.000	4.498	2.775	1.804	40.832
			28:COM1	-	20:COM7	24:COM1	20:COM7	20:COM7
			-14.956	-15.910	-3.275	-6.486	-1.303	-9.872
			22:COM9	22:COM9	30:COM1	18:COM5	30:COM1	30:COM1

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
8052	3467	+ve	4.602	3.235	0.188	1.447	0.116	3.567
			28:COM15	28:COM15	20:COM7	20:COM7	28:COM15	24:COM1
			-6.275	-2.674	-0.129	-0.320	-0.166	-9.886
			22:COM9	22:COM9	30:COM1	30:COM1	22:COM9	18:COM5
	3473	-ve	4.602	2.792	0.188	1.447	0.155	2.321
			28:COM15	28:COM15	20:COM7	20:COM7	20:COM7	24:COM1
			-6.275	-3.264	-0.129	-0.320	-0.105	-8.717
			22:COM9	22:COM9	30:COM1	30:COM1	30:COM1	18:COM5
8053	3468	+ve	14.361	4.143	0.772	7.750	0.715	41.431
			20:COM7	28:COM15	28:COM15	20:COM7	20:COM7	20:COM7
			-14.891	-15.870	-1.288	-4.088	-0.461	-25.423
			30:COM1	22:COM9	22:COM9	30:COM1	30:COM1	30:COM1
	3317	-ve	14.361	3.351	0.772	7.750	0.175	54.325
			20:COM7	28:COM15	28:COM15	20:COM7	28:COM15	20:COM7
			-14.891	-17.114	-1.288	-4.088	-0.325	-28.330
			30:COM1	22:COM9	22:COM9	30:COM1	22:COM9	30:COM1
8054	3280	+ve	4.151	4.592	0.033	0.541	0.005	20.876
			24:COM1	20:COM7	16:COM3	20:COM7	24:COM11	16:COM3
			-6.073	0.000	-0.003	-0.123	-0.035	-3.746
			18:COM5	-	26:COM13	30:COM1	18:COM5	26:COM13
	3469	-ve	4.151	3.918	0.033	0.541	0.030	16.895
			24:COM1	20:COM7	16:COM3	20:COM7	16:COM3	16:COM3
			-6.073	0.000	-0.003	-0.123	-0.001	-8.669
			18:COM5	-	26:COM13	30:COM1	26:COM13	26:COM13
8055	3469	+ve	5.030	6.866	0.014	0.456	0.034	16.660
			24:COM1	16:COM3	24:COM11	20:COM7	16:COM3	16:COM3
			-6.315	0.000	-0.040	-0.106	-0.010	-8.818
			18:COM5	-	18:COM5	30:COM1	26:COM13	26:COM13
	3470	-ve	5.030	6.191	0.014	0.456	0.017	4.903
			24:COM1	16:COM3	24:COM11	20:COM7	24:COM11	24:COM1
			-6.315	-0.436	-0.040	-0.106	-0.044	-9.435
			18:COM5	26:COM13	18:COM5	30:COM1	18:COM5	18:COM5
8056	3470	+ve	5.565	5.252	0.029	0.258	0.040	4.859
			24:COM1	16:COM3	24:COM11	20:COM7	16:COM3	24:COM1
			-7.545	-1.620	-0.039	-0.267	-0.027	-9.531
			18:COM5	26:COM13	18:COM5	30:COM1	26:COM13	18:COM5
	3471	-ve	5.565	4.577	0.029	0.258	0.030	0.000
			24:COM1	16:COM3	24:COM11	20:COM7	24:COM11	-
			-7.545	-2.126	-0.039	-0.267	-0.035	-7.285
			18:COM5	26:COM13	18:COM5	30:COM1	18:COM5	18:COM5
8057	3471	+ve	6.423	2.293	0.082	0.260	0.052	0.000
			24:COM1	24:COM11	20:COM7	28:COM15	28:COM15	-
			-8.567	-2.571	-0.068	-0.666	-0.070	-7.230
			18:COM5	18:COM5	30:COM1	22:COM9	22:COM9	18:COM5
	3472	-ve	6.423	1.787	0.082	0.260	0.090	0.431
			24:COM1	24:COM11	20:COM7	28:COM15	20:COM7	24:COM1
			-8.567	-3.245	-0.068	-0.666	-0.081	-9.191
			18:COM5	18:COM5	30:COM1	22:COM9	30:COM1	18:COM5

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
8058	3472	+ve	8.209	2.861	0.240	0.678	0.228	0.458
			28:COM15	28:COM15	28:COM15	28:COM15	20:COM7	24:COM17
			-9.988	-3.120	-0.270	-1.637	-0.204	-8.746
			22:COM9	22:COM9	22:COM9	22:COM9	30:COM17	18:COM5
	3468	-ve	8.209	2.414	0.240	0.678	0.209	4.361
			28:COM15	28:COM15	28:COM15	28:COM15	28:COM15	28:COM15
			-9.988	-3.716	-0.270	-1.637	-0.236	-11.304
			22:COM9	22:COM9	22:COM9	22:COM9	22:COM9	22:COM9
8059	3469	+ve	1.194	2.385	0.068	0.025	0.246	0.388
			24:COM17	24:COM17	28:COM15	28:COM15	20:COM7	24:COM17
			-4.976	-5.345	-0.655	-0.322	-0.025	-0.888
			18:COM5	18:COM5	22:COM9	22:COM9	30:COM17	18:COM5
	3313	-ve	1.194	1.636	0.068	0.025	0.027	3.610
			24:COM17	24:COM17	28:COM15	28:COM15	28:COM15	16:COM3
			-4.976	-6.644	-0.655	-0.322	-0.245	-1.121
			18:COM5	18:COM5	22:COM9	22:COM9	22:COM9	26:COM13
8060	3470	+ve	0.721	1.832	0.222	0.096	0.171	0.342
			16:COM3	16:COM3	28:COM15	28:COM15	20:COM7	20:COM7
			-0.327	0.000	-0.454	-0.202	-0.079	0.000
			26:COM13	-	22:COM9	22:COM9	30:COM17	-
	3314	-ve	0.721	0.533	0.222	0.096	0.088	0.180
			16:COM3	16:COM3	28:COM15	28:COM15	28:COM15	24:COM17
			-0.327	-0.458	-0.454	-0.202	-0.170	-0.587
			26:COM13	26:COM13	22:COM9	22:COM9	22:COM9	18:COM5
8061	3471	+ve	1.275	2.392	0.509	0.244	0.090	0.582
			16:COM3	16:COM3	20:COM7	20:COM7	28:COM15	20:COM7
			-0.321	0.000	-0.262	-0.131	-0.186	-0.042
			26:COM13	-	30:COM17	30:COM17	22:COM9	30:COM17
	3315	-ve	1.275	1.093	0.509	0.244	0.197	0.050
			16:COM3	16:COM3	20:COM7	20:COM7	20:COM7	24:COM17
			-0.321	-0.412	-0.262	-0.131	-0.107	-0.789
			26:COM13	26:COM13	30:COM17	30:COM17	30:COM17	18:COM5
8062	3472	+ve	1.746	2.068	0.967	0.548	0.067	0.585
			28:COM15	28:COM15	20:COM7	20:COM7	28:COM15	16:COM3
			-4.765	-3.268	-0.254	-0.183	-0.331	-0.485
			22:COM9	22:COM9	30:COM17	30:COM17	22:COM9	26:COM13
	3316	-ve	1.746	1.319	0.967	0.548	0.395	3.016
			28:COM15	28:COM15	20:COM7	20:COM7	20:COM7	20:COM7
			-4.765	-4.567	-0.254	-0.183	-0.125	-1.248
			22:COM9	22:COM9	30:COM17	30:COM17	30:COM17	30:COM17
8063	3473	+ve	4.413	3.844	0.016	0.728	0.030	2.111
			28:COM15	16:COM3	28:COM15	20:COM7	20:COM7	24:COM17
			-6.473	-1.602	-0.030	-0.187	-0.022	-9.100
			22:COM9	26:COM13	22:COM9	30:COM17	30:COM17	18:COM5
	3474	-ve	4.413	3.169	0.016	0.728	0.009	0.000
			28:COM15	16:COM3	28:COM15	20:COM7	28:COM15	-
			-6.473	-2.108	-0.030	-0.187	-0.030	-7.742
			22:COM9	26:COM13	22:COM9	30:COM17	22:COM9	22:COM9

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
8064	3474	+ve	3.907	2.554	0.028	0.325	0.027	0.000
			28:COM15	24:COM11	24:COM11	20:COM7	16:COM3	-
			-5.966	-4.115	-0.028	-0.226	-0.025	-7.658
			22:COM9	18:COM5	18:COM5	30:COM17	26:COM13	22:COM9
	3475	-ve	3.907	2.048	0.028	0.325	0.031	3.962
			28:COM15	24:COM11	24:COM11	20:COM7	16:COM3	24:COM17
			-5.966	-4.790	-0.028	-0.226	-0.028	-10.207
			22:COM9	18:COM5	18:COM5	30:COM17	26:COM13	18:COM5
8065	3475	+ve	3.266	0.700	0.036	0.143	0.019	4.001
			28:COM15	24:COM11	16:COM3	28:COM15	24:COM11	24:COM17
			-4.721	-5.815	-0.016	-0.414	-0.040	-10.170
			22:COM9	18:COM5	26:COM13	22:COM9	18:COM5	18:COM5
	3476	-ve	3.266	0.194	0.036	0.143	0.031	14.592
			28:COM15	24:COM11	16:COM3	28:COM15	16:COM3	16:COM3
			-4.721	-6.489	-0.016	-0.414	-0.012	-9.636
			22:COM9	18:COM5	26:COM13	22:COM9	26:COM13	26:COM13
8066	3476	+ve	2.503	0.000	0.011	0.060	0.024	14.823
			28:COM15	-	24:COM11	28:COM15	16:COM3	16:COM3
			-4.284	-4.389	-0.028	-0.476	-0.008	-9.535
			22:COM9	22:COM9	18:COM5	22:COM9	26:COM13	26:COM13
	3278	-ve	2.503	0.000	0.011	0.060	0.013	19.532
			28:COM15	-	24:COM11	28:COM15	24:COM11	16:COM3
			-4.284	-5.064	-0.028	-0.476	-0.031	-4.018
			22:COM9	22:COM9	18:COM5	22:COM9	18:COM5	26:COM13
8067	3473	+ve	1.880	2.524	0.127	0.111	0.361	0.490
			28:COM15	28:COM15	28:COM15	28:COM15	20:COM7	24:COM17
			-6.576	-5.237	-0.999	-0.572	-0.039	-0.608
			22:COM9	22:COM9	22:COM9	22:COM9	30:COM17	18:COM5
	3304	-ve	1.880	1.775	0.127	0.111	0.057	3.943
			28:COM15	28:COM15	28:COM15	28:COM15	28:COM15	20:COM7
			-6.576	-6.536	-0.999	-0.572	-0.388	-1.258
			22:COM9	22:COM9	22:COM9	22:COM9	22:COM9	30:COM17
8068	3474	+ve	0.945	2.307	0.244	0.111	0.237	0.494
			16:COM3	16:COM3	28:COM15	28:COM15	20:COM7	16:COM3
			-0.202	0.000	-0.625	-0.286	-0.089	0.000
			26:COM13	-	22:COM9	22:COM9	30:COM17	-
	3305	-ve	0.945	1.008	0.244	0.111	0.093	0.147
			16:COM3	16:COM3	28:COM15	28:COM15	28:COM15	24:COM17
			-0.202	-0.435	-0.625	-0.286	-0.232	-0.793
			26:COM13	26:COM13	22:COM9	22:COM9	22:COM9	18:COM5
8069	3475	+ve	1.054	2.026	0.423	0.176	0.115	0.404
			20:COM7	16:COM3	20:COM7	20:COM7	28:COM15	20:COM7
			-0.417	0.000	-0.303	-0.119	-0.163	0.000
			30:COM17	-	30:COM17	30:COM17	22:COM9	-
	3306	-ve	1.054	0.726	0.423	0.176	0.154	0.128
			20:COM7	16:COM3	20:COM7	20:COM7	20:COM7	24:COM17
			-0.417	-0.402	-0.303	-0.119	-0.113	-0.673
			30:COM17	26:COM13	30:COM17	30:COM17	30:COM17	18:COM5

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
8070	3476	+ve	1.982	3.114	0.614	0.299	0.040	0.545
			24:COM1	24:COM11	20:COM7	20:COM7	28:COM15	24:COM1
			-4.654	-4.756	-0.104	-0.043	-0.232	-0.801
			18:COM5	18:COM5	30:COM1	30:COM1	22:COM9	18:COM5
	3307	-ve	1.982	2.364	0.614	0.299	0.228	3.253
			24:COM1	24:COM11	20:COM7	20:COM7	20:COM7	16:COM3
			-4.654	-6.055	-0.104	-0.043	-0.038	-1.509
			18:COM5	18:COM5	30:COM1	30:COM1	30:COM1	26:COM1
8071	3477	+ve	1.905	11.106	0.070	0.173	0.096	9.589
			28:COM15	16:COM3	28:COM15	24:COM1	20:COM7	20:COM7
			-4.109	-10.778	-0.102	-0.595	-0.065	0.000
			22:COM9	26:COM1	22:COM9	18:COM5	30:COM1	-
	5503	-ve	1.905	9.582	0.070	0.173	0.077	31.974
			28:COM15	24:COM11	28:COM15	24:COM1	28:COM15	16:COM3
			-4.109	-12.322	-0.102	-0.595	-0.109	-15.911
			22:COM9	18:COM5	22:COM9	18:COM5	22:COM9	26:COM1
8073	3477	+ve	0.495	1.960	0.157	0.152	0.144	0.754
			28:COM15	16:COM3	24:COM11	24:COM1	16:COM3	20:COM7
			-1.784	0.000	-0.236	-0.240	-0.095	0.000
			22:COM9	-	18:COM5	18:COM5	26:COM1	-
	3435	-ve	0.495	0.239	0.157	0.152	0.100	0.619
			28:COM15	24:COM11	24:COM11	24:COM1	24:COM11	16:COM3
			-1.784	-1.359	-0.236	-0.240	-0.151	-0.491
			22:COM9	18:COM5	18:COM5	18:COM5	18:COM5	26:COM1
8074	5503	+ve	3.185	10.124	0.515	25.418	0.069	0.853
			20:COM7	24:COM11	20:COM7	16:COM3	28:COM15	24:COM1
			-1.966	-19.443	-0.129	-6.048	-0.358	-1.054
			30:COM1	18:COM5	30:COM1	26:COM1	22:COM9	18:COM5
	5470	-ve	3.185	8.006	0.515	25.418	0.329	25.212
			20:COM7	24:COM11	20:COM7	16:COM3	16:COM3	16:COM3
			-1.966	-22.765	-0.129	-6.048	-0.138	-10.429
			30:COM1	18:COM5	30:COM1	26:COM1	26:COM1	26:COM1
8075	3479	+ve	50.443	0.000	0.000	9.827	5.549	33.404
			34:CVOL3	-	-	20:COM7	34:CVOL3	32:CVOL1
			0.000	-31.985	-5.113	-2.936	0.000	0.000
			-	34:CVOL3	22:COM9	30:COM1	-	-
	3480	-ve	50.443	0.000	0.000	9.827	0.000	99.582
			34:CVOL3	-	-	20:COM7	-	32:CVOL1
			0.000	-36.217	-5.113	-2.936	-4.875	0.000
			-	32:CVOL1	22:COM9	30:COM1	22:COM9	-
8076	3480	+ve	109.047	0.000	0.000	2.610	9.033	84.721
			34:CVOL3	-	-	16:COM3	34:CVOL3	32:CVOL1
			0.000	-55.735	-8.981	-0.954	0.000	0.000
			-	34:CVOL3	34:CVOL3	26:COM1	-	-
	3337	-ve	109.047	0.000	0.000	2.610	0.000	195.652
			34:CVOL3	-	-	16:COM3	-	34:CVOL3
			0.000	-59.794	-8.981	-0.954	-8.531	0.000
			-	34:CVOL3	34:CVOL3	26:COM1	34:CVOL3	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
8077	3481	+ve	35.985	31.011	6.990	1.149	0.000	63.774
			32:CVOL1	34:CVOL3	34:CVOL3	28:COM15	-	32:CVOL1
			0.000	0.000	0.000	-5.148	-7.528	0.000
			-	-	-	22:COM9	34:CVOL3	-
	3482	-ve	35.985	27.630	6.990	1.149	6.138	7.103
			32:CVOL1	34:CVOL3	34:CVOL3	28:COM15	34:CVOL3	32:CVOL1
			0.000	0.000	0.000	-5.148	0.000	0.000
			-	-	-	22:COM9	-	-
8078	3481	+ve	0.497	7.070	0.009	0.062	0.000	7.510
			24:COM11	20:COM7	16:COM3	28:COM15	-	20:COM7
			-3.019	0.000	0.000	-0.080	-0.037	0.000
			18:COM5	-	-	22:COM9	18:COM5	-
	3480	-ve	0.497	0.000	0.009	0.062	0.021	17.919
			24:COM11	-	16:COM3	28:COM15	16:COM3	20:COM7
			-3.019	-7.765	0.000	-0.080	-0.002	-4.114
			18:COM5	22:COM9	-	22:COM9	26:COM13	30:COM17
8079	3482	+ve	10.467	18.899	10.545	2.181	0.000	12.263
			32:CVOL1	32:CVOL1	32:CVOL1	20:COM7	-	32:CVOL1
			0.000	0.000	0.000	-1.597	-4.939	0.000
			-	-	-	30:COM17	32:CVOL1	-
	3269	-ve	10.467	17.315	10.545	2.181	3.334	0.000
			32:CVOL1	32:CVOL1	32:CVOL1	20:COM7	32:CVOL1	-
			0.000	0.000	0.000	-1.597	0.000	-1.980
			-	-	-	30:COM17	-	18:COM5
8080	3482	+ve	3.059	6.042	0.003	0.047	0.000	6.326
			28:COM15	35:CVOL4	20:COM7	20:COM7	-	35:CVOL4
			-7.576	0.000	-0.001	-0.034	-0.013	0.000
			22:COM9	-	30:COM17	30:COM17	22:COM9	-
	3479	-ve	3.059	0.000	0.003	0.047	0.007	7.471
			28:COM15	-	20:COM7	20:COM7	20:COM7	20:COM7
			-7.576	-6.227	-0.001	-0.034	-0.005	0.000
			22:COM9	34:CVOL3	30:COM17	30:COM17	30:COM17	-
8081	3483	+ve	0.476	21.039	0.311	2.917	0.385	55.677
			28:COM15	34:CVOL3	28:COM15	16:COM3	20:COM7	34:CVOL3
			-1.386	0.000	-0.294	-0.559	-0.379	0.000
			22:COM9	-	22:COM9	26:COM13	30:COM17	-
	3484	-ve	0.476	18.763	0.311	2.917	0.265	17.453
			28:COM15	34:CVOL3	28:COM15	16:COM3	24:COM11	32:CVOL1
			-1.386	0.000	-0.294	-0.559	-0.226	0.000
			22:COM9	-	22:COM9	26:COM13	18:COM5	-
8082	3484	+ve	0.635	10.798	0.128	0.662	0.143	17.748
			24:COM11	32:CVOL1	28:COM15	32:CVOL1	24:COM11	32:CVOL1
			-0.822	0.000	-0.169	-0.708	-0.145	0.000
			18:COM5	-	22:COM9	35:CVOL4	18:COM5	-
	3273	-ve	0.635	8.144	0.128	0.662	0.122	0.000
			24:COM11	32:CVOL1	28:COM15	32:CVOL1	28:COM15	-
			-0.822	0.000	-0.169	-0.708	-0.205	-0.940
			18:COM5	-	22:COM9	35:CVOL4	22:COM9	32:CVOL1

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
8083	3485	+ve	4.516	27.804	0.481	0.000	0.316	47.150
			16:COM3	34:CVOL3	16:COM3	-	16:COM3	34:CVOL3
			-1.980	0.000	-0.392	-9.164	-0.238	0.000
			26:COM1	-	26:COM1	34:CVOL3	26:COM1	-
	3274	-ve	4.516	25.420	0.481	0.000	0.634	1.443
			16:COM3	34:CVOL3	16:COM3	-	16:COM3	32:CVOL1
			-1.980	0.000	-0.392	-9.164	-0.402	0.000
			26:COM1	-	26:COM1	34:CVOL3	26:COM1	-
8084	3483	+ve	0.000	6.036	0.001	0.141	0.008	4.727
			-	35:CVOL4	24:COM11	16:COM3	16:COM3	20:COM7
			-3.053	0.000	-0.003	0.000	-0.002	0.000
			18:COM5	-	18:COM5	-	26:COM1	-
	3485	-ve	0.000	0.000	0.001	0.141	0.005	7.249
			-	-	24:COM11	16:COM3	24:COM11	34:CVOL3
			-3.053	-6.872	-0.003	0.000	-0.009	0.000
			18:COM5	34:CVOL3	18:COM5	-	18:COM5	-
8085	3484	+ve	3.388	5.770	0.004	0.128	0.000	4.843
			16:COM3	35:CVOL4	20:COM7	16:COM3	-	35:CVOL4
			-0.071	0.000	0.000	0.000	-0.013	0.000
			26:COM1	-	-	-	18:COM5	-
	3274	-ve	3.388	0.000	0.004	0.128	0.013	6.666
			16:COM3	-	20:COM7	16:COM3	20:COM7	34:CVOL3
			-0.071	-6.386	0.000	0.000	0.000	0.000
			26:COM1	34:CVOL3	-	-	-	-
8086	3486	+ve	0.000	0.000	0.440	0.000	0.000	0.324
			-	-	34:CVOL3	-	-	32:CVOL1
			-3.649	-2.290	0.000	-0.500	-0.369	0.000
			22:COM9	34:CVOL3	-	22:COM9	34:CVOL3	-
	3487	-ve	0.000	0.000	0.440	0.000	0.491	6.736
			-	-	34:CVOL3	-	34:CVOL3	34:CVOL3
			-3.649	-4.458	0.000	-0.500	0.000	0.000
			22:COM9	32:CVOL1	-	22:COM9	-	-
8087	3487	+ve	0.000	0.000	0.710	0.000	0.000	6.818
			-	-	34:CVOL3	-	-	34:CVOL3
			-9.331	-4.364	0.000	-0.384	-0.646	0.000
			22:COM9	22:COM9	-	18:COM5	34:CVOL3	-
	3464	-ve	0.000	0.000	0.710	0.000	0.722	16.930
			-	-	34:CVOL3	-	34:CVOL3	34:CVOL3
			-9.331	-6.362	0.000	-0.384	0.000	0.000
			22:COM9	22:COM9	-	18:COM5	-	-
8088	3486	+ve	0.000	2.088	0.061	0.088	0.000	0.438
			-	35:CVOL4	34:CVOL3	20:COM7	-	35:CVOL4
			-3.357	0.000	0.000	0.000	-0.094	-0.002
			22:COM9	-	-	-	34:CVOL3	30:COM1
	3482	-ve	0.000	0.000	0.061	0.088	0.091	3.579
			-	-	34:CVOL3	20:COM7	34:CVOL3	34:CVOL3
			-3.357	-4.084	0.000	0.000	0.000	0.000
			22:COM9	34:CVOL3	-	-	-	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
8089	3487	+ve	0.763	0.187	0.130	0.121	0.000	0.030
			32:CVOL1	20:COM7	34:CVOL3	16:COM3	-	28:COM1
			0.000	-0.518	0.000	0.000	-0.207	-0.182
			-	30:COM1	-	-	34:CVOL3	22:COM9
	3481	-ve	0.763	0.000	0.130	0.121	0.186	9.796
			32:CVOL1	-	34:CVOL3	16:COM3	34:CVOL3	34:CVOL3
			0.000	-6.452	0.000	0.000	0.000	0.000
			-	34:CVOL3	-	-	-	-
8090	3488	+ve	0.897	6.591	0.000	0.367	0.025	19.150
			28:COM1	16:COM3	-	16:COM3	20:COM7	16:COM3
			-1.259	0.000	-0.031	0.000	-0.001	0.000
			22:COM9	-	22:COM9	-	30:COM1	-
	3489	-ve	0.897	4.846	0.000	0.367	0.000	8.663
			28:COM1	16:COM3	-	16:COM3	-	34:CVOL3
			-1.259	0.000	-0.031	0.000	-0.045	0.000
			22:COM9	-	22:COM9	-	18:COM5	-
8091	3489	+ve	0.316	4.723	0.000	0.208	0.086	8.568
			28:COM1	32:CVOL1	-	32:CVOL1	16:COM3	34:CVOL3
			-0.407	0.000	-0.077	0.000	0.000	0.000
			22:COM9	-	18:COM5	-	-	-
	3272	-ve	0.316	2.551	0.000	0.208	0.000	0.065
			28:COM1	34:CVOL3	-	32:CVOL1	-	24:COM1
			-0.407	0.000	-0.077	0.000	-0.098	-0.063
			22:COM9	-	18:COM5	-	18:COM5	18:COM5
8092	3488	+ve	0.000	0.018	0.049	0.052	0.063	0.011
			-	24:COM1	24:COM1	24:COM1	16:COM3	24:COM1
			-6.898	-4.768	-0.101	-0.118	-0.032	-1.980
			18:COM5	18:COM5	18:COM5	18:COM5	26:COM1	18:COM5
	3483	-ve	0.000	0.000	0.049	0.052	0.028	5.276
			-	-	24:COM1	24:COM1	24:COM1	16:COM3
			-6.898	-6.919	-0.101	-0.118	-0.063	0.000
			18:COM5	18:COM5	18:COM5	18:COM5	18:COM5	-
8093	3489	+ve	0.000	0.684	0.000	0.000	0.060	0.199
			-	24:COM1	-	-	34:CVOL3	24:COM1
			-4.287	-1.676	-0.090	-0.086	0.000	-0.611
			18:COM5	18:COM5	34:CVOL3	34:CVOL3	-	18:COM5
	3484	-ve	0.000	0.000	0.000	0.000	0.000	2.796
			-	-	-	-	-	16:COM3
			-4.287	-3.823	-0.090	-0.086	-0.052	0.000
			18:COM5	18:COM5	34:CVOL3	34:CVOL3	34:CVOL3	-
8094	3485	+ve	0.884	8.226	0.004	0.388	0.009	11.706
			28:COM1	34:CVOL3	16:COM3	16:COM3	24:COM1	34:CVOL3
			-2.719	0.000	-0.003	-0.001	-0.012	0.000
			22:COM9	-	26:COM1	26:COM1	18:COM5	-
	3550	-ve	0.884	0.000	0.004	0.388	0.008	0.411
			28:COM1	-	16:COM3	16:COM3	16:COM3	24:COM1
			-2.719	-2.807	-0.003	-0.001	-0.005	-2.998
			22:COM9	35:CVOL4	26:COM1	26:COM1	26:COM1	18:COM5

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
8096	3490	+ve	2.427	6.313	0.013	0.382	0.029	14.962
			28:COM15	16:COM3	24:COM11	16:COM3	16:COM3	16:COM3
			-3.357	0.000	-0.035	0.000	-0.010	-7.986
			22:COM9	-	18:COM5	-	26:COM13	26:COM13
	3491	-ve	2.427	5.638	0.013	0.382	0.015	4.200
			28:COM15	16:COM3	24:COM11	16:COM3	24:COM11	24:COM11
			-3.357	-0.485	-0.035	0.000	-0.040	-8.423
			22:COM9	26:COM13	18:COM5	-	18:COM5	18:COM5
8097	3491	+ve	2.577	4.911	0.021	0.149	0.039	4.055
			28:COM15	16:COM3	24:COM11	16:COM3	16:COM3	24:COM11
			-3.777	-1.755	-0.037	-0.004	-0.020	-8.513
			22:COM9	26:COM13	18:COM5	26:COM13	26:COM13	18:COM5
	3492	-ve	2.577	4.236	0.021	0.149	0.021	0.000
			28:COM15	16:COM3	24:COM11	16:COM3	24:COM11	-
			-3.777	-2.261	-0.037	-0.004	-0.035	-6.358
			22:COM9	26:COM13	18:COM5	26:COM13	18:COM5	35:CVOL4
8098	3492	+ve	2.974	2.714	0.033	0.004	0.023	0.000
			28:COM15	24:COM11	16:COM3	24:COM11	24:COM11	-
			-3.959	-3.505	-0.023	-0.150	-0.030	-6.359
			22:COM9	18:COM5	26:COM13	18:COM5	18:COM5	35:CVOL4
	3493	-ve	2.974	2.208	0.033	0.004	0.034	3.283
			28:COM15	24:COM11	16:COM3	24:COM11	16:COM3	24:COM11
			-3.959	-4.180	-0.023	-0.150	-0.022	-10.050
			22:COM9	18:COM5	26:COM13	18:COM5	26:COM13	18:COM5
8099	3493	+ve	3.572	0.920	0.031	0.000	0.017	3.431
			28:COM15	24:COM11	16:COM3	-	24:COM11	24:COM11
			-3.847	-4.980	-0.014	-0.382	-0.035	-9.970
			22:COM9	18:COM5	26:COM13	22:COM9	18:COM5	18:COM5
	3494	-ve	3.572	0.414	0.031	0.000	0.026	12.327
			28:COM15	24:COM11	16:COM3	-	16:COM3	16:COM3
			-3.847	-5.655	-0.014	-0.382	-0.010	-9.798
			22:COM9	18:COM5	26:COM13	22:COM9	26:COM13	26:COM13
8100	3494	+ve	3.316	0.000	0.006	0.000	0.033	12.675
			28:COM15	-	24:COM11	-	16:COM3	16:COM3
			-4.208	-3.180	-0.034	-0.480	-0.004	-9.694
			22:COM9	18:COM5	18:COM5	18:COM5	26:COM13	26:COM13
	3279	-ve	3.316	0.000	0.006	0.000	0.008	14.915
			28:COM15	-	24:COM11	-	24:COM11	16:COM3
			-4.208	-3.855	-0.034	-0.480	-0.034	-4.310
			22:COM9	18:COM5	18:COM5	18:COM5	18:COM5	26:COM13
8101	3490	+ve	1.744	2.762	0.000	0.000	0.203	0.493
			24:COM11	24:COM11	-	-	16:COM3	24:COM11
			-5.208	-5.366	-0.542	-0.276	0.000	-0.937
			18:COM5	18:COM5	18:COM5	18:COM5	-	18:COM5
	3298	-ve	1.744	2.012	0.000	0.000	0.000	3.575
			24:COM11	24:COM11	-	-	-	16:COM3
			-5.208	-6.665	-0.542	-0.276	-0.205	-1.299
			18:COM5	18:COM5	18:COM5	18:COM5	22:COM9	26:COM13

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
8102	3491	+ve	1.018	1.812	0.000	0.000	0.150	0.329
			16:COM3	16:COM3	-	-	16:COM3	16:COM3
			-0.555	0.000	-0.371	-0.158	0.000	0.000
			26:COM1	-	18:COM5	18:COM5	-	-
	3299	-ve	1.018	0.524	0.000	0.000	0.000	0.204
			16:COM3	24:COM1	-	-	-	24:COM1
			-0.555	-0.575	-0.371	-0.158	-0.128	-0.548
			26:COM1	18:COM5	18:COM5	18:COM5	18:COM5	18:COM5
8103	3492	+ve	0.946	2.007	0.085	0.029	0.044	0.352
			34:CVOL3	35:CVOL4	24:COM1	16:COM3	16:COM3	35:CVOL4
			0.000	0.000	-0.098	-0.028	-0.038	0.000
			-	-	18:COM5	26:COM1	26:COM1	-
	3300	-ve	0.946	0.566	0.085	0.029	0.026	0.000
			34:CVOL3	20:COM7	24:COM1	16:COM3	24:COM1	-
			0.000	0.000	-0.098	-0.028	-0.030	-0.598
			-	-	18:COM5	26:COM1	18:COM5	35:CVOL4
8104	3493	+ve	1.054	1.851	0.359	0.157	0.007	0.328
			16:COM3	16:COM3	16:COM3	16:COM3	24:COM1	16:COM3
			-0.481	0.000	-0.002	0.000	-0.144	0.000
			26:COM1	-	26:COM1	-	18:COM5	-
	3301	-ve	1.054	0.552	0.359	0.157	0.126	0.177
			16:COM3	16:COM3	16:COM3	16:COM3	20:COM7	24:COM1
			-0.481	-0.513	-0.002	0.000	0.000	-0.581
			26:COM1	26:COM1	26:COM1	-	-	18:COM5
8105	3494	+ve	1.897	2.945	0.571	0.283	0.000	0.518
			24:COM1	24:COM1	20:COM7	20:COM7	-	24:COM1
			-4.830	-4.866	0.000	0.000	-0.214	-0.851
			18:COM5	18:COM5	-	-	22:COM9	18:COM5
	3302	-ve	1.897	2.196	0.571	0.283	0.214	3.286
			24:COM1	24:COM1	20:COM7	20:COM7	20:COM7	16:COM3
			-4.830	-6.165	0.000	0.000	0.000	-1.411
			18:COM5	18:COM5	-	-	-	26:COM1
8106	3289	+ve	0.380	6.811	0.004	0.075	0.010	8.857
			16:COM3	34:CVOL3	28:COM1	24:COM1	20:COM7	34:CVOL3
			-0.277	0.000	-0.005	-0.139	-0.007	0.000
			26:COM1	-	22:COM9	18:COM5	30:COM1	-
	3495	-ve	0.380	0.000	0.004	0.075	0.009	0.343
			16:COM3	-	28:COM1	24:COM1	28:COM1	35:CVOL4
			-0.277	-3.431	-0.005	-0.139	-0.012	0.000
			26:COM1	35:CVOL4	22:COM9	18:COM5	22:COM9	-
8107	3290	+ve	0.261	7.213	0.003	0.000	0.008	11.026
			24:COM1	34:CVOL3	28:COM1	-	20:COM7	16:COM3
			-0.606	0.000	-0.004	-0.181	-0.005	0.000
			18:COM5	-	22:COM9	35:CVOL4	30:COM1	-
	3496	-ve	0.261	0.000	0.003	0.000	0.006	0.514
			24:COM1	-	28:COM1	-	28:COM1	16:COM3
			-0.606	-2.957	-0.004	-0.181	-0.011	-0.051
			18:COM5	18:COM5	22:COM9	35:CVOL4	22:COM9	26:COM1

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
8108	3291	+ve	0.000	7.745	0.004	0.013	0.004	15.248
			-	34:CVOL3	20:COM7	24:COM1	28:COM1	16:COM3
			-1.729	0.000	-0.002	-0.208	-0.008	0.000
			18:COM5	-	30:COM1	18:COM5	22:COM9	-
	3497	-ve	0.000	0.000	0.004	0.013	0.007	2.041
			-	-	20:COM7	24:COM1	20:COM7	16:COM3
			-1.729	-2.528	-0.002	-0.208	-0.007	0.000
			18:COM5	18:COM5	30:COM1	18:COM5	30:COM1	-
8109	3498	+ve	3.433	2.005	0.196	0.296	0.238	29.226
			28:COM1	24:COM1	24:COM1	28:COM1	16:COM3	16:COM3
			-7.194	-5.806	-0.271	-2.395	-0.173	-5.910
			22:COM9	18:COM5	18:COM5	22:COM9	26:COM1	26:COM1
	3281	-ve	3.433	1.430	0.196	0.296	0.155	28.299
			28:COM1	24:COM1	24:COM1	28:COM1	24:COM1	20:COM7
			-7.194	-6.572	-0.271	-2.395	-0.214	0.000
			22:COM9	18:COM5	18:COM5	22:COM9	18:COM5	-
8110	3206	+ve	6.239	27.663	0.064	1.786	0.084	59.451
			20:COM7	20:COM7	24:COM1	20:COM7	16:COM3	20:COM7
			-2.939	-9.334	-0.072	-0.537	-0.076	-29.057
			30:COM1	30:COM1	18:COM5	30:COM1	26:COM1	30:COM1
	3498	-ve	6.239	22.950	0.064	1.786	0.074	1.553
			20:COM7	20:COM7	24:COM1	20:COM7	24:COM1	28:COM1
			-2.939	-12.172	-0.072	-0.537	-0.084	-4.947
			30:COM1	30:COM1	18:COM5	30:COM1	18:COM5	22:COM9
8111	3438	+ve	1.906	9.066	0.003	0.169	0.041	13.937
			20:COM7	34:CVOL3	28:COM1	32:CVOL1	20:COM7	16:COM3
			-1.696	0.000	-0.042	-0.184	-0.002	-9.241
			30:COM1	-	22:COM9	33:CVOL2	30:COM1	26:COM1
	3437	-ve	1.906	7.805	0.003	0.169	0.005	1.126
			20:COM7	16:COM3	28:COM1	32:CVOL1	28:COM1	24:COM1
			-1.696	0.000	-0.042	-0.184	-0.043	-17.427
			30:COM1	-	22:COM9	33:CVOL2	22:COM9	18:COM5
8112	3437	+ve	3.135	5.883	0.030	0.157	0.031	1.065
			28:COM1	16:COM3	20:COM7	24:COM1	28:COM1	24:COM1
			-3.367	0.000	-0.029	-0.314	-0.035	-17.388
			22:COM9	-	30:COM1	18:COM5	22:COM9	18:COM5
	3436	-ve	3.135	4.988	0.030	0.157	0.025	0.000
			28:COM1	16:COM3	20:COM7	24:COM1	28:COM1	-
			-3.367	-0.419	-0.029	-0.314	-0.027	-20.270
			22:COM9	26:COM1	30:COM1	18:COM5	22:COM9	34:CVOL3
8113	3436	+ve	4.186	2.379	0.024	0.296	0.033	0.000
			28:COM1	16:COM3	28:COM1	16:COM3	20:COM7	-
			-4.857	-2.098	-0.029	-0.266	-0.030	-20.257
			22:COM9	26:COM1	22:COM9	26:COM1	30:COM1	34:CVOL3
	3495	-ve	4.186	1.645	0.024	0.296	0.019	0.000
			28:COM1	24:COM1	28:COM1	16:COM3	28:COM1	-
			-4.857	-2.989	-0.029	-0.266	-0.026	-19.446
			22:COM9	18:COM5	22:COM9	26:COM1	22:COM9	34:CVOL3

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
8114	3495	+ve	5.052	0.000	0.021	0.470	0.033	0.000
			28:COM15	-	28:COM15	16:COM3	20:COM7	-
			-5.915	-5.401	-0.029	-0.092	-0.027	-19.413
			22:COM9	18:COM5	22:COM9	26:COM13	30:COM17	34:CVOL3
	3496	-ve	5.052	0.000	0.021	0.470	0.016	0.225
			28:COM15	-	28:COM15	16:COM3	24:COM11	24:COM17
			-5.915	-6.312	-0.029	-0.092	-0.026	-12.972
			22:COM9	18:COM5	22:COM9	26:COM13	18:COM5	18:COM5
8115	3496	+ve	5.519	0.000	0.050	0.766	0.015	0.322
			28:COM15	-	16:COM3	35:CVOL4	24:COM11	24:COM17
			-6.829	-8.059	-0.013	0.000	-0.048	-12.909
			22:COM9	34:CVOL3	26:COM13	-	18:COM5	18:COM5
	3497	-ve	5.519	0.000	0.050	0.766	0.051	13.931
			28:COM15	-	16:COM3	35:CVOL4	16:COM3	16:COM3
			-6.829	-9.909	-0.013	0.000	-0.010	-3.277
			22:COM9	34:CVOL3	26:COM13	-	26:COM13	26:COM13
8116	3497	+ve	4.675	0.000	0.131	2.597	0.029	13.979
			28:COM15	-	16:COM3	16:COM3	24:COM11	16:COM3
			-9.372	-11.587	-0.046	0.000	-0.108	-3.135
			22:COM9	34:CVOL3	26:COM13	-	18:COM5	26:COM13
	3277	-ve	4.675	0.000	0.131	2.597	0.152	34.060
			28:COM15	-	16:COM3	16:COM3	16:COM3	16:COM3
			-9.372	-13.475	-0.046	0.000	-0.061	0.000
			22:COM9	32:CVOL1	26:COM13	-	26:COM13	-
8117	3432	+ve	12.578	5.350	0.074	0.345	0.125	2.068
			20:COM7	16:COM3	24:COM11	16:COM3	16:COM3	24:COM17
			-9.013	0.000	-0.099	-0.340	-0.089	-9.907
			30:COM17	-	18:COM5	26:COM13	26:COM13	18:COM5
	3431	-ve	12.578	3.637	0.074	0.345	0.067	0.000
			20:COM7	16:COM3	24:COM11	16:COM3	28:COM15	-
			-9.013	-0.232	-0.099	-0.340	-0.080	-12.792
			30:COM17	26:COM13	18:COM5	26:COM13	22:COM9	18:COM5
8118	3431	+ve	11.734	2.458	0.066	0.061	0.031	0.000
			20:COM7	16:COM3	20:COM7	28:COM15	28:COM15	-
			-7.999	-0.844	-0.045	-0.104	-0.035	-12.758
			30:COM17	26:COM13	30:COM17	22:COM9	22:COM9	18:COM5
	3457	-ve	11.734	0.950	0.066	0.061	0.096	0.000
			20:COM7	24:COM11	20:COM7	28:COM15	20:COM7	-
			-7.999	-2.335	-0.045	-0.104	-0.058	-12.028
			30:COM17	18:COM5	30:COM17	22:COM9	30:COM17	22:COM9
8119	3457	+ve	8.671	0.000	0.090	0.225	0.022	0.000
			20:COM7	-	20:COM7	24:COM17	28:COM15	-
			-5.260	-2.979	-0.022	-0.289	-0.075	-11.981
			30:COM17	18:COM5	30:COM17	18:COM5	22:COM9	22:COM9
	3458	-ve	8.671	0.000	0.090	0.225	0.106	0.000
			20:COM7	-	20:COM7	24:COM17	20:COM7	-
			-5.260	-4.692	-0.022	-0.289	-0.024	-8.437
			30:COM17	18:COM5	30:COM17	18:COM5	30:COM17	22:COM9

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
8120	3458	+ve	4.505	0.000	0.064	0.354	0.012	0.000
			20:COM7	-	16:COM3	24:COM1	28:COM1	-
			-2.544	-4.866	-0.022	-0.515	-0.060	-8.350
			30:COM1	22:COM9	26:COM1	18:COM5	22:COM9	22:COM9
	3459	-ve	4.505	0.000	0.064	0.354	0.073	9.070
			20:COM7	-	16:COM3	24:COM1	16:COM3	20:COM7
			-2.544	-6.579	-0.022	-0.515	-0.039	-1.288
			30:COM1	22:COM9	26:COM1	18:COM5	26:COM1	30:COM1
8121	3459	+ve	4.521	0.000	0.013	0.798	0.101	9.041
			28:COM1	-	28:COM1	24:COM1	16:COM3	20:COM7
			-5.589	-7.003	-0.124	-0.810	-0.001	-1.211
			22:COM9	18:COM5	22:COM9	18:COM5	26:COM1	30:COM1
	3267	-ve	4.521	0.000	0.013	0.798	0.039	21.666
			28:COM1	-	28:COM1	24:COM1	28:COM1	20:COM7
			-5.589	-8.718	-0.124	-0.810	-0.158	0.000
			22:COM9	18:COM5	22:COM9	18:COM5	22:COM9	-
8124	3509	+ve	0.079	1.590	0.064	0.038	0.000	0.075
			28:COM1	32:CVOL1	20:COM7	24:COM1	-	32:CVOL1
			-0.377	0.000	0.000	-0.084	-0.048	-0.013
			22:COM9	-	-	18:COM5	18:COM5	30:COM1
	3513	-ve	0.079	0.000	0.064	0.038	0.037	0.168
			28:COM1	-	20:COM7	24:COM1	20:COM7	24:COM1
			-0.377	-1.196	0.000	-0.084	0.000	-0.475
			22:COM9	32:CVOL1	-	18:COM5	-	18:COM5
8125	3509	+ve	0.143	0.000	0.026	0.032	0.006	0.018
			24:COM1	-	16:COM3	20:COM7	24:COM1	24:COM1
			-0.490	-1.590	-0.005	-0.073	-0.031	-0.081
			18:COM5	32:CVOL1	26:COM1	30:COM1	18:COM5	18:COM5
	3516	-ve	0.143	0.000	0.026	0.032	0.028	6.206
			24:COM1	-	16:COM3	20:COM7	16:COM3	32:CVOL1
			-0.490	-3.893	-0.005	-0.073	-0.004	0.000
			18:COM5	32:CVOL1	26:COM1	30:COM1	26:COM1	-
8126	3456	+ve	0.000	5.845	0.141	2.888	0.060	7.858
			-	20:COM7	20:COM7	16:COM3	28:COM1	32:CVOL1
			-1.159	0.000	-0.105	-0.312	-0.070	0.000
			22:COM9	-	30:COM1	26:COM1	22:COM9	-
	3563	-ve	0.000	4.814	0.141	2.888	0.070	5.269
			-	20:COM7	20:COM7	16:COM3	20:COM7	16:COM3
			-1.159	0.000	-0.105	-0.312	-0.044	-0.439
			22:COM9	-	30:COM1	26:COM1	30:COM1	26:COM1
8127	3563	+ve	0.000	4.814	0.028	0.148	0.053	5.543
			-	20:COM7	24:COM1	24:COM1	16:COM3	16:COM3
			-1.450	0.000	-0.069	-2.321	-0.023	-0.518
			22:COM9	-	18:COM5	18:COM5	26:COM1	26:COM1
	3512	-ve	0.000	2.598	0.028	0.148	0.021	4.363
			-	20:COM7	24:COM1	24:COM1	24:COM1	24:COM1
			-1.450	-0.965	-0.069	-2.321	-0.059	-5.154
			22:COM9	30:COM1	18:COM5	18:COM5	18:COM5	18:COM5

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
8128	3511	+ve	0.000	9.213	0.039	2.218	0.063	6.481
			-	16:COM3	24:COM11	20:COM7	16:COM3	24:COM11
			-3.512	-3.701	-0.100	0.000	-0.026	-17.475
			22:COM9	26:COM13	18:COM5	-	26:COM13	18:COM5
	3566	-ve	0.000	7.352	0.039	2.218	0.028	0.000
			-	16:COM3	24:COM11	20:COM7	24:COM11	-
			-3.512	-5.098	-0.100	0.000	-0.075	-13.156
			22:COM9	26:COM13	18:COM5	-	18:COM5	22:COM9
8129	3512	+ve	0.491	0.261	0.037	0.097	0.088	0.000
			28:COM15	24:COM11	24:COM11	24:COM11	16:COM3	-
			-1.233	-2.282	-0.107	-0.237	-0.028	-2.683
			22:COM9	18:COM5	18:COM5	18:COM5	26:COM13	18:COM5
	3397	-ve	0.491	0.000	0.037	0.097	0.033	3.597
			28:COM15	-	24:COM11	24:COM11	24:COM11	20:COM7
			-1.233	-5.170	-0.107	-0.237	-0.090	0.000
			22:COM9	18:COM5	18:COM5	18:COM5	18:COM5	-
8130	3512	+ve	0.000	2.694	0.009	0.172	0.026	6.388
			-	20:COM7	24:COM11	24:COM11	16:COM3	16:COM3
			-2.136	0.000	-0.016	-0.660	-0.016	-4.879
			18:COM5	-	18:COM5	18:COM5	26:COM13	26:COM13
	3511	-ve	0.000	0.270	0.009	0.172	0.005	5.695
			-	35:CVOL4	24:COM11	24:COM11	28:COM15	28:COM15
			-2.136	-1.815	-0.016	-0.660	-0.009	-6.673
			18:COM5	32:CVOL1	18:COM5	18:COM5	22:COM9	22:COM9
8132	3513	+ve	0.949	0.000	0.080	1.038	0.211	0.178
			16:COM3	-	28:COM15	20:COM7	20:COM7	20:COM7
			-0.134	-5.999	-0.309	-0.565	-0.117	-0.583
			26:COM13	32:CVOL1	22:COM9	30:COM17	30:COM17	32:CVOL1
	3514	-ve	0.949	0.000	0.080	1.038	0.031	12.757
			16:COM3	-	28:COM15	20:COM7	28:COM15	32:CVOL1
			-0.134	-8.479	-0.309	-0.565	-0.358	0.000
			26:COM13	32:CVOL1	22:COM9	30:COM17	22:COM9	-
8133	3515	+ve	2.334	0.000	0.000	1.329	0.847	39.346
			16:COM3	-	-	28:COM15	20:COM7	32:CVOL1
			-1.501	-24.480	-0.993	-4.368	0.000	0.000
			26:COM13	34:CVOL3	22:COM9	22:COM9	-	-
	3230	-ve	2.334	0.000	0.000	1.329	0.063	85.355
			16:COM3	-	-	28:COM15	28:COM15	32:CVOL1
			-1.501	-26.605	-0.993	-4.368	-0.985	0.000
			26:COM13	34:CVOL3	22:COM9	22:COM9	22:COM9	-
8134	3516	+ve	0.369	0.000	0.043	0.002	0.000	6.249
			24:COM17	-	16:COM3	28:COM15	-	32:CVOL1
			-1.193	-4.565	0.000	-0.267	-0.048	0.000
			18:COM5	18:COM5	-	22:COM9	18:COM5	-
	3517	-ve	0.369	0.000	0.043	0.002	0.032	16.008
			24:COM17	-	16:COM3	28:COM15	20:COM7	32:CVOL1
			-1.193	-6.234	0.000	-0.267	0.000	0.000
			18:COM5	32:CVOL1	-	22:COM9	-	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
8135	3517	+ve	0.455	0.000	0.000	0.232	0.073	16.069
			24:COM1	-	-	24:COM1	16:COM3	32:CVOL1
			-2.025	-6.564	-0.085	-0.513	0.000	0.000
			18:COM5	18:COM5	18:COM5	18:COM5	-	-
	3264	-ve	0.455	0.000	0.000	0.232	0.000	28.604
			24:COM1	-	-	24:COM1	-	16:COM3
			-2.025	-8.165	-0.085	-0.513	-0.084	0.000
			18:COM5	18:COM5	18:COM5	18:COM5	18:COM5	-
8136	3516	+ve	0.580	1.323	0.040	0.042	0.000	0.273
			24:COM1	16:COM3	20:COM7	20:COM7	-	16:COM3
			-1.408	-0.283	0.000	-0.005	-0.027	-0.174
			18:COM5	26:COM1	-	30:COM1	32:CVOL1	26:COM1
	3514	-ve	0.580	0.000	0.040	0.042	0.023	1.116
			24:COM1	-	20:COM7	20:COM7	20:COM7	16:COM3
			-1.408	-2.069	0.000	-0.005	0.000	-0.183
			18:COM5	18:COM5	-	30:COM1	-	26:COM1
8137	3517	+ve	0.000	0.603	0.066	0.093	0.007	0.206
			-	24:COM11	20:COM7	20:COM7	28:COM1	24:COM1
			-4.507	-2.206	-0.013	-0.008	-0.043	-0.928
			18:COM5	18:COM5	30:COM1	30:COM1	22:COM9	18:COM5
	3515	-ve	0.000	0.000	0.066	0.093	0.039	3.186
			-	-	20:COM7	20:COM7	20:COM7	16:COM3
			-4.507	-4.372	-0.013	-0.008	-0.009	0.000
			18:COM5	18:COM5	30:COM1	30:COM1	30:COM1	-
8138	3518	+ve	1.273	0.000	0.194	8.612	0.723	0.202
			28:COM1	-	28:COM1	20:COM7	20:COM7	28:COM1
			-2.347	-14.923	-0.878	-1.811	-0.170	-3.533
			22:COM9	32:CVOL1	22:COM9	30:COM1	30:COM1	22:COM9
	3524	-ve	1.273	0.000	0.194	8.612	0.107	20.287
			28:COM1	-	28:COM1	20:COM7	28:COM1	32:CVOL1
			-2.347	-16.837	-0.878	-1.811	-0.528	0.000
			22:COM9	32:CVOL1	22:COM9	30:COM1	22:COM9	-
8139	3479	+ve	0.000	1.951	0.000	0.331	0.091	1.954
			-	35:CVOL4	-	34:CVOL3	32:CVOL1	20:COM7
			-5.998	0.000	-0.111	0.000	0.000	0.000
			22:COM9	-	32:CVOL1	-	-	-
	3523	-ve	0.000	0.000	0.000	0.331	0.000	2.458
			-	-	-	34:CVOL3	-	34:CVOL3
			-5.998	-2.111	-0.111	0.000	-0.090	0.000
			22:COM9	34:CVOL3	32:CVOL1	-	34:CVOL3	-
8140	3519	+ve	0.593	0.000	0.000	0.734	0.071	0.749
			16:COM3	-	-	20:COM7	20:COM7	20:COM7
			-0.568	-2.718	-0.061	-0.061	0.000	-0.084
			26:COM1	34:CVOL3	22:COM9	30:COM1	-	30:COM1
	3522	-ve	0.593	0.000	0.000	0.734	0.000	9.142
			16:COM3	-	-	20:COM7	-	34:CVOL3
			-0.568	-5.115	-0.061	-0.061	-0.067	0.000
			26:COM1	32:CVOL1	22:COM9	30:COM1	22:COM9	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
8141	3518	+ve	0.171	4.815	0.015	0.099	0.068	3.623
			28:COM15	32:CVOL1	28:COM15	28:COM15	20:COM7	16:COM3
			-0.278	0.000	-0.054	-0.946	-0.018	0.000
			22:COM9	-	22:COM9	22:COM9	30:COM17	-
	3519	-ve	0.171	0.000	0.015	0.099	0.020	0.453
			28:COM15	-	28:COM15	28:COM15	28:COM15	20:COM7
			-0.278	-2.718	-0.054	-0.946	-0.070	-0.031
			22:COM9	34:CVOL3	22:COM9	22:COM9	22:COM9	30:COM17
8143	3520	+ve	3.605	0.000	0.021	0.500	0.066	0.000
			20:COM7	-	28:COM15	28:COM15	20:COM7	-
			-2.811	-3.866	-0.035	-1.185	-0.044	-15.957
			30:COM17	22:COM9	22:COM9	22:COM9	30:COM17	34:CVOL3
	3518	-ve	3.605	0.000	0.021	0.500	0.033	11.952
			20:COM7	-	28:COM15	28:COM15	28:COM15	20:COM7
			-2.811	-10.108	-0.035	-1.185	-0.067	0.000
			30:COM17	32:CVOL1	22:COM9	22:COM9	22:COM9	-
8145	3271	+ve	0.000	6.223	0.027	1.205	0.002	1.938
			-	32:CVOL1	20:COM7	20:COM7	28:COM15	20:COM7
			-4.996	0.000	-0.003	0.000	-0.049	0.000
			34:CVOL3	-	30:COM17	-	22:COM9	-
	3523	-ve	0.000	2.817	0.027	1.205	0.024	0.000
			-	34:CVOL3	20:COM7	20:COM7	20:COM7	-
			-4.996	0.000	-0.003	0.000	-0.007	-10.295
			34:CVOL3	-	30:COM17	-	30:COM17	34:CVOL3
8146	3521	+ve	0.000	5.825	0.000	0.025	0.062	7.084
			-	20:COM7	-	28:COM15	20:COM7	20:COM7
			-9.375	0.000	-0.051	-0.235	0.000	0.000
			22:COM9	-	22:COM9	22:COM9	-	-
	3343	-ve	0.000	1.609	0.000	0.025	0.000	0.000
			-	20:COM7	-	28:COM15	-	-
			-9.375	-0.222	-0.051	-0.235	-0.061	-1.986
			22:COM9	30:COM17	22:COM9	22:COM9	22:COM9	18:COM5
8147	3524	+ve	0.152	4.417	0.000	0.012	0.073	4.888
			28:COM15	20:COM7	-	28:COM15	20:COM7	20:COM7
			-6.790	0.000	-0.060	-0.285	0.000	0.000
			22:COM9	-	22:COM9	22:COM9	-	-
	3522	-ve	0.152	0.552	0.000	0.012	0.000	0.117
			28:COM15	28:COM15	-	28:COM15	-	24:COM17
			-6.790	-1.194	-0.060	-0.285	-0.071	-0.753
			22:COM9	22:COM9	22:COM9	22:COM9	22:COM9	18:COM5
8148	3521	+ve	2.308	0.000	0.350	9.472	1.539	70.010
			20:COM7	-	28:COM15	20:COM7	20:COM7	32:CVOL1
			-0.099	-39.818	-1.188	-4.126	-0.359	0.000
			30:COM17	34:CVOL3	22:COM9	30:COM17	30:COM17	-
	3224	-ve	2.308	0.000	0.350	9.472	0.410	158.889
			20:COM7	-	28:COM15	20:COM7	28:COM15	34:CVOL3
			-0.099	-42.317	-1.188	-4.126	-1.046	0.000
			30:COM17	34:CVOL3	22:COM9	30:COM17	22:COM9	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
8149	3524	+ve	1.014	0.000	0.066	8.542	0.531	20.319
			28:COM15	-	28:COM15	20:COM7	20:COM7	32:CVOL1
			-2.036	-24.574	-0.632	-3.258	-0.101	0.000
			22:COM9	34:CVOL3	22:COM9	30:COM17	30:COM17	-
	3521	-ve	1.014	0.000	0.066	8.542	0.032	70.197
			28:COM15	-	28:COM15	20:COM7	28:COM15	32:CVOL1
			-2.036	-26.843	-0.632	-3.258	-0.716	0.000
			22:COM9	34:CVOL3	22:COM9	30:COM17	22:COM9	-
8150	3522	+ve	1.676	0.000	0.007	1.037	0.086	9.358
			28:COM15	-	28:COM15	20:COM7	20:COM7	34:CVOL3
			-1.965	-5.679	-0.082	-0.014	-0.012	0.000
			22:COM9	18:COM5	22:COM9	30:COM17	30:COM17	-
	3343	-ve	1.676	0.000	0.007	1.037	0.001	22.044
			28:COM15	-	28:COM15	20:COM7	28:COM15	34:CVOL3
			-1.965	-7.601	-0.082	-0.014	-0.075	0.000
			22:COM9	18:COM5	22:COM9	30:COM17	22:COM9	-
8152	3520	+ve	7.952	2.600	0.000	0.063	0.059	1.431
			28:COM15	34:CVOL3	-	28:COM15	34:CVOL3	20:COM7
			-7.415	0.000	-0.034	-0.342	0.000	-1.588
			22:COM9	-	34:CVOL3	22:COM9	-	30:COM17
	3524	-ve	7.952	0.000	0.000	0.063	0.001	4.639
			28:COM15	-	-	28:COM15	28:COM15	20:COM7
			-7.415	-4.484	-0.034	-0.342	-0.061	0.000
			22:COM9	35:CVOL4	34:CVOL3	22:COM9	22:COM9	-
8153	3523	+ve	0.082	5.706	0.000	0.000	0.048	5.307
			24:COM17	34:CVOL3	-	-	16:COM3	34:CVOL3
			-5.091	0.000	-0.013	-0.196	0.000	0.000
			18:COM5	-	34:CVOL3	34:CVOL3	-	-
	3520	-ve	0.082	0.000	0.000	0.000	0.000	5.709
			24:COM17	-	-	-	-	34:CVOL3
			-5.091	-5.827	-0.013	-0.196	-0.040	0.000
			18:COM5	34:CVOL3	34:CVOL3	34:CVOL3	34:CVOL3	-
8155	3527	+ve	3.855	0.000	0.317	1.813	1.150	63.468
			28:COM15	-	28:COM15	28:COM15	20:COM7	20:COM7
			-17.224	-46.627	-0.684	-27.575	-0.480	0.000
			22:COM9	22:COM9	22:COM9	22:COM9	30:COM17	-
	3211	-ve	3.855	0.000	0.317	1.813	0.395	169.474
			28:COM15	-	28:COM15	28:COM15	24:COM11	20:COM7
			-17.224	-49.179	-0.684	-27.575	-0.536	0.000
			22:COM9	22:COM9	22:COM9	22:COM9	18:COM5	-
8156	3526	+ve	2.414	0.000	0.414	0.000	4.109	4.054
			24:COM17	-	24:COM11	-	20:COM7	32:CVOL1
			-10.426	-18.587	-3.200	-5.997	0.000	0.000
			18:COM5	22:COM9	18:COM5	22:COM9	-	-
	5693	-ve	2.414	0.000	0.414	0.000	0.973	36.986
			24:COM17	-	24:COM11	-	24:COM11	20:COM7
			-10.426	-20.548	-3.200	-5.997	-1.368	0.000
			18:COM5	22:COM9	18:COM5	22:COM9	18:COM5	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
8164	3571	+ve	1.142	0.000	0.026	1.676	0.039	0.735
			20:COM7	-	28:COM15	16:COM3	20:COM7	28:COM15
			-0.560	-0.761	-0.040	-0.448	-0.023	-7.088
			30:COM17	22:COM9	22:COM9	26:COM13	30:COM17	22:COM9
	3444	-ve	1.142	0.000	0.026	1.676	0.026	1.899
			20:COM7	-	28:COM15	16:COM3	24:COM11	28:COM15
			-0.560	-2.517	-0.040	-0.448	-0.037	-5.036
			30:COM17	32:CVOL1	22:COM9	26:COM13	18:COM5	22:COM9
8167	3514	+ve	1.015	0.000	0.077	1.380	0.263	12.674
			16:COM3	-	28:COM15	20:COM7	20:COM7	32:CVOL1
			-0.907	-13.317	-0.413	-1.227	-0.093	0.000
			26:COM13	32:CVOL1	22:COM9	30:COM17	30:COM17	-
	3515	-ve	1.015	0.000	0.077	1.380	0.051	39.500
			16:COM3	-	28:COM15	20:COM7	28:COM15	32:CVOL1
			-0.907	-15.796	-0.413	-1.227	-0.501	0.000
			26:COM13	32:CVOL1	22:COM9	30:COM17	22:COM9	-
8191	3500	+ve	8.281	21.806	0.225	0.378	0.116	35.947
			20:COM7	34:CVOL3	16:COM3	24:COM17	24:COM11	34:CVOL3
			0.000	0.000	-0.103	-28.592	-0.258	0.000
			-	-	26:COM13	18:COM5	18:COM5	-
	3276	-ve	8.281	14.578	0.225	0.378	0.279	0.000
			20:COM7	34:CVOL3	16:COM3	24:COM17	16:COM3	-
			0.000	0.000	-0.103	-28.592	-0.136	-7.173
			-	-	26:COM13	18:COM5	26:COM13	18:COM5
8194	3228	+ve	2.978	40.266	1.216	7.302	1.960	145.388
			28:COM15	20:COM7	28:COM15	28:COM15	20:COM7	20:COM7
			-3.341	0.000	-1.700	-6.610	-1.381	0.000
			22:COM9	-	22:COM9	22:COM9	30:COM17	-
	3559	-ve	2.978	37.897	1.216	7.302	1.122	65.135
			28:COM15	20:COM7	28:COM15	28:COM15	28:COM15	20:COM7
			-3.341	0.000	-1.700	-6.610	-1.537	0.000
			22:COM9	-	22:COM9	22:COM9	22:COM9	-
8195	3548	+ve	0.148	5.452	0.047	0.772	0.000	4.551
			24:COM17	32:CVOL1	20:COM7	20:COM7	-	32:CVOL1
			-0.720	0.000	0.000	-0.549	-0.065	0.000
			18:COM5	-	-	30:COM17	22:COM9	-
	3547	-ve	0.148	0.000	0.047	0.772	0.057	0.338
			24:COM17	-	20:COM7	20:COM7	20:COM7	20:COM7
			-0.720	-2.171	0.000	-0.549	0.000	-0.213
			18:COM5	34:CVOL3	-	30:COM17	-	30:COM17
8198	3548	+ve	1.102	7.578	0.505	0.264	0.477	10.267
			24:COM17	20:COM7	20:COM7	28:COM15	28:COM15	20:COM7
			-6.355	0.000	-0.326	-3.020	-0.753	-4.449
			18:COM5	-	30:COM17	22:COM9	22:COM9	30:COM17
	3549	-ve	1.102	3.315	0.505	0.264	0.830	0.057
			24:COM17	20:COM7	20:COM7	28:COM15	20:COM7	28:COM15
			-6.355	-3.029	-0.326	-3.020	-0.543	-6.817
			18:COM5	30:COM17	30:COM17	22:COM9	30:COM17	22:COM9

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
8199	3551	+ve	3.330	4.750	0.005	0.049	0.012	4.533
			24:COM1	34:CVOL3	20:COM7	28:COM1	20:COM7	20:COM7
			-4.499	0.000	-0.005	-0.372	-0.010	0.000
			18:COM5	-	30:COM1	22:COM9	30:COM1	-
	3549	-ve	3.330	0.000	0.005	0.049	0.012	1.145
			24:COM1	-	20:COM7	28:COM1	20:COM7	20:COM7
			-4.499	-3.147	-0.005	-0.372	-0.010	-1.149
			18:COM5	34:CVOL3	30:COM1	22:COM9	30:COM1	30:COM1
8200	3551	+ve	7.436	0.739	0.196	1.204	0.233	4.174
			24:COM1	28:COM1	28:COM1	24:COM1	20:COM7	28:COM1
			-12.094	-10.587	-0.254	-1.376	-0.176	-11.634
			18:COM5	22:COM9	22:COM9	18:COM5	30:COM1	22:COM9
	3555	-ve	7.436	0.000	0.196	1.204	0.196	24.948
			24:COM1	-	28:COM1	24:COM1	28:COM1	20:COM7
			-12.094	-13.166	-0.254	-1.376	-0.250	-9.474
			18:COM5	22:COM9	22:COM9	18:COM5	22:COM9	30:COM1
8202	3365	+ve	0.611	4.660	0.071	0.389	0.008	7.858
			24:COM1	32:CVOL1	20:COM7	28:COM1	28:COM1	32:CVOL1
			-0.831	0.000	-0.002	-0.583	-0.082	0.000
			18:COM5	-	30:COM1	22:COM9	22:COM9	-
	3547	-ve	0.611	2.171	0.071	0.389	0.083	0.609
			24:COM1	34:CVOL3	20:COM7	28:COM1	20:COM7	20:COM7
			-0.831	0.000	-0.002	-0.583	0.000	-0.442
			18:COM5	-	30:COM1	22:COM9	-	30:COM1
8206	3555	+ve	4.932	11.034	0.143	0.009	0.087	20.143
			28:COM1	16:COM3	16:COM3	28:COM1	28:COM1	20:COM7
			-7.939	-3.343	-0.106	-1.889	-0.095	-6.753
			22:COM9	26:COM1	26:COM1	22:COM9	22:COM9	30:COM1
	3556	-ve	4.932	8.713	0.143	0.009	0.184	8.178
			28:COM1	16:COM3	16:COM3	28:COM1	16:COM3	20:COM7
			-7.939	-5.084	-0.106	-1.889	-0.128	-4.442
			22:COM9	26:COM1	26:COM1	22:COM9	26:COM1	30:COM1
8207	3556	+ve	1.243	5.997	0.161	0.966	0.155	7.956
			24:COM1	24:COM1	16:COM3	16:COM3	24:COM1	20:COM7
			-4.443	-7.308	-0.112	-0.379	-0.219	-4.458
			18:COM5	18:COM5	26:COM1	26:COM1	18:COM5	30:COM1
	5545	-ve	1.243	3.937	0.161	0.966	0.109	21.002
			24:COM1	24:COM1	16:COM3	16:COM3	16:COM3	16:COM3
			-4.443	-10.054	-0.112	-0.379	-0.073	-10.012
			18:COM5	18:COM5	26:COM1	26:COM1	26:COM1	26:COM1
8209	5484	+ve	30.229	4.591	0.710	10.818	0.539	3.910
			28:COM1	24:COM1	16:COM3	16:COM3	24:COM1	24:COM1
			-57.748	-25.871	-0.440	-4.312	-0.853	-17.523
			22:COM9	18:COM5	26:COM1	26:COM1	18:COM5	18:COM5
	5546	-ve	30.229	1.301	0.710	10.818	0.467	33.862
			28:COM1	24:COM1	16:COM3	16:COM3	16:COM3	16:COM3
			-57.748	-30.978	-0.440	-4.312	-0.296	-1.614
			22:COM9	18:COM5	26:COM1	26:COM1	26:COM1	26:COM1

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
8210	5681	+ve	12.687	6.364	0.005	0.064	0.039	7.242
			20:COM7	35:CVOL4	28:COM15	28:COM15	20:COM7	16:COM3
			-8.835	0.000	-0.011	-0.338	-0.016	0.000
			30:COM17	-	22:COM9	22:COM9	30:COM17	-
	3559	-ve	12.687	0.000	0.005	0.064	0.016	8.581
			20:COM7	-	28:COM15	28:COM15	28:COM15	34:CVOL3
			-8.835	-7.215	-0.011	-0.338	-0.039	0.000
			30:COM17	34:CVOL3	22:COM9	22:COM9	22:COM9	-
8212	3558	+ve	1.967	13.585	1.903	7.581	1.378	16.475
			20:COM7	32:CVOL1	20:COM7	20:COM7	20:COM7	32:CVOL1
			-1.345	0.000	-1.767	-6.089	-1.282	0.000
			30:COM17	-	30:COM17	30:COM17	30:COM17	-
	3548	-ve	1.967	11.812	1.903	7.581	1.474	0.644
			20:COM7	20:COM7	20:COM7	20:COM7	20:COM7	28:COM15
			-1.345	0.000	-1.767	-6.089	-1.181	-3.268
			30:COM17	-	30:COM17	30:COM17	30:COM17	22:COM9
8213	3559	+ve	2.329	25.837	0.540	8.428	0.197	65.282
			20:COM7	20:COM7	20:COM7	20:COM7	28:COM15	20:COM7
			-2.441	0.000	-0.073	-6.333	-0.538	0.000
			30:COM17	-	30:COM17	30:COM17	22:COM9	-
	3558	-ve	2.329	23.469	0.540	8.428	0.588	15.973
			20:COM7	20:COM7	20:COM7	20:COM7	20:COM7	32:CVOL1
			-2.441	0.000	-0.073	-6.333	0.000	0.000
			30:COM17	-	30:COM17	30:COM17	-	-
8216	3559	+ve	0.000	5.941	0.039	0.156	0.030	7.227
			-	20:COM7	20:COM7	20:COM7	28:COM15	20:COM7
			-10.096	0.000	-0.025	-0.095	-0.047	0.000
			22:COM9	-	30:COM17	30:COM17	22:COM9	-
	3364	-ve	0.000	1.715	0.039	0.156	0.048	0.207
			-	20:COM7	20:COM7	20:COM7	20:COM7	28:COM15
			-10.096	-0.772	-0.025	-0.095	-0.031	-2.113
			22:COM9	30:COM17	30:COM17	30:COM17	30:COM17	22:COM9
8218	3558	+ve	2.584	4.483	0.058	0.233	0.034	4.971
			28:COM15	20:COM7	20:COM7	20:COM7	28:COM15	20:COM7
			-6.784	0.000	-0.027	-0.132	-0.072	-0.062
			22:COM9	-	30:COM17	30:COM17	22:COM9	30:COM17
	3365	-ve	2.584	0.696	0.058	0.233	0.070	0.403
			28:COM15	28:COM15	20:COM7	20:COM7	20:COM7	28:COM15
			-6.784	-1.827	-0.027	-0.132	-0.032	-0.810
			22:COM9	22:COM9	30:COM17	30:COM17	30:COM17	22:COM9
8219	5682	+ve	18.522	1.938	0.010	0.020	0.115	0.000
			20:COM7	35:CVOL4	28:COM15	28:COM15	20:COM7	-
			-3.578	0.000	-0.059	-0.660	-0.018	-4.515
			30:COM17	-	22:COM9	22:COM9	30:COM17	18:COM5
	3558	-ve	18.522	0.000	0.010	0.020	0.022	6.127
			20:COM7	-	28:COM15	28:COM15	28:COM15	20:COM7
			-3.578	-6.098	-0.059	-0.660	-0.117	0.000
			30:COM17	34:CVOL3	22:COM9	22:COM9	22:COM9	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
8560	3565	+ve	6.625	0.000	0.036	0.417	0.141	14.703
			16:COM3	-	24:COM11	16:COM3	16:COM3	16:COM3
			-2.552	-5.769	-0.121	0.000	-0.036	-12.318
			26:COM13	34:CVOL3	18:COM5	-	26:COM13	26:COM13
	3564	-ve	6.625	0.000	0.036	0.417	0.046	27.191
			16:COM3	-	24:COM11	16:COM3	24:COM11	16:COM3
			-2.552	-10.406	-0.121	0.000	-0.135	-1.175
			26:COM13	32:CVOL1	18:COM5	-	18:COM5	26:COM13
8561	3566	+ve	0.400	3.833	0.011	1.003	0.043	0.000
			24:COM11	24:COM11	24:COM11	20:COM7	16:COM3	-
			-3.024	-6.212	-0.028	0.000	-0.021	-14.125
			18:COM5	18:COM5	18:COM5	-	26:COM13	22:COM9
	3565	-ve	0.400	0.349	0.011	1.003	0.017	15.467
			24:COM11	24:COM11	24:COM11	20:COM7	24:COM11	16:COM3
			-3.024	-10.857	-0.028	0.000	-0.053	-12.081
			18:COM5	18:COM5	18:COM5	-	18:COM5	26:COM13
8562	3564	+ve	1.169	7.645	0.002	0.638	0.020	19.809
			16:COM3	32:CVOL1	28:COM15	28:COM15	20:COM7	32:CVOL1
			-0.004	0.000	-0.010	-1.640	-0.002	0.000
			26:COM13	-	22:COM9	22:COM9	30:COM17	-
	3444	-ve	1.169	4.454	0.002	0.638	0.011	3.109
			16:COM3	20:COM7	28:COM15	28:COM15	28:COM15	28:COM15
			-0.004	0.000	-0.010	-1.640	-0.025	-9.525
			26:COM13	-	22:COM9	22:COM9	22:COM9	22:COM9
8563	3513	+ve	0.000	4.803	0.007	0.000	0.000	0.556
			-	32:CVOL1	20:COM7	-	-	28:COM15
			-2.071	0.000	-0.001	-0.453	-0.020	-1.095
			22:COM9	-	30:COM17	18:COM5	22:COM9	22:COM9
	3568	-ve	0.000	0.000	0.007	0.000	0.008	0.521
			-	-	20:COM7	-	20:COM7	24:COM11
			-2.071	-3.825	-0.001	-0.453	-0.005	-3.265
			22:COM9	32:CVOL1	30:COM17	18:COM5	30:COM17	18:COM5
8564	3567	+ve	1.382	3.288	0.049	0.000	0.037	11.540
			28:COM15	32:CVOL1	16:COM3	-	16:COM3	32:CVOL1
			-4.679	0.000	-0.029	-0.775	-0.007	0.000
			22:COM9	-	26:COM13	18:COM5	26:COM13	-
	3569	-ve	1.382	1.269	0.049	0.000	0.068	9.096
			28:COM15	24:COM11	16:COM3	-	16:COM3	34:CVOL3
			-4.679	-1.120	-0.029	-0.775	-0.011	0.000
			22:COM9	18:COM5	26:COM13	18:COM5	26:COM13	-
8565	3568	+ve	0.845	0.000	0.002	0.000	0.025	0.184
			28:COM15	-	28:COM15	-	20:COM7	24:COM11
			-2.779	-6.271	-0.019	-1.000	-0.005	-3.921
			22:COM9	34:CVOL3	22:COM9	32:CVOL1	30:COM17	18:COM5
	3567	-ve	0.845	0.000	0.002	0.000	0.000	21.881
			28:COM15	-	28:COM15	-	-	32:CVOL1
			-2.779	-11.897	-0.019	-1.000	-0.028	0.000
			22:COM9	32:CVOL1	22:COM9	32:CVOL1	22:COM9	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
8566	3569	+ve	0.000	2.265	0.072	0.000	0.000	9.116
			-	20:COM7	20:COM7	-	-	20:COM7
			-6.240	-0.319	0.000	-1.433	-0.102	0.000
			22:COM9	30:COM17	-	18:COM5	22:COM9	-
	3283	-ve	0.000	0.881	0.072	0.000	0.135	9.068
			-	28:COM15	20:COM7	-	20:COM7	16:COM3
			-6.240	-1.586	0.000	-1.433	0.000	0.000
			22:COM9	22:COM9	-	18:COM5	-	-
8567	3515	+ve	1.286	5.903	0.000	0.000	0.013	5.467
			16:COM3	35:CVOL4	-	-	16:COM3	20:COM7
			-0.570	0.000	-0.004	-0.111	0.000	0.000
			26:COM13	-	18:COM5	18:COM5	-	-
	3570	-ve	1.286	0.000	0.000	0.000	0.000	6.278
			16:COM3	-	-	-	-	20:COM7
			-0.570	-6.134	-0.004	-0.111	-0.013	0.000
			26:COM13	34:CVOL3	18:COM5	18:COM5	18:COM5	-
8568	3514	+ve	6.396	4.116	0.000	0.000	0.013	2.121
			34:CVOL3	34:CVOL3	-	-	16:COM3	20:COM7
			0.000	0.000	-0.008	-0.070	0.000	0.000
			-	-	18:COM5	18:COM5	-	-
	3568	-ve	6.396	0.000	0.000	0.000	0.000	0.544
			34:CVOL3	-	-	-	-	35:CVOL4
			0.000	-3.252	-0.008	-0.070	-0.015	-0.381
			-	35:CVOL4	18:COM5	18:COM5	18:COM5	30:COM17
8569	3567	+ve	1.070	0.000	1.145	9.121	0.376	4.882
			20:COM7	-	20:COM7	32:CVOL1	16:COM3	32:CVOL1
			-0.114	-15.185	-0.301	0.000	-0.002	0.000
			30:COM17	32:CVOL1	30:COM17	-	26:COM13	-
	3570	-ve	1.070	0.000	1.145	9.121	0.912	14.733
			20:COM7	-	20:COM7	32:CVOL1	20:COM7	32:CVOL1
			-0.114	-16.198	-0.301	0.000	-0.008	0.000
			30:COM17	32:CVOL1	30:COM17	-	30:COM17	-
8570	3570	+ve	0.000	4.182	0.000	0.000	0.138	2.640
			-	34:CVOL3	-	-	34:CVOL3	20:COM7
			-4.932	0.000	-0.208	-0.269	0.000	0.000
			18:COM5	-	34:CVOL3	34:CVOL3	-	-
	3569	-ve	0.000	1.658	0.000	0.000	0.000	0.000
			-	32:CVOL1	-	-	-	-
			-4.932	0.000	-0.208	-0.269	-0.124	-1.109
			18:COM5	-	34:CVOL3	34:CVOL3	34:CVOL3	18:COM5
8571	3570	+ve	3.819	0.000	0.000	11.251	1.433	14.545
			20:COM7	-	-	34:CVOL3	20:COM7	32:CVOL1
			0.000	-25.067	-1.660	0.000	0.000	0.000
			-	34:CVOL3	22:COM9	-	-	-
	3221	-ve	3.819	0.000	0.000	11.251	0.000	61.876
			20:COM7	-	-	34:CVOL3	-	32:CVOL1
			0.000	-27.781	-1.660	0.000	-1.559	0.000
			-	32:CVOL1	22:COM9	-	22:COM9	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
8577	3566	+ve	4.902	4.255	0.006	0.144	0.008	2.793
			24:COM1	16:COM3	28:COM1	20:COM7	20:COM7	16:COM3
			-11.658	0.000	-0.003	-0.065	-0.014	-0.993
			18:COM5	-	22:COM9	30:COM1	30:COM1	26:COM1
	3573	-ve	4.902	0.000	0.006	0.144	0.015	10.998
			24:COM1	-	28:COM1	20:COM7	28:COM1	16:COM3
			-11.658	-6.520	-0.003	-0.065	-0.009	-0.277
			18:COM5	18:COM5	22:COM9	30:COM1	22:COM9	26:COM1
8584	3565	+ve	8.095	4.057	0.083	0.228	0.135	1.659
			24:COM1	24:COM11	24:COM11	24:COM1	16:COM3	24:COM1
			-25.417	-6.949	-0.138	-0.331	-0.079	-3.130
			18:COM5	18:COM5	18:COM5	18:COM5	26:COM1	18:COM5
	3572	-ve	8.095	2.147	0.083	0.228	0.080	13.313
			24:COM1	24:COM11	24:COM11	24:COM1	24:COM11	16:COM3
			-25.417	-10.259	-0.138	-0.331	-0.129	-4.269
			18:COM5	18:COM5	18:COM5	18:COM5	18:COM5	26:COM1
8585	3572	+ve	2.442	20.091	1.128	10.430	1.130	15.602
			24:COM1	32:CVOL1	24:COM11	16:COM3	16:COM3	16:COM3
			-5.415	0.000	-1.496	-9.066	-1.063	-6.102
			18:COM5	-	18:COM5	26:COM1	26:COM1	26:COM1
	3564	-ve	2.442	18.051	1.128	10.430	0.406	0.000
			24:COM1	32:CVOL1	24:COM11	16:COM3	28:COM1	-
			-5.415	0.000	-1.496	-9.066	-0.805	-19.639
			18:COM5	-	18:COM5	26:COM1	22:COM9	18:COM5
8586	3573	+ve	3.846	31.169	0.656	0.418	0.484	44.454
			20:COM7	24:COM11	16:COM3	24:COM1	24:COM11	28:COM1
			-1.663	-41.933	-0.572	-4.174	-0.519	-97.136
			30:COM1	18:COM5	26:COM1	18:COM5	18:COM5	22:COM9
	3572	-ve	3.846	29.207	0.656	0.418	0.727	120.302
			20:COM7	24:COM11	16:COM3	24:COM1	16:COM3	24:COM1
			-1.663	-44.549	-0.572	-4.174	-0.605	-148.312
			30:COM1	18:COM5	26:COM1	18:COM5	26:COM1	18:COM5
8587	3573	+ve	0.081	7.856	0.003	0.000	0.013	14.445
			24:COM1	16:COM3	28:COM1	-	20:COM7	16:COM3
			-0.391	0.000	-0.007	-0.130	-0.005	0.000
			18:COM5	-	22:COM9	34:CVOL3	30:COM1	-
	3571	-ve	0.081	0.342	0.003	0.000	0.006	1.827
			24:COM1	24:COM11	28:COM1	-	28:COM1	16:COM3
			-0.391	-3.890	-0.007	-0.130	-0.015	-0.892
			18:COM5	18:COM5	22:COM9	34:CVOL3	22:COM9	26:COM1
8588	3572	+ve	0.920	8.312	0.002	0.395	0.010	17.788
			16:COM3	34:CVOL3	28:COM1	24:COM1	20:COM7	34:CVOL3
			-0.680	0.000	-0.005	-0.725	-0.004	0.000
			26:COM1	-	22:COM9	18:COM5	30:COM1	-
	3444	-ve	0.920	0.199	0.002	0.395	0.006	6.993
			16:COM3	28:COM1	28:COM1	24:COM1	28:COM1	20:COM7
			-0.680	-2.941	-0.005	-0.725	-0.012	-2.363
			26:COM1	22:COM9	22:COM9	18:COM5	22:COM9	30:COM1

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
8598	3597	+ve	3.024	42.726	0.843	0.000	0.390	140.565
			16:COM3	16:COM3	20:COM7	-	28:COM15	16:COM3
			-2.334	0.000	-0.449	-6.722	-0.738	-17.898
			26:COM13	-	30:COM17	22:COM9	22:COM9	26:COM13
	3748	-ve	3.024	40.477	0.843	0.000	1.018	59.463
			16:COM3	16:COM3	20:COM7	-	20:COM7	16:COM3
			-2.334	0.000	-0.449	-6.722	-0.598	-31.085
			26:COM13	-	30:COM17	22:COM9	30:COM17	26:COM13
8599	3598	+ve	12.613	44.744	1.719	0.793	0.676	137.669
			28:COM15	16:COM3	20:COM7	24:COM17	28:COM15	16:COM3
			-21.553	0.000	-0.592	-6.180	-1.861	-14.975
			22:COM9	-	30:COM17	18:COM5	22:COM9	26:COM13
	3753	-ve	12.613	42.495	1.719	0.793	1.493	52.630
			28:COM15	16:COM3	20:COM7	24:COM17	20:COM7	16:COM3
			-21.553	0.000	-0.592	-6.180	-0.482	-29.987
			22:COM9	-	30:COM17	18:COM5	30:COM17	26:COM13
8600	3599	+ve	18.377	44.462	0.861	0.404	0.460	136.688
			28:COM15	16:COM3	20:COM7	24:COM17	24:COM11	16:COM3
			-34.896	0.000	-0.354	-5.938	-0.895	-14.621
			22:COM9	-	30:COM17	18:COM5	18:COM5	26:COM13
	3758	-ve	18.377	42.213	0.861	0.404	0.866	52.203
			28:COM15	16:COM3	20:COM7	24:COM17	20:COM7	16:COM3
			-34.896	0.000	-0.354	-5.938	-0.313	-29.722
			22:COM9	-	30:COM17	18:COM5	30:COM17	26:COM13
8601	3600	+ve	17.454	44.176	1.274	0.384	1.349	136.334
			28:COM15	16:COM3	20:COM7	24:COM17	28:COM15	16:COM3
			-29.880	0.000	-1.149	-7.196	-1.460	-22.424
			22:COM9	-	30:COM17	18:COM5	22:COM9	26:COM13
	3763	-ve	17.454	41.927	1.274	0.384	1.028	52.390
			28:COM15	16:COM3	20:COM7	24:COM17	20:COM7	16:COM3
			-29.880	0.000	-1.149	-7.196	-0.895	-33.443
			22:COM9	-	30:COM17	18:COM5	30:COM17	26:COM13
8602	3584	+ve	25.542	57.760	1.650	15.140	1.128	147.691
			28:COM15	20:COM7	20:COM7	28:COM15	28:COM15	16:COM3
			-43.250	0.000	-0.694	-25.246	-2.006	-11.450
			22:COM9	-	30:COM17	22:COM9	22:COM9	26:COM13
	3676	-ve	25.542	55.511	1.650	15.140	1.250	48.182
			28:COM15	20:COM7	20:COM7	28:COM15	20:COM7	16:COM3
			-43.250	0.000	-0.694	-25.246	-0.265	-42.261
			22:COM9	-	30:COM17	22:COM9	30:COM17	26:COM13
8603	3585	+ve	12.210	38.038	1.039	11.260	1.221	119.166
			28:COM15	16:COM3	28:COM15	20:COM7	20:COM7	16:COM3
			-18.874	0.000	-1.090	0.000	-1.153	-25.637
			22:COM9	-	22:COM9	-	30:COM17	26:COM13
	3671	-ve	12.210	35.789	1.039	11.260	0.876	47.277
			28:COM15	16:COM3	28:COM15	20:COM7	28:COM15	16:COM3
			-18.874	0.000	-1.090	0.000	-0.906	-29.146
			22:COM9	-	22:COM9	-	22:COM9	26:COM13

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
8604	3586	+ve	10.106	37.731	0.400	11.471	0.813	117.300
			28:COM15	16:COM3	28:COM15	20:COM7	20:COM7	16:COM3
			-14.984	0.000	-0.750	0.000	-0.413	-25.588
			22:COM9	-	22:COM9	-	30:COM17	26:COM13
	3681	-ve	10.106	35.482	0.400	11.471	0.397	45.962
			28:COM15	16:COM3	28:COM15	20:COM7	28:COM15	16:COM3
			-14.984	0.000	-0.750	0.000	-0.680	-29.590
			22:COM9	-	22:COM9	-	22:COM9	26:COM13
8605	3587	+ve	18.405	39.645	0.462	14.173	1.604	127.757
			24:COM17	16:COM3	28:COM15	20:COM7	20:COM7	16:COM3
			-31.332	0.000	-1.337	-2.487	-0.593	-28.487
			18:COM5	-	22:COM9	30:COM17	30:COM17	26:COM13
	3686	-ve	18.405	37.396	0.462	14.173	0.314	52.661
			24:COM17	16:COM3	28:COM15	20:COM7	28:COM15	16:COM3
			-31.332	0.000	-1.337	-2.487	-1.009	-32.806
			18:COM5	-	22:COM9	30:COM17	22:COM9	26:COM13
8606	3584	+ve	7.828	260.209	3.838	24.875	1.291	237.084
			28:COM15	20:COM7	20:COM7	28:COM15	28:COM15	20:COM7
			-40.496	-236.305	-2.205	-31.416	-2.341	-211.325
			22:COM9	30:COM17	30:COM17	22:COM9	22:COM9	30:COM17
	3620	-ve	7.828	255.569	3.838	24.875	3.831	169.268
			28:COM15	20:COM7	20:COM7	28:COM15	20:COM7	28:COM15
			-40.496	-239.305	-2.205	-31.416	-2.268	-175.643
			22:COM9	30:COM17	30:COM17	22:COM9	30:COM17	22:COM9
8607	3585	+ve	7.728	61.037	1.003	13.322	0.686	44.096
			28:COM15	28:COM15	16:COM3	16:COM3	24:COM11	28:COM15
			-42.528	-63.819	-0.916	-11.929	-0.758	-41.612
			22:COM9	22:COM9	26:COM13	26:COM13	18:COM5	22:COM9
	3621	-ve	7.728	58.314	1.003	13.322	0.850	63.978
			28:COM15	28:COM15	16:COM3	16:COM3	16:COM3	20:COM7
			-42.528	-68.090	-0.916	-11.929	-0.783	-51.447
			22:COM9	22:COM9	26:COM13	26:COM13	26:COM13	30:COM17
8608	3586	+ve	0.000	60.960	2.079	14.011	0.051	44.275
			-	28:COM15	16:COM3	16:COM3	24:COM11	20:COM7
			-50.564	-57.141	0.000	-10.716	-1.559	-34.781
			22:COM9	22:COM9	-	26:COM13	18:COM5	30:COM17
	3622	-ve	0.000	58.237	2.079	14.011	1.773	60.772
			-	28:COM15	16:COM3	16:COM3	16:COM3	20:COM7
			-50.564	-61.412	0.000	-10.716	0.000	-51.793
			22:COM9	22:COM9	-	26:COM13	-	30:COM17
8609	3587	+ve	1.488	67.494	1.865	14.674	1.086	48.531
			28:COM15	28:COM15	16:COM3	16:COM3	24:COM11	28:COM15
			-45.021	-68.678	-1.434	-11.570	-1.437	-43.921
			22:COM9	22:COM9	26:COM13	26:COM13	18:COM5	22:COM9
	3623	-ve	1.488	64.771	1.865	14.674	1.548	69.409
			28:COM15	28:COM15	16:COM3	16:COM3	16:COM3	20:COM7
			-45.021	-72.949	-1.434	-11.570	-1.209	-57.309
			22:COM9	22:COM9	26:COM13	26:COM13	26:COM13	30:COM17

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
8610	3588	+ve	16.912	281.800	0.727	27.027	3.524	259.669
			28:COM15	20:COM7	24:COM11	24:COM11	16:COM3	20:COM7
			-46.313	-257.977	-4.158	-27.422	-1.215	-231.274
			22:COM9	30:COM17	18:COM5	18:COM5	26:COM13	30:COM17
	3624	-ve	16.912	277.160	0.727	27.027	0.000	184.027
			28:COM15	20:COM7	24:COM11	24:COM11	-	28:COM15
			-46.313	-260.977	-4.158	-27.422	-3.171	-187.635
			22:COM9	30:COM17	18:COM5	18:COM5	18:COM5	22:COM9
8611	3606	+ve	2.391	39.356	4.904	0.000	0.000	48.024
			28:COM15	20:COM7	34:CVOL3	-	-	20:COM7
			-13.461	0.000	0.000	-29.966	-5.604	0.000
			22:COM9	-	-	32:CVOL1	34:CVOL3	-
	3608	-ve	2.391	33.701	4.904	0.000	3.959	0.000
			28:COM15	20:COM7	34:CVOL3	-	34:CVOL3	-
			-13.461	0.000	0.000	-29.966	0.000	-23.319
			22:COM9	-	-	32:CVOL1	-	22:COM9
8612	3576	+ve	65.766	125.844	0.930	1.097	4.699	329.768
			20:COM7	20:COM7	28:COM15	28:COM15	20:COM7	20:COM7
			-62.469	-107.329	-2.371	-18.101	-0.300	-323.317
			30:COM17	30:COM17	22:COM9	22:COM9	30:COM17	30:COM17
	3655	-ve	65.766	117.551	0.930	1.097	2.290	47.964
			20:COM7	20:COM7	28:COM15	28:COM15	16:COM3	28:COM15
			-62.469	-112.844	-2.371	-18.101	-1.276	-68.798
			30:COM17	30:COM17	22:COM9	22:COM9	26:COM13	22:COM9
8613	3602	+ve	0.524	79.444	0.557	10.281	0.476	74.208
			28:COM15	20:COM7	28:COM15	20:COM7	16:COM3	20:COM7
			-26.511	-12.512	-0.598	-7.369	-0.510	-1.655
			22:COM9	30:COM17	22:COM9	30:COM17	26:COM13	30:COM17
	3609	-ve	0.524	74.239	0.557	10.281	0.642	25.995
			28:COM15	20:COM7	28:COM15	20:COM7	28:COM15	28:COM15
			-26.511	-15.831	-0.598	-7.369	-0.757	-75.647
			22:COM9	30:COM17	22:COM9	30:COM17	22:COM9	22:COM9
8614	3603	+ve	8.314	50.479	0.853	4.830	0.316	41.774
			28:COM15	20:COM7	16:COM3	16:COM3	28:COM15	20:COM7
			-37.806	-30.382	-0.150	-5.439	-0.965	-23.967
			22:COM9	30:COM17	26:COM13	26:COM13	22:COM9	30:COM17
	3610	-ve	8.314	46.457	0.853	4.830	0.801	37.885
			28:COM15	20:COM7	16:COM3	16:COM3	34:CVOL3	28:COM15
			-37.806	-33.048	-0.150	-5.439	-0.047	-52.745
			22:COM9	30:COM17	26:COM13	26:COM13	26:COM13	22:COM9
8615	3604	+ve	2.560	45.265	0.346	11.271	0.287	37.571
			28:COM15	20:COM7	20:COM7	16:COM3	28:COM15	20:COM7
			-42.864	-33.652	-0.259	-9.272	-0.374	-25.915
			22:COM9	30:COM17	30:COM17	26:COM13	22:COM9	30:COM17
	3611	-ve	2.560	41.181	0.346	11.271	0.325	43.954
			28:COM15	28:COM15	20:COM7	16:COM3	16:COM3	20:COM7
			-42.864	-38.091	-0.259	-9.272	-0.243	-46.632
			22:COM9	22:COM9	30:COM17	26:COM13	26:COM13	30:COM17

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
8616	3605	+ve	9.356	75.250	0.632	8.621	0.671	63.347
			28:COM15	20:COM7	24:COM11	24:COM11	16:COM3	20:COM7
			-42.684	-46.014	-0.748	-9.520	-0.543	-35.781
			22:COM9	30:COM17	18:COM5	18:COM5	26:COM13	30:COM17
	3612	-ve	9.356	70.045	0.632	8.621	0.690	57.185
			28:COM15	20:COM7	24:COM11	24:COM11	24:COM11	28:COM15
			-42.684	-49.333	-0.748	-9.520	-0.790	-78.318
			22:COM9	30:COM17	18:COM5	18:COM5	18:COM5	22:COM9
8617	3589	+ve	28.376	133.476	11.424	0.000	0.940	73.847
			28:COM15	20:COM7	20:COM7	-	28:COM15	20:COM7
			-38.420	-130.394	-1.507	-35.850	-12.933	-70.801
			22:COM9	30:COM17	30:COM17	22:COM9	22:COM9	30:COM17
	3576	-ve	28.376	128.512	11.424	0.000	7.672	168.589
			28:COM15	28:COM15	20:COM7	-	20:COM7	20:COM7
			-38.420	-135.986	-1.507	-35.850	-1.851	-161.599
			22:COM9	22:COM9	30:COM17	22:COM9	30:COM17	30:COM17
8618	3590	+ve	0.000	0.000	2.216	16.560	2.474	1.556
			-	-	28:COM15	20:COM7	20:COM7	28:COM15
			-24.357	-44.446	-2.455	-12.367	-2.113	-31.584
			18:COM5	22:COM9	22:COM9	30:COM17	30:COM17	22:COM9
	3577	-ve	0.000	0.000	2.216	16.560	1.873	52.883
			-	-	28:COM15	20:COM7	28:COM15	20:COM7
			-24.357	-49.543	-2.455	-12.367	-1.940	0.000
			18:COM5	22:COM9	22:COM9	30:COM17	22:COM9	-
8619	3591	+ve	0.000	0.000	0.219	4.793	0.010	0.000
			-	-	20:COM7	16:COM3	28:COM15	-
			-33.527	-63.223	-0.076	-4.454	-0.219	-45.886
			22:COM9	22:COM9	30:COM17	26:COM13	22:COM9	22:COM9
	3578	-ve	0.000	0.000	0.219	4.793	0.192	72.261
			-	-	20:COM7	16:COM3	16:COM3	20:COM7
			-33.527	-68.320	-0.076	-4.454	-0.144	0.000
			22:COM9	22:COM9	30:COM17	26:COM13	26:COM13	-
8620	3592	+ve	9.143	83.424	4.935	16.169	4.236	55.827
			28:COM15	28:COM15	24:COM11	24:COM11	16:COM3	28:COM15
			-52.710	-102.971	-5.357	-22.664	-3.929	-68.829
			22:COM9	22:COM9	18:COM5	18:COM5	26:COM13	22:COM9
	3579	-ve	9.143	80.140	4.935	16.169	4.937	120.735
			28:COM15	28:COM15	24:COM11	24:COM11	24:COM11	20:COM7
			-52.710	-108.068	-5.357	-22.664	-5.390	-91.102
			22:COM9	22:COM9	18:COM5	18:COM5	18:COM5	30:COM17
8621	3607	+ve	9.993	7.117	0.967	10.037	0.814	6.223
			28:COM15	20:COM7	20:COM7	24:COM11	28:COM15	16:COM3
			-22.054	0.000	-0.759	-13.625	-1.140	0.000
			22:COM9	-	30:COM17	18:COM5	22:COM9	-
	3613	-ve	9.993	2.379	0.967	10.037	0.747	4.259
			28:COM15	28:COM15	20:COM7	24:COM11	20:COM7	20:COM7
			-22.054	-2.674	-0.759	-13.625	-0.666	-3.583
			22:COM9	22:COM9	30:COM17	18:COM5	30:COM17	30:COM17

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
8622	3593	+ve	13.996	0.000	7.724	8.620	4.848	1.101
			28:COM15	-	16:COM3	16:COM3	24:COM11	28:COM15
			-28.527	-33.799	-5.495	-1.821	-6.997	-20.415
			22:COM9	22:COM9	26:COM13	26:COM13	18:COM5	22:COM9
	3580	-ve	13.996	0.000	7.724	8.620	6.895	44.931
			28:COM15	-	16:COM3	16:COM3	16:COM3	20:COM7
			-28.527	-38.895	-5.495	-1.821	-5.042	0.000
			22:COM9	22:COM9	26:COM13	26:COM13	26:COM13	-
8623	3590	+ve	17.466	55.306	0.101	4.926	1.944	163.269
			20:COM7	20:COM7	24:COM11	20:COM7	20:COM7	20:COM7
			-10.940	-2.563	-1.995	-2.640	-0.021	-42.417
			30:COM17	30:COM17	18:COM5	30:COM17	30:COM17	30:COM17
	3712	-ve	17.466	52.710	0.101	4.926	0.332	62.973
			20:COM7	20:COM7	24:COM11	20:COM7	24:COM11	16:COM3
			-10.940	-4.510	-1.995	-2.640	-1.962	-36.795
			30:COM17	30:COM17	18:COM5	30:COM17	18:COM5	26:COM13
8624	3594	+ve	0.000	16.225	1.084	5.518	0.331	17.428
			-	28:COM15	20:COM7	16:COM3	28:COM15	28:COM15
			-44.637	-53.366	-0.322	-1.230	-0.754	-40.760
			22:COM9	22:COM9	30:COM17	26:COM13	22:COM9	22:COM9
	3873	-ve	0.000	13.572	1.084	5.518	1.293	61.075
			-	28:COM15	20:COM7	16:COM3	16:COM3	20:COM7
			-44.637	-57.345	-0.322	-1.230	-0.314	-10.013
			22:COM9	22:COM9	30:COM17	26:COM13	26:COM13	30:COM17
8625	3606	+ve	27.207	40.994	0.000	2.679	1.749	152.475
			34:CVOL3	20:COM7	-	28:COM15	16:COM3	20:COM7
			0.000	0.000	-2.030	-7.647	-0.369	0.000
			-	-	18:COM5	22:COM9	26:COM13	-
	3769	-ve	27.207	38.708	0.000	2.679	0.000	73.543
			34:CVOL3	20:COM7	-	28:COM15	-	20:COM7
			0.000	0.000	-2.030	-7.647	-2.372	-4.869
			-	-	18:COM5	22:COM9	18:COM5	30:COM17
8626	3602	+ve	8.697	41.268	1.618	1.298	0.461	129.505
			16:COM3	16:COM3	20:COM7	24:COM17	28:COM15	16:COM3
			-6.315	0.000	-0.596	-6.240	-1.551	0.000
			26:COM13	-	30:COM17	18:COM5	22:COM9	-
	3771	-ve	8.697	39.101	1.618	1.298	1.501	54.010
			16:COM3	16:COM3	20:COM7	24:COM17	20:COM7	16:COM3
			-6.315	0.000	-0.596	-6.240	-0.672	-3.899
			26:COM13	-	30:COM17	18:COM5	30:COM17	26:COM13
8627	3603	+ve	11.127	37.627	1.258	5.969	0.327	131.167
			20:COM7	16:COM3	20:COM7	16:COM3	28:COM15	16:COM3
			-6.613	0.000	-0.260	0.000	-1.316	-3.010
			30:COM17	-	30:COM17	-	22:COM9	26:COM13
	3777	-ve	11.127	35.349	1.258	5.969	1.194	59.100
			20:COM7	16:COM3	20:COM7	16:COM3	20:COM7	16:COM3
			-6.613	0.000	-0.260	0.000	-0.210	-19.582
			30:COM17	-	30:COM17	-	30:COM17	26:COM13

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
8628	3594	+ve	14.227	69.953	2.028	20.286	2.649	219.800
			16:COM3	16:COM3	28:COM15	34:CVOL3	20:COM7	16:COM3
			-12.847	0.000	-2.371	0.000	-2.173	0.000
			26:COM13	-	22:COM9	-	30:COM17	-
	3659	-ve	14.227	67.230	2.028	20.286	1.826	85.039
			16:COM3	16:COM3	28:COM15	34:CVOL3	28:COM15	16:COM3
			-12.847	0.000	-2.371	0.000	-2.026	-20.485
			26:COM13	-	22:COM9	-	22:COM9	26:COM13
8629	3591	+ve	24.917	55.454	0.470	5.097	0.921	188.663
			16:COM3	16:COM3	28:COM15	32:CVOL1	20:COM7	16:COM3
			-19.658	0.000	-1.124	-1.312	-0.392	-1.156
			26:COM13	-	22:COM9	30:COM17	30:COM17	26:COM13
	3665	-ve	24.917	52.724	0.470	5.097	0.559	81.979
			16:COM3	16:COM3	28:COM15	32:CVOL1	28:COM15	16:COM3
			-19.658	0.000	-1.124	-1.312	-1.319	-32.851
			26:COM13	-	22:COM9	30:COM17	22:COM9	26:COM13
8630	3604	+ve	22.111	40.841	0.949	8.964	0.000	133.705
			20:COM7	16:COM3	20:COM7	16:COM3	-	16:COM3
			-17.743	0.000	0.000	0.000	-1.048	-15.525
			30:COM17	-	-	-	22:COM9	26:COM13
	3783	-ve	22.111	38.565	0.949	8.964	0.922	55.348
			20:COM7	16:COM3	20:COM7	16:COM3	20:COM7	16:COM3
			-17.743	0.000	0.000	0.000	0.000	-27.595
			30:COM17	-	-	-	-	26:COM13
8631	3592	+ve	48.170	211.922	6.990	13.572	5.658	527.787
			16:COM3	16:COM3	20:COM7	28:COM15	28:COM15	24:COM11
			-47.647	-205.833	-5.433	-17.074	-7.562	-536.801
			26:COM13	26:COM13	30:COM17	22:COM9	22:COM9	18:COM5
	3704	-ve	48.170	208.763	6.990	13.572	6.587	112.478
			16:COM3	24:COM11	20:COM7	28:COM15	16:COM3	24:COM11
			-47.647	-209.847	-5.433	-17.074	-5.417	-126.434
			26:COM13	18:COM5	30:COM17	22:COM9	26:COM13	18:COM5
8632	3582	+ve	18.575	26.495	4.228	8.216	5.796	26.200
			24:COM11	20:COM7	28:COM15	16:COM3	20:COM7	20:COM7
			-39.249	-11.155	-8.676	-7.127	-2.643	-13.101
			18:COM5	30:COM17	22:COM9	26:COM13	30:COM17	30:COM17
	3706	-ve	18.575	25.063	4.228	8.216	0.497	11.410
			24:COM11	20:COM7	28:COM15	16:COM3	20:COM7	16:COM3
			-39.249	-12.228	-8.676	-7.127	-0.411	-8.025
			18:COM5	30:COM17	22:COM9	26:COM13	30:COM17	26:COM13
8633	3579	+ve	39.584	71.873	0.943	21.157	1.688	203.393
			20:COM7	20:COM7	24:COM11	16:COM3	16:COM3	28:COM15
			-36.713	-59.848	-1.843	-9.709	-0.617	-211.235
			30:COM17	30:COM17	18:COM5	26:COM13	26:COM13	22:COM9
	3654	-ve	39.584	67.923	0.943	21.157	2.236	10.698
			20:COM7	20:COM7	24:COM11	16:COM3	24:COM11	28:COM15
			-36.713	-62.810	-1.843	-9.709	-3.734	-43.000
			30:COM17	30:COM17	18:COM5	26:COM13	18:COM5	22:COM9

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
8634	3583	+ve	13.555	42.255	4.838	4.990	6.108	74.899
			24:COM1	16:COM3	24:COM1	16:COM3	16:COM3	16:COM3
			-22.762	-38.255	-7.067	-4.270	-4.173	-54.859
			18:COM5	26:COM1	18:COM5	26:COM1	26:COM1	26:COM1
	3593	-ve	13.555	38.812	4.838	4.990	5.346	31.665
			24:COM1	24:COM1	24:COM1	16:COM3	24:COM1	16:COM3
			-22.762	-41.924	-7.067	-4.270	-7.774	-12.494
			18:COM5	18:COM5	18:COM5	26:COM1	18:COM5	26:COM1
8635	3582	+ve	3.524	26.357	1.115	8.742	1.070	20.515
			28:COM1	28:COM1	20:COM7	20:COM7	28:COM1	28:COM1
			-13.198	-32.472	-0.871	-7.881	-1.495	-25.513
			22:COM9	22:COM9	30:COM1	30:COM1	22:COM9	22:COM9
	3581	-ve	3.524	24.800	1.115	8.742	1.020	49.899
			28:COM1	28:COM1	20:COM7	20:COM7	20:COM7	20:COM7
			-13.198	-34.549	-0.871	-7.881	-0.896	-37.047
			22:COM9	22:COM9	30:COM1	30:COM1	30:COM1	30:COM1
8638	3581	+ve	23.979	61.849	0.694	3.450	0.832	153.891
			16:COM3	20:COM7	24:COM1	28:COM1	16:COM3	20:COM7
			-23.737	-46.050	-0.759	-5.418	-0.688	-134.888
			26:COM1	30:COM1	18:COM5	22:COM9	26:COM1	30:COM1
	3715	-ve	23.979	59.551	0.694	3.450	1.050	6.077
			16:COM3	20:COM7	24:COM1	28:COM1	24:COM1	28:COM1
			-23.737	-47.773	-0.759	-5.418	-1.069	-21.407
			26:COM1	30:COM1	18:COM5	22:COM9	18:COM5	22:COM9
8639	3589	+ve	23.950	88.209	1.575	7.334	5.194	144.707
			20:COM7	16:COM3	24:COM1	20:COM7	16:COM3	16:COM3
			-1.466	0.000	-3.458	0.000	-2.288	0.000
			30:COM1	-	18:COM5	-	26:COM1	-
	3691	-ve	23.950	84.686	1.575	7.334	1.244	9.223
			20:COM7	16:COM3	24:COM1	20:COM7	24:COM1	24:COM1
			-1.466	0.000	-3.458	0.000	-2.173	-31.636
			30:COM1	-	18:COM5	-	18:COM5	18:COM5
8640	3595	+ve	51.930	52.664	1.118	4.534	0.733	33.684
			20:COM7	28:COM1	20:COM7	16:COM3	20:COM7	28:COM1
			-40.123	-70.166	-0.934	-1.213	-0.700	-41.662
			30:COM1	22:COM9	30:COM1	26:COM1	30:COM1	22:COM9
	3693	-ve	51.930	49.992	1.118	4.534	1.641	106.536
			20:COM7	28:COM1	20:COM7	16:COM3	20:COM7	20:COM7
			-40.123	-73.729	-0.934	-1.213	-1.231	-72.046
			30:COM1	22:COM9	30:COM1	26:COM1	30:COM1	30:COM1
8641	3596	+ve	75.938	111.766	5.425	6.163	1.660	138.380
			20:COM7	20:COM7	20:COM7	20:COM7	28:COM1	20:COM7
			-51.690	-78.635	-3.769	-4.559	-3.012	-133.007
			30:COM1	30:COM1	30:COM1	30:COM1	22:COM9	30:COM1
	3695	-ve	75.938	109.464	5.425	6.163	4.224	0.000
			20:COM7	20:COM7	20:COM7	20:COM7	20:COM7	-
			-51.690	-80.362	-3.769	-4.559	-3.372	-35.523
			30:COM1	30:COM1	30:COM1	30:COM1	30:COM1	22:COM9

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
8642	3580	+ve	5.644	29.096	0.316	13.557	1.126	74.226
			20:COM7	20:COM7	28:COM15	16:COM3	20:COM7	20:COM7
			-4.433	0.000	-0.572	-12.201	-0.664	0.000
			30:COM17	-	22:COM9	26:COM13	30:COM17	-
	3928	-ve	5.644	20.442	0.316	13.557	0.303	1.194
			20:COM7	20:COM7	28:COM15	16:COM3	28:COM15	24:COM17
			-4.433	0.000	-0.572	-12.201	-0.619	-2.864
			30:COM17	-	22:COM9	26:COM13	22:COM9	18:COM5
8643	3605	+ve	19.739	36.758	1.873	5.850	0.000	102.650
			20:COM7	16:COM3	16:COM3	16:COM3	-	16:COM3
			-17.003	0.000	-0.430	-4.202	-1.367	-7.612
			30:COM17	-	26:COM13	26:COM13	18:COM5	26:COM13
	3789	-ve	19.739	34.484	1.873	5.850	2.446	32.477
			20:COM7	16:COM3	16:COM3	16:COM3	16:COM3	16:COM3
			-17.003	0.000	-0.430	-4.202	-1.062	-12.628
			30:COM17	-	26:COM13	26:COM13	26:COM13	26:COM13
8644	3608	+ve	0.000	19.017	0.002	1.301	2.175	21.529
			-	20:COM7	28:COM15	20:COM7	34:CVOL3	20:COM7
			-20.623	-1.145	-0.497	-0.607	0.000	-1.341
			22:COM9	30:COM17	22:COM9	30:COM17	-	30:COM17
	3614	-ve	0.000	11.767	0.002	1.301	1.440	7.414
			-	20:COM7	28:COM15	20:COM7	20:COM7	28:COM15
			-20.623	-5.832	-0.497	-0.607	0.000	-16.984
			22:COM9	30:COM17	22:COM9	30:COM17	-	22:COM9
8645	3609	+ve	12.889	56.962	0.469	1.449	0.486	70.789
			20:COM7	28:COM15	28:COM15	16:COM3	20:COM7	28:COM15
			-1.721	-71.024	-0.596	-0.709	-0.474	-87.724
			30:COM17	22:COM9	22:COM9	26:COM13	30:COM17	22:COM9
	3615	-ve	12.889	52.708	0.469	1.449	0.716	98.179
			20:COM7	28:COM15	28:COM15	16:COM3	28:COM15	20:COM7
			-1.721	-77.697	-0.596	-0.709	-1.020	-66.299
			30:COM17	22:COM9	22:COM9	26:COM13	22:COM9	30:COM17
8646	3610	+ve	13.504	45.655	0.000	2.018	1.224	55.815
			16:COM3	28:COM15	-	24:COM17	16:COM3	28:COM15
			0.000	-66.323	-1.066	-1.948	-0.006	-86.317
			-	22:COM9	18:COM5	18:COM5	26:COM13	22:COM9
	3616	-ve	13.504	42.237	0.000	2.018	0.000	85.942
			16:COM3	28:COM15	-	24:COM17	-	20:COM7
			0.000	-71.480	-1.066	-1.948	-1.451	-54.055
			-	22:COM9	18:COM5	18:COM5	18:COM5	30:COM17
8647	3611	+ve	13.032	55.974	0.097	1.054	0.102	66.975
			20:COM7	20:COM7	20:COM7	24:COM17	24:COM11	28:COM15
			-0.997	-56.817	-0.049	-1.723	-0.152	-72.507
			30:COM17	30:COM17	30:COM17	18:COM5	18:COM5	22:COM9
	3617	-ve	13.032	51.159	0.097	1.054	0.124	76.479
			20:COM7	28:COM15	20:COM7	24:COM17	20:COM7	20:COM7
			-0.997	-62.930	-0.049	-1.723	-0.054	-66.242
			30:COM17	22:COM9	30:COM17	18:COM5	30:COM17	30:COM17

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
8648	3612	+ve	16.934	72.942	0.612	0.686	0.849	89.978
			16:COM3	28:COM15	16:COM3	24:COM11	24:COM11	28:COM15
			-2.817	-92.636	-0.562	-1.916	-0.872	-119.049
			26:COM13	22:COM9	26:COM13	18:COM5	18:COM5	22:COM9
	3618	-ve	16.934	68.687	0.612	0.686	0.668	120.901
			16:COM3	28:COM15	16:COM3	24:COM11	16:COM3	20:COM7
			-2.817	-99.309	-0.562	-1.916	-0.566	-87.076
			26:COM13	22:COM9	26:COM13	18:COM5	26:COM13	30:COM17
8649	3613	+ve	0.000	5.181	0.203	0.544	0.201	4.083
			-	20:COM7	20:COM7	24:COM11	28:COM15	20:COM7
			-16.597	-0.570	-0.190	-0.762	-0.207	-1.809
			22:COM9	30:COM17	30:COM17	18:COM5	22:COM9	30:COM17
	3619	-ve	0.000	0.000	0.203	0.544	0.313	5.952
			-	-	20:COM7	24:COM11	20:COM7	20:COM7
			-16.597	-6.272	-0.190	-0.762	-0.286	-1.546
			22:COM9	22:COM9	30:COM17	18:COM5	30:COM17	30:COM17
8650	3614	+ve	5.943	50.804	1.519	19.579	4.766	32.206
			28:COM15	20:COM7	24:COM11	20:COM7	16:COM3	20:COM7
			-25.750	-28.542	-6.973	0.000	-1.726	-14.835
			22:COM9	30:COM17	18:COM5	-	26:COM13	30:COM17
	3589	-ve	5.943	46.020	1.519	19.579	0.909	34.825
			28:COM15	20:COM7	24:COM11	20:COM7	24:COM11	28:COM15
			-25.750	-31.636	-6.973	0.000	-6.868	-47.687
			22:COM9	30:COM17	18:COM5	-	18:COM5	22:COM9
8651	3615	+ve	0.000	39.175	3.325	14.456	2.997	49.302
			-	20:COM7	28:COM15	28:COM15	20:COM7	20:COM7
			-18.356	-34.502	-3.837	-19.292	-2.546	-36.826
			22:COM9	30:COM17	22:COM9	22:COM9	30:COM17	30:COM17
	3590	-ve	0.000	35.347	3.325	14.456	2.943	25.024
			-	28:COM15	28:COM15	28:COM15	28:COM15	20:COM7
			-18.356	-37.886	-3.837	-19.292	-3.337	-14.309
			22:COM9	22:COM9	22:COM9	22:COM9	22:COM9	30:COM17
8652	3616	+ve	0.000	53.708	0.000	1.009	1.069	58.751
			-	20:COM7	-	24:COM11	34:CVOL3	20:COM7
			-33.803	-44.359	-1.091	-9.376	0.000	-41.867
			22:COM9	30:COM17	22:COM9	18:COM5	-	30:COM17
	3594	-ve	0.000	50.304	0.000	1.009	0.091	35.217
			-	20:COM7	-	24:COM11	28:COM15	20:COM7
			-33.803	-46.614	-1.091	-9.376	-0.816	-29.090
			22:COM9	30:COM17	22:COM9	18:COM5	22:COM9	30:COM17
8653	3617	+ve	0.000	35.921	0.466	5.738	0.111	42.877
			-	28:COM15	16:COM3	24:COM11	24:COM11	28:COM15
			-34.301	-47.411	-0.113	-5.987	-0.430	-44.851
			22:COM9	22:COM9	26:COM13	18:COM5	18:COM5	22:COM9
	3591	-ve	0.000	33.113	0.466	5.738	0.342	37.012
			-	28:COM15	16:COM3	24:COM11	16:COM3	20:COM7
			-34.301	-51.815	-0.113	-5.987	-0.078	-14.077
			22:COM9	22:COM9	26:COM13	18:COM5	26:COM13	30:COM17

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
8654	3618	+ve	0.000	79.842	5.198	26.846	4.565	80.920
			-	20:COM7	16:COM3	16:COM3	24:COM11	20:COM7
			-34.082	-66.819	-4.950	-19.352	-4.787	-63.193
			22:COM9	30:COM17	26:COM13	26:COM13	18:COM5	30:COM17
	3592	-ve	0.000	75.438	5.198	26.846	3.794	50.476
			-	20:COM7	16:COM3	16:COM3	16:COM3	20:COM7
			-34.082	-69.627	-4.950	-19.352	-3.606	-48.287
			22:COM9	30:COM17	26:COM13	26:COM13	26:COM13	30:COM17
8655	3619	+ve	6.065	2.291	5.762	6.543	5.155	1.431
			24:COM17	24:COM11	24:COM11	24:COM17	16:COM3	24:COM17
			-25.175	-14.156	-6.607	-9.049	-4.663	-8.925
			18:COM5	18:COM5	18:COM5	18:COM5	26:COM13	18:COM5
	3593	-ve	6.065	0.000	5.762	6.543	4.853	18.088
			24:COM17	-	24:COM11	24:COM17	24:COM11	16:COM3
			-25.175	-18.560	-6.607	-9.049	-5.756	-0.054
			18:COM5	18:COM5	18:COM5	18:COM5	18:COM5	26:COM13
8656	3620	+ve	26.510	89.540	0.129	3.273	0.422	143.936
			20:COM7	28:COM15	28:COM15	28:COM15	28:COM15	28:COM15
			-3.953	-90.578	-0.185	-5.365	-0.539	-156.780
			30:COM17	22:COM9	22:COM9	22:COM9	22:COM9	22:COM9
	3625	-ve	26.510	83.165	0.129	3.273	0.112	167.948
			20:COM7	28:COM15	28:COM15	28:COM15	24:COM11	20:COM7
			-3.953	-100.437	-0.185	-5.365	-0.420	-149.666
			30:COM17	22:COM9	22:COM9	22:COM9	18:COM5	30:COM17
8657	3621	+ve	33.085	51.514	0.102	0.858	0.256	81.031
			20:COM7	20:COM7	28:COM15	16:COM3	20:COM7	20:COM7
			-3.358	-42.927	-0.149	-0.908	-0.178	-77.580
			30:COM17	30:COM17	22:COM9	26:COM13	30:COM17	30:COM17
	3626	-ve	33.085	43.519	0.102	0.858	0.174	78.209
			20:COM7	28:COM15	28:COM15	16:COM3	28:COM15	28:COM15
			-3.358	-49.793	-0.149	-0.908	-0.257	-78.690
			30:COM17	22:COM9	22:COM9	26:COM13	22:COM9	22:COM9
8658	3622	+ve	38.678	51.129	0.064	0.706	0.000	80.606
			20:COM7	20:COM7	20:COM7	24:COM17	-	28:COM15
			0.000	-45.124	-0.049	-1.135	-0.262	-82.195
			-	30:COM17	30:COM17	18:COM5	18:COM5	22:COM9
	3627	-ve	38.678	43.830	0.064	0.706	0.016	81.515
			20:COM7	28:COM15	20:COM7	24:COM17	28:COM15	20:COM7
			0.000	-52.688	-0.049	-1.135	-0.232	-78.254
			-	22:COM9	30:COM17	18:COM5	22:COM9	30:COM17
8659	3623	+ve	40.603	58.789	0.160	0.664	0.256	93.314
			20:COM7	20:COM7	16:COM3	24:COM17	24:COM11	20:COM7
			-2.991	-50.046	-0.101	-1.195	-0.371	-90.176
			30:COM17	30:COM17	26:COM13	18:COM5	18:COM5	30:COM17
	3628	-ve	40.603	50.795	0.160	0.664	0.184	89.818
			20:COM7	28:COM15	16:COM3	24:COM17	16:COM3	28:COM15
			-2.991	-56.915	-0.101	-1.195	-0.098	-91.139
			30:COM17	22:COM9	26:COM13	18:COM5	26:COM13	22:COM9

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
8660	3624	+ve	27.974	102.192	0.420	3.500	0.855	163.215
			20:COM7	20:COM7	24:COM11	16:COM3	20:COM7	20:COM7
			-3.421	-95.721	-0.373	-1.654	-0.552	-162.360
			30:COM17	30:COM17	18:COM5	26:COM13	30:COM17	30:COM17
	3629	-ve	27.974	94.131	0.420	3.500	0.938	174.552
			20:COM7	28:COM15	24:COM11	16:COM3	16:COM3	20:COM7
			-3.421	-103.894	-0.373	-1.654	-0.478	-168.101
			30:COM17	22:COM9	18:COM5	26:COM13	26:COM13	30:COM17
8661	3625	+ve	0.000	78.554	0.000	16.937	0.814	95.134
			-	28:COM15	-	16:COM3	33:CVOL2	28:COM15
			-26.189	-103.514	-0.934	-4.256	0.000	-102.017
			22:COM9	22:COM9	33:CVOL2	26:COM13	-	22:COM9
	3597	-ve	0.000	75.273	0.000	16.937	0.000	83.595
			-	28:COM15	-	16:COM3	-	20:COM7
			-26.189	-108.589	-0.934	-4.256	-0.989	-39.488
			22:COM9	22:COM9	33:CVOL2	26:COM13	22:COM9	30:COM17
8662	3626	+ve	0.000	32.691	0.392	10.560	0.435	41.048
			-	28:COM15	28:COM15	24:COM17	20:COM7	28:COM15
			-15.586	-60.280	-0.575	-12.959	-0.350	-57.094
			22:COM9	22:COM9	22:COM9	18:COM5	30:COM17	22:COM9
	3598	-ve	0.000	29.712	0.392	10.560	0.343	52.489
			-	28:COM15	28:COM15	24:COM17	28:COM15	20:COM7
			-15.586	-64.951	-0.575	-12.959	-0.580	-13.560
			22:COM9	22:COM9	22:COM9	18:COM5	22:COM9	30:COM17
8663	3627	+ve	0.000	33.674	0.000	10.095	1.096	42.507
			-	28:COM15	-	24:COM17	20:COM7	28:COM15
			-16.736	-62.099	-1.168	-12.613	0.000	-58.424
			22:COM9	22:COM9	22:COM9	18:COM5	-	22:COM9
	3599	-ve	0.000	30.696	0.000	10.095	0.000	54.338
			-	28:COM15	-	24:COM17	-	20:COM7
			-16.736	-66.770	-1.168	-12.613	-0.968	-13.819
			22:COM9	22:COM9	22:COM9	18:COM5	18:COM5	30:COM17
8664	3628	+ve	0.000	37.730	0.429	11.153	0.322	46.826
			-	28:COM15	16:COM3	24:COM17	24:COM11	28:COM15
			-18.856	-66.047	-0.370	-12.312	-0.377	-63.250
			22:COM9	22:COM9	26:COM13	18:COM5	18:COM5	22:COM9
	3600	-ve	0.000	34.751	0.429	11.153	0.387	56.426
			-	28:COM15	16:COM3	24:COM17	16:COM3	20:COM7
			-18.856	-70.718	-0.370	-12.312	-0.338	-16.602
			22:COM9	22:COM9	26:COM13	18:COM5	26:COM13	30:COM17
8665	3629	+ve	2.992	82.334	2.246	6.041	0.048	98.929
			28:COM15	28:COM15	20:COM7	24:COM17	28:COM15	28:COM15
			-33.145	-114.950	-0.035	-17.761	-2.012	-113.560
			22:COM9	22:COM9	30:COM17	18:COM5	22:COM9	22:COM9
	3601	-ve	2.992	79.053	2.246	6.041	1.953	92.089
			28:COM15	28:COM15	20:COM7	24:COM17	20:COM7	20:COM7
			-33.145	-120.025	-0.035	-17.761	-0.048	-42.330
			22:COM9	22:COM9	30:COM17	18:COM5	30:COM17	30:COM17

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
8666	3641	+ve	0.000	0.513	0.137	0.304	0.000	0.059
			-	32:CVOL1	34:CVOL3	20:COM7	-	24:COM1
			-4.918	-1.131	0.000	0.000	-0.204	-0.343
			34:CVOL3	35:CVOL4	-	-	34:CVOL3	18:COM5
	3642	-ve	0.000	0.000	0.137	0.304	0.216	10.148
			-	-	34:CVOL3	20:COM7	34:CVOL3	32:CVOL1
			-4.918	-7.199	0.000	0.000	0.000	0.000
			34:CVOL3	32:CVOL1	-	-	-	-
8667	3641	+ve	1.657	1.131	4.407	0.364	0.000	0.275
			32:CVOL1	35:CVOL4	32:CVOL1	16:COM3	-	20:COM7
			0.000	-0.513	0.000	0.000	-0.157	-0.016
			-	32:CVOL1	-	-	32:CVOL1	30:COM1
	3859	-ve	1.657	0.914	4.407	0.364	0.743	0.274
			32:CVOL1	35:CVOL4	32:CVOL1	16:COM3	32:CVOL1	32:CVOL1
			0.000	-0.766	0.000	0.000	0.000	-0.035
			-	32:CVOL1	-	-	-	35:CVOL4
8668	3636	+ve	0.000	13.791	0.000	0.874	0.330	52.070
			-	20:COM7	-	20:COM7	34:CVOL3	20:COM7
			-20.644	0.000	-0.312	-0.086	0.000	0.000
			22:COM9	-	34:CVOL3	30:COM1	-	-
	3823	-ve	0.000	11.685	0.000	0.874	0.000	26.799
			-	20:COM7	-	20:COM7	-	20:COM7
			-20.644	0.000	-0.312	-0.086	-0.289	-0.390
			22:COM9	-	34:CVOL3	30:COM1	34:CVOL3	30:COM1
8669	3635	+ve	2.655	10.752	0.101	0.995	0.000	26.445
			24:COM1	20:COM7	16:COM3	16:COM3	-	20:COM7
			-4.985	0.000	0.000	0.000	-0.097	0.000
			18:COM5	-	-	-	18:COM5	-
	3829	-ve	2.655	8.756	0.101	0.995	0.094	14.065
			24:COM1	20:COM7	16:COM3	16:COM3	20:COM7	16:COM3
			-4.985	0.000	0.000	0.000	0.000	0.000
			18:COM5	-	-	-	-	-
8670	3636	+ve	18.746	0.000	0.000	10.582	10.407	0.000
			20:COM7	-	-	20:COM7	34:CVOL3	-
			0.000	-23.427	-6.210	-6.675	0.000	-1.363
			-	22:COM9	34:CVOL3	30:COM1	-	34:CVOL3
	3606	-ve	18.746	0.000	0.000	10.582	0.000	83.790
			20:COM7	-	-	20:COM7	-	20:COM7
			0.000	-32.283	-6.210	-6.675	-8.558	0.000
			-	22:COM9	34:CVOL3	30:COM1	34:CVOL3	-
8671	3635	+ve	3.634	0.000	0.127	5.363	0.156	0.000
			20:COM7	-	28:COM1	28:COM1	20:COM7	-
			0.000	-20.442	-0.103	-3.938	-0.148	-2.361
			-	22:COM9	22:COM9	22:COM9	30:COM1	35:CVOL4
	3602	-ve	3.634	0.000	0.127	5.363	0.257	72.572
			20:COM7	-	28:COM1	28:COM1	20:COM7	20:COM7
			0.000	-28.593	-0.103	-3.938	-0.178	0.000
			-	22:COM9	22:COM9	22:COM9	30:COM1	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
8672	3642	+ve	1.015	10.313	0.003	0.139	0.002	12.452
			28:COM15	32:CVOL1	16:COM3	16:COM3	24:COM11	20:COM7
			-2.867	0.000	-0.003	-0.068	-0.023	0.000
			22:COM9	-	26:COM13	26:COM13	18:COM5	-
	3643	-ve	1.015	0.000	0.003	0.139	0.002	13.814
			28:COM15	-	16:COM3	16:COM3	24:COM11	20:COM7
			-2.867	-10.500	-0.003	-0.068	-0.018	0.000
			22:COM9	32:CVOL1	26:COM13	26:COM13	18:COM5	-
8673	3606	+ve	171.309	80.635	0.234	3.995	4.670	359.733
			34:CVOL3	34:CVOL3	24:COM11	28:COM15	16:COM3	34:CVOL3
			0.000	0.000	-3.024	-2.563	0.000	0.000
			-	-	18:COM5	22:COM9	-	-
	3791	-ve	171.309	77.810	0.234	3.995	1.394	230.371
			34:CVOL3	34:CVOL3	24:COM11	28:COM15	20:COM7	34:CVOL3
			0.000	0.000	-3.024	-2.563	-0.805	0.000
			-	-	18:COM5	22:COM9	30:COM17	-
8674	3643	+ve	0.000	10.066	0.000	0.000	0.307	10.386
			-	32:CVOL1	-	-	32:CVOL1	32:CVOL1
			-1.920	0.000	-0.362	-1.874	0.000	0.000
			18:COM5	-	22:COM9	22:COM9	-	-
	3644	-ve	0.000	5.889	0.000	0.000	0.000	0.685
			-	32:CVOL1	-	-	-	20:COM7
			-1.920	0.000	-0.362	-1.874	-0.174	-0.359
			18:COM5	-	22:COM9	22:COM9	22:COM9	30:COM17
8675	3597	+ve	0.574	27.513	0.376	18.064	0.544	57.193
			28:COM15	16:COM3	16:COM3	16:COM3	24:COM11	16:COM3
			-3.422	0.000	-0.290	-3.257	-0.556	0.000
			22:COM9	-	26:COM13	26:COM13	18:COM5	-
	3630	-ve	0.574	20.409	0.376	18.064	0.373	0.000
			28:COM15	16:COM3	16:COM3	16:COM3	16:COM3	-
			-3.422	0.000	-0.290	-3.257	-0.173	-1.629
			22:COM9	-	26:COM13	26:COM13	26:COM13	34:CVOL3
8676	3598	+ve	1.369	21.330	0.174	12.030	0.260	42.279
			28:COM15	35:CVOL4	24:COM11	24:COM11	24:COM11	35:CVOL4
			-2.846	0.000	-0.195	-15.498	-0.287	0.000
			22:COM9	-	18:COM5	18:COM5	18:COM5	-
	3631	-ve	1.369	14.319	0.174	12.030	0.181	0.000
			28:COM15	33:CVOL2	24:COM11	24:COM11	24:COM11	-
			-2.846	0.000	-0.195	-15.498	-0.259	-1.256
			22:COM9	-	18:COM5	18:COM5	18:COM5	34:CVOL3
8677	3599	+ve	2.146	21.847	0.101	11.672	0.469	43.577
			28:COM15	35:CVOL4	24:COM11	24:COM11	16:COM3	35:CVOL4
			-3.203	0.000	-0.339	-14.034	-0.138	0.000
			22:COM9	-	18:COM5	18:COM5	26:COM13	-
	3632	-ve	2.146	14.824	0.101	11.672	0.114	0.000
			28:COM15	33:CVOL2	24:COM11	24:COM11	24:COM11	-
			-3.203	0.000	-0.339	-14.034	-0.366	-1.217
			22:COM9	-	18:COM5	18:COM5	18:COM5	34:CVOL3

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
8678	3600	+ve	2.180	21.351	0.206	13.104	0.453	42.345
			28:COM15	35:CVOL4	24:COM11	24:COM11	16:COM3	35:CVOL4
			-3.407	0.000	-0.252	-13.817	-0.319	0.000
			22:COM9	-	18:COM5	18:COM5	26:COM13	-
	3633	-ve	2.180	14.290	0.206	13.104	0.206	0.000
			28:COM15	33:CVOL2	24:COM11	24:COM11	16:COM3	-
			-3.407	0.000	-0.252	-13.817	-0.184	-1.240
			22:COM9	-	18:COM5	18:COM5	26:COM13	34:CVOL3
8679	3601	+ve	1.080	27.832	0.541	1.990	0.685	58.413
			28:COM15	16:COM3	24:COM11	24:COM11	16:COM3	16:COM3
			-2.674	0.000	-0.353	-19.243	-0.990	0.000
			22:COM9	-	18:COM5	18:COM5	26:COM13	-
	3634	-ve	1.080	20.727	0.541	1.990	0.360	0.000
			28:COM15	16:COM3	24:COM11	24:COM11	24:COM11	-
			-2.674	0.000	-0.353	-19.243	-0.202	-1.291
			22:COM9	-	18:COM5	18:COM5	18:COM5	22:COM9
8680	3630	+ve	4.798	10.695	0.014	0.000	0.049	39.929
			20:COM7	16:COM3	28:COM15	-	20:COM7	16:COM3
			-1.739	0.000	-0.067	-1.002	-0.009	0.000
			30:COM17	-	22:COM9	18:COM5	30:COM17	-
	3717	-ve	4.798	8.789	0.014	0.000	0.021	21.030
			20:COM7	16:COM3	28:COM15	-	28:COM15	16:COM3
			-1.739	0.000	-0.067	-1.002	-0.085	-5.531
			30:COM17	-	22:COM9	18:COM5	22:COM9	26:COM13
8681	3631	+ve	6.266	7.279	0.011	0.318	0.072	20.534
			28:COM15	33:CVOL2	24:COM11	24:COM11	16:COM3	16:COM3
			-9.846	0.000	-0.080	-1.023	-0.012	0.000
			22:COM9	-	18:COM5	18:COM5	26:COM13	-
	3722	-ve	6.266	5.314	0.011	0.318	0.009	9.555
			28:COM15	35:CVOL4	24:COM11	24:COM11	24:COM11	16:COM3
			-9.846	0.000	-0.080	-1.023	-0.084	-4.072
			22:COM9	-	18:COM5	18:COM5	18:COM5	26:COM13
8682	3632	+ve	11.671	7.389	0.016	0.243	0.103	21.526
			28:COM15	33:CVOL2	24:COM11	24:COM11	16:COM3	16:COM3
			-19.031	0.000	-0.102	-1.010	-0.022	0.000
			22:COM9	-	18:COM5	18:COM5	26:COM13	-
	3727	-ve	11.671	5.448	0.016	0.243	0.010	10.157
			28:COM15	20:COM7	24:COM11	24:COM11	24:COM11	16:COM3
			-19.031	0.000	-0.102	-1.010	-0.096	-4.032
			22:COM9	-	18:COM5	18:COM5	18:COM5	26:COM13
8683	3633	+ve	10.593	7.024	0.037	0.251	0.123	21.488
			28:COM15	33:CVOL2	24:COM11	24:COM11	16:COM3	16:COM3
			-15.255	0.000	-0.119	-1.146	-0.046	0.000
			22:COM9	-	18:COM5	18:COM5	26:COM13	-
	3732	-ve	10.593	5.087	0.037	0.251	0.025	10.232
			28:COM15	35:CVOL4	24:COM11	24:COM11	24:COM11	16:COM3
			-15.255	0.000	-0.119	-1.146	-0.109	-5.500
			22:COM9	-	18:COM5	18:COM5	18:COM5	26:COM13

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
8684	3634	+ve	2.486	10.368	0.016	0.202	0.079	38.619
			16:COM3	20:COM7	28:COM15	28:COM15	20:COM7	16:COM3
			-1.270	0.000	-0.080	-0.272	-0.021	0.000
			26:COM13	-	22:COM9	22:COM9	30:COM17	-
	3737	-ve	2.486	8.354	0.016	0.202	0.013	20.668
			16:COM3	20:COM7	28:COM15	28:COM15	28:COM15	32:CVOL1
			-1.270	0.000	-0.080	-0.272	-0.087	0.000
			26:COM13	-	22:COM9	22:COM9	22:COM9	-
8685	3643	+ve	15.939	0.000	0.000	3.608	3.637	0.000
			32:CVOL1	-	-	20:COM7	32:CVOL1	-
			0.000	-20.566	-3.409	-3.422	0.000	-5.571
			-	32:CVOL1	32:CVOL1	30:COM17	-	22:COM9
	3852	-ve	15.939	0.000	0.000	3.608	0.000	39.616
			32:CVOL1	-	-	20:COM7	-	32:CVOL1
			0.000	-25.300	-3.409	-3.422	-3.071	0.000
			-	32:CVOL1	32:CVOL1	30:COM17	22:COM9	-
8686	3637	+ve	4.277	8.034	0.096	0.580	0.000	35.310
			20:COM7	33:CVOL2	16:COM3	16:COM3	-	16:COM3
			-3.093	0.000	0.000	0.000	-0.100	0.000
			30:COM17	-	-	-	18:COM5	-
	3797	-ve	4.277	6.022	0.096	0.580	0.091	22.768
			20:COM7	33:CVOL2	16:COM3	16:COM3	16:COM3	16:COM3
			-3.093	0.000	0.000	0.000	0.000	-5.661
			30:COM17	-	-	-	-	26:COM13
8687	3638	+ve	10.290	7.590	0.130	0.956	0.020	26.423
			20:COM7	16:COM3	16:COM3	16:COM3	24:COM11	16:COM3
			-10.166	0.000	-0.020	-0.224	-0.133	0.000
			30:COM17	-	26:COM13	26:COM13	18:COM5	-
	3803	-ve	10.290	5.875	0.130	0.956	0.123	18.676
			20:COM7	16:COM3	16:COM3	16:COM3	16:COM3	16:COM3
			-10.166	0.000	-0.020	-0.224	-0.019	-7.520
			30:COM17	-	26:COM13	26:COM13	26:COM13	26:COM13
8688	3639	+ve	9.160	10.631	0.095	0.268	0.014	20.779
			28:COM15	16:COM3	16:COM3	16:COM3	24:COM11	20:COM7
			-9.729	0.000	-0.002	-0.036	-0.117	0.000
			22:COM9	-	26:COM13	26:COM13	18:COM5	-
	3806	-ve	9.160	8.919	0.095	0.268	0.071	11.542
			28:COM15	16:COM3	16:COM3	16:COM3	16:COM3	16:COM3
			-9.729	0.000	-0.002	-0.036	0.000	-1.923
			22:COM9	-	26:COM13	26:COM13	-	26:COM13
8689	3640	+ve	3.474	5.087	0.393	11.525	0.235	0.739
			16:COM3	24:COM11	16:COM3	24:COM17	24:COM11	24:COM17
			-1.574	-21.537	-0.311	-18.500	-0.205	-1.411
			26:COM13	18:COM5	26:COM13	18:COM5	18:COM5	18:COM5
	3607	-ve	3.474	2.959	0.393	11.525	0.378	27.627
			16:COM3	24:COM11	16:COM3	24:COM17	16:COM3	16:COM3
			-1.574	-24.874	-0.311	-18.500	-0.246	-4.311
			26:COM13	18:COM5	26:COM13	18:COM5	26:COM13	26:COM13

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
8690	3639	+ve	2.053	0.000	0.723	12.258	0.589	0.000
			20:COM7	-	24:COM11	16:COM3	16:COM3	-
			-0.390	-16.767	-0.909	-10.429	-0.439	-1.054
			30:COM17	18:COM5	18:COM5	26:COM13	26:COM13	18:COM5
	3605	-ve	2.053	0.000	0.723	12.258	0.483	22.660
			20:COM7	-	24:COM11	16:COM3	28:COM15	16:COM3
			-0.390	-20.105	-0.909	-10.429	-0.565	0.000
			30:COM17	18:COM5	18:COM5	26:COM13	22:COM9	-
8691	3638	+ve	1.608	0.000	0.501	17.756	0.384	0.000
			20:COM7	-	16:COM3	16:COM3	24:COM11	-
			-0.796	-13.821	-0.395	-14.485	-0.486	-1.203
			30:COM17	33:CVOL2	26:COM13	26:COM13	18:COM5	35:CVOL4
	3604	-ve	1.608	0.000	0.501	17.756	0.202	18.400
			20:COM7	-	16:COM3	16:COM3	28:COM15	33:CVOL2
			-0.796	-17.131	-0.395	-14.485	-0.171	0.000
			30:COM17	33:CVOL2	26:COM13	26:COM13	22:COM9	-
8692	3637	+ve	1.542	0.000	0.471	7.011	0.235	0.000
			20:COM7	-	20:COM7	16:COM3	24:COM11	-
			-1.208	-16.883	-0.332	-7.647	-0.369	-0.967
			30:COM17	18:COM5	30:COM17	26:COM13	18:COM5	22:COM9
	3603	-ve	1.542	0.000	0.471	7.011	0.304	22.673
			20:COM7	-	20:COM7	16:COM3	20:COM7	16:COM3
			-1.208	-20.221	-0.332	-7.647	-0.265	0.000
			30:COM17	18:COM5	30:COM17	26:COM13	30:COM17	-
8693	3645	+ve	0.178	2.547	0.000	0.027	0.121	0.190
			28:COM15	34:CVOL3	-	24:COM11	16:COM3	34:CVOL3
			-0.444	0.000	-0.144	-0.117	0.000	0.000
			22:COM9	-	18:COM5	18:COM5	-	-
	3646	-ve	0.178	0.000	0.000	0.027	0.000	0.173
			28:COM15	-	-	24:COM11	-	24:COM11
			-0.444	-1.543	-0.144	-0.117	-0.074	-0.744
			22:COM9	32:CVOL1	18:COM5	18:COM5	22:COM9	18:COM5
8694	3646	+ve	0.395	6.594	0.002	0.565	0.013	0.624
			28:COM15	32:CVOL1	28:COM15	34:CVOL3	20:COM7	32:CVOL1
			-1.810	0.000	-0.003	0.000	-0.004	-1.058
			22:COM9	-	22:COM9	-	30:COM17	35:CVOL4
	3647	-ve	0.395	0.000	0.002	0.565	0.008	19.320
			28:COM15	-	28:COM15	34:CVOL3	24:COM11	32:CVOL1
			-1.810	-12.309	-0.003	0.000	-0.010	0.000
			22:COM9	32:CVOL1	22:COM9	-	18:COM5	-
8695	3607	+ve	4.883	82.096	1.176	3.880	0.449	150.206
			20:COM7	16:COM3	16:COM3	16:COM3	24:COM11	16:COM3
			-4.671	-54.170	-0.396	0.000	-1.257	-91.518
			30:COM17	26:COM13	26:COM13	-	18:COM5	26:COM13
	3808	-ve	4.883	80.154	1.176	3.880	0.831	13.873
			20:COM7	16:COM3	16:COM3	16:COM3	16:COM3	16:COM3
			-4.671	-55.627	-0.396	0.000	-0.327	0.000
			30:COM17	26:COM13	26:COM13	-	26:COM13	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
8696	3640	+ve	3.308	13.011	0.071	0.600	0.038	28.617
			28:COM15	16:COM3	16:COM3	16:COM3	24:COM11	16:COM3
			-5.140	-7.806	-0.029	0.000	-0.076	-8.291
			22:COM9	26:COM13	26:COM13	-	18:COM5	26:COM13
	3850	-ve	3.308	11.549	0.071	0.600	0.045	9.632
			28:COM15	16:COM3	16:COM3	16:COM3	16:COM3	20:COM7
			-5.140	-8.903	-0.029	0.000	-0.014	0.000
			22:COM9	26:COM13	26:COM13	-	26:COM13	-
8697	3647	+ve	1.877	7.551	0.009	0.876	0.018	15.835
			24:COM17	32:CVOL1	16:COM3	16:COM3	24:COM11	32:CVOL1
			-4.453	0.000	-0.005	0.000	-0.031	0.000
			18:COM5	-	26:COM13	-	18:COM5	-
	3923	-ve	1.877	0.000	0.009	0.876	0.016	5.664
			24:COM17	-	16:COM3	16:COM3	20:COM7	16:COM3
			-4.453	-2.876	-0.005	0.000	-0.006	-0.480
			18:COM5	32:CVOL1	26:COM13	-	30:COM17	26:COM13
8698	3593	+ve	47.799	122.047	1.647	2.389	2.908	214.501
			16:COM3	16:COM3	28:COM15	20:COM7	20:COM7	16:COM3
			-33.080	-87.240	-2.925	0.000	-1.545	-162.604
			26:COM13	26:COM13	22:COM9	-	30:COM17	26:COM13
	3708	-ve	47.799	119.719	1.647	2.389	1.274	12.163
			16:COM3	16:COM3	28:COM15	20:COM7	28:COM15	24:COM17
			-33.080	-88.986	-2.925	0.000	-2.060	-15.385
			26:COM13	26:COM13	22:COM9	-	22:COM9	18:COM5
8699	3649	+ve	7.057	28.834	0.034	2.066	0.063	61.751
			24:COM17	34:CVOL3	28:COM15	16:COM3	20:COM7	20:COM7
			-10.521	0.000	-0.065	-1.131	-0.028	0.000
			18:COM5	-	22:COM9	26:COM13	30:COM17	-
	3811	-ve	7.057	27.015	0.034	2.066	0.040	12.916
			24:COM17	34:CVOL3	28:COM15	16:COM3	28:COM15	20:COM7
			-10.521	0.000	-0.065	-1.131	-0.066	-9.040
			18:COM5	-	22:COM9	26:COM13	22:COM9	30:COM17
8700	3651	+ve	0.496	0.000	1.728	18.107	0.519	0.000
			28:COM15	-	16:COM3	16:COM3	24:COM11	-
			-2.421	-8.568	-0.999	-17.003	-0.609	-0.816
			22:COM9	22:COM9	26:COM13	26:COM13	18:COM5	22:COM9
	3585	-ve	0.496	0.000	1.728	18.107	0.895	6.796
			28:COM15	-	16:COM3	16:COM3	20:COM7	20:COM7
			-2.421	-10.570	-0.999	-17.003	-0.438	0.000
			22:COM9	22:COM9	26:COM13	26:COM13	30:COM17	-
8701	3652	+ve	0.000	0.000	2.020	18.950	0.449	0.000
			-	-	16:COM3	16:COM3	24:COM11	-
			-1.971	-6.048	-0.816	-15.072	-0.669	-0.785
			22:COM9	22:COM9	26:COM13	26:COM13	18:COM5	22:COM9
	3586	-ve	0.000	0.000	2.020	18.950	0.869	4.736
			-	-	16:COM3	16:COM3	16:COM3	20:COM7
			-1.971	-8.050	-0.816	-15.072	-0.185	0.000
			22:COM9	22:COM9	26:COM13	26:COM13	26:COM13	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
8702	3653	+ve	0.000	0.000	1.247	21.077	0.545	0.000
			-	-	16:COM3	16:COM3	24:COM11	-
			-1.742	-8.856	-1.312	-15.913	-0.665	-0.871
			22:COM9	22:COM9	26:COM13	26:COM13	18:COM5	22:COM9
	3587	-ve	0.000	0.000	1.247	21.077	0.411	7.035
			-	-	16:COM3	16:COM3	24:COM11	20:COM7
			-1.742	-10.858	-1.312	-15.913	-0.579	0.000
			22:COM9	22:COM9	26:COM13	26:COM13	18:COM5	-
8703	3651	+ve	4.012	4.377	0.024	0.454	0.027	18.054
			28:COM15	16:COM3	28:COM15	16:COM3	20:COM7	16:COM3
			-5.536	0.000	-0.023	0.000	-0.027	-1.800
			22:COM9	-	22:COM9	-	30:COM17	26:COM13
	3863	-ve	4.012	3.702	0.024	0.454	0.021	15.214
			28:COM15	16:COM3	28:COM15	16:COM3	28:COM15	16:COM3
			-5.536	0.000	-0.023	0.000	-0.017	-7.464
			22:COM9	-	22:COM9	-	22:COM9	26:COM13
8704	3652	+ve	3.818	3.544	0.013	0.442	0.024	16.932
			20:COM7	16:COM3	24:COM11	16:COM3	16:COM3	16:COM3
			-3.865	0.000	-0.020	0.000	-0.014	-2.778
			30:COM17	-	18:COM5	-	26:COM13	26:COM13
	3743	-ve	3.818	2.869	0.013	0.442	0.012	14.764
			20:COM7	16:COM3	24:COM11	16:COM3	24:COM11	16:COM3
			-3.865	0.000	-0.020	0.000	-0.014	-7.640
			30:COM17	-	18:COM5	-	18:COM5	26:COM13
8705	3577	+ve	8.699	29.248	0.546	25.662	0.845	58.981
			20:COM7	34:CVOL3	28:COM15	28:COM15	20:COM7	34:CVOL3
			-4.272	0.000	-0.640	-29.701	-0.779	0.000
			30:COM17	-	22:COM9	22:COM9	30:COM17	-
	3648	-ve	8.699	22.009	0.546	25.662	0.510	0.000
			20:COM7	34:CVOL3	28:COM15	28:COM15	28:COM15	-
			-4.272	0.000	-0.640	-29.701	-0.665	-1.641
			30:COM17	-	22:COM9	22:COM9	22:COM9	22:COM9
8706	3578	+ve	6.452	41.687	0.218	20.766	0.144	87.154
			20:COM7	34:CVOL3	16:COM3	16:COM3	24:COM11	34:CVOL3
			0.000	0.000	-0.092	-14.458	-0.265	0.000
			-	-	26:COM13	26:COM13	18:COM5	-
	3650	-ve	6.452	34.459	0.218	20.766	0.257	0.000
			20:COM7	34:CVOL3	16:COM3	16:COM3	16:COM3	-
			0.000	0.000	-0.092	-14.458	-0.083	-2.273
			-	-	26:COM13	26:COM13	26:COM13	34:CVOL3
8708	3650	+ve	9.462	16.313	0.002	0.000	0.080	45.921
			24:COM11	34:CVOL3	28:COM15	-	16:COM3	16:COM3
			-13.958	0.000	-0.079	-1.675	-0.000	0.000
			18:COM5	-	22:COM9	18:COM5	26:COM13	-
	3813	-ve	9.462	14.467	0.002	0.000	0.006	21.268
			24:COM11	34:CVOL3	28:COM15	-	28:COM15	16:COM3
			-13.958	0.000	-0.079	-1.675	-0.078	-1.702
			18:COM5	-	22:COM9	18:COM5	22:COM9	26:COM13

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
8709	3655	+ve	45.788	106.933	1.167	10.605	1.690	49.381
			28:COM15	28:COM15	20:COM7	20:COM7	28:COM15	28:COM15
			-60.126	-114.263	-1.129	0.000	-1.722	-73.026
			22:COM9	22:COM9	30:COM17	-	22:COM9	22:COM9
	3584	-ve	45.788	99.235	1.167	10.605	2.144	320.774
			28:COM15	28:COM15	20:COM7	20:COM7	20:COM7	20:COM7
			-60.126	-125.839	-1.129	0.000	-2.051	-288.766
			22:COM9	22:COM9	30:COM17	-	30:COM17	30:COM17
8710	3655	+ve	6.971	12.358	0.109	2.520	0.035	22.275
			28:COM15	20:COM7	20:COM7	20:COM7	28:COM15	20:COM7
			-10.365	-0.323	-0.002	-2.060	-0.106	0.000
			22:COM9	30:COM17	30:COM17	30:COM17	22:COM9	-
	3816	-ve	6.971	11.528	0.109	2.520	0.101	18.250
			28:COM15	20:COM7	20:COM7	20:COM7	20:COM7	20:COM7
			-10.365	-0.945	-0.002	-2.060	0.000	-10.197
			22:COM9	30:COM17	30:COM17	30:COM17	-	30:COM17
8711	3659	+ve	12.608	53.211	1.463	11.838	1.376	84.684
			24:COM17	16:COM3	20:COM7	34:CVOL3	28:COM15	16:COM3
			-17.377	0.000	-1.323	0.000	-1.484	-20.521
			18:COM5	-	30:COM17	-	22:COM9	26:COM13
	3660	-ve	12.608	50.489	1.463	11.838	1.398	0.000
			24:COM17	16:COM3	20:COM7	34:CVOL3	20:COM7	-
			-17.377	0.000	-1.323	0.000	-1.231	-67.378
			18:COM5	-	30:COM17	-	30:COM17	18:COM5
8712	3648	+ve	10.464	11.046	0.054	0.117	0.111	30.310
			28:COM15	34:CVOL3	24:COM11	28:COM15	16:COM3	16:COM3
			-11.199	0.000	-0.141	-1.332	-0.022	0.000
			22:COM9	-	18:COM5	22:COM9	26:COM13	-
	3819	-ve	10.464	9.285	0.054	0.117	0.080	13.249
			28:COM15	34:CVOL3	24:COM11	28:COM15	24:COM11	16:COM3
			-11.199	0.000	-0.141	-1.332	-0.155	-4.750
			22:COM9	-	18:COM5	22:COM9	18:COM5	26:COM13
8713	3656	+ve	10.149	13.017	7.370	12.374	1.893	22.583
			28:COM15	24:COM11	20:COM7	16:COM3	16:COM3	20:COM7
			-14.895	-18.672	-7.180	-9.570	-1.234	-8.840
			22:COM9	18:COM5	30:COM17	26:COM13	26:COM13	30:COM17
	3649	-ve	10.149	12.908	7.370	12.374	1.373	28.150
			28:COM15	24:COM11	20:COM7	16:COM3	20:COM7	20:COM7
			-14.895	-18.817	-7.180	-9.570	-0.654	-12.592
			22:COM9	18:COM5	30:COM17	26:COM13	30:COM17	30:COM17
8714	3657	+ve	14.094	2.111	6.318	8.810	2.007	3.166
			28:COM15	28:COM15	20:COM7	20:COM7	28:COM15	28:COM15
			-17.660	-5.170	-6.490	-3.495	-1.814	-23.344
			22:COM9	22:COM9	30:COM17	30:COM17	22:COM9	22:COM9
	3822	-ve	14.094	1.907	6.318	8.810	1.924	2.176
			28:COM15	28:COM15	20:COM7	20:COM7	20:COM7	28:COM15
			-17.660	-5.442	-6.490	-3.495	-1.832	-20.407
			22:COM9	22:COM9	30:COM17	30:COM17	30:COM17	22:COM9

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
8715	3658	+ve	5.957	9.068	0.480	2.894	0.321	11.794
			28:COM15	28:COM15	16:COM3	20:COM7	16:COM3	20:COM7
			-7.082	-21.979	-0.448	-1.515	-0.340	-8.135
			22:COM9	22:COM9	26:COM13	30:COM17	26:COM13	30:COM17
	3871	-ve	5.957	8.587	0.480	2.894	0.330	29.141
			28:COM15	28:COM15	16:COM3	20:COM7	16:COM3	16:COM3
			-7.082	-22.620	-0.448	-1.515	-0.305	-6.764
			22:COM9	22:COM9	26:COM13	30:COM17	26:COM13	26:COM13
8716	3660	+ve	14.691	24.885	0.396	4.009	0.674	0.789
			24:COM17	16:COM3	28:COM15	16:COM3	16:COM3	24:COM17
			-20.845	0.000	-0.633	-0.105	-0.444	-67.047
			18:COM5	-	22:COM9	26:COM13	26:COM13	18:COM5
	3661	-ve	14.691	22.162	0.396	4.009	0.366	0.000
			24:COM17	16:COM3	28:COM15	16:COM3	28:COM15	-
			-20.845	-1.260	-0.633	-0.105	-0.603	-79.685
			18:COM5	26:COM13	22:COM9	26:COM13	22:COM9	34:CVOL3
8717	3661	+ve	14.808	8.891	0.280	0.098	0.164	0.000
			24:COM17	24:COM11	20:COM7	24:COM17	24:COM11	-
			-21.204	-8.960	-0.146	-5.695	-0.321	-79.301
			18:COM5	18:COM5	30:COM17	18:COM5	18:COM5	34:CVOL3
	3662	-ve	14.808	6.849	0.280	0.098	0.367	0.000
			24:COM17	24:COM11	20:COM7	24:COM17	20:COM7	-
			-21.204	-11.683	-0.146	-5.695	-0.259	-75.703
			18:COM5	18:COM5	30:COM17	18:COM5	30:COM17	34:CVOL3
8718	3662	+ve	15.559	0.000	0.258	0.000	0.122	0.000
			24:COM17	-	16:COM3	-	24:COM11	-
			-21.867	-24.525	-0.093	-8.548	-0.272	-75.463
			18:COM5	18:COM5	26:COM13	34:CVOL3	18:COM5	34:CVOL3
	3663	-ve	15.559	0.000	0.258	0.000	0.397	6.736
			24:COM17	-	16:COM3	-	20:COM7	24:COM17
			-21.867	-27.247	-0.093	-8.548	-0.221	-60.088
			18:COM5	18:COM5	26:COM13	34:CVOL3	30:COM17	18:COM5
8719	3663	+ve	16.698	0.000	0.729	0.000	0.101	6.721
			24:COM17	-	16:COM3	-	24:COM11	24:COM17
			-22.406	-40.065	-0.022	-10.451	-0.589	-59.930
			18:COM5	18:COM5	26:COM13	34:CVOL3	18:COM5	18:COM5
	3664	-ve	16.698	0.000	0.729	0.000	0.892	75.074
			24:COM17	-	16:COM3	-	16:COM3	16:COM3
			-22.406	-42.788	-0.022	-10.451	0.000	-28.080
			18:COM5	18:COM5	26:COM13	34:CVOL3	-	26:COM13
8720	3664	+ve	18.592	0.000	1.358	0.000	0.199	75.186
			24:COM17	-	16:COM3	-	24:COM11	16:COM3
			-20.028	-55.620	-0.251	-12.512	-1.279	-28.139
			18:COM5	18:COM5	26:COM13	34:CVOL3	18:COM5	26:COM13
	3591	-ve	18.592	0.000	1.358	0.000	1.572	187.262
			24:COM17	-	16:COM3	-	20:COM7	16:COM3
			-20.028	-58.343	-0.251	-12.512	-0.475	0.000
			18:COM5	18:COM5	26:COM13	34:CVOL3	30:COM17	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
8721	3665	+ve	23.952	40.361	0.270	2.891	0.862	82.021
			16:COM3	16:COM3	28:COM15	32:CVOL1	20:COM7	16:COM3
			-23.102	0.000	-0.769	-1.458	-0.190	-32.676
			26:COM13	-	22:COM9	35:CVOL4	30:COM17	26:COM13
	3666	-ve	23.952	37.630	0.270	2.891	0.355	15.242
			16:COM3	16:COM3	28:COM15	32:CVOL1	28:COM15	24:COM17
			-23.102	0.000	-0.769	-1.458	-0.666	-58.435
			26:COM13	-	22:COM9	35:CVOL4	22:COM9	18:COM5
8722	3666	+ve	24.637	25.582	0.103	2.140	0.212	15.320
			16:COM3	16:COM3	16:COM3	16:COM3	20:COM7	24:COM17
			-24.404	0.000	-0.118	-1.251	-0.167	-58.368
			26:COM13	-	26:COM13	26:COM13	30:COM17	18:COM5
	3667	-ve	24.637	22.852	0.103	2.140	0.253	0.000
			16:COM3	16:COM3	16:COM3	16:COM3	20:COM7	-
			-24.404	-1.134	-0.118	-1.251	-0.238	-69.155
			26:COM13	26:COM13	26:COM13	26:COM13	30:COM17	18:COM5
8723	3667	+ve	25.524	11.219	0.189	2.979	0.297	0.000
			16:COM3	16:COM3	24:COM11	16:COM3	16:COM3	-
			-25.457	-7.304	-0.241	-1.763	-0.239	-69.241
			26:COM13	26:COM13	18:COM5	26:COM13	26:COM13	18:COM5
	3668	-ve	25.524	8.491	0.189	2.979	0.266	0.000
			16:COM3	24:COM11	24:COM11	16:COM3	28:COM15	-
			-25.457	-9.353	-0.241	-1.763	-0.310	-65.666
			26:COM13	18:COM5	18:COM5	26:COM13	22:COM9	34:CVOL3
8724	3668	+ve	26.439	1.597	0.507	2.239	0.549	0.000
			16:COM3	24:COM11	24:COM11	16:COM3	16:COM3	-
			-26.136	-20.689	-0.595	-1.888	-0.449	-65.767
			26:COM13	18:COM5	18:COM5	26:COM13	26:COM13	34:CVOL3
	3669	-ve	26.439	0.000	0.507	2.239	0.594	1.790
			16:COM3	-	24:COM11	16:COM3	24:COM11	24:COM17
			-26.136	-23.420	-0.595	-1.888	-0.669	-53.188
			26:COM13	18:COM5	18:COM5	26:COM13	18:COM5	18:COM5
8725	3669	+ve	26.002	0.000	1.100	0.251	0.756	1.626
			16:COM3	-	16:COM3	35:CVOL4	24:COM11	24:COM17
			-24.912	-35.719	-0.837	-4.236	-0.908	-53.235
			26:COM13	18:COM5	26:COM13	32:CVOL1	18:COM5	18:COM5
	3670	-ve	26.002	0.000	1.100	0.251	1.272	62.781
			16:COM3	-	16:COM3	35:CVOL4	16:COM3	16:COM3
			-24.912	-38.450	-0.837	-4.236	-0.904	-24.686
			26:COM13	18:COM5	26:COM13	32:CVOL1	26:COM13	26:COM13
8726	3670	+ve	26.839	0.000	1.737	0.000	1.570	62.714
			16:COM3	-	28:COM15	-	28:COM15	16:COM3
			-21.430	-51.930	-1.639	-9.432	-1.814	-24.665
			26:COM13	18:COM5	22:COM9	32:CVOL1	22:COM9	26:COM13
	3592	-ve	26.839	0.000	1.737	0.000	1.641	167.797
			16:COM3	-	28:COM15	-	28:COM15	16:COM3
			-21.430	-54.660	-1.639	-9.432	-1.692	0.000
			26:COM13	18:COM5	22:COM9	32:CVOL1	22:COM9	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
8727	3671	+ve	10.458	23.645	0.140	7.363	0.326	47.581
			28:COM15	16:COM3	28:COM15	20:COM7	20:COM7	16:COM3
			-18.077	-0.509	-0.338	0.000	-0.167	-29.045
			22:COM9	26:COM13	22:COM9	-	30:COM17	26:COM13
	3672	-ve	10.458	21.396	0.140	7.363	0.124	8.973
			28:COM15	16:COM3	28:COM15	20:COM7	28:COM15	24:COM17
			-18.077	-2.196	-0.338	0.000	-0.350	-31.715
			22:COM9	26:COM13	22:COM9	-	22:COM9	18:COM5
8728	3672	+ve	9.969	15.300	0.000	3.329	0.104	9.098
			28:COM15	16:COM3	-	16:COM3	20:COM7	24:COM17
			-16.294	-4.975	-0.109	-0.012	-0.071	-31.643
			22:COM9	26:COM13	18:COM5	26:COM13	30:COM17	18:COM5
	3673	-ve	9.969	13.051	0.000	3.329	0.027	0.000
			28:COM15	16:COM3	-	16:COM3	28:COM15	-
			-16.294	-6.662	-0.109	-0.012	-0.220	-26.413
			22:COM9	26:COM13	18:COM5	26:COM13	22:COM9	35:CVOL4
8729	3673	+ve	9.660	8.451	0.036	0.043	0.089	0.000
			28:COM15	24:COM11	16:COM3	24:COM17	28:COM15	-
			-14.906	-10.185	-0.040	-3.398	-0.159	-26.407
			22:COM9	18:COM5	26:COM13	18:COM5	22:COM9	35:CVOL4
	3674	-ve	9.660	6.764	0.036	0.043	0.073	5.379
			28:COM15	24:COM11	16:COM3	24:COM17	28:COM15	24:COM17
			-14.906	-12.434	-0.040	-3.398	-0.150	-36.992
			22:COM9	18:COM5	26:COM13	18:COM5	22:COM9	18:COM5
8730	3674	+ve	9.266	4.082	0.409	0.000	0.066	5.256
			28:COM15	24:COM11	20:COM7	-	24:COM11	24:COM17
			-13.986	-18.487	-0.064	-7.725	-0.329	-37.042
			22:COM9	18:COM5	30:COM17	22:COM9	18:COM5	18:COM5
	3675	-ve	9.266	2.395	0.409	0.000	0.574	36.159
			28:COM15	24:COM11	20:COM7	-	20:COM7	24:COM17
			-13.986	-20.735	-0.064	-7.725	-0.164	-36.020
			22:COM9	18:COM5	30:COM17	22:COM9	30:COM17	18:COM5
8731	3675	+ve	11.039	1.430	1.218	0.000	0.253	35.954
			28:COM15	24:COM11	16:COM3	-	24:COM11	24:COM17
			-12.511	-32.262	-0.258	-11.476	-0.907	-36.202
			22:COM9	18:COM5	26:COM13	22:COM9	18:COM5	18:COM5
	3586	-ve	11.039	0.000	1.218	0.000	1.481	100.789
			28:COM15	-	16:COM3	-	20:COM7	16:COM3
			-12.511	-34.510	-0.258	-11.476	-0.263	-37.079
			22:COM9	18:COM5	26:COM13	22:COM9	30:COM17	26:COM13
8732	3676	+ve	28.283	27.587	2.773	20.391	2.180	49.674
			28:COM15	16:COM3	20:COM7	20:COM7	28:COM15	16:COM3
			-51.638	-2.639	-1.908	-3.480	-3.346	-39.242
			22:COM9	26:COM13	30:COM17	30:COM17	22:COM9	26:COM13
	3677	-ve	28.283	25.338	2.773	20.391	2.065	6.310
			28:COM15	16:COM3	20:COM7	20:COM7	20:COM7	24:COM17
			-51.638	-4.326	-1.908	-3.480	-1.544	-40.688
			22:COM9	26:COM13	30:COM17	30:COM17	30:COM17	18:COM5

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
8733	3677	+ve	20.720	14.680	0.249	14.574	0.258	6.431
			28:COM15	16:COM3	28:COM15	20:COM7	28:COM15	24:COM11
			-39.537	-7.355	-0.283	-4.214	-0.325	-40.286
			22:COM9	26:COM13	22:COM9	30:COM17	22:COM9	18:COM5
	3678	-ve	20.720	12.432	0.249	14.574	0.208	0.000
			28:COM15	16:COM3	28:COM15	20:COM7	28:COM15	-
			-39.537	-9.042	-0.283	-4.214	-0.341	-30.671
			22:COM9	26:COM13	22:COM9	30:COM17	22:COM9	34:CVOL3
8734	3678	+ve	17.172	7.732	0.109	7.469	0.044	0.000
			28:COM15	24:COM11	16:COM3	20:COM7	28:COM15	-
			-33.075	-12.912	-0.056	-5.373	-0.212	-30.527
			22:COM9	18:COM5	26:COM13	30:COM17	22:COM9	34:CVOL3
	3679	-ve	17.172	6.045	0.109	7.469	0.054	7.928
			28:COM15	24:COM11	16:COM3	20:COM7	24:COM11	24:COM11
			-33.075	-15.161	-0.056	-5.373	-0.118	-38.103
			22:COM9	18:COM5	26:COM13	30:COM17	18:COM5	18:COM5
8735	3679	+ve	14.898	3.314	0.593	3.316	0.000	7.884
			28:COM15	24:COM11	20:COM7	28:COM15	-	24:COM11
			-28.623	-21.102	-0.057	-8.917	-0.433	-38.144
			22:COM9	18:COM5	30:COM17	22:COM9	22:COM9	18:COM5
	3680	-ve	14.898	1.627	0.593	3.316	0.751	43.976
			28:COM15	24:COM11	20:COM7	28:COM15	20:COM7	16:COM3
			-28.623	-23.350	-0.057	-8.917	-0.164	-35.713
			22:COM9	18:COM5	30:COM17	22:COM9	30:COM17	26:COM13
8736	3680	+ve	13.486	0.573	1.372	1.065	0.174	43.754
			28:COM15	24:COM11	20:COM7	28:COM15	28:COM15	16:COM3
			-23.077	-34.746	-0.210	-12.673	-1.114	-35.813
			22:COM9	18:COM5	30:COM17	22:COM9	22:COM9	26:COM13
	3585	-ve	13.486	0.000	1.372	1.065	1.565	113.555
			28:COM15	-	20:COM7	28:COM15	20:COM7	16:COM3
			-23.077	-36.995	-0.210	-12.673	-0.238	-35.137
			22:COM9	18:COM5	30:COM17	22:COM9	30:COM17	26:COM13
8737	3681	+ve	9.377	23.241	0.000	7.407	0.586	46.265
			24:COM11	16:COM3	-	20:COM7	20:COM7	16:COM3
			-18.582	-0.647	-0.471	0.000	0.000	-29.482
			18:COM5	26:COM13	18:COM5	-	-	26:COM13
	3682	-ve	9.377	20.992	0.000	7.407	0.000	8.640
			24:COM11	16:COM3	-	20:COM7	-	24:COM11
			-18.582	-2.333	-0.471	0.000	-0.430	-32.078
			18:COM5	26:COM13	18:COM5	-	22:COM9	18:COM5
8738	3682	+ve	10.489	14.877	0.000	3.356	0.208	8.761
			24:COM11	16:COM3	-	16:COM3	20:COM7	24:COM11
			-20.479	-5.169	-0.140	0.000	-0.112	-32.001
			18:COM5	26:COM13	18:COM5	-	30:COM17	18:COM5
	3683	-ve	10.489	12.629	0.000	3.356	0.013	0.000
			24:COM11	16:COM3	-	16:COM3	28:COM15	-
			-20.479	-6.856	-0.140	0.000	-0.227	-26.134
			18:COM5	26:COM13	18:COM5	-	22:COM9	35:CVOL4

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
8739	3683	+ve	11.455	8.157	0.080	0.122	0.120	0.000
			24:COM1	24:COM11	20:COM7	24:COM1	28:COM15	-
			-22.458	-10.503	-0.042	-3.335	-0.234	-26.130
			18:COM5	18:COM5	30:COM1	18:COM5	22:COM9	35:CVOL4
	3684	-ve	11.455	6.470	0.080	0.122	0.060	5.967
			24:COM1	24:COM11	20:COM7	24:COM1	28:COM15	24:COM1
			-22.458	-12.752	-0.042	-3.335	-0.100	-35.882
			18:COM5	18:COM5	30:COM1	18:COM5	22:COM9	18:COM5
8740	3684	+ve	12.312	3.845	0.311	0.000	0.101	5.843
			24:COM1	24:COM11	20:COM7	-	28:COM15	24:COM1
			-24.497	-18.821	-0.053	-7.769	-0.363	-35.932
			18:COM5	18:COM5	30:COM1	22:COM9	22:COM9	18:COM5
	3685	-ve	12.312	2.158	0.311	0.000	0.278	37.578
			24:COM1	24:COM11	20:COM7	-	20:COM7	16:COM3
			-24.497	-21.069	-0.053	-7.769	-0.038	-34.627
			18:COM5	18:COM5	30:COM1	22:COM9	30:COM1	26:COM13
8741	3685	+ve	14.734	1.570	0.769	0.000	0.488	37.267
			24:COM1	24:COM11	20:COM7	-	28:COM15	16:COM3
			-25.513	-32.747	-0.475	-11.469	-0.696	-34.702
			18:COM5	18:COM5	30:COM1	18:COM5	22:COM9	26:COM13
	3587	-ve	14.734	0.000	0.769	0.000	0.858	103.238
			24:COM1	-	20:COM7	-	16:COM3	16:COM3
			-25.513	-34.996	-0.475	-11.469	-0.492	-36.040
			18:COM5	18:COM5	30:COM1	18:COM5	26:COM13	26:COM13
8742	3686	+ve	20.056	25.425	0.071	10.127	0.732	52.873
			24:COM1	16:COM3	28:COM15	20:COM7	20:COM7	16:COM3
			-37.518	-0.551	-0.532	-3.438	-0.233	-32.658
			18:COM5	26:COM13	22:COM9	30:COM1	30:COM1	26:COM13
	3687	-ve	20.056	23.176	0.071	10.127	0.000	11.166
			24:COM1	16:COM3	28:COM15	20:COM7	-	24:COM1
			-37.518	-2.237	-0.532	-3.438	-0.346	-35.620
			18:COM5	26:COM13	22:COM9	30:COM1	22:COM9	18:COM5
8743	3687	+ve	22.896	17.186	0.091	6.339	0.073	11.205
			24:COM1	16:COM3	28:COM15	28:COM15	24:COM11	24:COM1
			-42.105	-5.104	-0.146	-6.909	-0.136	-35.522
			18:COM5	26:COM13	22:COM9	22:COM9	18:COM5	18:COM5
	3688	-ve	22.896	14.937	0.091	6.339	0.125	0.000
			24:COM1	16:COM3	28:COM15	28:COM15	28:COM15	-
			-42.105	-6.790	-0.146	-6.909	-0.296	-30.468
			18:COM5	26:COM13	22:COM9	22:COM9	22:COM9	34:CVOL3
8744	3688	+ve	25.886	10.348	0.183	5.641	0.051	0.000
			24:COM1	24:COM11	20:COM7	28:COM15	28:COM15	-
			-47.089	-10.547	-0.040	-13.954	-0.278	-30.569
			18:COM5	18:COM5	30:COM1	22:COM9	22:COM9	34:CVOL3
	3689	-ve	25.886	8.661	0.183	5.641	0.227	3.757
			24:COM1	24:COM11	20:COM7	28:COM15	28:COM15	24:COM1
			-47.089	-12.796	-0.040	-13.954	-0.175	-43.695
			18:COM5	18:COM5	30:COM1	22:COM9	22:COM9	18:COM5

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
8745	3689	+ve	28.830	5.216	1.040	5.436	0.547	3.761
			24:COM1	24:COM11	20:COM7	28:COM1	28:COM1	24:COM1
			-51.297	-21.816	-0.814	-19.853	-0.861	-44.137
			18:COM5	18:COM5	30:COM1	22:COM9	22:COM9	18:COM5
	3690	-ve	28.830	3.530	1.040	5.436	1.187	39.838
			24:COM1	24:COM11	20:COM7	28:COM1	20:COM7	24:COM1
			-51.297	-24.065	-0.814	-19.853	-1.059	-44.008
			18:COM5	18:COM5	30:COM1	22:COM9	30:COM1	18:COM5
8746	3690	+ve	32.329	0.000	0.824	22.575	1.352	41.276
			24:COM1	-	28:COM1	28:COM1	20:COM7	24:COM1
			-55.944	-37.233	-1.727	-21.715	-0.636	-41.238
			18:COM5	18:COM5	22:COM9	22:COM9	30:COM1	18:COM5
	3588	-ve	32.329	0.000	0.824	22.575	1.037	111.344
			24:COM1	-	28:COM1	28:COM1	28:COM1	16:COM3
			-55.944	-39.482	-1.727	-21.715	-2.083	-21.694
			18:COM5	18:COM5	22:COM9	22:COM9	22:COM9	26:COM1
8747	3691	+ve	32.554	19.508	2.550	3.769	0.000	19.682
			28:COM1	20:COM7	20:COM7	20:COM7	-	20:COM7
			-50.774	-9.230	-0.384	-0.827	-2.884	-9.935
			22:COM9	30:COM1	30:COM1	30:COM1	22:COM9	30:COM1
	3595	-ve	32.554	16.209	2.550	3.769	1.988	10.227
			28:COM1	20:COM7	20:COM7	20:COM7	20:COM7	28:COM1
			-50.774	-11.705	-0.384	-0.827	-1.447	-14.575
			22:COM9	30:COM1	30:COM1	30:COM1	30:COM1	22:COM9
8748	3692	+ve	76.323	112.905	1.326	9.512	0.969	212.053
			20:COM7	20:COM7	28:COM1	20:COM7	24:COM11	20:COM7
			-52.029	-77.781	-2.051	-7.389	-1.843	-184.396
			30:COM1	30:COM1	22:COM9	30:COM1	18:COM5	30:COM1
	3596	-ve	76.323	111.766	1.326	9.512	1.660	138.099
			20:COM7	20:COM7	28:COM1	20:COM7	28:COM1	20:COM7
			-52.029	-78.635	-2.051	-7.389	-3.012	-132.909
			30:COM1	30:COM1	22:COM9	30:COM1	22:COM9	30:COM1
8749	3693	+ve	179.635	212.621	1.552	5.736	2.411	127.702
			20:COM7	28:COM1	24:COM11	20:COM7	16:COM3	20:COM7
			-130.938	-294.288	-2.713	-2.124	-1.202	-88.924
			30:COM1	22:COM9	18:COM5	30:COM1	26:COM1	30:COM1
	5732	-ve	179.635	211.673	1.552	5.736	0.765	342.991
			20:COM7	28:COM1	24:COM11	20:COM7	20:COM7	20:COM7
			-130.938	-295.551	-2.713	-2.124	-0.404	-243.789
			30:COM1	22:COM9	18:COM5	30:COM1	30:COM1	30:COM1
8750	3694	+ve	90.689	81.944	2.952	3.947	0.421	131.766
			20:COM7	28:COM1	20:COM7	28:COM1	28:COM1	28:COM1
			-83.955	-100.254	-0.594	-13.050	-2.746	-173.546
			30:COM1	22:COM9	30:COM1	22:COM9	22:COM9	22:COM9
	3590	-ve	90.689	79.359	2.952	3.947	3.149	325.754
			20:COM7	28:COM1	20:COM7	28:COM1	20:COM7	28:COM1
			-83.955	-103.701	-0.594	-13.050	-0.776	-325.037
			30:COM1	22:COM9	30:COM1	22:COM9	30:COM1	22:COM9

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
8751	3695	+ve	20.223	93.170	2.753	0.844	1.451	8.016
			16:COM3	20:COM7	20:COM7	24:COM1	28:COM15	28:COM15
			-14.661	-86.370	-1.083	-6.011	-3.252	-42.277
			26:COM1	30:COM1	30:COM1	18:COM5	22:COM9	22:COM9
	3694	-ve	20.223	89.723	2.753	0.844	2.241	140.300
			16:COM3	20:COM7	20:COM7	24:COM1	20:COM7	28:COM15
			-14.661	-88.956	-1.083	-6.011	-0.713	-182.100
			26:COM1	30:COM1	30:COM1	18:COM5	30:COM1	22:COM9
8758	3702	+ve	69.803	126.692	2.040	8.126	1.227	164.830
			24:COM1	16:COM3	20:COM7	20:COM7	20:COM7	16:COM3
			-81.862	-114.105	-0.957	-5.763	-1.108	-141.062
			18:COM5	26:COM1	30:COM1	30:COM1	30:COM1	26:COM1
	3582	-ve	69.803	124.026	2.040	8.126	2.609	10.217
			24:COM1	16:COM3	20:COM7	20:COM7	20:COM7	16:COM3
			-81.862	-116.104	-0.957	-5.763	-1.100	0.000
			18:COM5	26:COM1	30:COM1	30:COM1	30:COM1	-
8759	3703	+ve	122.665	205.458	4.389	30.888	4.660	315.543
			16:COM3	24:COM11	20:COM7	20:COM7	24:COM11	16:COM3
			-111.145	-253.046	-3.959	-30.770	-4.801	-287.865
			26:COM1	18:COM5	30:COM1	30:COM1	18:COM5	26:COM1
	5380	-ve	122.665	204.057	4.389	30.888	1.311	544.089
			16:COM3	24:COM11	20:COM7	20:COM7	16:COM3	16:COM3
			-111.145	-254.914	-3.959	-30.770	-1.066	-472.113
			26:COM1	18:COM5	30:COM1	30:COM1	26:COM1	26:COM1
8760	3704	+ve	57.772	211.529	1.015	2.972	1.320	121.097
			16:COM3	24:COM11	28:COM15	20:COM7	16:COM3	24:COM1
			-54.816	-229.500	-1.465	-2.649	-0.668	-135.078
			26:COM1	18:COM5	22:COM9	30:COM1	26:COM1	18:COM5
	3703	-ve	57.772	208.454	1.015	2.972	1.878	322.217
			16:COM3	24:COM11	28:COM15	20:COM7	28:COM15	16:COM3
			-54.816	-233.600	-1.465	-2.649	-2.116	-293.622
			26:COM1	18:COM5	22:COM9	30:COM1	22:COM9	26:COM1
8761	3705	+ve	51.991	17.114	2.563	6.044	2.949	0.000
			24:COM1	24:COM11	20:COM7	24:COM1	24:COM11	-
			-86.752	-21.877	-2.424	-6.307	-3.596	-8.796
			18:COM5	18:COM5	30:COM1	18:COM5	18:COM5	18:COM5
	3583	-ve	51.991	13.943	2.563	6.044	2.102	40.840
			24:COM1	24:COM11	20:COM7	24:COM1	28:COM15	16:COM3
			-86.752	-26.105	-2.424	-6.307	-2.467	-32.651
			18:COM5	18:COM5	30:COM1	18:COM5	22:COM9	26:COM1
8762	3706	+ve	5.248	9.576	0.592	3.408	0.888	9.703
			24:COM1	20:COM7	24:COM11	20:COM7	20:COM7	20:COM7
			-29.722	-2.834	-0.837	-2.293	-0.560	-3.496
			18:COM5	30:COM1	18:COM5	30:COM1	30:COM1	30:COM1
	3705	-ve	5.248	5.485	0.592	3.408	1.188	7.858
			24:COM1	20:COM7	24:COM11	20:COM7	24:COM11	24:COM1
			-29.722	-5.902	-0.837	-2.293	-1.342	-7.884
			18:COM5	30:COM1	18:COM5	30:COM1	18:COM5	18:COM5

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
8763	3654	+ve	29.275	61.658	0.851	2.361	3.096	39.037
			20:COM7	28:COM15	28:COM15	28:COM15	16:COM3	28:COM15
			-30.601	-68.299	-1.502	-13.618	-1.935	-53.057
			30:COM17	22:COM9	22:COM9	22:COM9	26:COM13	22:COM9
	3588	-ve	29.275	55.578	0.851	2.361	1.469	221.118
			20:COM7	28:COM15	28:COM15	28:COM15	28:COM15	20:COM7
			-30.601	-77.309	-1.502	-13.618	-2.754	-181.754
			30:COM17	22:COM9	22:COM9	22:COM9	22:COM9	30:COM17
8764	3712	+ve	19.257	40.424	1.208	2.351	1.901	62.998
			20:COM7	20:COM7	24:COM11	28:COM15	16:COM3	16:COM3
			-15.100	-10.342	-1.975	-3.504	-0.855	-36.865
			30:COM17	30:COM17	18:COM5	22:COM9	26:COM13	26:COM13
	3713	-ve	19.257	37.828	1.208	2.351	1.481	0.000
			20:COM7	20:COM7	24:COM11	28:COM15	24:COM11	-
			-15.100	-12.289	-1.975	-3.504	-1.874	-23.616
			30:COM17	30:COM17	18:COM5	22:COM9	18:COM5	18:COM5
8765	3713	+ve	19.696	26.237	0.433	1.816	0.964	0.000
			20:COM7	20:COM7	24:COM11	24:COM11	24:COM11	-
			-16.781	-19.291	-0.906	-5.106	-0.832	-23.806
			30:COM17	30:COM17	18:COM5	18:COM5	18:COM5	18:COM5
	3714	-ve	19.696	23.641	0.433	1.816	0.012	23.196
			20:COM7	20:COM7	24:COM11	24:COM11	24:COM11	28:COM15
			-16.781	-21.238	-0.906	-5.106	-0.768	-58.138
			30:COM17	30:COM17	18:COM5	18:COM5	18:COM5	22:COM9
8766	3715	+ve	20.878	27.872	0.048	4.959	0.247	1.953
			24:COM11	28:COM15	28:COM15	20:COM7	16:COM3	28:COM15
			-25.411	-34.022	-0.145	-3.495	-0.147	-23.325
			18:COM5	22:COM9	22:COM9	30:COM17	26:COM13	22:COM9
	3588	-ve	20.878	25.214	0.048	4.959	0.257	114.197
			24:COM11	28:COM15	28:COM15	20:COM7	28:COM15	20:COM7
			-25.411	-37.567	-0.145	-3.495	-0.528	-100.027
			18:COM5	22:COM9	22:COM9	30:COM17	22:COM9	30:COM17
8767	3777	+ve	0.000	5.444	0.000	0.000	0.022	4.777
			-	35:CVOL4	-	-	20:COM7	35:CVOL4
			-4.288	0.000	-0.007	-0.148	0.000	0.000
			34:CVOL3	-	22:COM9	34:CVOL3	-	-
	3659	-ve	0.000	0.000	0.000	0.000	0.000	8.647
			-	-	-	-	-	34:CVOL3
			-4.288	-6.665	-0.007	-0.148	-0.021	0.000
			34:CVOL3	34:CVOL3	22:COM9	34:CVOL3	22:COM9	-
8768	3776	+ve	1.023	3.807	0.123	0.000	0.450	1.223
			16:COM3	33:CVOL2	28:COM15	-	20:COM7	28:COM15
			-0.642	0.000	-0.138	-5.294	-0.371	-2.763
			26:COM13	-	22:COM9	34:CVOL3	30:COM17	22:COM9
	3660	-ve	1.023	0.000	0.123	0.000	0.379	41.702
			16:COM3	-	28:COM15	-	28:COM15	34:CVOL3
			-0.642	-16.009	-0.138	-5.294	-0.392	0.000
			26:COM13	34:CVOL3	22:COM9	34:CVOL3	22:COM9	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
8769	3775	+ve	0.000	5.473	0.002	0.010	0.010	4.794
			-	35:CVOL4	28:COM15	24:COM11	20:COM7	35:CVOL4
			-3.611	0.000	-0.003	-0.037	-0.007	0.000
			34:CVOL3	-	22:COM9	18:COM5	30:COM17	-
	3661	-ve	0.000	0.000	0.002	0.010	0.006	8.701
			-	-	28:COM15	24:COM11	28:COM15	34:CVOL3
			-3.611	-6.657	-0.003	-0.037	-0.010	0.000
			34:CVOL3	34:CVOL3	22:COM9	18:COM5	22:COM9	-
8770	3774	+ve	0.868	5.438	0.004	0.078	0.002	4.445
			28:COM15	35:CVOL4	20:COM7	20:COM7	28:COM15	35:CVOL4
			-2.450	0.000	-0.001	0.000	-0.012	0.000
			22:COM9	-	30:COM17	-	22:COM9	-
	3662	-ve	0.868	0.000	0.004	0.078	0.011	8.641
			28:COM15	-	20:COM7	20:COM7	20:COM7	34:CVOL3
			-2.450	-6.715	-0.001	0.000	-0.002	0.000
			22:COM9	34:CVOL3	30:COM17	-	30:COM17	-
8771	3773	+ve	1.249	5.396	0.005	0.125	0.000	4.206
			28:COM15	35:CVOL4	20:COM7	34:CVOL3	-	35:CVOL4
			-2.518	0.000	0.000	0.000	-0.015	0.000
			22:COM9	-	-	-	22:COM9	-
	3663	-ve	1.249	0.000	0.005	0.125	0.014	8.631
			28:COM15	-	20:COM7	34:CVOL3	20:COM7	34:CVOL3
			-2.518	-6.764	0.000	0.000	0.000	0.000
			22:COM9	34:CVOL3	-	-	-	-
8772	3772	+ve	0.548	5.464	0.005	0.110	0.000	4.584
			24:COM11	35:CVOL4	20:COM7	34:CVOL3	-	20:COM7
			-3.484	0.000	0.000	0.000	-0.015	0.000
			18:COM5	-	-	-	22:COM9	-
	3664	-ve	0.548	0.000	0.005	0.110	0.015	8.306
			24:COM11	-	20:COM7	34:CVOL3	20:COM7	34:CVOL3
			-3.484	-6.671	0.000	0.000	0.000	0.000
			18:COM5	34:CVOL3	-	-	-	-
8773	3783	+ve	0.701	5.651	0.000	0.000	0.008	4.867
			24:COM11	35:CVOL4	-	-	16:COM3	20:COM7
			-2.045	0.000	-0.003	-0.065	0.000	0.000
			18:COM5	-	18:COM5	18:COM5	-	-
	3665	-ve	0.701	0.000	0.000	0.000	0.000	7.525
			24:COM11	-	-	-	-	34:CVOL3
			-2.045	-6.500	-0.003	-0.065	-0.009	0.000
			18:COM5	34:CVOL3	18:COM5	18:COM5	18:COM5	-
8774	3782	+ve	3.104	5.614	0.000	0.000	0.007	4.225
			35:CVOL4	35:CVOL4	24:COM11	-	16:COM3	35:CVOL4
			-0.610	0.000	-0.002	-0.061	-0.000	0.000
			26:COM13	-	18:COM5	18:COM5	26:COM13	-
	3666	-ve	3.104	0.000	0.000	0.000	0.000	7.532
			35:CVOL4	-	24:COM11	-	24:COM11	34:CVOL3
			-0.610	-6.591	-0.002	-0.061	-0.007	0.000
			26:COM13	34:CVOL3	18:COM5	18:COM5	18:COM5	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
8775	3781	+ve	4.656	5.630	0.001	0.006	0.003	4.054
			35:CVOL4	35:CVOL4	28:COM15	28:COM15	20:COM7	35:CVOL4
			0.000	0.000	-0.001	-0.036	-0.002	0.000
			-	-	22:COM9	22:COM9	30:COM17	-
	3667	-ve	4.656	0.000	0.001	0.006	0.002	7.432
			35:CVOL4	-	28:COM15	28:COM15	28:COM15	34:CVOL3
			0.000	-6.603	-0.001	-0.036	-0.003	0.000
			-	34:CVOL3	22:COM9	22:COM9	22:COM9	-
8776	3780	+ve	4.487	5.604	0.002	0.049	0.002	4.009
			35:CVOL4	35:CVOL4	20:COM7	20:COM7	28:COM15	35:CVOL4
			0.000	0.000	-0.001	-0.010	-0.007	0.000
			-	-	30:COM17	30:COM17	22:COM9	-
	3668	-ve	4.487	0.000	0.002	0.049	0.007	7.588
			35:CVOL4	-	20:COM7	20:COM7	20:COM7	34:CVOL3
			0.000	-6.639	-0.001	-0.010	-0.002	0.000
			-	34:CVOL3	30:COM17	30:COM17	30:COM17	-
8777	3779	+ve	3.206	5.546	0.004	0.090	0.001	4.097
			16:COM3	35:CVOL4	20:COM7	16:COM3	28:COM15	35:CVOL4
			-1.478	0.000	-0.000	0.000	-0.012	0.000
			26:COM13	-	30:COM17	-	22:COM9	-
	3669	-ve	3.206	0.000	0.004	0.090	0.013	7.919
			16:COM3	-	20:COM7	16:COM3	20:COM7	34:CVOL3
			-1.478	-6.683	-0.000	0.000	-0.002	0.000
			26:COM13	34:CVOL3	30:COM17	-	30:COM17	-
8778	3778	+ve	1.563	5.578	0.004	0.108	0.000	4.577
			24:COM17	35:CVOL4	20:COM7	16:COM3	-	35:CVOL4
			-3.171	0.000	0.000	-0.008	-0.011	0.000
			18:COM5	-	-	26:COM13	22:COM9	-
	3670	-ve	1.563	0.000	0.004	0.108	0.014	7.905
			24:COM17	-	20:COM7	16:COM3	16:COM3	34:CVOL3
			-3.171	-6.598	0.000	-0.008	0.000	0.000
			18:COM5	34:CVOL3	-	26:COM13	-	-
8779	3676	+ve	11.381	7.123	0.003	0.026	0.008	12.408
			28:COM15	34:CVOL3	20:COM7	28:COM15	28:COM15	20:COM7
			-15.375	0.000	-0.003	-0.028	-0.009	0.000
			22:COM9	-	30:COM17	22:COM9	22:COM9	-
	3748	-ve	11.381	0.000	0.003	0.026	0.011	6.534
			28:COM15	-	20:COM7	28:COM15	28:COM15	20:COM7
			-15.375	-6.314	-0.003	-0.028	-0.011	0.000
			22:COM9	35:CVOL4	30:COM17	22:COM9	22:COM9	-
8780	3677	+ve	10.177	6.812	0.003	0.013	0.019	9.146
			20:COM7	34:CVOL3	28:COM15	28:COM15	20:COM7	20:COM7
			-6.172	0.000	-0.006	-0.045	-0.011	0.000
			30:COM17	-	22:COM9	22:COM9	30:COM17	-
	3747	-ve	10.177	0.000	0.003	0.013	0.011	6.493
			20:COM7	-	28:COM15	28:COM15	28:COM15	35:CVOL4
			-6.172	-6.568	-0.006	-0.045	-0.019	0.000
			30:COM17	35:CVOL4	22:COM9	22:COM9	22:COM9	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
8781	3678	+ve	9.359	6.623	0.003	0.017	0.018	6.912
			20:COM7	34:CVOL3	28:COM15	28:COM15	20:COM7	20:COM7
			-1.477	0.000	-0.005	-0.044	-0.010	0.000
			30:COM17	-	22:COM9	22:COM9	30:COM17	-
	3746	-ve	9.359	0.000	0.003	0.017	0.009	6.576
			20:COM7	-	28:COM15	28:COM15	28:COM15	35:CVOL4
			-1.477	-6.717	-0.005	-0.044	-0.018	0.000
			30:COM17	35:CVOL4	22:COM9	22:COM9	22:COM9	-
8782	3679	+ve	7.591	6.518	0.003	0.022	0.016	5.985
			20:COM7	34:CVOL3	28:COM15	20:COM7	20:COM7	34:CVOL3
			0.000	0.000	-0.005	-0.025	-0.008	0.000
			-	-	22:COM9	30:COM17	30:COM17	-
	3745	-ve	7.591	0.000	0.003	0.022	0.009	6.920
			20:COM7	-	28:COM15	20:COM7	28:COM15	34:CVOL3
			0.000	-6.803	-0.005	-0.025	-0.015	0.000
			-	35:CVOL4	22:COM9	30:COM17	22:COM9	-
8783	3680	+ve	4.700	6.489	0.002	0.022	0.008	6.288
			16:COM3	35:CVOL4	28:COM15	20:COM7	20:COM7	35:CVOL4
			-0.115	0.000	-0.002	-0.009	-0.005	0.000
			26:COM13	-	22:COM9	30:COM17	30:COM17	-
	3744	-ve	4.700	0.000	0.002	0.022	0.005	7.632
			16:COM3	-	28:COM15	20:COM7	28:COM15	20:COM7
			-0.115	-6.830	-0.002	-0.009	-0.007	0.000
			26:COM13	34:CVOL3	22:COM9	30:COM17	22:COM9	-
8784	3671	+ve	4.190	6.419	0.001	0.000	0.011	6.338
			16:COM3	35:CVOL4	28:COM15	-	20:COM7	20:COM7
			0.000	0.000	-0.004	-0.042	-0.005	0.000
			-	-	22:COM9	22:COM9	30:COM17	-
	3753	-ve	4.190	0.000	0.001	0.000	0.004	8.030
			16:COM3	-	28:COM15	-	28:COM15	20:COM7
			0.000	-6.917	-0.004	-0.042	-0.012	0.000
			-	34:CVOL3	22:COM9	22:COM9	22:COM9	-
8785	3672	+ve	6.640	6.394	0.002	0.000	0.012	5.447
			35:CVOL4	35:CVOL4	28:COM15	-	20:COM7	20:COM7
			0.000	0.000	-0.003	-0.037	-0.006	0.000
			-	-	22:COM9	18:COM5	30:COM17	-
	3752	-ve	6.640	0.000	0.002	0.000	0.005	7.305
			35:CVOL4	-	28:COM15	-	28:COM15	20:COM7
			0.000	-6.935	-0.003	-0.037	-0.012	0.000
			-	34:CVOL3	22:COM9	18:COM5	22:COM9	-
8786	3673	+ve	7.718	6.407	0.002	0.018	0.009	5.238
			35:CVOL4	35:CVOL4	28:COM15	16:COM3	20:COM7	35:CVOL4
			0.000	0.000	-0.003	-0.012	-0.006	0.000
			-	-	22:COM9	26:COM13	30:COM17	-
	3751	-ve	7.718	0.000	0.002	0.018	0.006	6.969
			35:CVOL4	-	28:COM15	16:COM3	28:COM15	34:CVOL3
			0.000	-6.919	-0.003	-0.012	-0.008	0.000
			-	34:CVOL3	22:COM9	26:COM13	22:COM9	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
8787	3674	+ve	6.797	6.393	0.002	0.042	0.006	5.439
			34:CVOL3	35:CVOL4	20:COM7	20:COM7	20:COM7	20:COM7
			0.000	0.000	-0.002	0.000	-0.006	0.000
			-	-	30:COM1	-	30:COM1	-
	3750	-ve	6.797	0.000	0.002	0.042	0.006	7.208
			34:CVOL3	-	20:COM7	20:COM7	20:COM7	20:COM7
			0.000	-6.935	-0.002	0.000	-0.005	0.000
			-	34:CVOL3	30:COM1	-	30:COM1	-
8788	3675	+ve	4.504	6.409	0.002	0.042	0.002	6.357
			16:COM3	35:CVOL4	20:COM7	20:COM7	28:COM1	20:COM7
			0.000	0.000	-0.000	0.000	-0.005	0.000
			-	-	30:COM1	-	22:COM9	-
	3749	-ve	4.504	0.000	0.002	0.042	0.007	7.980
			16:COM3	-	20:COM7	20:COM7	20:COM7	20:COM7
			0.000	-6.925	-0.000	0.000	-0.001	0.000
			-	34:CVOL3	30:COM1	-	30:COM1	-
8789	3681	+ve	4.231	6.415	0.000	0.000	0.005	6.419
			16:COM3	35:CVOL4	28:COM1	-	20:COM7	20:COM7
			0.000	0.000	-0.002	-0.040	-0.001	0.000
			-	-	22:COM9	22:COM9	30:COM1	-
	3758	-ve	4.231	0.000	0.000	0.000	0.001	8.149
			16:COM3	-	28:COM1	-	28:COM1	20:COM7
			0.000	-6.918	-0.002	-0.040	-0.006	0.000
			-	34:CVOL3	22:COM9	22:COM9	22:COM9	-
8790	3682	+ve	6.741	6.391	0.001	0.000	0.003	5.517
			35:CVOL4	35:CVOL4	24:COM1	-	24:COM1	20:COM7
			0.000	0.000	-0.001	-0.038	-0.003	0.000
			-	-	18:COM5	18:COM5	18:COM5	-
	3757	-ve	6.741	0.000	0.001	0.000	0.003	7.400
			35:CVOL4	-	24:COM1	-	24:COM1	20:COM7
			0.000	-6.935	-0.001	-0.038	-0.004	0.000
			-	34:CVOL3	18:COM5	18:COM5	18:COM5	-
8791	3683	+ve	7.798	6.408	0.001	0.016	0.002	5.260
			35:CVOL4	35:CVOL4	16:COM3	16:COM3	24:COM1	20:COM7
			0.000	0.000	-0.001	-0.013	-0.005	0.000
			-	-	26:COM1	26:COM1	18:COM5	-
	3756	-ve	7.798	0.000	0.001	0.016	0.005	6.974
			35:CVOL4	-	16:COM3	16:COM3	16:COM3	34:CVOL3
			0.000	-6.917	-0.001	-0.013	-0.002	0.000
			-	34:CVOL3	26:COM1	26:COM1	26:COM1	-
8792	3684	+ve	6.890	6.397	0.002	0.041	0.002	5.522
			34:CVOL3	35:CVOL4	20:COM7	20:COM7	28:COM1	20:COM7
			0.000	0.000	-0.000	0.000	-0.007	0.000
			-	-	30:COM1	-	22:COM9	-
	3755	-ve	6.890	0.000	0.002	0.041	0.008	7.247
			34:CVOL3	-	20:COM7	20:COM7	20:COM7	20:COM7
			0.000	-6.930	-0.000	0.000	-0.001	0.000
			-	34:CVOL3	30:COM1	-	30:COM1	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
8793	3685	+ve	4.699	6.418	0.003	0.045	0.001	6.497
			16:COM3	35:CVOL4	20:COM7	20:COM7	28:COM15	20:COM7
			0.000	0.000	-0.000	0.000	-0.008	0.000
			-	-	30:COM17	-	22:COM9	-
	3754	-ve	4.699	0.000	0.003	0.045	0.010	8.045
			16:COM3	-	20:COM7	20:COM7	20:COM7	20:COM7
			0.000	-6.917	-0.000	0.000	-0.001	0.000
			-	34:CVOL3	30:COM17	-	30:COM17	-
8794	3686	+ve	4.546	6.475	0.003	0.017	0.008	6.278
			20:COM7	35:CVOL4	20:COM7	28:COM15	28:COM15	34:CVOL3
			-0.113	0.000	-0.002	-0.031	-0.011	0.000
			30:COM17	-	30:COM17	22:COM9	22:COM9	-
	3763	-ve	4.546	0.000	0.003	0.017	0.010	8.001
			20:COM7	-	20:COM7	28:COM15	20:COM7	20:COM7
			-0.113	-6.842	-0.002	-0.031	-0.008	0.000
			30:COM17	34:CVOL3	30:COM17	22:COM9	30:COM17	-
8795	3687	+ve	8.175	6.478	0.005	0.034	0.012	5.841
			20:COM7	34:CVOL3	20:COM7	28:COM15	28:COM15	34:CVOL3
			-0.127	0.000	-0.003	-0.032	-0.019	0.000
			30:COM17	-	30:COM17	22:COM9	22:COM9	-
	3762	-ve	8.175	0.000	0.005	0.034	0.018	7.204
			20:COM7	-	20:COM7	28:COM15	20:COM7	20:COM7
			-0.127	-6.844	-0.003	-0.032	-0.012	0.000
			30:COM17	35:CVOL4	30:COM17	22:COM9	30:COM17	-
8796	3688	+ve	10.317	6.553	0.006	0.052	0.013	6.513
			20:COM7	34:CVOL3	20:COM7	20:COM7	28:COM15	20:COM7
			-1.577	0.000	-0.004	-0.022	-0.021	0.000
			30:COM17	-	30:COM17	30:COM17	22:COM9	-
	3761	-ve	10.317	0.000	0.006	0.052	0.020	6.724
			20:COM7	-	20:COM7	20:COM7	20:COM7	35:CVOL4
			-1.577	-6.787	-0.004	-0.022	-0.012	0.000
			30:COM17	35:CVOL4	30:COM17	30:COM17	30:COM17	-
8797	3689	+ve	11.849	6.691	0.007	0.048	0.014	8.624
			20:COM7	34:CVOL3	20:COM7	20:COM7	28:COM15	20:COM7
			-5.938	0.000	-0.004	-0.009	-0.022	0.000
			30:COM17	-	30:COM17	30:COM17	22:COM9	-
	3760	-ve	11.849	0.000	0.007	0.048	0.022	6.722
			20:COM7	-	20:COM7	20:COM7	20:COM7	35:CVOL4
			-5.938	-6.690	-0.004	-0.009	-0.013	0.000
			30:COM17	35:CVOL4	30:COM17	30:COM17	30:COM17	-
8798	3690	+ve	13.576	6.925	0.004	0.029	0.010	11.880
			20:COM7	34:CVOL3	20:COM7	16:COM3	28:COM15	20:COM7
			-13.920	0.000	-0.003	-0.022	-0.013	-0.619
			30:COM17	-	30:COM17	26:COM13	22:COM9	30:COM17
	3759	-ve	13.576	0.000	0.004	0.029	0.012	6.944
			20:COM7	-	20:COM7	16:COM3	20:COM7	20:COM7
			-13.920	-6.517	-0.003	-0.022	-0.008	0.000
			30:COM17	35:CVOL4	30:COM17	26:COM13	30:COM17	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
8799	3769	+ve	0.000	5.849	0.006	0.240	0.009	6.617
			-	34:CVOL3	16:COM3	20:COM7	24:COM11	20:COM7
			-3.456	0.000	-0.002	-0.053	-0.010	0.000
			18:COM5	-	26:COM13	30:COM17	18:COM5	-
	3691	-ve	0.000	0.000	0.006	0.240	0.023	5.228
			-	-	16:COM3	20:COM7	16:COM3	35:CVOL4
			-3.456	-5.372	-0.002	-0.053	-0.003	0.000
			18:COM5	35:CVOL4	26:COM13	30:COM17	26:COM13	-
8800	3768	+ve	0.951	4.902	0.013	0.387	0.026	4.723
			28:COM15	34:CVOL3	20:COM7	20:COM7	28:COM15	16:COM3
			-7.036	0.000	-0.008	-0.106	-0.036	0.000
			22:COM9	-	30:COM17	30:COM17	22:COM9	-
	3595	-ve	0.951	0.000	0.013	0.387	0.038	9.089
			28:COM15	-	20:COM7	20:COM7	20:COM7	20:COM7
			-7.036	-6.296	-0.008	-0.106	-0.022	0.000
			22:COM9	35:CVOL4	30:COM17	30:COM17	30:COM17	-
8801	3767	+ve	1.066	5.318	0.016	0.357	0.038	5.865
			28:COM15	20:COM7	20:COM7	20:COM7	28:COM15	20:COM7
			-9.173	0.000	-0.012	-0.176	-0.048	-3.759
			22:COM9	-	30:COM17	30:COM17	22:COM9	30:COM17
	3693	-ve	1.066	0.000	0.016	0.357	0.041	15.832
			28:COM15	-	20:COM7	20:COM7	20:COM7	20:COM7
			-9.173	-8.280	-0.012	-0.176	-0.029	-0.674
			22:COM9	22:COM9	30:COM17	30:COM17	30:COM17	30:COM17
8802	3766	+ve	0.734	5.761	0.004	0.027	0.037	7.189
			28:COM15	20:COM7	28:COM15	24:COM17	20:COM7	20:COM7
			-11.320	-1.021	-0.012	-0.104	-0.015	-6.417
			22:COM9	30:COM17	22:COM9	18:COM5	30:COM17	30:COM17
	3692	-ve	0.734	0.000	0.004	0.027	0.010	19.455
			28:COM15	-	28:COM15	24:COM17	28:COM15	20:COM7
			-11.320	-9.447	-0.012	-0.104	-0.028	-2.294
			22:COM9	22:COM9	22:COM9	18:COM5	22:COM9	30:COM17
8803	3765	+ve	0.129	5.739	0.012	0.114	0.076	7.212
			24:COM17	20:COM7	28:COM15	28:COM15	20:COM7	20:COM7
			-10.574	0.000	-0.025	-0.332	-0.040	-3.629
			18:COM5	-	22:COM9	22:COM9	30:COM17	30:COM17
	3695	-ve	0.129	0.000	0.012	0.114	0.030	15.729
			24:COM17	-	28:COM15	28:COM15	28:COM15	20:COM7
			-10.574	-8.191	-0.025	-0.332	-0.065	-1.036
			18:COM5	22:COM9	22:COM9	22:COM9	22:COM9	30:COM17
8804	3764	+ve	0.000	5.703	0.009	0.108	0.051	7.123
			-	20:COM7	28:COM15	28:COM15	20:COM7	20:COM7
			-7.785	0.000	-0.017	-0.309	-0.028	0.000
			22:COM9	-	22:COM9	22:COM9	30:COM17	-
	3694	-ve	0.000	0.000	0.009	0.108	0.024	10.007
			-	-	28:COM15	28:COM15	28:COM15	20:COM7
			-7.785	-6.437	-0.017	-0.309	-0.050	0.000
			22:COM9	22:COM9	22:COM9	22:COM9	22:COM9	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
8805	3691	+ve	5.439	9.449	0.030	0.000	0.000	29.398
			28:COM15	20:COM7	16:COM3	-	-	20:COM7
			-9.776	0.000	0.000	-0.325	-0.070	-12.403
			22:COM9	-	-	22:COM9	18:COM5	30:COM17
	3816	-ve	5.439	0.850	0.030	0.000	0.067	8.437
			28:COM15	28:COM15	16:COM3	-	16:COM3	28:COM15
			-9.776	-3.631	0.000	-0.325	0.000	-13.191
			22:COM9	22:COM9	-	22:COM9	-	22:COM9
8809	3695	+ve	0.040	9.009	0.055	0.541	0.082	17.961
			28:COM15	34:CVOL3	20:COM7	16:COM3	28:COM15	16:COM3
			-1.566	0.000	-0.042	-0.190	-0.105	0.000
			22:COM9	-	30:COM17	26:COM13	22:COM9	-
	3821	-ve	0.040	0.004	0.055	0.541	0.142	0.382
			28:COM15	24:COM11	20:COM7	16:COM3	20:COM7	28:COM15
			-1.566	-2.153	-0.042	-0.190	-0.110	-0.830
			22:COM9	18:COM5	30:COM17	26:COM13	30:COM17	22:COM9
8810	3694	+ve	0.000	7.444	0.027	0.392	0.053	13.469
			-	20:COM7	28:COM15	16:COM3	20:COM7	20:COM7
			-2.161	0.000	-0.028	-0.069	-0.052	0.000
			22:COM9	-	22:COM9	26:COM13	30:COM17	-
	3820	-ve	0.000	0.000	0.027	0.392	0.067	1.740
			-	-	28:COM15	16:COM3	28:COM15	16:COM3
			-2.161	-3.245	-0.028	-0.069	-0.069	-0.294
			22:COM9	22:COM9	22:COM9	26:COM13	22:COM9	26:COM13
8811	3823	+ve	0.000	0.876	0.000	0.082	0.086	0.000
			-	20:COM7	-	28:COM15	16:COM3	-
			-8.464	-0.187	-0.056	-0.123	0.000	-1.092
			22:COM9	30:COM17	34:CVOL3	22:COM9	-	22:COM9
	3769	-ve	0.000	0.000	0.000	0.082	0.000	6.482
			-	-	-	28:COM15	-	20:COM7
			-8.464	-5.333	-0.056	-0.123	-0.085	0.000
			22:COM9	34:CVOL3	34:CVOL3	22:COM9	34:CVOL3	-
8812	3824	+ve	0.000	1.364	0.000	0.044	0.065	0.000
			-	34:CVOL3	-	28:COM15	16:COM3	-
			-3.986	0.000	-0.043	-0.083	0.000	-0.703
			32:CVOL1	-	18:COM5	22:COM9	-	22:COM9
	3768	-ve	0.000	0.000	0.000	0.044	0.000	4.654
			-	-	-	28:COM15	-	20:COM7
			-3.986	-4.672	-0.043	-0.083	-0.066	0.000
			32:CVOL1	35:CVOL4	18:COM5	22:COM9	18:COM5	-
8813	3825	+ve	0.129	1.885	0.012	0.010	0.044	0.000
			28:COM15	34:CVOL3	24:COM11	24:COM11	16:COM3	-
			-2.576	0.000	-0.029	-0.025	-0.015	-0.218
			22:COM9	-	18:COM5	18:COM5	26:COM13	33:CVOL2
	3767	-ve	0.129	0.000	0.012	0.010	0.020	3.722
			28:COM15	-	24:COM11	24:COM11	24:COM11	20:COM7
			-2.576	-4.170	-0.029	-0.025	-0.046	0.000
			22:COM9	35:CVOL4	18:COM5	18:COM5	18:COM5	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
8814	3826	+ve	2.060	2.221	0.021	0.089	0.054	0.208
			20:COM7	20:COM7	28:COM15	20:COM7	20:COM7	20:COM7
			-3.960	0.000	-0.036	-0.082	-0.030	-0.323
			30:COM17	-	22:COM9	30:COM17	30:COM17	30:COM17
	3766	-ve	2.060	0.000	0.021	0.089	0.033	4.492
			20:COM7	-	28:COM15	20:COM7	28:COM15	20:COM7
			-3.960	-4.203	-0.036	-0.082	-0.056	0.000
			30:COM17	22:COM9	22:COM9	30:COM17	22:COM9	-
8815	3827	+ve	2.119	2.241	0.042	0.152	0.070	0.412
			28:COM15	20:COM7	28:COM15	20:COM7	20:COM7	28:COM15
			-6.375	-0.222	-0.047	-0.119	-0.062	-0.830
			22:COM9	30:COM17	22:COM9	30:COM17	30:COM17	22:COM9
	3765	-ve	2.119	0.000	0.042	0.152	0.067	5.903
			28:COM15	-	28:COM15	20:COM7	28:COM15	20:COM7
			-6.375	-4.850	-0.047	-0.119	-0.075	0.000
			22:COM9	22:COM9	22:COM9	30:COM17	22:COM9	-
8816	3828	+ve	0.430	1.902	0.028	0.125	0.029	0.632
			28:COM15	20:COM7	20:COM7	20:COM7	28:COM15	28:COM15
			-9.668	-0.746	-0.020	-0.068	-0.041	-1.438
			22:COM9	30:COM17	30:COM17	30:COM17	22:COM9	22:COM9
	3764	-ve	0.430	0.000	0.028	0.125	0.043	7.550
			28:COM15	-	20:COM7	20:COM7	20:COM7	20:COM7
			-9.668	-5.588	-0.020	-0.068	-0.030	0.000
			22:COM9	22:COM9	30:COM17	30:COM17	30:COM17	-
8817	3666	+ve	0.555	6.532	0.003	0.111	0.002	8.487
			24:COM17	34:CVOL3	20:COM7	35:CVOL4	28:COM15	16:COM3
			-0.935	0.000	-0.001	-0.028	-0.005	0.000
			18:COM5	-	30:COM17	26:COM13	22:COM9	-
	3812	-ve	0.555	0.000	0.003	0.111	0.007	0.462
			24:COM17	-	20:COM7	35:CVOL4	20:COM7	16:COM3
			-0.935	-3.459	-0.001	-0.028	-0.002	-0.055
			18:COM5	35:CVOL4	30:COM17	26:COM13	30:COM17	26:COM13
8818	3667	+ve	0.846	6.495	0.003	0.078	0.003	7.597
			16:COM3	34:CVOL3	16:COM3	24:COM17	24:COM17	34:CVOL3
			-0.828	0.000	-0.001	-0.113	-0.006	0.000
			26:COM13	-	26:COM13	18:COM5	18:COM5	-
	3833	-ve	0.846	0.000	0.003	0.078	0.007	0.312
			16:COM3	-	16:COM3	24:COM17	16:COM3	35:CVOL4
			-0.828	-3.719	-0.001	-0.113	-0.003	0.000
			26:COM13	35:CVOL4	26:COM13	18:COM5	26:COM13	-
8819	3668	+ve	0.996	6.793	0.003	0.073	0.004	8.714
			16:COM3	34:CVOL3	16:COM3	24:COM17	24:COM17	34:CVOL3
			-0.983	0.000	-0.002	-0.186	-0.007	0.000
			26:COM13	-	26:COM13	18:COM5	18:COM5	-
	3834	-ve	0.996	0.000	0.003	0.073	0.008	0.329
			16:COM3	-	16:COM3	24:COM17	16:COM3	20:COM7
			-0.983	-3.488	-0.002	-0.186	-0.005	-0.174
			26:COM13	35:CVOL4	26:COM13	18:COM5	26:COM13	30:COM17

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
8820	3669	+ve	1.156	7.368	0.004	0.117	0.007	10.795
			24:COM1	34:CVOL3	20:COM7	28:COM1	28:COM1	34:CVOL3
			-1.524	0.000	-0.003	-0.226	-0.009	0.000
			18:COM5	-	30:COM1	22:COM9	22:COM9	-
	3835	-ve	1.156	0.000	0.004	0.117	0.009	0.859
			24:COM1	-	20:COM7	28:COM1	20:COM7	28:COM1
			-1.524	-2.811	-0.003	-0.226	-0.008	-1.124
			18:COM5	35:CVOL4	30:COM1	22:COM9	30:COM1	22:COM9
8821	3670	+ve	2.206	9.193	0.014	0.304	0.016	13.774
			24:COM1	20:COM7	16:COM3	20:COM7	24:COM1	16:COM3
			-4.312	0.000	-0.012	-0.235	-0.022	0.000
			18:COM5	-	26:COM1	30:COM1	18:COM5	-
	3836	-ve	2.206	1.366	0.014	0.304	0.034	9.853
			24:COM1	28:COM1	16:COM3	20:COM7	16:COM3	28:COM1
			-4.312	-3.252	-0.012	-0.235	-0.031	-11.966
			18:COM5	22:COM9	26:COM1	30:COM1	26:COM1	22:COM9
8822	3659	+ve	0.000	8.799	0.005	0.000	0.007	17.733
			-	34:CVOL3	20:COM7	-	28:COM1	34:CVOL3
			-1.885	0.000	-0.003	-0.600	-0.007	0.000
			22:COM9	-	30:COM1	18:COM5	22:COM9	-
	3811	-ve	0.000	0.047	0.005	0.000	0.013	1.823
			-	24:COM1	20:COM7	-	20:COM7	16:COM3
			-1.885	-1.508	-0.003	-0.600	-0.007	-0.867
			22:COM9	18:COM5	30:COM1	18:COM5	30:COM1	26:COM1
8823	3660	+ve	1.248	12.523	0.254	0.000	0.414	49.758
			20:COM7	34:CVOL3	24:COM1	-	16:COM3	34:CVOL3
			-1.172	0.000	-0.243	-4.466	-0.406	0.000
			30:COM1	-	18:COM5	34:CVOL3	26:COM1	-
	3810	-ve	1.248	0.431	0.254	0.000	0.660	24.376
			20:COM7	24:COM1	24:COM1	-	16:COM3	35:CVOL4
			-1.172	-2.603	-0.243	-4.466	-0.605	0.000
			30:COM1	18:COM5	18:COM5	34:CVOL3	26:COM1	-
8824	3661	+ve	0.411	8.861	0.006	0.244	0.012	17.358
			24:COM1	34:CVOL3	28:COM1	16:COM3	20:COM7	34:CVOL3
			-0.473	0.000	-0.006	-0.005	-0.011	0.000
			18:COM5	-	22:COM9	26:COM1	30:COM1	-
	3809	-ve	0.411	0.000	0.006	0.244	0.014	0.280
			24:COM1	-	28:COM1	16:COM3	28:COM1	16:COM3
			-0.473	-1.530	-0.006	-0.005	-0.014	0.000
			18:COM5	33:CVOL2	22:COM9	26:COM1	22:COM9	-
8825	3665	+ve	0.000	6.748	0.001	0.178	0.005	10.823
			-	34:CVOL3	28:COM1	20:COM7	20:COM7	16:COM3
			-1.840	0.000	-0.002	-0.025	-0.002	0.000
			18:COM5	-	22:COM9	30:COM1	30:COM1	-
	3813	-ve	0.000	0.000	0.001	0.178	0.003	1.339
			-	-	28:COM1	20:COM7	20:COM7	16:COM3
			-1.840	-3.239	-0.002	-0.025	-0.004	0.000
			18:COM5	18:COM5	22:COM9	30:COM1	30:COM1	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
8826	3789	+ve	3.082	5.966	0.020	0.347	0.042	6.880
			24:COM1	16:COM3	16:COM3	16:COM3	24:COM1	16:COM3
			-5.221	0.000	-0.013	-0.138	-0.062	-1.524
			18:COM5	-	26:COM1	26:COM1	18:COM5	26:COM1
	3704	-ve	3.082	0.000	0.020	0.347	0.057	11.787
			24:COM1	-	16:COM3	16:COM3	16:COM3	16:COM3
			-5.221	-7.165	-0.013	-0.138	-0.037	-0.750
			18:COM5	18:COM5	26:COM1	26:COM1	26:COM1	26:COM1
8827	3788	+ve	4.664	6.014	0.020	0.243	0.039	6.754
			24:COM1	16:COM3	16:COM3	16:COM3	24:COM1	16:COM3
			-6.191	-0.245	-0.013	-0.042	-0.062	-5.366
			18:COM5	26:COM1	26:COM1	26:COM1	18:COM5	26:COM1
	3703	-ve	4.664	0.000	0.020	0.243	0.057	16.889
			24:COM1	-	16:COM3	16:COM3	16:COM3	16:COM3
			-6.191	-8.797	-0.013	-0.042	-0.035	-2.467
			18:COM5	18:COM5	26:COM1	26:COM1	26:COM1	26:COM1
8828	3787	+ve	3.906	5.066	0.008	0.180	0.022	4.282
			24:COM1	16:COM3	16:COM3	16:COM3	24:COM1	24:COM1
			-5.596	-0.291	-0.007	-0.120	-0.027	-5.410
			18:COM5	26:COM1	26:COM1	26:COM1	18:COM5	18:COM5
	3702	-ve	3.906	0.000	0.008	0.180	0.021	16.971
			24:COM1	-	16:COM3	16:COM3	16:COM3	16:COM3
			-5.596	-8.869	-0.007	-0.120	-0.017	-0.601
			18:COM5	18:COM5	26:COM1	26:COM1	26:COM1	26:COM1
8829	3786	+ve	3.345	4.113	0.007	0.136	0.023	1.807
			24:COM1	16:COM3	24:COM1	24:COM1	16:COM3	24:COM1
			-5.464	0.000	-0.008	-0.229	-0.021	-3.072
			18:COM5	-	18:COM5	18:COM5	26:COM1	18:COM5
	3706	-ve	3.345	0.000	0.007	0.136	0.021	14.246
			24:COM1	-	24:COM1	24:COM1	24:COM1	16:COM3
			-5.464	-7.959	-0.008	-0.229	-0.022	0.000
			18:COM5	18:COM5	18:COM5	18:COM5	18:COM5	-
8830	3785	+ve	3.031	4.020	0.008	0.068	0.036	1.358
			16:COM3	35:CVOL4	24:COM1	24:COM1	16:COM3	16:COM3
			-4.332	0.000	-0.013	-0.274	-0.022	-0.230
			26:COM1	-	18:COM5	18:COM5	26:COM1	26:COM1
	3705	-ve	3.031	0.000	0.008	0.068	0.022	10.505
			16:COM3	-	24:COM1	24:COM1	24:COM1	16:COM3
			-4.332	-7.128	-0.013	-0.274	-0.036	0.000
			26:COM1	34:CVOL3	18:COM5	18:COM5	18:COM5	-
8831	3784	+ve	0.000	4.903	0.003	0.020	0.033	3.641
			-	35:CVOL4	28:COM1	24:COM1	20:COM7	16:COM3
			-1.896	0.000	-0.011	-0.233	-0.010	0.000
			18:COM5	-	22:COM9	18:COM5	30:COM1	-
	3583	-ve	0.000	0.000	0.003	0.020	0.008	7.206
			-	-	28:COM1	24:COM1	28:COM1	34:CVOL3
			-1.896	-6.245	-0.011	-0.233	-0.032	0.000
			18:COM5	34:CVOL3	22:COM9	18:COM5	22:COM9	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
8832	3830	+ve	0.960	1.676	0.068	0.056	0.015	0.376
			16:COM3	16:COM3	20:COM7	16:COM3	28:COM15	16:COM3
			-0.165	0.000	-0.025	-0.046	-0.041	-0.236
			26:COM13	-	30:COM17	26:COM13	22:COM9	26:COM13
	3786	-ve	0.960	0.000	0.068	0.056	0.049	0.512
			16:COM3	-	20:COM7	16:COM3	16:COM3	24:COM11
			-0.165	-1.549	-0.025	-0.046	-0.022	-0.367
			26:COM13	18:COM5	30:COM17	26:COM13	26:COM13	18:COM5
8833	3831	+ve	0.282	1.498	0.154	0.101	0.043	0.245
			24:COM11	16:COM3	16:COM3	16:COM3	24:COM11	16:COM3
			-1.759	-0.812	-0.082	-0.075	-0.091	-0.366
			18:COM5	26:COM13	26:COM13	26:COM13	18:COM5	26:COM13
	3785	-ve	0.282	0.000	0.154	0.101	0.102	1.619
			24:COM11	-	16:COM3	16:COM3	16:COM3	16:COM3
			-1.759	-2.657	-0.082	-0.075	-0.060	-0.462
			18:COM5	18:COM5	26:COM13	26:COM13	26:COM13	26:COM13
8834	3832	+ve	0.000	0.971	0.076	0.161	0.024	0.306
			-	24:COM11	20:COM7	16:COM3	28:COM15	24:COM11
			-4.440	-2.559	-0.037	-0.118	-0.053	-1.132
			18:COM5	18:COM5	30:COM17	26:COM13	22:COM9	18:COM5
	3784	-ve	0.000	0.000	0.076	0.161	0.043	3.424
			-	-	20:COM7	16:COM3	20:COM7	16:COM3
			-4.440	-4.725	-0.037	-0.118	-0.023	-0.128
			18:COM5	18:COM5	30:COM17	26:COM13	30:COM17	26:COM13
8835	3704	+ve	3.891	12.493	0.028	0.827	0.075	21.692
			28:COM15	16:COM3	24:COM11	16:COM3	16:COM3	16:COM3
			-6.543	-4.720	-0.037	-0.689	-0.057	-14.308
			22:COM9	26:COM13	18:COM5	26:COM13	26:COM13	26:COM13
	3654	-ve	3.891	5.322	0.028	0.827	0.062	28.001
			28:COM15	24:COM11	24:COM11	16:COM3	24:COM11	20:COM7
			-6.543	-11.378	-0.037	-0.689	-0.082	-24.269
			22:COM9	18:COM5	18:COM5	26:COM13	18:COM5	30:COM17
8841	3583	+ve	3.966	5.759	0.052	0.474	0.059	14.182
			28:COM15	16:COM3	16:COM3	20:COM7	24:COM11	20:COM7
			-6.464	0.000	-0.036	-0.223	-0.085	0.000
			22:COM9	-	26:COM13	30:COM17	18:COM5	-
	5697	-ve	3.966	0.000	0.052	0.474	0.087	13.706
			28:COM15	-	16:COM3	20:COM7	16:COM3	16:COM3
			-6.464	-3.948	-0.036	-0.223	-0.061	-3.567
			22:COM9	18:COM5	26:COM13	30:COM17	26:COM13	26:COM13
8842	3705	+ve	3.725	9.366	0.025	0.360	0.038	28.503
			24:COM11	20:COM7	20:COM7	28:COM15	24:COM11	20:COM7
			-5.873	0.000	-0.016	-0.392	-0.062	-5.627
			18:COM5	-	30:COM17	22:COM9	18:COM5	30:COM17
	5698	-ve	3.725	1.252	0.025	0.360	0.052	7.004
			24:COM11	28:COM15	20:COM7	28:COM15	20:COM7	20:COM7
			-5.873	-4.021	-0.016	-0.392	-0.034	-3.359
			18:COM5	22:COM9	30:COM17	22:COM9	30:COM17	30:COM17

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
8843	3699	+ve	3.455	7.004	0.010	0.133	0.063	14.757
			16:COM3	20:COM7	28:COM15	24:COM11	20:COM7	20:COM7
			-1.365	-2.818	-0.032	-0.447	-0.024	-11.821
			26:COM13	30:COM17	22:COM9	18:COM5	30:COM17	30:COM17
	5699	-ve	3.455	2.103	0.010	0.133	0.009	6.431
			16:COM3	28:COM15	28:COM15	24:COM11	28:COM15	16:COM3
			-1.365	-8.392	-0.032	-0.447	-0.041	-0.108
			26:COM13	22:COM9	22:COM9	18:COM5	22:COM9	26:COM13
8844	3702	+ve	5.121	5.485	0.013	0.607	0.023	21.760
			28:COM15	16:COM3	28:COM15	28:COM15	20:COM7	20:COM7
			-6.608	0.000	-0.013	-0.657	-0.023	-13.772
			22:COM9	-	22:COM9	22:COM9	30:COM17	30:COM17
	3715	-ve	5.121	0.000	0.013	0.607	0.033	21.619
			28:COM15	-	28:COM15	28:COM15	28:COM15	20:COM7
			-6.608	-4.744	-0.013	-0.657	-0.032	-16.166
			22:COM9	18:COM5	22:COM9	22:COM9	22:COM9	30:COM17
8845	3703	+ve	5.471	16.146	0.003	0.322	0.017	43.259
			28:COM15	20:COM7	28:COM15	24:COM11	20:COM7	20:COM7
			-6.985	-3.926	-0.005	-0.384	-0.010	-28.320
			22:COM9	30:COM17	22:COM9	18:COM5	30:COM17	30:COM17
	3588	-ve	5.471	4.078	0.003	0.322	0.013	38.167
			28:COM15	28:COM15	28:COM15	24:COM11	28:COM15	20:COM7
			-6.985	-16.007	-0.005	-0.384	-0.024	-24.308
			22:COM9	22:COM9	22:COM9	18:COM5	22:COM9	30:COM17
8847	3900	+ve	12.912	6.138	0.004	0.221	0.011	5.483
			20:COM7	35:CVOL4	20:COM7	20:COM7	20:COM7	20:COM7
			-5.388	0.000	-0.004	-0.118	-0.011	0.000
			30:COM17	-	30:COM17	30:COM17	30:COM17	-
	3894	-ve	12.912	0.000	0.004	0.221	0.016	8.531
			20:COM7	-	20:COM7	20:COM7	20:COM7	34:CVOL3
			-5.388	-7.274	-0.004	-0.118	-0.014	0.000
			30:COM17	34:CVOL3	30:COM17	30:COM17	30:COM17	-
8848	3808	+ve	0.000	5.857	0.004	0.026	0.014	5.642
			-	35:CVOL4	16:COM3	24:COM11	24:COM11	35:CVOL4
			-2.501	0.000	-0.004	-0.027	-0.014	0.000
			18:COM5	-	26:COM13	18:COM5	18:COM5	-
	3708	-ve	0.000	0.000	0.004	0.026	0.011	6.650
			-	-	16:COM3	24:COM11	16:COM3	34:CVOL3
			-2.501	-6.186	-0.004	-0.027	-0.011	0.000
			18:COM5	34:CVOL3	26:COM13	18:COM5	26:COM13	-
8849	5471	+ve	13.601	10.707	0.655	15.536	0.470	11.948
			28:COM15	16:COM3	16:COM3	16:COM3	24:COM11	16:COM3
			-30.178	-1.231	-0.473	-4.157	-0.629	-3.841
			22:COM9	26:COM13	26:COM13	26:COM13	18:COM5	26:COM13
	5512	-ve	13.601	5.883	0.655	15.536	0.651	2.709
			28:COM15	24:COM11	16:COM3	16:COM3	16:COM3	24:COM11
			-30.178	-4.932	-0.473	-4.157	-0.455	-4.768
			22:COM9	18:COM5	26:COM13	26:COM13	26:COM13	18:COM5

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
8850	3790	+ve	3.637	10.725	0.015	0.056	0.000	13.031
			20:COM7	20:COM7	16:COM3	28:COM1	-	20:COM7
			-0.781	0.000	0.000	-0.113	-0.055	0.000
			30:COM1	-	-	22:COM9	18:COM5	-
	3710	-ve	3.637	0.000	0.015	0.056	0.036	22.126
			20:COM7	-	16:COM3	28:COM1	16:COM3	20:COM7
			-0.781	-10.944	0.000	-0.113	-0.005	-4.593
			30:COM1	22:COM9	-	22:COM9	26:COM1	30:COM1
8851	3791	+ve	3.216	6.085	0.009	0.011	0.000	7.059
			28:COM1	34:CVOL	16:COM3	28:COM1	-	20:COM7
			-7.131	0.000	0.000	-0.069	-0.029	0.000
			22:COM9	-	-	22:COM9	18:COM5	-
	3711	-ve	3.216	0.000	0.009	0.011	0.025	8.314
			28:COM1	-	16:COM3	28:COM1	16:COM3	20:COM7
			-7.131	-5.969	0.000	-0.069	0.000	0.000
			22:COM9	35:CVOL4	-	22:COM9	-	-
8852	3829	+ve	0.000	0.821	0.003	0.046	0.037	0.000
			-	16:COM3	24:COM1	24:COM1	16:COM3	-
			-5.530	-0.292	-0.024	-0.190	-0.006	-1.903
			18:COM5	26:COM1	18:COM5	18:COM5	26:COM1	18:COM5
	3771	-ve	0.000	0.000	0.003	0.046	0.003	6.042
			-	-	24:COM1	24:COM1	24:COM1	34:CVOL
			-5.530	-5.418	-0.024	-0.190	-0.035	0.000
			18:COM5	34:CVOL	18:COM5	18:COM5	18:COM5	-
8853	3771	+ve	0.000	5.919	0.005	0.168	0.002	6.636
			-	35:CVOL4	20:COM7	20:COM7	28:COM1	20:COM7
			-5.206	0.000	-0.002	-0.066	-0.013	0.000
			22:COM9	-	30:COM1	30:COM1	22:COM9	-
	3712	-ve	0.000	0.000	0.005	0.168	0.017	7.041
			-	-	20:COM7	20:COM7	20:COM7	20:COM7
			-5.206	-6.050	-0.002	-0.066	-0.007	0.000
			22:COM9	34:CVOL	30:COM1	30:COM1	30:COM1	-
8854	3770	+ve	0.000	5.608	0.009	0.231	0.005	5.624
			-	35:CVOL4	16:COM3	20:COM7	24:COM1	35:CVOL4
			-5.778	0.000	-0.002	-0.064	-0.026	0.000
			18:COM5	-	26:COM1	30:COM1	18:COM5	-
	3713	-ve	0.000	0.000	0.009	0.231	0.030	7.597
			-	-	16:COM3	20:COM7	16:COM3	34:CVOL
			-5.778	-6.227	-0.002	-0.064	-0.008	0.000
			18:COM5	34:CVOL	26:COM1	30:COM1	26:COM1	-
8855	3715	+ve	7.611	28.926	0.014	0.135	0.026	27.300
			20:COM7	20:COM7	28:COM1	28:COM1	20:COM7	20:COM7
			-7.834	-17.373	-0.035	-1.131	-0.007	-14.941
			30:COM1	30:COM1	22:COM9	22:COM9	30:COM1	30:COM1
	5702	-ve	7.611	24.249	0.014	0.135	0.028	28.363
			20:COM7	20:COM7	28:COM1	28:COM1	28:COM1	28:COM1
			-7.834	-20.189	-0.035	-1.131	-0.056	-33.985
			30:COM1	30:COM1	22:COM9	22:COM9	22:COM9	22:COM9

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
8856	3712	+ve	0.155	6.992	0.014	0.097	0.029	10.454
			28:COM1	34:CVOL3	28:COM1	20:COM7	20:COM7	20:COM7
			-1.514	0.000	-0.015	-0.044	-0.025	0.000
			22:COM9	-	22:COM9	30:COM1	30:COM1	-
	3819	-ve	0.155	0.000	0.014	0.097	0.033	1.246
			28:COM1	-	28:COM1	20:COM7	28:COM1	20:COM7
			-1.514	-2.926	-0.015	-0.044	-0.034	-0.217
			22:COM9	22:COM9	22:COM9	30:COM1	22:COM9	30:COM1
8857	3713	+ve	0.346	7.174	0.012	0.047	0.014	10.333
			28:COM1	34:CVOL3	16:COM3	20:COM7	24:COM1	34:CVOL3
			-0.935	0.000	-0.007	-0.019	-0.024	0.000
			22:COM9	-	26:COM1	30:COM1	18:COM5	-
	3818	-ve	0.346	0.000	0.012	0.047	0.025	0.320
			28:COM1	-	16:COM3	20:COM7	16:COM3	16:COM3
			-0.935	-2.797	-0.007	-0.019	-0.015	-0.063
			22:COM9	35:CVOL4	26:COM1	30:COM1	26:COM1	26:COM1
8858	3716	+ve	3.536	0.000	0.048	0.633	0.013	22.064
			20:COM7	-	16:COM3	20:COM7	24:COM1	34:CVOL3
			-2.026	-7.611	-0.012	-0.138	-0.050	0.000
			30:COM1	18:COM5	26:COM1	30:COM1	18:COM5	-
	3630	-ve	3.536	0.000	0.048	0.633	0.054	39.871
			20:COM7	-	16:COM3	20:COM7	16:COM3	16:COM3
			-2.026	-9.728	-0.012	-0.138	-0.014	0.000
			30:COM1	18:COM5	26:COM1	30:COM1	26:COM1	-
8859	3717	+ve	3.969	9.056	0.070	0.000	0.026	20.854
			20:COM7	16:COM3	20:COM7	-	28:COM1	16:COM3
			-2.020	0.000	-0.039	-0.749	-0.065	-5.616
			30:COM1	-	30:COM1	18:COM5	22:COM9	26:COM1
	3718	-ve	3.969	7.150	0.070	0.000	0.072	5.703
			20:COM7	16:COM3	20:COM7	-	20:COM7	24:COM1
			-2.020	0.000	-0.039	-0.749	-0.051	-8.542
			30:COM1	-	30:COM1	18:COM5	30:COM1	18:COM5
8860	3718	+ve	2.031	6.384	0.039	0.270	0.028	5.574
			28:COM1	16:COM3	20:COM7	24:COM1	28:COM1	24:COM1
			-2.013	-0.509	-0.036	-0.521	-0.035	-8.559
			22:COM9	26:COM1	30:COM1	18:COM5	22:COM9	18:COM5
	3719	-ve	2.031	4.478	0.039	0.270	0.042	0.000
			28:COM1	16:COM3	20:COM7	24:COM1	20:COM7	-
			-2.013	-1.938	-0.036	-0.521	-0.042	-7.983
			22:COM9	26:COM1	30:COM1	18:COM5	30:COM1	18:COM5
8861	3719	+ve	2.021	2.871	0.014	0.580	0.044	0.000
			28:COM1	16:COM3	24:COM1	16:COM3	20:COM7	-
			-3.790	-2.346	-0.044	-0.162	-0.013	-7.882
			22:COM9	26:COM1	18:COM5	26:COM1	30:COM1	18:COM5
	3720	-ve	2.021	1.433	0.014	0.580	0.015	0.574
			28:COM1	24:COM1	24:COM1	16:COM3	24:COM1	24:COM1
			-3.790	-4.243	-0.044	-0.162	-0.042	-9.513
			22:COM9	18:COM5	18:COM5	26:COM1	18:COM5	18:COM5

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
8862	3720	+ve	3.532	0.004	0.000	0.654	0.038	0.699
			28:COM15	24:COM11	-	34:CVOL3	20:COM7	24:COM11
			-6.052	-4.190	-0.030	0.000	0.000	-9.459
			22:COM9	18:COM5	22:COM9	-	-	18:COM5
	3721	-ve	3.532	0.000	0.000	0.654	0.001	8.821
			28:COM15	-	-	34:CVOL3	28:COM15	16:COM3
			-6.052	-6.096	-0.030	0.000	-0.027	-6.168
			22:COM9	18:COM5	22:COM9	-	22:COM9	26:COM13
8863	3721	+ve	5.015	0.000	0.096	1.265	0.016	8.921
			28:COM15	-	16:COM3	16:COM3	24:COM11	16:COM3
			-7.707	-5.077	-0.023	-0.189	-0.090	-6.028
			22:COM9	35:CVOL4	26:COM13	26:COM13	18:COM5	26:COM13
	3631	-ve	5.015	0.000	0.096	1.265	0.096	20.255
			28:COM15	-	16:COM3	16:COM3	16:COM3	16:COM3
			-7.707	-7.040	-0.023	-0.189	-0.030	0.000
			22:COM9	33:CVOL2	26:COM13	26:COM13	26:COM13	-
8864	3722	+ve	7.221	6.280	0.031	0.000	0.007	9.478
			28:COM15	16:COM3	20:COM7	-	28:COM15	16:COM3
			-12.663	0.000	-0.002	-0.601	-0.031	-4.182
			22:COM9	-	30:COM17	22:COM9	22:COM9	26:COM13
	3723	-ve	7.221	4.374	0.031	0.000	0.032	0.747
			28:COM15	16:COM3	20:COM7	-	20:COM7	24:COM11
			-12.663	0.000	-0.002	-0.601	0.000	-8.988
			22:COM9	-	30:COM17	22:COM9	-	18:COM5
8865	3723	+ve	8.063	4.665	0.028	0.230	0.021	0.612
			28:COM15	16:COM3	20:COM7	24:COM11	28:COM15	24:COM11
			-15.037	-0.221	-0.014	-0.637	-0.030	-9.021
			22:COM9	26:COM13	30:COM17	18:COM5	22:COM9	18:COM5
	3724	-ve	8.063	2.759	0.028	0.230	0.027	0.000
			28:COM15	16:COM3	20:COM7	24:COM11	16:COM3	-
			-15.037	-1.651	-0.014	-0.637	-0.009	-8.957
			22:COM9	26:COM13	30:COM17	18:COM5	26:COM13	35:CVOL4
8866	3724	+ve	9.057	1.926	0.010	0.524	0.037	0.000
			28:COM15	24:COM11	24:COM11	16:COM3	20:COM7	-
			-16.926	-2.382	-0.028	-0.299	-0.013	-8.973
			22:COM9	18:COM5	18:COM5	26:COM13	30:COM17	35:CVOL4
	3725	-ve	9.057	0.496	0.010	0.524	0.011	0.279
			28:COM15	24:COM11	24:COM11	16:COM3	24:COM11	24:COM11
			-16.926	-4.287	-0.028	-0.299	-0.021	-9.985
			22:COM9	18:COM5	18:COM5	26:COM13	18:COM5	18:COM5
8867	3725	+ve	10.172	0.000	0.000	0.586	0.039	0.400
			28:COM15	-	-	16:COM3	20:COM7	24:COM11
			-18.118	-4.304	-0.023	0.000	0.000	-9.973
			22:COM9	18:COM5	18:COM5	-	-	18:COM5
	3726	-ve	10.172	0.000	0.000	0.586	0.004	8.637
			28:COM15	-	-	16:COM3	28:COM15	16:COM3
			-18.118	-6.210	-0.023	0.000	-0.020	-5.235
			22:COM9	18:COM5	18:COM5	-	22:COM9	26:COM13

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
8868	3726	+ve	11.194	0.000	0.075	1.128	0.007	8.728
			28:COM15	-	16:COM3	16:COM3	24:COM11	16:COM3
			-18.763	-5.478	-0.009	-0.173	-0.076	-5.122
			22:COM9	35:CVOL4	26:COM13	26:COM13	18:COM5	26:COM13
	3632	-ve	11.194	0.000	0.075	1.128	0.071	20.423
			28:COM15	-	16:COM3	16:COM3	16:COM3	16:COM3
			-18.763	-7.435	-0.009	-0.173	-0.012	0.000
			22:COM9	33:CVOL2	26:COM13	26:COM13	26:COM13	-
8869	3727	+ve	11.393	6.401	0.026	0.000	0.002	10.067
			28:COM15	16:COM3	16:COM3	-	28:COM15	16:COM3
			-19.820	0.000	0.000	-0.625	-0.027	-4.136
			22:COM9	-	-	18:COM5	22:COM9	26:COM13
	3728	-ve	11.393	4.495	0.026	0.000	0.037	1.060
			28:COM15	16:COM3	16:COM3	-	20:COM7	24:COM11
			-19.820	0.000	0.000	-0.625	0.000	-8.952
			22:COM9	-	-	18:COM5	-	18:COM5
8870	3728	+ve	11.201	4.710	0.038	0.247	0.011	0.922
			28:COM15	16:COM3	16:COM3	24:COM11	24:COM11	24:COM11
			-20.123	-0.161	-0.009	-0.641	-0.033	-8.981
			22:COM9	26:COM13	26:COM13	18:COM5	18:COM5	18:COM5
	3729	-ve	11.201	2.804	0.038	0.247	0.042	0.000
			28:COM15	16:COM3	16:COM3	24:COM11	20:COM7	-
			-20.123	-1.590	-0.009	-0.641	-0.008	-8.874
			22:COM9	26:COM13	26:COM13	18:COM5	30:COM17	35:CVOL4
8871	3729	+ve	11.263	1.918	0.019	0.527	0.025	0.000
			28:COM15	24:COM11	24:COM11	16:COM3	16:COM3	-
			-19.794	-2.254	-0.023	-0.295	-0.016	-8.889
			22:COM9	18:COM5	18:COM5	26:COM13	26:COM13	35:CVOL4
	3730	-ve	11.263	0.488	0.019	0.527	0.024	0.000
			28:COM15	24:COM11	24:COM11	16:COM3	28:COM15	-
			-19.794	-4.160	-0.023	-0.295	-0.023	-9.724
			22:COM9	18:COM5	18:COM5	26:COM13	22:COM9	18:COM5
8872	3730	+ve	11.537	0.000	0.001	0.556	0.023	0.051
			28:COM15	-	28:COM15	16:COM3	16:COM3	24:COM11
			-18.812	-4.091	-0.023	0.000	0.000	-9.712
			22:COM9	18:COM5	22:COM9	-	-	18:COM5
	3731	-ve	11.537	0.000	0.001	0.556	0.011	7.863
			28:COM15	-	28:COM15	16:COM3	28:COM15	16:COM3
			-18.812	-5.997	-0.023	0.000	-0.027	-4.914
			22:COM9	18:COM5	22:COM9	-	22:COM9	26:COM13
8873	3731	+ve	11.776	0.000	0.071	1.121	0.004	7.939
			28:COM15	-	16:COM3	16:COM3	24:COM11	16:COM3
			-17.377	-5.324	-0.006	-0.262	-0.075	-4.799
			22:COM9	35:CVOL4	26:COM13	26:COM13	18:COM5	26:COM13
	3633	-ve	11.776	0.000	0.071	1.121	0.063	19.044
			28:COM15	-	16:COM3	16:COM3	16:COM3	16:COM3
			-17.377	-7.266	-0.006	-0.262	-0.009	0.000
			22:COM9	33:CVOL2	26:COM13	26:COM13	26:COM13	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
8874	3732	+ve	8.270	6.372	0.031	0.000	0.000	10.136
			28:COM15	16:COM3	20:COM7	-	-	16:COM3
			-12.876	0.000	0.000	-0.672	-0.028	-5.632
			22:COM9	-	-	34:CVOL3	22:COM9	26:COM13
	3733	-ve	8.270	4.467	0.031	0.000	0.044	1.192
			28:COM15	16:COM3	20:COM7	-	20:COM7	24:COM11
			-12.876	0.000	0.000	-0.672	0.000	-8.969
			22:COM9	-	-	34:CVOL3	-	18:COM5
8875	3733	+ve	5.913	4.739	0.059	0.139	0.022	1.053
			28:COM15	16:COM3	20:COM7	24:COM11	24:COM11	24:COM11
			-9.912	-1.182	-0.022	-0.670	-0.055	-9.032
			22:COM9	26:COM13	30:COM17	18:COM5	18:COM5	18:COM5
	3734	-ve	5.913	2.833	0.059	0.139	0.061	0.000
			28:COM15	16:COM3	20:COM7	24:COM11	20:COM7	-
			-9.912	-2.611	-0.022	-0.670	-0.023	-8.215
			22:COM9	26:COM13	30:COM17	18:COM5	30:COM17	18:COM5
8876	3734	+ve	3.794	2.271	0.048	0.468	0.047	0.000
			28:COM15	24:COM11	28:COM15	16:COM3	20:COM7	-
			-6.184	-3.983	-0.044	-0.330	-0.051	-8.330
			22:COM9	18:COM5	22:COM9	26:COM13	30:COM17	18:COM5
	3735	-ve	3.794	0.842	0.048	0.468	0.042	4.776
			28:COM15	24:COM11	28:COM15	16:COM3	28:COM15	24:COM11
			-6.184	-5.889	-0.044	-0.330	-0.040	-9.904
			22:COM9	18:COM5	22:COM9	26:COM13	22:COM9	18:COM5
8877	3735	+ve	2.675	0.000	0.034	0.735	0.069	4.902
			20:COM7	-	28:COM15	16:COM3	20:COM7	24:COM11
			-2.877	-6.729	-0.060	0.000	-0.050	-9.909
			30:COM17	18:COM5	22:COM9	-	30:COM17	18:COM5
	3736	-ve	2.675	0.000	0.034	0.735	0.017	18.622
			20:COM7	-	28:COM15	16:COM3	28:COM15	16:COM3
			-2.877	-8.635	-0.060	0.000	-0.049	-6.965
			30:COM17	18:COM5	22:COM9	-	22:COM9	26:COM13
8878	3736	+ve	2.834	0.000	0.059	1.020	0.009	18.801
			20:COM7	-	20:COM7	34:CVOL3	28:COM15	16:COM3
			-1.287	-8.464	-0.010	0.000	-0.070	-6.886
			30:COM17	18:COM5	30:COM17	-	22:COM9	26:COM13
	3634	-ve	2.834	0.000	0.059	1.020	0.052	37.108
			20:COM7	-	20:COM7	34:CVOL3	16:COM3	16:COM3
			-1.287	-10.369	-0.010	0.000	-0.016	-0.186
			30:COM17	18:COM5	30:COM17	-	26:COM13	26:COM13
8879	3737	+ve	2.094	7.621	0.065	0.432	0.003	20.649
			16:COM3	16:COM3	20:COM7	28:COM15	28:COM15	32:CVOL1
			-1.918	0.000	0.000	-0.741	-0.063	0.000
			26:COM13	-	-	22:COM9	22:COM9	-
	3738	-ve	2.094	5.608	0.065	0.432	0.074	7.652
			16:COM3	16:COM3	20:COM7	28:COM15	20:COM7	32:CVOL1
			-1.918	0.000	0.000	-0.741	0.000	0.000
			26:COM13	-	-	22:COM9	-	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
8880	3739	+ve	4.691	0.158	0.023	0.000	0.016	12.361
			24:COM1	28:COM1	16:COM3	-	24:COM1	16:COM3
			-7.204	-4.116	-0.018	-0.471	-0.016	-9.167
			18:COM5	22:COM9	26:COM1	18:COM5	18:COM5	26:COM1
	3653	-ve	4.691	0.000	0.023	0.000	0.029	15.057
			24:COM1	-	16:COM3	-	16:COM3	16:COM3
			-7.204	-4.791	-0.018	-0.471	-0.021	-2.992
			18:COM5	22:COM9	26:COM1	18:COM5	26:COM1	26:COM1
8881	3740	+ve	4.332	0.770	0.035	0.000	0.018	3.215
			24:COM1	24:COM1	16:COM3	-	24:COM1	24:COM1
			-7.750	-4.928	-0.016	-0.381	-0.039	-9.721
			18:COM5	18:COM5	26:COM1	22:COM9	18:COM5	18:COM5
	3739	-ve	4.332	0.264	0.035	0.000	0.029	12.014
			24:COM1	24:COM1	16:COM3	-	16:COM3	16:COM3
			-7.750	-5.602	-0.016	-0.381	-0.014	-9.261
			18:COM5	18:COM5	26:COM1	22:COM9	26:COM1	26:COM1
8882	3741	+ve	3.693	2.607	0.031	0.010	0.024	0.000
			24:COM1	24:COM1	16:COM3	24:COM1	24:COM1	-
			-7.493	-3.420	-0.025	-0.148	-0.029	-6.368
			18:COM5	18:COM5	26:COM1	18:COM5	18:COM5	35:CVOL
	3740	-ve	3.693	2.101	0.031	0.010	0.031	3.067
			24:COM1	24:COM1	16:COM3	24:COM1	16:COM3	24:COM1
			-7.493	-4.095	-0.025	-0.148	-0.025	-9.793
			18:COM5	18:COM5	26:COM1	18:COM5	26:COM1	18:COM5
8883	3742	+ve	3.326	4.777	0.017	0.151	0.038	3.861
			24:COM1	16:COM3	24:COM1	16:COM3	16:COM3	24:COM1
			-6.636	-1.655	-0.038	0.000	-0.017	-8.382
			18:COM5	26:COM1	18:COM5	-	26:COM1	18:COM5
	3741	-ve	3.326	4.103	0.017	0.151	0.017	0.000
			24:COM1	16:COM3	24:COM1	16:COM3	24:COM1	-
			-6.636	-2.161	-0.038	0.000	-0.036	-6.366
			18:COM5	26:COM1	18:COM5	-	18:COM5	35:CVOL
8884	3743	+ve	3.655	6.153	0.005	0.376	0.038	14.427
			28:COM1	16:COM3	24:COM1	16:COM3	16:COM3	16:COM3
			-5.416	0.000	-0.043	0.000	-0.003	-7.763
			22:COM9	-	18:COM5	-	26:COM1	26:COM1
	3742	-ve	3.655	5.479	0.005	0.376	0.008	4.004
			28:COM1	16:COM3	24:COM1	16:COM3	24:COM1	24:COM1
			-5.416	-0.456	-0.043	0.000	-0.045	-8.286
			22:COM9	26:COM1	18:COM5	-	18:COM5	18:COM5
8885	3743	+ve	1.280	2.215	0.000	0.000	0.201	0.393
			24:COM1	24:COM1	-	-	16:COM3	24:COM1
			-5.212	-5.404	-0.535	-0.271	0.000	-0.951
			18:COM5	18:COM5	18:COM5	18:COM5	-	18:COM5
	3681	-ve	1.280	1.466	0.000	0.000	0.000	3.592
			24:COM1	24:COM1	-	-	-	16:COM3
			-5.212	-6.703	-0.535	-0.271	-0.201	-0.990
			18:COM5	18:COM5	18:COM5	18:COM5	22:COM9	26:COM1

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
8886	3742	+ve	0.903	1.716	0.000	0.000	0.145	0.317
			16:COM3	16:COM3	-	-	16:COM3	16:COM3
			-0.392	0.000	-0.360	-0.157	0.000	0.000
			26:COM1	-	18:COM5	18:COM5	-	-
	3682	-ve	0.903	0.450	0.000	0.000	0.000	0.223
			16:COM3	24:COM1	-	-	-	24:COM1
			-0.392	-0.598	-0.360	-0.157	-0.125	-0.491
			26:COM1	18:COM5	18:COM5	18:COM5	18:COM5	18:COM5
8887	3741	+ve	1.078	1.997	0.084	0.027	0.040	0.362
			16:COM3	35:CVOL4	24:COM1	24:COM1	16:COM3	20:COM7
			0.000	0.000	-0.088	-0.031	-0.037	0.000
			-	-	18:COM5	18:COM5	26:COM1	-
	3683	-ve	1.078	0.558	0.084	0.027	0.026	0.000
			16:COM3	20:COM7	24:COM1	24:COM1	24:COM1	-
			0.000	0.000	-0.088	-0.031	-0.026	-0.583
			-	-	18:COM5	18:COM5	18:COM5	35:CVOL4
8888	3740	+ve	1.422	1.916	0.365	0.156	0.008	0.371
			16:COM3	16:COM3	16:COM3	16:COM3	24:COM1	16:COM3
			-0.576	0.000	-0.004	0.000	-0.146	0.000
			26:COM1	-	26:COM1	-	18:COM5	-
	3684	-ve	1.422	0.617	0.365	0.156	0.128	0.160
			16:COM3	16:COM3	16:COM3	16:COM3	16:COM3	24:COM1
			-0.576	-0.502	-0.004	0.000	0.000	-0.586
			26:COM1	26:COM1	26:COM1	-	-	18:COM5
8889	3739	+ve	2.589	3.355	0.564	0.281	0.000	0.635
			24:COM1	24:COM1	20:COM7	20:COM7	-	24:COM1
			-4.826	-4.735	0.000	0.000	-0.210	-0.841
			18:COM5	18:COM5	-	-	22:COM9	18:COM5
	3685	-ve	2.589	2.606	0.564	0.281	0.212	3.198
			24:COM1	24:COM1	20:COM7	20:COM7	20:COM7	16:COM3
			-4.826	-6.034	0.000	0.000	0.000	-1.601
			18:COM5	18:COM5	-	-	-	26:COM1
8890	3744	+ve	9.968	0.000	0.883	7.754	0.874	44.371
			28:COM1	-	28:COM1	16:COM3	20:COM7	16:COM3
			-18.230	-39.204	-1.016	-0.249	-0.786	-37.220
			22:COM9	18:COM5	22:COM9	26:COM1	30:COM1	26:COM1
	3598	-ve	9.968	0.000	0.883	7.754	0.939	123.006
			28:COM1	-	28:COM1	16:COM3	28:COM1	16:COM3
			-18.230	-41.453	-1.016	-0.249	-1.111	-28.720
			22:COM9	18:COM5	22:COM9	26:COM1	22:COM9	26:COM1
8891	3745	+ve	7.906	2.668	0.810	4.471	0.487	2.536
			28:COM1	24:COM1	28:COM1	20:COM7	20:COM7	24:COM1
			-15.713	-25.454	-0.566	0.000	-0.593	-43.401
			22:COM9	18:COM5	22:COM9	-	30:COM1	18:COM5
	3744	-ve	7.906	0.981	0.810	4.471	1.012	44.479
			28:COM1	24:COM1	28:COM1	20:COM7	20:COM7	16:COM3
			-15.713	-27.703	-0.566	0.000	-0.641	-37.075
			22:COM9	18:COM5	22:COM9	-	30:COM1	26:COM1

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
8892	3746	+ve	6.597	8.818	0.515	2.731	0.292	0.000
			28:COM15	24:COM11	20:COM7	16:COM3	28:COM15	-
			-12.163	-12.902	-0.298	-0.393	-0.524	-36.519
			22:COM9	18:COM5	30:COM17	26:COM13	22:COM9	35:CVOL4
	3745	-ve	6.597	7.131	0.515	2.731	0.487	2.660
			28:COM15	24:COM11	20:COM7	16:COM3	20:COM7	24:COM17
			-12.163	-15.151	-0.298	-0.393	-0.296	-43.349
			22:COM9	18:COM5	30:COM17	26:COM13	30:COM17	18:COM5
8893	3747	+ve	4.777	18.507	0.476	0.959	0.017	10.413
			28:COM15	16:COM3	16:COM3	24:COM17	24:COM11	24:COM17
			-8.557	-4.670	0.000	-2.816	-0.518	-39.764
			22:COM9	26:COM13	-	18:COM5	18:COM5	18:COM5
	3746	-ve	4.777	16.258	0.476	0.959	0.441	0.000
			28:COM15	16:COM3	16:COM3	24:COM17	20:COM7	-
			-8.557	-6.356	0.000	-2.816	-0.010	-36.524
			22:COM9	26:COM13	-	18:COM5	30:COM17	35:CVOL4
8894	3748	+ve	3.798	30.136	1.098	0.000	0.213	59.630
			28:COM15	16:COM3	20:COM7	-	28:COM15	16:COM3
			-7.372	0.000	-0.369	-4.688	-1.146	-30.989
			22:COM9	-	30:COM17	18:COM5	22:COM9	26:COM13
	3747	-ve	3.798	27.887	1.098	0.000	1.017	10.282
			28:COM15	16:COM3	20:COM7	-	20:COM7	24:COM17
			-7.372	-0.023	-0.369	-4.688	-0.530	-39.812
			22:COM9	26:COM13	30:COM17	18:COM5	30:COM17	18:COM5
8895	3749	+ve	18.082	0.000	0.203	6.812	0.721	43.029
			28:COM15	-	28:COM15	20:COM7	20:COM7	16:COM3
			-31.486	-39.264	-0.925	-0.613	-0.168	-35.571
			22:COM9	18:COM5	22:COM9	30:COM17	30:COM17	26:COM13
	3599	-ve	18.082	0.000	0.203	6.812	0.247	121.758
			28:COM15	-	28:COM15	20:COM7	28:COM15	16:COM3
			-31.486	-41.513	-0.925	-0.613	-1.103	-23.298
			22:COM9	18:COM5	22:COM9	30:COM17	22:COM9	26:COM13
8896	3750	+ve	17.146	0.937	0.449	3.650	0.159	1.648
			28:COM15	24:COM11	20:COM7	20:COM7	20:COM7	24:COM17
			-30.432	-25.514	-0.193	0.000	-0.200	-45.694
			22:COM9	18:COM5	30:COM17	-	30:COM17	18:COM5
	3749	-ve	17.146	0.000	0.449	3.650	0.731	43.155
			28:COM15	-	20:COM7	20:COM7	20:COM7	16:COM3
			-30.432	-27.763	-0.193	0.000	-0.272	-35.440
			22:COM9	18:COM5	30:COM17	-	30:COM17	26:COM13
8897	3751	+ve	16.487	7.402	0.176	2.238	0.129	0.000
			28:COM15	24:COM11	28:COM15	16:COM3	20:COM7	-
			-28.018	-12.913	-0.139	-1.031	-0.095	-39.879
			22:COM9	18:COM5	22:COM9	26:COM13	30:COM17	34:CVOL3
	3750	-ve	16.487	5.715	0.176	2.238	0.305	1.793
			28:COM15	24:COM11	28:COM15	16:COM3	20:COM7	24:COM17
			-28.018	-15.162	-0.139	-1.031	-0.199	-45.658
			22:COM9	18:COM5	22:COM9	26:COM13	30:COM17	18:COM5

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
8898	3752	+ve	15.307	17.545	0.274	0.693	0.055	4.244
			28:COM15	16:COM3	20:COM7	24:COM17	28:COM15	24:COM17
			-26.101	-4.380	-0.052	-2.818	-0.224	-40.876
			22:COM9	26:COM13	30:COM17	18:COM5	22:COM9	18:COM5
	3751	-ve	15.307	15.296	0.274	0.693	0.362	0.000
			28:COM15	16:COM3	20:COM7	24:COM17	20:COM7	-
			-26.101	-6.066	-0.052	-2.818	-0.098	-39.894
			22:COM9	26:COM13	30:COM17	18:COM5	30:COM17	34:CVOL3
8899	3753	+ve	13.770	30.502	0.508	0.000	0.199	52.742
			28:COM15	16:COM3	20:COM7	-	28:COM15	16:COM3
			-24.771	0.000	-0.144	-3.818	-0.511	-29.861
			22:COM9	-	30:COM17	22:COM9	22:COM9	26:COM13
	3752	-ve	13.770	28.253	0.508	0.000	0.503	4.087
			28:COM15	16:COM3	20:COM7	-	20:COM7	24:COM17
			-24.771	0.000	-0.144	-3.818	-0.105	-40.927
			22:COM9	-	30:COM17	22:COM9	30:COM17	18:COM5
8900	3754	+ve	17.544	0.000	0.262	6.865	1.194	43.472
			28:COM15	-	28:COM15	20:COM7	20:COM7	16:COM3
			-31.585	-39.433	-1.362	-1.082	-0.277	-34.770
			22:COM9	18:COM5	22:COM9	30:COM17	30:COM17	26:COM13
	3600	-ve	17.544	0.000	0.262	6.865	0.249	122.528
			28:COM15	-	28:COM15	20:COM7	28:COM15	16:COM3
			-31.585	-41.682	-1.362	-1.082	-1.477	-22.239
			22:COM9	18:COM5	22:COM9	30:COM17	22:COM9	26:COM13
8901	3755	+ve	17.911	0.826	0.091	3.642	0.339	1.714
			28:COM15	24:COM11	24:COM11	20:COM7	20:COM7	24:COM17
			-33.881	-25.624	-0.302	0.000	-0.054	-44.958
			22:COM9	18:COM5	18:COM5	-	30:COM17	18:COM5
	3754	-ve	17.911	0.000	0.091	3.642	0.185	43.584
			28:COM15	-	24:COM11	20:COM7	28:COM15	16:COM3
			-33.881	-27.873	-0.302	0.000	-0.312	-34.635
			22:COM9	18:COM5	18:COM5	-	22:COM9	26:COM13
8902	3756	+ve	18.543	7.286	0.042	2.226	0.212	0.000
			28:COM15	24:COM11	24:COM11	16:COM3	20:COM7	-
			-34.132	-12.956	-0.156	-1.031	-0.056	-39.608
			22:COM9	18:COM5	18:COM5	26:COM13	30:COM17	34:CVOL3
	3755	-ve	18.543	5.600	0.042	2.226	0.165	1.855
			28:COM15	24:COM11	24:COM11	16:COM3	28:COM15	24:COM17
			-34.132	-15.205	-0.156	-1.031	-0.231	-44.922
			22:COM9	18:COM5	18:COM5	26:COM13	22:COM9	18:COM5
8903	3757	+ve	18.817	17.358	0.171	0.798	0.093	4.330
			28:COM15	16:COM3	16:COM3	24:COM17	28:COM15	24:COM17
			-35.048	-4.339	-0.021	-2.898	-0.196	-40.758
			22:COM9	26:COM13	26:COM13	18:COM5	22:COM9	18:COM5
	3756	-ve	18.817	15.109	0.171	0.798	0.276	0.000
			28:COM15	16:COM3	16:COM3	24:COM17	20:COM7	-
			-35.048	-6.025	-0.021	-2.898	-0.085	-39.623
			22:COM9	26:COM13	26:COM13	18:COM5	30:COM17	34:CVOL3

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
8904	3758	+ve	18.570	30.262	0.268	0.000	0.202	52.328
			28:COM15	16:COM3	16:COM3	-	28:COM15	16:COM3
			-36.107	0.000	-0.084	-3.832	-0.255	-29.602
			22:COM9	-	26:COM13	22:COM9	22:COM9	26:COM13
	3757	-ve	18.570	28.013	0.268	0.000	0.361	4.170
			28:COM15	16:COM3	16:COM3	-	20:COM7	24:COM17
			-36.107	0.000	-0.084	-3.832	-0.056	-40.806
			22:COM9	-	26:COM13	22:COM9	30:COM17	18:COM5
8905	3759	+ve	7.321	0.000	0.647	7.316	0.874	51.316
			28:COM15	-	28:COM15	20:COM7	20:COM7	16:COM3
			-12.232	-38.966	-1.039	0.000	-0.506	-35.810
			22:COM9	18:COM5	22:COM9	-	30:COM17	26:COM13
	3601	-ve	7.321	0.000	0.647	7.316	0.834	129.485
			28:COM15	-	28:COM15	20:COM7	28:COM15	16:COM3
			-12.232	-41.214	-1.039	0.000	-1.232	-25.152
			22:COM9	18:COM5	22:COM9	-	22:COM9	26:COM13
8906	3760	+ve	9.633	1.208	0.249	4.729	0.886	7.493
			28:COM15	24:COM11	28:COM15	16:COM3	20:COM7	24:COM17
			-17.506	-26.152	-1.007	0.000	-0.284	-44.199
			22:COM9	18:COM5	22:COM9	-	30:COM17	18:COM5
	3759	-ve	9.633	0.000	0.249	4.729	0.304	51.478
			28:COM15	-	28:COM15	16:COM3	28:COM15	16:COM3
			-17.506	-28.401	-1.007	0.000	-1.179	-35.707
			22:COM9	18:COM5	22:COM9	-	22:COM9	26:COM13
8907	3761	+ve	12.125	7.491	0.185	2.510	0.604	0.000
			28:COM15	24:COM11	28:COM15	16:COM3	20:COM7	-
			-20.855	-14.387	-0.639	-1.334	-0.189	-37.388
			22:COM9	18:COM5	22:COM9	26:COM13	30:COM17	35:CVOL4
	3760	-ve	12.125	5.805	0.185	2.510	0.187	7.616
			28:COM15	24:COM11	28:COM15	16:COM3	28:COM15	24:COM17
			-20.855	-16.636	-0.639	-1.334	-0.657	-44.161
			22:COM9	18:COM5	22:COM9	26:COM13	22:COM9	18:COM5
8908	3762	+ve	14.510	17.223	0.396	0.325	0.545	4.765
			28:COM15	16:COM3	28:COM15	24:COM17	20:COM7	24:COM17
			-24.906	-6.006	-0.549	-3.240	-0.410	-40.583
			22:COM9	26:COM13	22:COM9	18:COM5	30:COM17	18:COM5
	3761	-ve	14.510	14.974	0.396	0.325	0.371	0.000
			28:COM15	16:COM3	28:COM15	24:COM17	28:COM15	-
			-24.906	-7.693	-0.549	-3.240	-0.534	-37.403
			22:COM9	26:COM13	22:COM9	18:COM5	22:COM9	35:CVOL4
8909	3763	+ve	15.888	30.040	0.616	0.000	0.996	52.494
			28:COM15	16:COM3	20:COM7	-	20:COM7	16:COM3
			-28.424	0.000	-0.786	-4.618	-0.706	-33.306
			22:COM9	-	30:COM17	22:COM9	30:COM17	26:COM13
	3762	-ve	15.888	27.791	0.616	0.000	0.507	4.630
			28:COM15	16:COM3	20:COM7	-	20:COM7	24:COM17
			-28.424	-1.448	-0.786	-4.618	-0.548	-40.648
			22:COM9	26:COM13	30:COM17	22:COM9	30:COM17	18:COM5

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
8910	3764	+ve	5.704	0.000	0.730	7.188	1.176	47.661
			20:COM7	-	24:COM11	20:COM7	20:COM7	20:COM7
			-5.716	-40.713	-0.908	-2.228	-1.025	-34.362
			30:COM17	22:COM9	18:COM5	30:COM17	30:COM17	30:COM17
	3602	-ve	5.704	0.000	0.730	7.188	0.517	130.653
			20:COM7	-	24:COM11	20:COM7	24:COM11	20:COM7
			-5.716	-43.000	-0.908	-2.228	-0.717	-29.230
			30:COM17	22:COM9	18:COM5	30:COM17	18:COM5	30:COM17
8911	3765	+ve	4.379	3.399	2.787	7.662	4.118	0.438
			20:COM7	28:COM15	28:COM15	20:COM7	20:COM7	28:COM15
			-6.553	-27.139	-3.552	-3.686	-3.129	-37.933
			30:COM17	22:COM9	22:COM9	30:COM17	30:COM17	22:COM9
	3764	-ve	4.379	1.684	2.787	7.662	2.399	47.725
			20:COM7	28:COM15	28:COM15	20:COM7	28:COM15	20:COM7
			-6.553	-29.426	-3.552	-3.686	-2.927	-34.168
			30:COM17	22:COM9	22:COM9	30:COM17	22:COM9	30:COM17
8912	3766	+ve	4.973	6.738	2.715	5.120	3.522	0.000
			20:COM7	28:COM15	28:COM15	20:COM7	20:COM7	-
			-6.299	-14.266	-3.819	-2.788	-2.326	-38.949
			30:COM17	22:COM9	22:COM9	30:COM17	30:COM17	22:COM9
	3765	-ve	4.973	5.023	2.715	5.120	3.061	0.475
			20:COM7	28:COM15	28:COM15	20:COM7	28:COM15	28:COM15
			-6.299	-16.553	-3.819	-2.788	-4.054	-37.725
			30:COM17	22:COM9	22:COM9	30:COM17	22:COM9	22:COM9
8913	3767	+ve	3.930	10.431	0.558	0.598	1.953	0.000
			20:COM7	20:COM7	24:COM11	28:COM15	20:COM7	-
			-5.941	-3.384	-1.131	-1.151	-1.505	-45.015
			30:COM17	30:COM17	18:COM5	22:COM9	30:COM17	22:COM9
	3766	-ve	3.930	8.144	0.558	0.598	0.046	0.000
			20:COM7	20:COM7	24:COM11	28:COM15	28:COM15	-
			-5.941	-5.099	-1.131	-1.151	-0.735	-38.843
			30:COM17	30:COM17	18:COM5	22:COM9	22:COM9	35:CVOL4
8914	3768	+ve	5.211	17.780	2.164	2.521	3.374	22.557
			20:COM7	20:COM7	28:COM15	28:COM15	20:COM7	28:COM15
			-5.042	0.000	-3.495	-5.415	-1.591	-28.416
			30:COM17	-	22:COM9	22:COM9	30:COM17	22:COM9
	3767	-ve	5.211	15.493	2.164	2.521	2.703	0.000
			20:COM7	20:COM7	28:COM15	28:COM15	28:COM15	-
			-5.042	0.000	-3.495	-5.415	-3.560	-44.878
			30:COM17	-	22:COM9	22:COM9	22:COM9	22:COM9
8915	3769	+ve	13.991	28.231	0.000	3.032	2.723	73.726
			20:COM7	20:COM7	-	28:COM15	32:CVOL1	20:COM7
			-1.828	0.000	-2.429	-6.936	0.000	-4.808
			30:COM17	-	32:CVOL1	22:COM9	-	30:COM17
	3768	-ve	13.991	25.944	0.000	3.032	0.000	22.242
			20:COM7	20:COM7	-	28:COM15	-	28:COM15
			-1.828	0.000	-2.429	-6.936	-2.707	-28.526
			30:COM17	-	32:CVOL1	22:COM9	22:COM9	22:COM9

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
8916	3770	+ve	5.924	15.407	1.257	2.299	0.506	3.889
			20:COM7	16:COM3	24:COM11	24:COM11	16:COM3	24:COM11
			-4.720	-3.015	-1.258	-9.452	-0.630	-9.898
			30:COM17	26:COM13	18:COM5	18:COM5	26:COM13	18:COM5
	3884	-ve	5.924	14.108	1.257	2.299	0.815	0.000
			20:COM7	16:COM3	24:COM11	24:COM11	24:COM11	-
			-4.720	-3.989	-1.258	-9.452	-0.941	-14.393
			30:COM17	26:COM13	18:COM5	18:COM5	18:COM5	22:COM9
8917	3771	+ve	6.194	28.772	1.513	2.297	0.974	54.196
			20:COM7	16:COM3	16:COM3	24:COM11	24:COM11	16:COM3
			-5.758	0.000	-0.797	-7.041	-1.614	-3.828
			30:COM17	-	26:COM13	18:COM5	18:COM5	26:COM13
	3770	-ve	6.194	26.606	1.513	2.297	1.233	3.697
			20:COM7	16:COM3	16:COM3	24:COM11	16:COM3	24:COM11
			-5.758	0.000	-0.797	-7.041	-0.527	-9.985
			30:COM17	-	26:COM13	18:COM5	26:COM13	18:COM5
8918	3772	+ve	21.881	0.000	0.000	0.000	0.978	41.891
			20:COM7	-	-	-	16:COM3	16:COM3
			-17.290	-34.507	-1.098	-10.110	0.000	-27.064
			30:COM17	18:COM5	18:COM5	18:COM5	-	26:COM13
	3604	-ve	21.881	0.000	0.000	0.000	0.009	111.535
			20:COM7	-	-	-	24:COM11	16:COM3
			-17.290	-36.761	-1.098	-10.110	-1.184	-16.540
			30:COM17	18:COM5	18:COM5	18:COM5	18:COM5	26:COM13
8919	3773	+ve	20.021	0.000	0.000	0.000	0.482	5.450
			20:COM7	-	-	-	20:COM7	24:COM11
			-17.016	-21.521	-0.375	-6.192	0.000	-38.476
			30:COM17	18:COM5	22:COM9	34:CVOL3	-	18:COM5
	3772	-ve	20.021	0.000	0.000	0.000	0.007	41.978
			20:COM7	-	-	-	28:COM15	16:COM3
			-17.016	-23.776	-0.375	-6.192	-0.321	-26.990
			30:COM17	18:COM5	22:COM9	34:CVOL3	22:COM9	26:COM13
8920	3774	+ve	18.587	3.241	0.024	0.000	0.286	0.000
			20:COM7	24:COM11	24:COM11	-	20:COM7	-
			-15.174	-11.945	-0.195	-3.678	-0.060	-37.960
			30:COM17	18:COM5	18:COM5	18:COM5	30:COM17	18:COM5
	3773	-ve	18.587	1.550	0.024	0.000	0.087	5.513
			20:COM7	24:COM11	24:COM11	-	24:COM11	24:COM11
			-15.174	-14.200	-0.195	-3.678	-0.194	-38.504
			30:COM17	18:COM5	18:COM5	18:COM5	18:COM5	18:COM5
8921	3775	+ve	16.683	9.414	0.045	2.430	0.195	0.000
			20:COM7	16:COM3	24:COM11	16:COM3	20:COM7	-
			-13.391	-4.782	-0.128	-0.926	-0.041	-37.140
			30:COM17	26:COM13	18:COM5	26:COM13	30:COM17	18:COM5
	3774	-ve	16.683	7.159	0.045	2.430	0.134	0.000
			20:COM7	16:COM3	24:COM11	16:COM3	24:COM11	-
			-13.391	-6.474	-0.128	-0.926	-0.142	-38.048
			30:COM17	26:COM13	18:COM5	26:COM13	18:COM5	18:COM5

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
8922	3776	+ve	14.646	18.117	0.346	6.122	0.157	13.548
			20:COM7	16:COM3	20:COM7	16:COM3	28:COM15	24:COM11
			-11.498	0.000	-0.130	0.000	-0.299	-29.787
			30:COM17	-	30:COM17	-	22:COM9	18:COM5
	3775	-ve	14.646	15.862	0.346	6.122	0.394	0.000
			20:COM7	16:COM3	20:COM7	16:COM3	20:COM7	-
			-11.498	-1.145	-0.130	0.000	-0.114	-37.200
			30:COM17	26:COM13	30:COM17	-	30:COM17	18:COM5
8923	3777	+ve	12.242	25.867	0.542	4.118	0.467	59.191
			20:COM7	16:COM3	20:COM7	20:COM7	28:COM15	16:COM3
			-9.583	0.000	-0.403	0.000	-0.535	-19.563
			30:COM17	-	30:COM17	-	22:COM9	26:COM13
	3776	-ve	12.242	23.612	0.542	4.118	0.533	12.886
			20:COM7	16:COM3	20:COM7	20:COM7	20:COM7	24:COM11
			-9.583	0.000	-0.403	0.000	-0.329	-28.470
			30:COM17	-	30:COM17	-	30:COM17	18:COM5
8924	3778	+ve	20.851	0.000	0.539	0.000	1.620	53.017
			20:COM7	-	28:COM15	-	20:COM7	16:COM3
			-18.313	-36.690	-1.603	-8.399	-0.674	-30.585
			30:COM17	18:COM5	22:COM9	22:COM9	30:COM17	26:COM13
	3605	-ve	20.851	0.000	0.539	0.000	0.411	127.610
			20:COM7	-	28:COM15	-	28:COM15	16:COM3
			-18.313	-38.964	-1.603	-8.399	-1.563	-19.341
			30:COM17	18:COM5	22:COM9	22:COM9	22:COM9	26:COM13
8925	3779	+ve	21.686	0.000	1.154	0.000	1.216	10.738
			20:COM7	-	24:COM11	-	16:COM3	24:COM11
			-20.105	-23.765	-1.475	-7.101	-0.864	-40.399
			30:COM17	18:COM5	18:COM5	18:COM5	26:COM13	18:COM5
	3778	-ve	21.686	0.000	1.154	0.000	1.416	53.122
			20:COM7	-	24:COM11	-	24:COM11	16:COM3
			-20.105	-26.041	-1.475	-7.101	-1.696	-30.472
			30:COM17	18:COM5	18:COM5	18:COM5	18:COM5	26:COM13
8926	3780	+ve	23.244	3.600	0.455	0.111	0.436	0.000
			20:COM7	24:COM11	24:COM11	24:COM11	16:COM3	-
			-20.652	-14.109	-0.490	-5.186	-0.390	-40.415
			30:COM17	18:COM5	18:COM5	18:COM5	26:COM13	18:COM5
	3779	-ve	23.244	1.894	0.455	0.111	0.519	10.832
			20:COM7	24:COM11	24:COM11	24:COM11	24:COM11	24:COM11
			-20.652	-16.385	-0.490	-5.186	-0.542	-40.345
			30:COM17	18:COM5	18:COM5	18:COM5	18:COM5	18:COM5
8927	3781	+ve	23.712	8.679	0.221	1.673	0.206	0.000
			20:COM7	16:COM3	16:COM3	24:COM11	28:COM15	-
			-20.597	-6.281	-0.197	-1.926	-0.226	-39.812
			30:COM17	26:COM13	26:COM13	18:COM5	22:COM9	18:COM5
	3780	-ve	23.712	6.619	0.221	1.673	0.266	0.000
			20:COM7	24:COM11	16:COM3	24:COM11	16:COM3	-
			-20.597	-8.202	-0.197	-1.926	-0.238	-40.423
			30:COM17	18:COM5	26:COM13	18:COM5	26:COM13	18:COM5

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
8928	3782	+ve	23.534	16.743	0.191	4.160	0.135	11.406
			20:COM7	16:COM3	16:COM3	16:COM3	28:COM15	24:COM11
			-20.280	-1.331	-0.113	0.000	-0.196	-38.275
			30:COM17	26:COM13	26:COM13	-	22:COM9	18:COM5
	3781	-ve	23.534	14.468	0.191	4.160	0.257	0.000
			20:COM7	16:COM3	16:COM3	16:COM3	16:COM3	-
			-20.280	-3.037	-0.113	0.000	-0.165	-39.782
			30:COM17	26:COM13	26:COM13	-	26:COM13	18:COM5
8929	3783	+ve	22.781	26.740	0.423	5.952	0.066	55.516
			20:COM7	16:COM3	16:COM3	35:CVOL4	28:COM15	16:COM3
			-20.080	0.000	-0.077	0.000	-0.351	-27.530
			30:COM17	-	26:COM13	-	22:COM9	26:COM13
	3782	-ve	22.781	24.465	0.423	5.952	0.517	11.283
			20:COM7	16:COM3	16:COM3	35:CVOL4	16:COM3	24:COM11
			-20.080	0.000	-0.077	0.000	-0.121	-38.301
			30:COM17	-	26:COM13	-	26:COM13	18:COM5
8930	3784	+ve	6.408	0.000	1.066	5.987	2.922	24.941
			20:COM7	-	24:COM11	24:COM11	16:COM3	20:COM7
			-6.100	-25.942	-2.557	-6.401	-1.375	-5.224
			30:COM17	18:COM5	18:COM5	18:COM5	26:COM13	30:COM17
	3607	-ve	6.408	0.000	1.066	5.987	1.001	77.703
			20:COM7	-	24:COM11	24:COM11	28:COM15	16:COM3
			-6.100	-28.216	-2.557	-6.401	-2.394	0.000
			30:COM17	18:COM5	18:COM5	18:COM5	22:COM9	-
8931	3785	+ve	10.421	0.000	0.334	5.270	0.658	0.000
			20:COM7	-	24:COM11	24:COM11	16:COM3	-
			-7.914	-14.644	-0.862	-4.580	-0.277	-23.669
			30:COM17	22:COM9	18:COM5	18:COM5	26:COM13	22:COM9
	3784	-ve	10.421	0.000	0.334	5.270	1.092	25.133
			20:COM7	-	24:COM11	24:COM11	24:COM11	20:COM7
			-7.914	-16.917	-0.862	-4.580	-1.753	-5.101
			30:COM17	22:COM9	18:COM5	18:COM5	18:COM5	30:COM17
8932	3786	+ve	14.512	0.000	2.146	4.075	1.370	0.000
			20:COM7	-	16:COM3	24:COM11	24:COM11	-
			-11.071	-6.928	-1.566	-3.440	-1.812	-32.617
			30:COM17	22:COM9	26:COM13	18:COM5	18:COM5	18:COM5
	3785	-ve	14.512	0.000	2.146	4.075	2.427	0.000
			20:COM7	-	16:COM3	24:COM11	16:COM3	-
			-11.071	-9.201	-1.566	-3.440	-1.726	-23.563
			30:COM17	22:COM9	26:COM13	18:COM5	26:COM13	22:COM9
8933	3787	+ve	17.082	3.290	2.202	1.576	2.494	0.000
			20:COM7	20:COM7	16:COM3	24:COM11	16:COM3	-
			-13.884	-1.311	-1.990	-1.915	-2.348	-29.423
			30:COM17	30:COM17	26:COM13	18:COM5	26:COM13	35:CVOL4
	3786	-ve	17.082	1.344	2.202	1.576	2.111	0.000
			20:COM7	28:COM15	16:COM3	24:COM11	16:COM3	-
			-13.884	-3.343	-1.990	-1.915	-1.545	-32.668
			30:COM17	22:COM9	26:COM13	18:COM5	26:COM13	18:COM5

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
8934	3788	+ve	20.131	11.352	1.088	1.810	1.581	0.000
			20:COM7	16:COM3	20:COM7	24:COM1	24:COM1	-
			-16.128	0.000	-0.712	-2.964	-2.000	-20.602
			30:COM1	-	30:COM1	18:COM5	18:COM5	18:COM5
	3787	-ve	20.131	9.079	1.088	1.810	1.326	0.000
			20:COM7	16:COM3	20:COM7	24:COM1	16:COM3	-
			-16.128	-0.700	-0.712	-2.964	-1.002	-29.459
			30:COM1	26:COM1	30:COM1	18:COM5	26:COM1	35:CVOL4
8935	3789	+ve	20.601	22.318	3.825	5.292	2.504	32.609
			20:COM7	16:COM3	16:COM3	16:COM3	24:COM1	16:COM3
			-17.786	0.000	-2.748	-5.845	-3.423	-12.470
			30:COM1	-	26:COM1	26:COM1	18:COM5	26:COM1
	3788	-ve	20.601	20.045	3.825	5.292	4.122	0.000
			20:COM7	16:COM3	16:COM3	16:COM3	16:COM3	-
			-17.786	0.000	-2.748	-5.845	-2.919	-20.690
			30:COM1	-	26:COM1	26:COM1	26:COM1	18:COM5
8936	3790	+ve	83.605	47.023	7.771	2.035	0.000	141.760
			34:CVOL3	34:CVOL3	34:CVOL3	24:COM1	-	34:CVOL3
			0.000	0.000	0.000	-2.098	-8.063	0.000
			-	-	-	18:COM5	34:CVOL3	-
	3854	-ve	83.605	43.676	7.771	2.035	6.971	54.958
			34:CVOL3	34:CVOL3	34:CVOL3	24:COM1	34:CVOL3	32:CVOL1
			0.000	0.000	0.000	-2.098	0.000	0.000
			-	-	-	18:COM5	-	-
8937	3791	+ve	129.672	66.566	5.361	4.602	0.000	238.802
			34:CVOL3	34:CVOL3	20:COM7	20:COM7	-	34:CVOL3
			0.000	0.000	0.000	-1.597	-4.065	0.000
			-	-	-	30:COM1	22:COM9	-
	3790	-ve	129.672	63.741	5.361	4.602	4.726	132.412
			34:CVOL3	34:CVOL3	20:COM7	20:COM7	20:COM7	34:CVOL3
			0.000	0.000	0.000	-1.597	0.000	0.000
			-	-	-	30:COM1	-	-
8938	3711	+ve	247.873	0.000	23.463	31.284	9.674	295.523
			34:CVOL3	-	20:COM7	28:COM1	28:COM1	34:CVOL3
			0.000	-104.534	-12.868	-37.556	-19.685	0.000
			-	22:COM9	30:COM1	22:COM9	22:COM9	-
	3589	-ve	247.873	0.000	23.463	31.284	18.728	453.370
			34:CVOL3	-	20:COM7	28:COM1	20:COM7	34:CVOL3
			0.000	-107.932	-12.868	-37.556	-11.395	0.000
			-	22:COM9	30:COM1	22:COM9	30:COM1	-
8939	3710	+ve	171.608	0.000	3.897	10.330	5.372	184.230
			34:CVOL3	-	28:COM1	20:COM7	20:COM7	32:CVOL1
			0.000	-80.276	-4.390	-12.310	-2.263	0.000
			-	22:COM9	22:COM9	30:COM1	30:COM1	-
	3711	-ve	171.608	0.000	3.897	10.330	4.391	311.082
			34:CVOL3	-	28:COM1	20:COM7	20:COM7	34:CVOL3
			0.000	-83.666	-4.390	-12.310	-2.086	0.000
			-	22:COM9	22:COM9	30:COM1	30:COM1	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
8940	3792	+ve	9.959	0.000	0.011	0.148	0.102	14.095
			20:COM7	-	24:COM11	24:COM11	16:COM3	16:COM3
			-9.589	-6.361	-0.112	-1.106	-0.007	-6.750
			30:COM17	18:COM5	18:COM5	18:COM5	26:COM13	26:COM13
	3638	-ve	9.959	0.000	0.011	0.148	0.016	21.691
			20:COM7	-	24:COM11	24:COM11	24:COM11	16:COM3
			-9.589	-8.060	-0.112	-1.106	-0.117	0.000
			30:COM17	18:COM5	18:COM5	18:COM5	18:COM5	-
8941	3793	+ve	10.724	0.000	0.024	0.000	0.021	3.899
			20:COM7	-	16:COM3	-	24:COM11	24:COM11
			-8.032	-5.220	-0.013	-0.706	-0.030	-12.479
			30:COM17	18:COM5	26:COM13	18:COM5	18:COM5	18:COM5
	3792	-ve	10.724	0.000	0.024	0.000	0.018	13.918
			20:COM7	-	16:COM3	-	16:COM3	16:COM3
			-8.032	-6.918	-0.013	-0.706	-0.008	-6.883
			30:COM17	18:COM5	26:COM13	18:COM5	26:COM13	26:COM13
8942	3794	+ve	10.395	1.444	0.038	0.023	0.027	0.000
			20:COM7	24:COM11	16:COM3	24:COM11	24:COM11	-
			-7.132	-4.091	-0.023	-0.441	-0.033	-12.547
			30:COM17	18:COM5	26:COM13	18:COM5	18:COM5	18:COM5
	3793	-ve	10.395	0.171	0.038	0.023	0.042	3.772
			20:COM7	24:COM11	16:COM3	24:COM11	16:COM3	24:COM11
			-7.132	-5.789	-0.023	-0.441	-0.019	-12.557
			30:COM17	18:COM5	26:COM13	18:COM5	26:COM13	18:COM5
8943	3795	+ve	9.535	3.789	0.014	0.269	0.019	0.000
			20:COM7	16:COM3	24:COM11	16:COM3	16:COM3	-
			-6.116	-1.955	-0.014	-0.101	-0.013	-12.675
			30:COM17	26:COM13	18:COM5	26:COM13	26:COM13	18:COM5
	3794	-ve	9.535	2.190	0.014	0.269	0.015	0.000
			20:COM7	24:COM11	24:COM11	16:COM3	24:COM11	-
			-6.116	-3.328	-0.014	-0.101	-0.010	-12.520
			30:COM17	18:COM5	18:COM5	26:COM13	18:COM5	18:COM5
8944	3796	+ve	8.187	6.021	0.024	0.492	0.013	5.097
			20:COM7	16:COM3	20:COM7	16:COM3	28:COM15	24:COM11
			-4.975	-0.333	-0.008	0.000	-0.021	-12.978
			30:COM17	26:COM13	30:COM17	-	22:COM9	18:COM5
	3795	-ve	8.187	4.323	0.024	0.492	0.028	0.000
			20:COM7	16:COM3	20:COM7	16:COM3	20:COM7	-
			-4.975	-1.606	-0.008	0.000	-0.003	-12.630
			30:COM17	26:COM13	30:COM17	-	30:COM17	18:COM5
8945	3797	+ve	6.518	7.979	0.019	0.649	0.050	22.578
			20:COM7	16:COM3	28:COM15	16:COM3	20:COM7	16:COM3
			-3.633	0.000	-0.051	0.000	-0.016	-5.723
			30:COM17	-	22:COM9	-	30:COM17	26:COM13
	3796	-ve	6.518	6.281	0.019	0.649	0.022	8.678
			20:COM7	16:COM3	28:COM15	16:COM3	28:COM15	24:COM11
			-3.633	0.000	-0.051	0.000	-0.050	-10.472
			30:COM17	-	22:COM9	-	22:COM9	18:COM5

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
8946	3798	+ve	8.422	0.000	0.003	0.000	0.103	19.114
			28:COM15	-	24:COM11	-	16:COM3	16:COM3
			-9.561	-5.498	-0.108	-0.855	-0.008	-9.201
			22:COM9	18:COM5	18:COM5	18:COM5	26:COM13	26:COM13
	3639	-ve	8.422	0.000	0.003	0.000	0.000	29.512
			28:COM15	-	24:COM11	-	-	16:COM3
			-9.561	-7.214	-0.108	-0.855	-0.111	-0.351
			22:COM9	18:COM5	18:COM5	18:COM5	18:COM5	26:COM13
8947	3799	+ve	10.083	0.000	0.033	0.000	0.000	6.153
			20:COM7	-	16:COM3	-	-	24:COM11
			-8.938	-6.404	-0.004	-0.874	-0.029	-13.862
			30:COM17	18:COM5	26:COM13	18:COM5	22:COM9	18:COM5
	3798	-ve	10.083	0.000	0.033	0.000	0.043	18.887
			20:COM7	-	16:COM3	-	16:COM3	16:COM3
			-8.938	-8.119	-0.004	-0.874	-0.020	-9.297
			30:COM17	18:COM5	26:COM13	18:COM5	26:COM13	26:COM13
8948	3800	+ve	11.288	1.696	0.040	0.041	0.005	0.000
			20:COM7	24:COM11	16:COM3	24:COM11	24:COM11	-
			-9.595	-5.061	-0.001	-0.605	-0.037	-13.974
			30:COM17	18:COM5	26:COM13	18:COM5	18:COM5	18:COM5
	3799	-ve	11.288	0.410	0.040	0.041	0.045	5.993
			20:COM7	24:COM11	16:COM3	24:COM11	20:COM7	24:COM11
			-9.595	-6.776	-0.001	-0.605	0.000	-13.938
			30:COM17	18:COM5	26:COM13	18:COM5	-	18:COM5
8949	3801	+ve	11.701	4.120	0.018	0.199	0.027	0.000
			20:COM7	16:COM3	24:COM11	24:COM11	16:COM3	-
			-9.872	-2.400	-0.021	-0.215	-0.017	-13.377
			30:COM17	26:COM13	18:COM5	18:COM5	26:COM13	18:COM5
	3800	-ve	11.701	2.578	0.018	0.199	0.022	0.000
			20:COM7	24:COM11	24:COM11	24:COM11	20:COM7	-
			-9.872	-3.859	-0.021	-0.215	-0.018	-13.966
			30:COM17	18:COM5	18:COM5	18:COM5	30:COM17	18:COM5
8950	3802	+ve	11.792	6.924	0.013	0.543	0.065	5.985
			20:COM7	16:COM3	24:COM11	16:COM3	16:COM3	24:COM11
			-9.682	-0.179	-0.059	-0.007	-0.013	-12.759
			30:COM17	26:COM13	18:COM5	26:COM13	26:COM13	18:COM5
	3801	-ve	11.792	5.209	0.013	0.543	0.013	0.000
			20:COM7	16:COM3	24:COM11	16:COM3	24:COM11	-
			-9.682	-1.466	-0.059	-0.007	-0.053	-13.384
			30:COM17	26:COM13	18:COM5	26:COM13	18:COM5	18:COM5
8951	3803	+ve	11.461	7.831	0.002	0.754	0.028	18.503
			20:COM7	16:COM3	24:COM11	20:COM7	16:COM3	16:COM3
			-9.440	0.000	-0.035	0.000	0.000	-7.643
			30:COM17	-	18:COM5	-	-	26:COM13
	3802	-ve	11.461	6.115	0.002	0.754	0.005	6.126
			20:COM7	16:COM3	24:COM11	20:COM7	24:COM11	24:COM11
			-9.440	0.000	-0.035	0.000	-0.042	-12.670
			30:COM17	-	18:COM5	-	18:COM5	18:COM5

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
8952	3806	+ve	11.574	6.694	0.067	0.684	0.075	11.340
			20:COM7	20:COM7	24:COM11	16:COM3	16:COM3	16:COM3
			-8.776	0.000	-0.094	-0.509	-0.046	-1.795
			30:COM17	-	18:COM5	26:COM13	26:COM13	26:COM13
	3805	-ve	11.574	4.981	0.067	0.684	0.085	2.010
			20:COM7	20:COM7	24:COM11	16:COM3	24:COM11	24:COM11
			-8.776	0.000	-0.094	-0.509	-0.110	-9.960
			30:COM17	-	18:COM5	26:COM13	18:COM5	18:COM5
8954	3808	+ve	4.095	73.793	0.838	0.191	1.358	14.113
			20:COM7	16:COM3	28:COM15	24:COM11	20:COM7	16:COM3
			-3.908	-58.443	-1.469	-3.655	-0.749	0.000
			30:COM17	26:COM13	22:COM9	18:COM5	30:COM17	-
	5471	-ve	4.095	71.467	0.838	0.191	0.966	120.399
			20:COM7	16:COM3	28:COM15	24:COM11	28:COM15	24:COM11
			-3.908	-60.188	-1.469	-3.655	-1.630	-132.616
			30:COM17	26:COM13	22:COM9	18:COM5	22:COM9	18:COM5
8956	3708	+ve	26.417	107.563	1.576	0.000	1.783	12.429
			16:COM3	16:COM3	28:COM15	-	20:COM7	24:COM11
			-16.713	-96.046	-1.998	-3.033	-1.510	-15.508
			26:COM13	26:COM13	22:COM9	18:COM5	30:COM17	18:COM5
	5485	-ve	26.417	104.772	1.576	0.000	1.680	181.243
			16:COM3	16:COM3	28:COM15	-	28:COM15	24:COM11
			-16.713	-98.139	-1.998	-3.033	-2.258	-202.624
			26:COM13	26:COM13	22:COM9	18:COM5	22:COM9	18:COM5
8958	3873	+ve	18.718	71.835	8.524	23.842	2.866	116.260
			20:COM7	16:COM3	16:COM3	24:COM11	24:COM11	16:COM3
			0.000	-9.231	-6.352	-53.551	-4.867	-14.372
			-	26:COM13	26:COM13	18:COM5	18:COM5	26:COM13
	3918	-ve	18.718	69.692	8.524	23.842	3.787	46.185
			20:COM7	16:COM3	16:COM3	24:COM11	24:COM11	16:COM3
			0.000	-10.660	-6.352	-53.551	-3.637	-4.530
			-	26:COM13	26:COM13	18:COM5	18:COM5	26:COM13
8959	3812	+ve	10.859	7.243	0.016	0.177	0.009	3.503
			24:COM11	16:COM3	16:COM3	24:COM11	24:COM11	24:COM11
			-11.347	0.000	-0.008	-0.260	-0.018	-12.184
			18:COM5	-	26:COM13	18:COM5	18:COM5	18:COM5
	3833	-ve	10.859	6.333	0.016	0.177	0.019	0.000
			24:COM11	16:COM3	16:COM3	24:COM11	20:COM7	-
			-11.347	0.000	-0.008	-0.260	-0.012	-18.920
			18:COM5	-	26:COM13	18:COM5	30:COM17	34:CVOL3
8960	3813	+ve	10.658	11.814	0.003	0.000	0.045	21.241
			24:COM11	34:CVOL3	28:COM15	-	20:COM7	16:COM3
			-11.854	0.000	-0.043	-0.496	0.000	-1.827
			18:COM5	-	22:COM9	35:CVOL4	-	26:COM13
	3812	-ve	10.658	9.967	0.003	0.000	0.007	3.562
			24:COM11	34:CVOL3	28:COM15	-	28:COM15	24:COM11
			-11.854	0.000	-0.043	-0.496	-0.041	-12.173
			18:COM5	-	22:COM9	35:CVOL4	22:COM9	18:COM5

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
8961	3814	+ve	3.406	3.390	0.904	0.151	0.386	11.963
			28:COM15	16:COM3	20:COM7	28:COM15	28:COM15	28:COM15
			-5.465	-0.329	-0.577	-2.376	-0.634	-19.710
			22:COM9	26:COM13	30:COM17	22:COM9	22:COM9	22:COM9
	3657	-ve	3.406	2.747	0.904	0.151	0.655	9.931
			28:COM15	16:COM3	20:COM7	28:COM15	20:COM7	28:COM15
			-5.465	-0.811	-0.577	-2.376	-0.448	-21.159
			22:COM9	26:COM13	30:COM17	22:COM9	30:COM17	22:COM9
8962	3815	+ve	5.046	3.977	0.394	2.853	0.250	14.965
			28:COM15	16:COM3	20:COM7	20:COM7	28:COM15	28:COM15
			-9.502	0.000	-0.309	-1.131	-0.343	-16.249
			22:COM9	-	30:COM17	30:COM17	22:COM9	22:COM9
	3814	-ve	5.046	3.049	0.394	2.853	0.451	11.351
			28:COM15	16:COM3	20:COM7	20:COM7	20:COM7	28:COM15
			-9.502	-0.511	-0.309	-1.131	-0.372	-19.378
			22:COM9	26:COM13	30:COM17	30:COM17	30:COM17	22:COM9
8963	3816	+ve	2.794	4.637	0.154	1.391	0.025	18.474
			24:COM17	20:COM7	20:COM7	20:COM7	28:COM15	20:COM7
			-12.182	0.000	-0.032	-0.497	-0.161	-10.034
			18:COM5	-	30:COM17	30:COM17	22:COM9	30:COM17
	3815	-ve	2.794	3.736	0.154	1.391	0.142	14.808
			24:COM17	20:COM7	20:COM7	20:COM7	20:COM7	28:COM15
			-12.182	0.000	-0.032	-0.497	-0.038	-16.332
			18:COM5	-	30:COM17	30:COM17	30:COM17	22:COM9
8964	3818	+ve	11.153	3.123	0.060	0.189	0.047	3.090
			20:COM7	16:COM3	16:COM3	16:COM3	24:COM11	24:COM17
			-8.028	0.000	-0.051	-0.117	-0.068	-8.726
			30:COM17	-	26:COM13	26:COM13	18:COM5	18:COM5
	5323	-ve	11.153	2.267	0.060	0.189	0.045	0.000
			20:COM7	16:COM3	16:COM3	16:COM3	16:COM3	-
			-8.028	-0.578	-0.051	-0.117	-0.047	-9.434
			30:COM17	26:COM13	26:COM13	26:COM13	26:COM13	18:COM5
8965	3819	+ve	11.580	6.836	0.107	0.000	0.140	13.264
			20:COM7	34:CVOL3	24:COM11	-	16:COM3	16:COM3
			-9.249	0.000	-0.137	-0.187	-0.105	-4.813
			30:COM17	-	18:COM5	35:CVOL4	26:COM13	26:COM13
	3818	-ve	11.580	5.688	0.107	0.000	0.096	3.092
			20:COM7	16:COM3	24:COM11	-	24:COM11	24:COM17
			-9.249	0.000	-0.137	-0.187	-0.117	-8.702
			30:COM17	-	18:COM5	35:CVOL4	18:COM5	18:COM5
8966	3820	+ve	9.276	0.000	0.106	0.514	0.138	14.315
			28:COM15	-	20:COM7	20:COM7	28:COM15	20:COM7
			-10.834	-11.866	-0.092	0.000	-0.143	-11.129
			22:COM9	22:COM9	30:COM17	-	22:COM9	30:COM17
	3648	-ve	9.276	0.000	0.106	0.514	0.067	38.627
			28:COM15	-	20:COM7	20:COM7	20:COM7	20:COM7
			-10.834	-12.779	-0.092	0.000	-0.045	-10.257
			22:COM9	22:COM9	30:COM17	-	30:COM17	30:COM17

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
8967	3821	+ve	9.968	2.920	0.506	0.550	0.465	0.000
			20:COM7	28:COM15	20:COM7	24:COM17	28:COM15	-
			-9.718	-9.596	-0.421	-1.416	-0.577	-10.172
			30:COM17	22:COM9	30:COM17	18:COM5	22:COM9	18:COM5
	3820	-ve	9.968	2.234	0.506	0.550	0.426	14.444
			20:COM7	28:COM15	20:COM7	24:COM17	20:COM7	20:COM7
			-9.718	-10.511	-0.421	-1.416	-0.370	-10.940
			30:COM17	22:COM9	30:COM17	18:COM5	30:COM17	30:COM17
8968	3822	+ve	10.127	4.108	0.649	0.912	0.366	2.163
			20:COM7	28:COM15	20:COM7	24:COM17	28:COM15	28:COM15
			-10.809	-7.034	-0.419	-1.331	-0.623	-20.526
			30:COM17	22:COM9	30:COM17	18:COM5	22:COM9	22:COM9
	3821	-ve	10.127	3.421	0.649	0.912	0.664	0.000
			20:COM7	28:COM15	20:COM7	24:COM17	20:COM7	-
			-10.809	-7.949	-0.419	-1.331	-0.466	-10.225
			30:COM17	22:COM9	30:COM17	18:COM5	30:COM17	18:COM5
8969	3748	+ve	0.000	4.590	0.046	0.187	0.000	5.047
			-	16:COM3	20:COM7	34:CVOL3	-	16:COM3
			-6.241	0.000	0.000	0.000	-0.058	0.000
			18:COM5	-	-	-	22:COM9	-
	3717	-ve	0.000	0.615	0.046	0.187	0.055	0.441
			-	24:COM11	20:COM7	34:CVOL3	20:COM7	24:COM11
			-6.241	-1.362	0.000	0.000	0.000	-0.999
			18:COM5	18:COM5	-	-	-	18:COM5
8970	3747	+ve	0.000	3.546	0.037	0.167	0.016	3.206
			-	35:CVOL4	16:COM3	16:COM3	24:COM11	16:COM3
			-3.586	0.000	-0.014	-0.024	-0.045	0.000
			22:COM9	-	26:COM13	26:COM13	18:COM5	-
	3718	-ve	0.000	0.000	0.037	0.167	0.045	0.376
			-	-	16:COM3	16:COM3	16:COM3	16:COM3
			-3.586	-1.554	-0.014	-0.024	-0.018	-0.308
			22:COM9	18:COM5	26:COM13	26:COM13	26:COM13	26:COM13
8971	3746	+ve	0.000	3.291	0.020	0.079	0.038	2.733
			-	35:CVOL4	24:COM11	24:COM17	16:COM3	16:COM3
			-2.550	0.000	-0.032	-0.100	-0.024	0.000
			18:COM5	-	18:COM5	18:COM5	26:COM13	-
	3719	-ve	0.000	0.000	0.020	0.079	0.025	0.389
			-	-	24:COM11	24:COM17	24:COM11	16:COM3
			-2.550	-1.637	-0.032	-0.100	-0.041	-0.109
			18:COM5	18:COM5	18:COM5	18:COM5	18:COM5	26:COM13
8972	3745	+ve	0.992	4.308	0.003	0.000	0.056	4.594
			24:COM17	16:COM3	24:COM11	-	16:COM3	16:COM3
			-5.277	0.000	-0.047	-0.166	-0.003	0.000
			18:COM5	-	18:COM5	18:COM5	26:COM13	-
	3720	-ve	0.992	0.546	0.003	0.000	0.004	0.623
			24:COM17	24:COM11	24:COM11	-	24:COM11	16:COM3
			-5.277	-1.922	-0.047	-0.166	-0.058	-0.783
			18:COM5	18:COM5	18:COM5	18:COM5	18:COM5	26:COM13

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
8973	3744	+ve	0.216	5.477	0.000	0.000	0.049	6.527
			24:COM1	16:COM3	-	-	16:COM3	16:COM3
			-7.835	0.000	-0.041	-0.201	0.000	0.000
			18:COM5	-	18:COM5	18:COM5	-	-
	3721	-ve	0.216	1.415	0.000	0.000	0.000	0.725
			24:COM1	24:COM1	-	-	-	24:COM1
			-7.835	-1.596	-0.041	-0.201	-0.051	-1.694
			18:COM5	18:COM5	18:COM5	18:COM5	22:COM9	18:COM5
8974	3753	+ve	0.000	5.845	0.031	0.163	0.000	7.122
			-	16:COM3	16:COM3	16:COM3	-	16:COM3
			-8.589	0.000	0.000	0.000	-0.038	0.000
			18:COM5	-	-	-	18:COM5	-
	3722	-ve	0.000	1.625	0.031	0.163	0.038	0.548
			-	24:COM1	16:COM3	16:COM3	16:COM3	24:COM1
			-8.589	-1.168	0.000	0.000	-0.001	-2.002
			18:COM5	18:COM5	-	-	26:COM1	18:COM5
8975	3752	+ve	0.000	4.539	0.033	0.177	0.004	5.000
			-	16:COM3	16:COM3	16:COM3	24:COM1	16:COM3
			-5.812	0.000	-0.003	-0.013	-0.042	0.000
			18:COM5	-	26:COM1	26:COM1	18:COM5	-
	3723	-ve	0.000	0.650	0.033	0.177	0.040	0.418
			-	24:COM1	16:COM3	16:COM3	16:COM3	24:COM1
			-5.812	-1.481	-0.003	-0.013	-0.004	-0.924
			18:COM5	18:COM5	26:COM1	26:COM1	26:COM1	18:COM5
8976	3751	+ve	0.000	3.559	0.021	0.116	0.024	2.907
			-	34:CVOL3	16:COM3	16:COM3	24:COM1	34:CVOL3
			-2.639	0.000	-0.020	-0.091	-0.026	0.000
			22:COM9	-	26:COM1	26:COM1	18:COM5	-
	3724	-ve	0.000	0.000	0.021	0.116	0.025	0.111
			-	-	16:COM3	16:COM3	16:COM3	35:CVOL4
			-2.639	-1.285	-0.020	-0.091	-0.024	-0.053
			22:COM9	35:CVOL4	26:COM1	26:COM1	26:COM1	30:COM1
8977	3750	+ve	0.157	4.240	0.004	0.027	0.042	4.474
			24:COM1	16:COM3	24:COM1	24:COM1	16:COM3	16:COM3
			-5.108	0.000	-0.034	-0.154	-0.005	0.000
			18:COM5	-	18:COM5	18:COM5	26:COM1	-
	3725	-ve	0.157	0.440	0.004	0.027	0.004	0.501
			24:COM1	24:COM1	24:COM1	24:COM1	24:COM1	16:COM3
			-5.108	-1.636	-0.034	-0.154	-0.042	-0.726
			18:COM5	18:COM5	18:COM5	18:COM5	18:COM5	26:COM1
8978	3749	+ve	0.000	5.419	0.000	0.000	0.041	6.434
			-	16:COM3	-	-	16:COM3	16:COM3
			-7.688	0.000	-0.034	-0.167	0.000	0.000
			18:COM5	-	18:COM5	18:COM5	-	-
	3726	-ve	0.000	1.339	0.000	0.000	0.000	0.691
			-	24:COM1	-	-	-	24:COM1
			-7.688	-1.453	-0.034	-0.167	-0.043	-1.646
			18:COM5	18:COM5	18:COM5	18:COM5	18:COM5	18:COM5

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
8979	3758	+ve	0.000	5.777	0.030	0.157	0.000	7.046
			-	16:COM3	16:COM3	16:COM3	-	16:COM3
			-8.333	0.000	0.000	0.000	-0.037	0.000
			18:COM5	-	-	-	18:COM5	-
	3727	-ve	0.000	1.571	0.030	0.157	0.037	0.534
			-	24:COM11	16:COM3	16:COM3	16:COM3	24:COM1
			-8.333	-1.170	0.000	0.000	0.000	-1.909
			18:COM5	18:COM5	-	-	-	18:COM5
8980	3757	+ve	0.000	4.473	0.041	0.179	0.005	4.912
			-	16:COM3	16:COM3	16:COM3	24:COM11	16:COM3
			-5.528	0.000	-0.004	-0.018	-0.051	0.000
			18:COM5	-	26:COM1	26:COM1	18:COM5	-
	3728	-ve	0.000	0.595	0.041	0.179	0.050	0.397
			-	24:COM11	16:COM3	16:COM3	16:COM3	24:COM1
			-5.528	-1.467	-0.004	-0.018	-0.005	-0.852
			18:COM5	18:COM5	26:COM1	26:COM1	26:COM1	18:COM5
8981	3756	+ve	0.000	3.564	0.028	0.115	0.025	2.948
			-	34:CVOL3	16:COM3	16:COM3	24:COM11	20:COM7
			-2.634	0.000	-0.020	-0.094	-0.034	0.000
			22:COM9	-	26:COM1	26:COM1	18:COM5	-
	3729	-ve	0.000	0.000	0.028	0.115	0.034	0.112
			-	-	16:COM3	16:COM3	16:COM3	35:CVOL4
			-2.634	-1.278	-0.020	-0.094	-0.024	-0.064
			22:COM9	35:CVOL4	26:COM1	26:COM1	26:COM1	30:COM1
8982	3755	+ve	0.258	4.324	0.008	0.025	0.038	4.610
			24:COM1	16:COM3	24:COM11	24:COM1	16:COM3	16:COM3
			-5.301	0.000	-0.031	-0.153	-0.009	0.000
			18:COM5	-	18:COM5	18:COM5	26:COM1	-
	3730	-ve	0.258	0.512	0.008	0.025	0.009	0.514
			24:COM1	24:COM11	24:COM11	24:COM1	24:COM11	24:COM1
			-5.301	-1.639	-0.031	-0.153	-0.037	-0.790
			18:COM5	18:COM5	18:COM5	18:COM5	18:COM5	18:COM5
8983	3754	+ve	0.000	5.505	0.000	0.000	0.037	6.546
			-	16:COM3	-	-	16:COM3	16:COM3
			-7.889	0.000	-0.030	-0.167	0.000	0.000
			18:COM5	-	18:COM5	18:COM5	-	-
	3731	-ve	0.000	1.408	0.000	0.000	0.000	0.691
			-	24:COM11	-	-	-	24:COM1
			-7.889	-1.433	-0.030	-0.167	-0.036	-1.745
			18:COM5	18:COM5	18:COM5	18:COM5	18:COM5	18:COM5
8984	3763	+ve	0.000	5.795	0.037	0.190	0.000	7.074
			-	16:COM3	20:COM7	16:COM3	-	16:COM3
			-8.448	0.000	0.000	0.000	-0.045	0.000
			18:COM5	-	-	-	22:COM9	-
	3732	-ve	0.000	1.613	0.037	0.190	0.047	0.615
			-	24:COM11	20:COM7	16:COM3	20:COM7	24:COM1
			-8.448	-1.354	0.000	0.000	0.000	-1.927
			18:COM5	18:COM5	-	-	-	18:COM5

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
8985	3762	+ve	0.730	4.534	0.055	0.184	0.006	5.010
			24:COM1	16:COM3	20:COM7	16:COM3	28:COM1	16:COM3
			-5.786	0.000	-0.006	0.000	-0.065	0.000
			18:COM5	-	30:COM1	-	22:COM9	-
	3733	-ve	0.730	0.689	0.055	0.184	0.069	0.538
			24:COM1	24:COM1	20:COM7	16:COM3	20:COM7	24:COM1
			-5.786	-1.763	-0.006	0.000	-0.009	-0.901
			18:COM5	18:COM5	30:COM1	-	30:COM1	18:COM5
8986	3761	+ve	0.077	3.346	0.042	0.124	0.027	2.966
			28:COM1	35:CVOL4	16:COM3	16:COM3	24:COM1	20:COM7
			-2.878	0.000	-0.023	-0.072	-0.049	0.000
			22:COM9	-	26:COM1	26:COM1	18:COM5	-
	3734	-ve	0.077	0.000	0.042	0.124	0.053	0.367
			28:COM1	-	16:COM3	16:COM3	16:COM3	16:COM3
			-2.878	-1.632	-0.023	-0.072	-0.029	-0.119
			22:COM9	22:COM9	26:COM1	26:COM1	26:COM1	26:COM1
8987	3760	+ve	0.000	3.476	0.021	0.037	0.047	3.135
			-	35:CVOL4	24:COM1	24:COM1	16:COM3	16:COM3
			-3.190	0.000	-0.038	-0.156	-0.024	0.000
			18:COM5	-	18:COM5	18:COM5	26:COM1	-
	3735	-ve	0.000	0.000	0.021	0.037	0.027	0.438
			-	-	24:COM1	24:COM1	24:COM1	16:COM3
			-3.190	-1.627	-0.038	-0.156	-0.047	-0.261
			18:COM5	18:COM5	18:COM5	18:COM5	18:COM5	26:COM1
8988	3759	+ve	0.000	4.467	0.000	0.000	0.049	4.871
			-	16:COM3	-	-	16:COM3	16:COM3
			-5.997	0.000	-0.040	-0.184	0.000	0.000
			18:COM5	-	22:COM9	34:CVOL3	-	-
	3736	-ve	0.000	0.549	0.000	0.000	0.000	0.500
			-	24:COM1	-	-	-	24:COM1
			-5.997	-1.492	-0.040	-0.184	-0.049	-0.875
			18:COM5	18:COM5	22:COM9	34:CVOL3	22:COM9	18:COM5
8989	3797	+ve	0.000	0.780	0.000	0.000	0.083	0.231
			-	24:COM1	-	-	16:COM3	24:COM1
			-4.901	-2.520	-0.132	-0.172	0.000	-1.037
			18:COM5	18:COM5	18:COM5	22:COM9	-	18:COM5
	3777	-ve	0.000	0.000	0.000	0.000	0.000	3.469
			-	-	-	-	-	16:COM3
			-4.901	-4.686	-0.132	-0.172	-0.083	0.000
			18:COM5	18:COM5	18:COM5	22:COM9	22:COM9	-
8990	3796	+ve	0.154	2.809	0.346	0.000	0.307	0.185
			28:COM1	16:COM3	28:COM1	-	20:COM7	20:COM7
			-0.955	-0.438	-0.446	-5.253	-0.170	0.000
			22:COM9	26:COM1	22:COM9	18:COM5	30:COM1	-
	3776	-ve	0.154	0.000	0.346	0.000	0.267	2.018
			28:COM1	-	28:COM1	-	28:COM1	24:COM1
			-0.955	-3.082	-0.446	-5.253	-0.255	-1.358
			22:COM9	18:COM5	22:COM9	18:COM5	22:COM9	18:COM5

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
8991	3795	+ve	0.000	0.687	0.004	0.000	0.054	0.133
			-	35:CVOL4	24:COM11	-	16:COM3	20:COM7
			-1.337	0.000	-0.087	-0.106	-0.003	-0.005
			22:COM9	-	18:COM5	18:COM5	26:COM13	30:COM17
	3775	-ve	0.000	0.000	0.004	0.000	0.002	0.845
			-	-	24:COM11	-	24:COM11	34:CVOL3
			-1.337	-1.838	-0.087	-0.106	-0.054	0.000
			22:COM9	34:CVOL3	18:COM5	18:COM5	18:COM5	-
8992	3794	+ve	0.182	1.238	0.051	0.058	0.018	0.349
			24:COM11	16:COM3	16:COM3	16:COM3	24:COM11	20:COM7
			-1.351	0.000	-0.027	-0.030	-0.033	0.000
			18:COM5	-	26:COM13	26:COM13	18:COM5	-
	3774	-ve	0.182	0.000	0.051	0.058	0.030	0.609
			24:COM11	-	16:COM3	16:COM3	16:COM3	16:COM3
			-1.351	-1.406	-0.027	-0.030	-0.016	0.000
			18:COM5	18:COM5	26:COM13	26:COM13	26:COM13	-
8993	3793	+ve	1.155	1.812	0.137	0.163	0.000	0.533
			24:COM11	16:COM3	16:COM3	16:COM3	-	16:COM3
			-3.323	-0.924	0.000	0.000	-0.089	-0.333
			18:COM5	26:COM13	-	-	18:COM5	26:COM13
	3773	-ve	1.155	0.209	0.137	0.163	0.082	1.825
			24:COM11	24:COM11	16:COM3	16:COM3	16:COM3	16:COM3
			-3.323	-2.736	0.000	0.000	0.000	-0.599
			18:COM5	18:COM5	-	-	-	26:COM13
8994	3792	+ve	1.601	2.287	0.167	0.199	0.000	0.833
			24:COM11	24:COM11	20:COM7	34:CVOL3	-	24:COM11
			-6.687	-3.885	0.000	0.000	-0.105	-1.584
			18:COM5	18:COM5	-	-	22:COM9	18:COM5
	3772	-ve	1.601	1.038	0.167	0.199	0.104	4.630
			24:COM11	24:COM11	20:COM7	34:CVOL3	20:COM7	16:COM3
			-6.687	-6.051	0.000	0.000	0.000	-1.246
			18:COM5	18:COM5	-	-	-	26:COM13
8995	3803	+ve	0.998	1.951	0.000	0.000	0.099	0.663
			24:COM11	24:COM11	-	-	16:COM3	24:COM11
			-7.459	-4.761	-0.157	-0.194	0.000	-1.874
			18:COM5	18:COM5	18:COM5	35:CVOL4	-	18:COM5
	3783	-ve	0.998	0.701	0.000	0.000	0.000	5.435
			24:COM11	24:COM11	-	-	-	16:COM3
			-7.459	-6.927	-0.157	-0.194	-0.097	-0.996
			18:COM5	18:COM5	18:COM5	35:CVOL4	18:COM5	26:COM13
8996	3801	+ve	0.381	1.645	0.022	0.027	0.049	0.434
			16:COM3	35:CVOL4	24:COM11	24:COM11	16:COM3	35:CVOL4
			-0.542	0.000	-0.074	-0.091	-0.015	0.000
			26:COM13	-	18:COM5	18:COM5	26:COM13	-
	3781	-ve	0.381	0.000	0.022	0.027	0.012	0.382
			16:COM3	-	24:COM11	24:COM11	24:COM11	24:COM11
			-0.542	-1.078	-0.074	-0.091	-0.043	-0.247
			26:COM13	18:COM5	18:COM5	18:COM5	18:COM5	18:COM5

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
8997	3800	+ve	0.797	1.688	0.088	0.103	0.015	0.445
			16:COM3	35:CVOL4	16:COM3	16:COM3	24:COM11	35:CVOL4
			-0.821	0.000	-0.021	-0.028	-0.058	0.000
			26:COM13	-	26:COM13	26:COM13	18:COM5	-
	3780	-ve	0.797	0.000	0.088	0.103	0.052	0.254
			16:COM3	-	16:COM3	16:COM3	16:COM3	24:COM11
			-0.821	-0.966	-0.021	-0.028	-0.011	-0.181
			26:COM13	18:COM5	26:COM13	26:COM13	26:COM13	18:COM5
8998	3799	+ve	1.238	1.630	0.170	0.201	0.000	0.457
			24:COM11	16:COM3	16:COM3	16:COM3	-	16:COM3
			-3.157	-0.728	0.000	0.000	-0.112	-0.287
			18:COM5	26:COM13	-	-	18:COM5	26:COM13
	3779	-ve	1.238	0.025	0.170	0.201	0.100	1.615
			24:COM11	24:COM11	16:COM3	16:COM3	16:COM3	16:COM3
			-3.157	-2.540	0.000	0.000	0.000	-0.436
			18:COM5	18:COM5	-	-	-	26:COM13
8999	3798	+ve	0.958	1.696	0.180	0.213	0.000	0.580
			24:COM11	24:COM11	16:COM3	16:COM3	-	24:COM11
			-6.452	-3.714	0.000	0.000	-0.108	-1.478
			18:COM5	18:COM5	-	-	18:COM5	18:COM5
	3778	-ve	0.958	0.447	0.180	0.213	0.117	4.520
			24:COM11	24:COM11	16:COM3	16:COM3	16:COM3	16:COM3
			-6.452	-5.880	0.000	0.000	0.000	-0.760
			18:COM5	18:COM5	-	-	-	26:COM13
9000	3802	+ve	0.849	1.660	0.000	0.000	0.099	0.428
			24:COM11	16:COM3	-	-	16:COM3	16:COM3
			-3.314	-1.083	-0.151	-0.181	0.000	-0.359
			18:COM5	26:COM13	18:COM5	18:COM5	-	26:COM13
	3782	-ve	0.849	0.136	0.000	0.000	0.000	2.061
			24:COM11	24:COM11	-	-	-	16:COM3
			-3.314	-2.975	-0.151	-0.181	-0.090	-0.577
			18:COM5	18:COM5	18:COM5	18:COM5	18:COM5	26:COM13
9001	3806	+ve	3.310	3.024	0.167	0.116	0.137	1.014
			24:COM11	24:COM11	24:COM11	24:COM11	16:COM3	24:COM11
			-7.346	-4.050	-0.231	-0.180	-0.093	-1.562
			18:COM5	18:COM5	18:COM5	18:COM5	26:COM13	18:COM5
	3789	-ve	3.310	1.775	0.167	0.116	0.117	4.857
			24:COM11	24:COM11	24:COM11	24:COM11	24:COM11	16:COM3
			-7.346	-6.216	-0.231	-0.180	-0.152	-1.987
			18:COM5	18:COM5	18:COM5	18:COM5	18:COM5	26:COM13
9002	3805	+ve	1.976	2.007	0.240	0.129	0.157	0.168
			24:COM11	16:COM3	24:COM11	24:COM11	16:COM3	16:COM3
			-2.977	-0.972	-0.260	-0.144	-0.138	-0.146
			18:COM5	26:COM13	18:COM5	18:COM5	26:COM13	26:COM13
	3788	-ve	1.976	0.365	0.240	0.129	0.163	1.983
			24:COM11	24:COM11	24:COM11	24:COM11	24:COM11	16:COM3
			-2.977	-2.746	-0.260	-0.144	-0.168	-1.119
			18:COM5	18:COM5	18:COM5	18:COM5	18:COM5	26:COM13

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
9003	3804	+ve	1.211	1.445	0.039	0.040	0.024	0.386
			16:COM3	35:CVOL4	24:COM11	16:COM3	16:COM3	16:COM3
			-0.438	0.000	-0.047	-0.029	-0.019	-0.227
			26:COM13	-	18:COM5	26:COM13	26:COM13	26:COM13
	3787	-ve	1.211	0.000	0.039	0.040	0.034	0.348
			16:COM3	-	24:COM11	16:COM3	24:COM11	24:COM11
			-0.438	-1.025	-0.047	-0.029	-0.039	-0.291
			26:COM13	32:CVOL1	18:COM5	26:COM13	18:COM5	18:COM5
9004	3710	+ve	4.276	13.282	0.000	0.157	0.102	31.941
			20:COM7	20:COM7	-	28:COM15	20:COM7	20:COM7
			-2.685	-0.135	-0.042	-0.281	0.000	-15.791
			30:COM17	30:COM17	22:COM9	22:COM9	-	30:COM17
	3899	-ve	4.276	4.119	0.000	0.157	0.000	0.282
			20:COM7	28:COM15	-	28:COM15	-	28:COM15
			-2.685	-7.294	-0.042	-0.281	-0.112	-9.154
			30:COM17	22:COM9	22:COM9	22:COM9	32:CVOL1	22:COM9
9005	3711	+ve	6.208	14.998	0.003	0.132	0.031	38.922
			28:COM15	20:COM7	28:COM15	20:COM7	20:COM7	20:COM7
			-8.257	-2.223	-0.010	-0.094	-0.015	-23.025
			22:COM9	30:COM17	22:COM9	30:COM17	30:COM17	30:COM17
	3900	-ve	6.208	4.352	0.003	0.132	0.004	14.850
			28:COM15	28:COM15	28:COM15	20:COM7	28:COM15	20:COM7
			-8.257	-11.793	-0.010	-0.094	-0.031	-15.531
			22:COM9	22:COM9	22:COM9	30:COM17	22:COM9	30:COM17
9006	3708	+ve	1.233	7.380	0.025	0.292	0.032	10.929
			28:COM15	34:CVOL3	16:COM3	16:COM3	24:COM11	34:CVOL3
			-2.920	0.000	-0.015	-0.146	-0.052	0.000
			22:COM9	-	26:COM13	26:COM13	18:COM5	-
	3929	-ve	1.233	0.000	0.025	0.292	0.068	1.954
			28:COM15	-	16:COM3	16:COM3	16:COM3	20:COM7
			-2.920	-3.547	-0.015	-0.146	-0.042	0.000
			22:COM9	35:CVOL4	26:COM13	26:COM13	26:COM13	-
9007	3823	+ve	0.000	11.519	0.000	0.479	0.216	26.857
			-	20:COM7	-	20:COM7	20:COM7	20:COM7
			-12.691	0.000	-0.196	-0.162	0.000	-0.503
			22:COM9	-	18:COM5	30:COM17	-	30:COM17
	3824	-ve	0.000	9.414	0.000	0.479	0.000	6.330
			-	20:COM7	-	20:COM7	-	28:COM15
			-12.691	0.000	-0.196	-0.162	-0.190	-6.657
			22:COM9	-	18:COM5	30:COM17	18:COM5	22:COM9
9008	3824	+ve	0.702	8.523	0.037	0.177	0.187	6.374
			28:COM15	20:COM7	24:COM11	20:COM7	16:COM3	28:COM15
			-8.342	0.000	-0.187	0.000	-0.016	-6.748
			22:COM9	-	18:COM5	-	26:COM13	22:COM9
	3825	-ve	0.702	6.418	0.037	0.177	0.057	0.000
			28:COM15	20:COM7	24:COM11	20:COM7	24:COM11	-
			-8.342	-0.123	-0.187	0.000	-0.185	-11.748
			22:COM9	30:COM17	18:COM5	-	18:COM5	35:CVOL4

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
9009	3825	+ve	2.587	4.706	0.000	0.243	0.112	0.000
			28:COM15	20:COM7	-	20:COM7	16:COM3	-
			-6.404	-0.773	-0.088	-0.206	-0.024	-11.762
			22:COM9	30:COM17	18:COM5	30:COM17	26:COM13	35:CVOL4
	3826	-ve	2.587	2.601	0.000	0.243	0.006	0.000
			28:COM15	20:COM7	-	20:COM7	28:COM15	-
			-6.404	-2.352	-0.088	-0.206	-0.094	-15.959
			22:COM9	30:COM17	18:COM5	30:COM17	22:COM9	22:COM9
9010	3826	+ve	3.169	0.991	0.137	0.389	0.190	0.000
			28:COM15	28:COM15	28:COM15	28:COM15	20:COM7	-
			-5.401	-3.252	-0.199	-0.522	-0.120	-16.041
			22:COM9	22:COM9	22:COM9	22:COM9	30:COM17	22:COM9
	3827	-ve	3.169	0.000	0.137	0.389	0.152	2.168
			28:COM15	-	28:COM15	28:COM15	28:COM15	28:COM15
			-5.401	-5.357	-0.199	-0.522	-0.205	-14.704
			22:COM9	22:COM9	22:COM9	22:COM9	22:COM9	22:COM9
9011	3827	+ve	3.306	0.000	0.142	0.296	0.175	2.312
			28:COM15	-	28:COM15	28:COM15	20:COM7	28:COM15
			-5.042	-5.805	-0.151	-0.650	-0.153	-14.817
			22:COM9	22:COM9	22:COM9	22:COM9	30:COM17	22:COM9
	3828	-ve	3.306	0.000	0.142	0.296	0.129	13.018
			28:COM15	-	28:COM15	28:COM15	28:COM15	20:COM7
			-5.042	-7.910	-0.151	-0.650	-0.125	-6.076
			22:COM9	22:COM9	22:COM9	22:COM9	22:COM9	30:COM17
9012	3828	+ve	2.785	0.000	0.000	0.000	0.088	13.143
			28:COM15	-	-	-	20:COM7	20:COM7
			-5.502	-8.562	-0.080	-0.696	0.000	-6.145
			22:COM9	35:CVOL4	22:COM9	18:COM5	-	30:COM17
	3635	-ve	2.785	0.000	0.000	0.000	0.000	30.305
			28:COM15	-	-	-	-	20:COM7
			-5.502	-10.664	-0.080	-0.696	-0.074	0.000
			22:COM9	35:CVOL4	22:COM9	18:COM5	18:COM5	-
9016	3658	+ve	11.934	12.493	0.064	0.000	0.218	17.103
			20:COM7	20:COM7	24:COM11	-	16:COM3	28:COM15
			-11.370	-11.647	-0.078	-2.482	-0.206	-19.389
			30:COM17	30:COM17	18:COM5	22:COM9	26:COM13	22:COM9
	3841	-ve	11.934	7.999	0.064	0.000	0.088	47.669
			20:COM7	28:COM15	24:COM11	-	24:COM11	20:COM7
			-11.370	-18.646	-0.078	-2.482	-0.137	-28.271
			30:COM17	22:COM9	18:COM5	22:COM9	18:COM5	30:COM17
9017	3657	+ve	8.892	6.619	0.122	1.981	0.180	3.607
			20:COM7	20:COM7	20:COM7	20:COM7	28:COM15	28:COM15
			-8.819	-1.623	-0.067	-1.847	-0.267	-15.309
			30:COM17	30:COM17	30:COM17	30:COM17	22:COM9	22:COM9
	3839	-ve	8.892	1.122	0.122	1.981	0.265	3.969
			20:COM7	28:COM15	20:COM7	20:COM7	20:COM7	28:COM15
			-8.819	-7.445	-0.067	-1.847	-0.113	-12.780
			30:COM17	22:COM9	30:COM17	30:COM17	30:COM17	22:COM9

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
9018	3833	+ve	10.760	3.739	0.019	0.430	0.012	0.000
			16:COM3	16:COM3	16:COM3	16:COM3	24:COM11	-
			-10.906	-1.048	-0.013	-0.202	-0.019	-18.874
			26:COM13	26:COM13	26:COM13	26:COM13	18:COM5	34:CVOL3
	3834	-ve	10.760	2.829	0.019	0.430	0.022	0.000
			16:COM3	16:COM3	16:COM3	16:COM3	20:COM7	-
			-10.906	-1.731	-0.013	-0.202	-0.017	-21.732
			26:COM13	26:COM13	26:COM13	26:COM13	30:COM17	34:CVOL3
9019	3834	+ve	10.559	0.910	0.044	0.632	0.035	0.000
			20:COM7	24:COM11	16:COM3	20:COM7	24:COM11	-
			-10.234	-4.081	-0.043	-0.249	-0.039	-21.665
			30:COM17	18:COM5	26:COM13	30:COM17	18:COM5	34:CVOL3
	3835	-ve	10.559	0.227	0.044	0.632	0.049	0.000
			20:COM7	24:COM11	16:COM3	20:COM7	16:COM3	-
			-10.234	-4.991	-0.043	-0.249	-0.050	-18.598
			30:COM17	18:COM5	26:COM13	30:COM17	26:COM13	18:COM5
9020	3835	+ve	10.044	0.000	0.217	1.414	0.144	0.000
			20:COM7	-	16:COM3	20:COM7	24:COM11	-
			-9.472	-6.771	-0.183	-1.297	-0.177	-18.653
			30:COM17	18:COM5	26:COM13	30:COM17	18:COM5	18:COM5
	3836	-ve	10.044	0.000	0.217	1.414	0.251	8.336
			20:COM7	-	16:COM3	20:COM7	16:COM3	24:COM11
			-9.472	-7.747	-0.183	-1.297	-0.218	-11.163
			30:COM17	34:CVOL3	26:COM13	30:COM17	26:COM13	18:COM5
9021	3836	+ve	9.515	0.000	4.646	11.222	1.175	8.409
			28:COM15	-	28:COM15	28:COM15	20:COM7	24:COM11
			-11.537	-9.414	-4.051	-13.217	-1.358	-11.305
			22:COM9	18:COM5	22:COM9	22:COM9	30:COM17	18:COM5
	3658	-ve	9.515	0.000	4.646	11.222	1.371	13.279
			28:COM15	-	28:COM15	28:COM15	28:COM15	16:COM3
			-11.537	-9.683	-4.051	-13.217	-1.207	-9.274
			22:COM9	18:COM5	22:COM9	22:COM9	22:COM9	26:COM13
9022	3837	+ve	0.000	0.000	1.073	0.105	0.000	17.120
			-	-	34:CVOL3	28:COM15	-	34:CVOL3
			-13.805	-5.363	0.000	-0.368	-0.894	0.000
			22:COM9	22:COM9	-	22:COM9	34:CVOL3	-
	3838	-ve	0.000	0.000	1.073	0.105	0.858	27.106
			-	-	34:CVOL3	28:COM15	34:CVOL3	20:COM7
			-13.805	-7.096	0.000	-0.368	0.000	0.000
			22:COM9	22:COM9	-	22:COM9	-	-
9023	3838	+ve	0.000	0.000	0.000	0.007	0.044	27.225
			-	-	-	28:COM15	16:COM3	20:COM7
			-18.444	-7.910	-0.300	-0.990	-0.021	0.000
			22:COM9	22:COM9	22:COM9	22:COM9	26:COM13	-
	3636	-ve	0.000	0.000	0.000	0.007	0.000	41.508
			-	-	-	28:COM15	-	20:COM7
			-18.444	-9.638	-0.300	-0.990	-0.456	0.000
			22:COM9	22:COM9	22:COM9	22:COM9	22:COM9	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
9024	3837	+ve	2.712	0.000	0.149	0.132	0.000	0.081
			34:CVOL3	-	34:CVOL3	16:COM3	-	28:COM1
			0.000	-1.644	0.000	0.000	-0.241	-0.332
			-	32:CVOL1	-	-	34:CVOL3	22:COM9
	3790	-ve	2.712	0.000	0.149	0.132	0.212	13.491
			34:CVOL3	-	34:CVOL3	16:COM3	34:CVOL3	34:CVOL3
			0.000	-7.687	0.000	0.000	0.000	0.000
			-	34:CVOL3	-	-	-	-
9025	3838	+ve	0.000	0.933	0.071	0.110	0.000	0.037
			-	35:CVOL4	20:COM7	20:COM7	-	28:COM1
			-4.845	0.000	0.000	-0.033	-0.118	-0.445
			22:COM9	-	-	30:COM1	22:COM9	22:COM9
	3791	-ve	0.000	0.000	0.071	0.110	0.099	6.344
			-	-	20:COM7	20:COM7	20:COM7	34:CVOL3
			-4.845	-5.159	0.000	-0.033	0.000	0.000
			22:COM9	34:CVOL3	-	30:COM1	-	-
9026	3839	+ve	8.904	1.710	1.695	1.782	1.611	4.147
			20:COM7	28:COM1	28:COM1	16:COM3	20:COM7	28:COM1
			-11.812	-16.088	-2.058	-0.842	-1.377	-13.853
			30:COM1	22:COM9	22:COM9	26:COM1	30:COM1	22:COM9
	3840	-ve	8.904	0.998	1.695	1.782	1.415	29.354
			20:COM7	28:COM1	28:COM1	16:COM3	28:COM1	20:COM7
			-11.812	-17.038	-2.058	-0.842	-1.779	-14.018
			30:COM1	22:COM9	22:COM9	26:COM1	22:COM9	30:COM1
9027	3815	+ve	2.970	4.289	0.059	0.219	0.037	4.786
			28:COM1	20:COM7	20:COM7	28:COM1	28:COM1	28:COM1
			-4.100	-3.335	-0.025	-0.414	-0.080	-15.810
			22:COM9	30:COM1	30:COM1	22:COM9	22:COM9	22:COM9
	3839	-ve	2.970	0.591	0.059	0.219	0.085	1.378
			28:COM1	28:COM1	20:COM7	28:COM1	20:COM7	28:COM1
			-4.100	-8.647	-0.025	-0.414	-0.033	-2.566
			22:COM9	22:COM9	30:COM1	22:COM9	30:COM1	22:COM9
9028	3816	+ve	9.804	7.215	0.024	0.234	0.034	6.702
			28:COM1	20:COM7	20:COM7	28:COM1	28:COM1	28:COM1
			-13.992	-5.301	-0.017	-0.338	-0.054	-11.892
			22:COM9	30:COM1	30:COM1	22:COM9	22:COM9	22:COM9
	3676	-ve	9.804	1.428	0.024	0.234	0.052	27.972
			28:COM1	28:COM1	20:COM7	28:COM1	20:COM7	20:COM7
			-13.992	-13.562	-0.017	-0.338	-0.040	-11.091
			22:COM9	22:COM9	30:COM1	22:COM9	30:COM1	30:COM1
9029	3840	+ve	7.069	0.000	5.336	2.846	1.245	25.865
			28:COM1	-	20:COM7	24:COM1	28:COM1	20:COM7
			-13.169	-14.937	-3.083	-6.240	-2.085	-13.036
			22:COM9	22:COM9	30:COM1	18:COM5	22:COM9	30:COM1
	3676	-ve	7.069	0.000	5.336	2.846	2.124	37.787
			28:COM1	-	20:COM7	24:COM1	20:COM7	20:COM7
			-13.169	-15.392	-3.083	-6.240	-1.187	-11.087
			22:COM9	22:COM9	30:COM1	18:COM5	30:COM1	30:COM1

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
9030	3840	+ve	4.908	3.464	0.172	1.386	0.115	3.934
			28:COM15	20:COM7	20:COM7	20:COM7	28:COM15	24:COM1
			-9.225	-2.313	-0.129	-0.341	-0.155	-8.831
			22:COM9	30:COM1	30:COM1	30:COM1	22:COM9	18:COM5
	3846	-ve	4.908	2.874	0.172	1.386	0.139	2.259
			28:COM15	20:COM7	20:COM7	20:COM7	20:COM7	24:COM1
			-9.225	-2.756	-0.129	-0.341	-0.106	-8.239
			22:COM9	30:COM1	30:COM1	30:COM1	30:COM1	18:COM5
9031	3841	+ve	17.384	4.406	0.602	7.879	0.734	42.918
			20:COM7	28:COM15	28:COM15	20:COM7	20:COM7	20:COM7
			-19.472	-16.342	-1.377	-4.196	-0.354	-26.403
			30:COM1	22:COM9	22:COM9	30:COM1	30:COM1	30:COM1
	3690	-ve	17.384	3.614	0.602	7.879	0.189	56.176
			20:COM7	28:COM15	28:COM15	20:COM7	28:COM15	20:COM7
			-19.472	-17.585	-1.377	-4.196	-0.416	-29.511
			30:COM1	22:COM9	22:COM9	30:COM1	22:COM9	30:COM1
9032	3653	+ve	5.518	4.566	0.011	0.530	0.024	21.106
			24:COM1	20:COM7	28:COM15	20:COM7	20:COM7	16:COM3
			-8.468	0.000	-0.018	-0.129	-0.013	-3.876
			18:COM5	-	22:COM9	30:COM1	30:COM1	26:COM1
	3842	-ve	5.518	3.891	0.011	0.530	0.009	16.860
			24:COM1	20:COM7	28:COM15	20:COM7	28:COM15	16:COM3
			-8.468	0.000	-0.018	-0.129	-0.012	-8.595
			18:COM5	-	22:COM9	30:COM1	22:COM9	26:COM1
9033	3842	+ve	6.200	6.858	0.016	0.447	0.041	16.641
			24:COM1	16:COM3	24:COM1	20:COM7	16:COM3	16:COM3
			-11.237	0.000	-0.047	-0.105	-0.013	-8.751
			18:COM5	-	18:COM5	30:COM1	26:COM1	26:COM1
	3843	-ve	6.200	6.184	0.016	0.447	0.017	4.865
			24:COM1	16:COM3	24:COM1	20:COM7	24:COM1	24:COM1
			-11.237	-0.457	-0.047	-0.105	-0.051	-9.292
			18:COM5	26:COM1	18:COM5	30:COM1	18:COM5	18:COM5
9034	3843	+ve	7.042	5.230	0.032	0.254	0.041	4.833
			24:COM1	16:COM3	24:COM1	20:COM7	16:COM3	24:COM1
			-13.605	-1.624	-0.043	-0.268	-0.030	-9.393
			18:COM5	26:COM1	18:COM5	30:COM1	26:COM1	18:COM5
	3844	-ve	7.042	4.555	0.032	0.254	0.032	0.000
			24:COM1	16:COM3	24:COM1	20:COM7	24:COM1	-
			-13.605	-2.130	-0.043	-0.268	-0.042	-7.134
			18:COM5	26:COM1	18:COM5	30:COM1	18:COM5	18:COM5
9035	3844	+ve	8.260	2.274	0.086	0.262	0.063	0.000
			24:COM1	24:COM1	20:COM7	28:COM15	28:COM15	-
			-15.438	-2.570	-0.082	-0.673	-0.075	-7.084
			18:COM5	18:COM5	30:COM1	22:COM9	22:COM9	18:COM5
	3845	-ve	8.260	1.768	0.086	0.262	0.094	0.535
			24:COM1	24:COM1	20:COM7	28:COM15	20:COM7	24:COM1
			-15.438	-3.244	-0.082	-0.673	-0.097	-9.093
			18:COM5	18:COM5	30:COM1	22:COM9	30:COM1	18:COM5

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
9036	3845	+ve	10.122	2.944	0.239	0.696	0.251	0.559
			24:COM1	28:COM1	28:COM1	28:COM1	20:COM7	24:COM1
			-17.463	-3.189	-0.294	-1.662	-0.209	-8.640
			18:COM5	22:COM9	22:COM9	22:COM9	30:COM1	18:COM5
	3841	-ve	10.122	2.497	0.239	0.696	0.203	4.560
			24:COM1	28:COM1	28:COM1	28:COM1	28:COM1	28:COM1
			-17.463	-3.786	-0.294	-1.662	-0.256	-11.319
			18:COM5	22:COM9	22:COM9	22:COM9	22:COM9	22:COM9
9037	3842	+ve	1.259	2.288	0.062	0.024	0.233	0.389
			24:COM1	24:COM1	28:COM1	28:COM1	20:COM7	24:COM1
			-4.644	-5.188	-0.625	-0.314	-0.024	-0.838
			18:COM5	18:COM5	22:COM9	22:COM9	30:COM1	18:COM5
	3686	-ve	1.259	1.538	0.062	0.024	0.023	3.543
			24:COM1	24:COM1	28:COM1	28:COM1	28:COM1	16:COM3
			-4.644	-6.487	-0.625	-0.314	-0.236	-1.048
			18:COM5	18:COM5	22:COM9	22:COM9	22:COM9	26:COM1
9038	3843	+ve	0.858	1.816	0.216	0.095	0.159	0.375
			20:COM7	16:COM3	28:COM1	28:COM1	20:COM7	20:COM7
			-0.175	0.000	-0.423	-0.197	-0.076	0.000
			30:COM1	-	22:COM9	22:COM9	30:COM1	-
	3687	-ve	0.858	0.517	0.216	0.095	0.087	0.204
			20:COM7	16:COM3	28:COM1	28:COM1	28:COM1	24:COM1
			-0.175	-0.445	-0.423	-0.197	-0.158	-0.568
			30:COM1	26:COM1	22:COM9	22:COM9	22:COM9	18:COM5
9039	3844	+ve	1.624	2.390	0.505	0.246	0.081	0.624
			16:COM3	16:COM3	20:COM7	20:COM7	28:COM1	20:COM7
			-0.432	0.000	-0.239	-0.131	-0.181	-0.047
			26:COM1	-	30:COM1	30:COM1	22:COM9	30:COM1
	3688	-ve	1.624	1.091	0.505	0.246	0.198	0.044
			16:COM3	16:COM3	20:COM7	20:COM7	20:COM7	24:COM1
			-0.432	-0.419	-0.239	-0.131	-0.100	-0.739
			26:COM1	26:COM1	30:COM1	30:COM1	30:COM1	18:COM5
9040	3845	+ve	1.969	2.103	0.954	0.555	0.055	0.656
			28:COM1	28:COM1	20:COM7	20:COM7	28:COM1	16:COM3
			-4.707	-3.333	-0.233	-0.186	-0.318	-0.512
			22:COM9	22:COM9	30:COM1	30:COM1	22:COM9	26:COM1
	3689	-ve	1.969	1.354	0.954	0.555	0.399	3.093
			28:COM1	28:COM1	20:COM7	20:COM7	20:COM7	20:COM7
			-4.707	-4.633	-0.233	-0.186	-0.121	-1.258
			22:COM9	22:COM9	30:COM1	30:COM1	30:COM1	30:COM1
9041	3846	+ve	5.119	3.871	0.017	0.691	0.036	2.067
			28:COM1	16:COM3	28:COM1	20:COM7	20:COM7	24:COM1
			-10.616	-1.491	-0.036	-0.188	-0.025	-8.602
			22:COM9	26:COM1	22:COM9	30:COM1	30:COM1	18:COM5
	3847	-ve	5.119	3.197	0.017	0.691	0.010	0.000
			28:COM1	16:COM3	28:COM1	20:COM7	28:COM1	-
			-10.616	-1.997	-0.036	-0.188	-0.034	-7.405
			22:COM9	26:COM1	22:COM9	30:COM1	22:COM9	22:COM9

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
9042	3847	+ve	4.795	2.536	0.028	0.300	0.027	0.000
			28:COM15	24:COM11	24:COM11	20:COM7	16:COM3	-
			-10.175	-3.941	-0.029	-0.221	-0.025	-7.322
			22:COM9	18:COM5	18:COM5	30:COM17	26:COM13	22:COM9
	3848	-ve	4.795	2.030	0.028	0.300	0.030	3.815
			28:COM15	24:COM11	24:COM11	20:COM7	16:COM3	24:COM17
			-10.175	-4.616	-0.029	-0.221	-0.030	-10.166
			22:COM9	18:COM5	18:COM5	30:COM17	26:COM13	18:COM5
9043	3848	+ve	4.440	0.706	0.041	0.125	0.019	3.854
			28:COM15	24:COM11	16:COM3	28:COM15	24:COM11	24:COM17
			-8.405	-5.657	-0.017	-0.406	-0.044	-10.123
			22:COM9	18:COM5	26:COM13	22:COM9	18:COM5	18:COM5
	3849	-ve	4.440	0.200	0.041	0.125	0.037	14.117
			28:COM15	24:COM11	16:COM3	28:COM15	16:COM3	16:COM3
			-8.405	-6.331	-0.017	-0.406	-0.015	-9.582
			22:COM9	18:COM5	26:COM13	22:COM9	26:COM13	26:COM13
9044	3849	+ve	4.215	0.000	0.021	0.045	0.005	14.345
			28:COM15	-	16:COM3	28:COM15	24:COM11	16:COM3
			-5.934	-4.361	-0.005	-0.468	-0.015	-9.476
			22:COM9	22:COM9	26:COM13	22:COM9	18:COM5	26:COM13
	3651	-ve	4.215	0.000	0.021	0.045	0.026	19.193
			28:COM15	-	16:COM3	28:COM15	16:COM3	16:COM3
			-5.934	-5.036	-0.005	-0.468	-0.006	-4.042
			22:COM9	22:COM9	26:COM13	22:COM9	26:COM13	26:COM13
9045	3846	+ve	1.822	2.449	0.127	0.112	0.341	0.487
			28:COM15	28:COM15	28:COM15	28:COM15	20:COM7	24:COM17
			-5.877	-4.711	-0.943	-0.545	-0.037	-0.554
			22:COM9	22:COM9	22:COM9	22:COM9	30:COM17	18:COM5
	3677	-ve	1.822	1.699	0.127	0.112	0.059	3.630
			28:COM15	28:COM15	28:COM15	28:COM15	28:COM15	20:COM7
			-5.877	-6.011	-0.943	-0.545	-0.367	-1.232
			22:COM9	22:COM9	22:COM9	22:COM9	22:COM9	30:COM17
9046	3847	+ve	1.062	2.282	0.219	0.109	0.221	0.495
			16:COM3	16:COM3	28:COM15	28:COM15	20:COM7	16:COM3
			-0.150	0.000	-0.582	-0.269	-0.080	0.000
			26:COM13	-	22:COM9	22:COM9	30:COM17	-
	3678	-ve	1.062	0.983	0.219	0.109	0.084	0.148
			16:COM3	16:COM3	28:COM15	28:COM15	28:COM15	24:COM17
			-0.150	-0.426	-0.582	-0.269	-0.216	-0.773
			26:COM13	26:COM13	22:COM9	22:COM9	22:COM9	18:COM5
9047	3848	+ve	1.258	2.002	0.387	0.174	0.104	0.428
			20:COM7	16:COM3	20:COM7	20:COM7	28:COM15	20:COM7
			-0.357	0.000	-0.272	-0.109	-0.150	0.000
			30:COM17	-	30:COM17	30:COM17	22:COM9	-
	3679	-ve	1.258	0.703	0.387	0.174	0.141	0.124
			20:COM7	16:COM3	20:COM7	20:COM7	20:COM7	24:COM17
			-0.357	-0.387	-0.272	-0.109	-0.101	-0.635
			30:COM17	26:COM13	30:COM17	30:COM17	30:COM17	18:COM5

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
9048	3849	+ve	2.187	3.070	0.577	0.291	0.029	0.568
			24:COM1	24:COM11	20:COM7	20:COM7	28:COM15	24:COM1
			-4.382	-4.519	-0.070	-0.033	-0.217	-0.756
			18:COM5	18:COM5	30:COM1	30:COM1	22:COM9	18:COM5
	3680	-ve	2.187	2.320	0.577	0.291	0.217	3.122
			24:COM1	24:COM11	20:COM7	20:COM7	20:COM7	16:COM3
			-4.382	-5.818	-0.070	-0.033	-0.023	-1.454
			18:COM5	18:COM5	30:COM1	30:COM1	30:COM1	26:COM1
9049	3850	+ve	1.740	10.630	0.042	0.160	0.066	9.612
			28:COM15	16:COM3	28:COM15	24:COM1	20:COM7	20:COM7
			-3.761	-10.305	-0.072	-0.579	-0.038	0.000
			22:COM9	26:COM1	22:COM9	18:COM5	30:COM1	-
	5504	-ve	1.740	9.103	0.042	0.160	0.048	31.011
			28:COM15	24:COM11	28:COM15	24:COM1	28:COM15	16:COM3
			-3.761	-11.846	-0.072	-0.579	-0.081	-14.954
			22:COM9	18:COM5	22:COM9	18:COM5	22:COM9	26:COM1
9051	3850	+ve	0.427	1.986	0.150	0.144	0.138	0.759
			28:COM15	16:COM3	24:COM11	24:COM1	16:COM3	20:COM7
			-1.637	0.000	-0.224	-0.233	-0.092	0.000
			22:COM9	-	18:COM5	18:COM5	26:COM1	-
	3808	-ve	0.427	0.250	0.150	0.144	0.095	0.605
			28:COM15	24:COM11	24:COM11	24:COM1	24:COM11	16:COM3
			-1.637	-1.337	-0.224	-0.233	-0.142	-0.503
			22:COM9	18:COM5	18:COM5	18:COM5	18:COM5	26:COM1
9052	5504	+ve	2.494	9.518	0.599	24.842	0.009	0.812
			16:COM3	24:COM11	16:COM3	16:COM3	28:COM15	24:COM1
			-1.360	-18.842	-0.135	-5.480	-0.333	-1.009
			26:COM1	18:COM5	26:COM1	26:COM1	22:COM9	18:COM5
	5471	-ve	2.494	7.400	0.599	24.842	0.465	24.509
			16:COM3	24:COM11	16:COM3	16:COM3	16:COM3	16:COM3
			-1.360	-22.164	-0.135	-5.480	-0.211	-9.718
			26:COM1	18:COM5	26:COM1	26:COM1	26:COM1	26:COM1
9053	3852	+ve	50.949	0.000	0.000	9.543	5.277	31.979
			32:CVOL1	-	-	20:COM7	34:CVOL3	32:CVOL1
			0.000	-33.782	-4.922	-3.009	0.000	0.000
			-	34:CVOL3	22:COM9	30:COM1	-	-
	3853	-ve	50.949	0.000	0.000	9.543	0.000	101.559
			32:CVOL1	-	-	20:COM7	-	32:CVOL1
			0.000	-37.957	-4.922	-3.009	-4.724	0.000
			-	32:CVOL1	22:COM9	30:COM1	22:COM9	-
9054	3853	+ve	110.265	0.000	0.000	3.224	9.089	86.086
			34:CVOL3	-	-	34:CVOL3	34:CVOL3	32:CVOL1
			0.000	-54.362	-9.061	-1.416	0.000	0.000
			-	34:CVOL3	34:CVOL3	26:COM1	-	-
	3710	-ve	110.265	0.000	0.000	3.224	0.000	196.332
			34:CVOL3	-	-	34:CVOL3	-	32:CVOL1
			0.000	-58.742	-9.061	-1.416	-8.630	0.000
			-	32:CVOL1	34:CVOL3	26:COM1	34:CVOL3	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
9055	3854	+ve	36.272	31.178	7.082	0.970	0.000	64.362
			32:CVOL1	32:CVOL1	34:CVOL3	28:COM15	-	32:CVOL1
			0.000	0.000	0.000	-5.261	-7.633	0.000
			-	-	-	22:COM9	34:CVOL3	-
	3855	-ve	36.272	27.734	7.082	0.970	6.211	7.268
			32:CVOL1	34:CVOL3	34:CVOL3	28:COM15	34:CVOL3	32:CVOL1
			0.000	0.000	0.000	-5.261	0.000	0.000
			-	-	-	22:COM9	-	-
9056	3854	+ve	1.001	7.143	0.010	0.071	0.000	7.667
			28:COM15	20:COM7	16:COM3	28:COM15	-	20:COM7
			-3.585	0.000	0.000	-0.084	-0.038	0.000
			22:COM9	-	-	22:COM9	18:COM5	-
	3853	-ve	1.001	0.000	0.010	0.071	0.023	17.810
			28:COM15	-	16:COM3	28:COM15	16:COM3	20:COM7
			-3.585	-7.742	0.000	-0.084	-0.002	-4.115
			22:COM9	22:COM9	-	22:COM9	26:COM13	30:COM17
9057	3855	+ve	10.592	19.095	10.793	2.180	0.000	12.461
			32:CVOL1	32:CVOL1	32:CVOL1	20:COM7	-	32:CVOL1
			0.000	0.000	0.000	-1.856	-5.055	0.000
			-	-	-	30:COM17	32:CVOL1	-
	3642	-ve	10.592	17.512	10.793	2.180	3.414	0.000
			32:CVOL1	32:CVOL1	32:CVOL1	20:COM7	32:CVOL1	-
			0.000	0.000	0.000	-1.856	0.000	-2.011
			-	-	-	30:COM17	-	18:COM5
9058	3855	+ve	2.959	6.051	0.003	0.049	0.000	6.335
			28:COM15	35:CVOL4	20:COM7	28:COM15	-	35:CVOL4
			-7.565	0.000	-0.000	-0.033	-0.013	0.000
			22:COM9	-	30:COM17	22:COM9	22:COM9	-
	3852	-ve	2.959	0.000	0.003	0.049	0.008	7.437
			28:COM15	-	20:COM7	28:COM15	20:COM7	20:COM7
			-7.565	-6.215	-0.000	-0.033	-0.004	0.000
			22:COM9	34:CVOL3	30:COM17	22:COM9	30:COM17	-
9059	3856	+ve	0.440	21.032	0.279	2.847	0.339	55.653
			28:COM15	34:CVOL3	28:COM15	16:COM3	20:COM7	34:CVOL3
			-1.255	0.000	-0.265	-0.485	-0.333	0.000
			22:COM9	-	22:COM9	26:COM13	30:COM17	-
	3857	-ve	0.440	18.756	0.279	2.847	0.276	17.443
			28:COM15	34:CVOL3	28:COM15	16:COM3	24:COM11	32:CVOL1
			-1.255	0.000	-0.265	-0.485	-0.243	0.000
			22:COM9	-	22:COM9	26:COM13	18:COM5	-
9060	3857	+ve	0.698	10.792	0.148	0.660	0.118	17.739
			24:COM11	32:CVOL1	20:COM7	32:CVOL1	24:COM11	32:CVOL1
			-0.843	0.000	-0.142	-0.700	-0.165	0.000
			18:COM5	-	30:COM17	35:CVOL4	18:COM5	-
	3646	-ve	0.698	8.137	0.148	0.660	0.135	0.000
			24:COM11	32:CVOL1	20:COM7	32:CVOL1	28:COM15	-
			-0.843	0.000	-0.142	-0.700	-0.169	-0.936
			18:COM5	-	30:COM17	35:CVOL4	22:COM9	32:CVOL1

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
9061	3858	+ve	4.504	27.875	0.577	0.000	0.331	47.252
			16:COM3	34:CVOL3	16:COM3	-	24:COM11	34:CVOL3
			-2.278	0.000	-0.372	-9.092	-0.363	0.000
			26:COM13	-	26:COM13	34:CVOL3	18:COM5	-
	3647	-ve	4.504	25.491	0.577	0.000	0.683	1.433
			16:COM3	34:CVOL3	16:COM3	-	16:COM3	32:CVOL1
			-2.278	0.000	-0.372	-9.092	-0.362	0.000
			26:COM13	-	26:COM13	34:CVOL3	26:COM13	-
9062	3856	+ve	0.000	6.026	0.001	0.138	0.007	4.828
			-	35:CVOL4	24:COM11	16:COM3	16:COM3	20:COM7
			-2.654	0.000	-0.002	0.000	-0.003	0.000
			18:COM5	-	18:COM5	-	26:COM13	-
	3858	-ve	0.000	0.000	0.001	0.138	0.005	7.334
			-	-	24:COM11	16:COM3	24:COM11	34:CVOL3
			-2.654	-6.888	-0.002	0.000	-0.008	0.000
			18:COM5	34:CVOL3	18:COM5	-	18:COM5	-
9063	3857	+ve	3.390	5.768	0.004	0.126	0.000	4.845
			16:COM3	35:CVOL4	20:COM7	16:COM3	-	35:CVOL4
			-0.079	0.000	0.000	0.000	-0.013	0.000
			26:COM13	-	-	-	22:COM9	-
	3647	-ve	3.390	0.000	0.004	0.126	0.013	6.687
			16:COM3	-	20:COM7	16:COM3	20:COM7	34:CVOL3
			-0.079	-6.390	0.000	0.000	0.000	0.000
			26:COM13	34:CVOL3	-	-	-	-
9064	3859	+ve	0.000	0.000	0.445	0.000	0.000	0.351
			-	-	34:CVOL3	-	-	32:CVOL1
			-3.782	-2.286	0.000	-0.507	-0.374	0.000
			22:COM9	34:CVOL3	-	22:COM9	34:CVOL3	-
	3860	-ve	0.000	0.000	0.445	0.000	0.497	6.774
			-	-	34:CVOL3	-	34:CVOL3	34:CVOL3
			-3.782	-4.478	0.000	-0.507	0.000	0.000
			22:COM9	32:CVOL1	-	22:COM9	-	-
9065	3860	+ve	0.000	0.000	0.716	0.000	0.000	6.856
			-	-	34:CVOL3	-	-	34:CVOL3
			-9.759	-4.350	0.000	-0.387	-0.652	0.000
			22:COM9	22:COM9	-	18:COM5	34:CVOL3	-
	3837	-ve	0.000	0.000	0.716	0.000	0.727	17.037
			-	-	34:CVOL3	-	34:CVOL3	34:CVOL3
			-9.759	-6.394	0.000	-0.387	0.000	0.000
			22:COM9	22:COM9	-	18:COM5	-	-
9066	3859	+ve	0.000	2.081	0.062	0.089	0.000	0.435
			-	35:CVOL4	34:CVOL3	20:COM7	-	35:CVOL4
			-3.385	0.000	0.000	0.000	-0.095	-0.010
			22:COM9	-	-	-	34:CVOL3	30:COM17
	3855	-ve	0.000	0.000	0.062	0.089	0.092	3.587
			-	-	34:CVOL3	20:COM7	34:CVOL3	34:CVOL3
			-3.385	-4.088	0.000	0.000	0.000	0.000
			22:COM9	34:CVOL3	-	-	-	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
9067	3860	+ve	0.861	0.141	0.131	0.123	0.000	0.026
			20:COM7	20:COM7	34:CVOL3	16:COM3	-	28:COM1
			-0.006	-0.533	0.000	0.000	-0.210	-0.186
			30:COM1	32:CVOL1	-	-	34:CVOL3	22:COM9
	3854	-ve	0.861	0.000	0.131	0.123	0.189	9.886
			20:COM7	-	34:CVOL3	16:COM3	34:CVOL3	34:CVOL3
			-0.006	-6.482	0.000	0.000	0.000	0.000
			30:COM1	34:CVOL3	-	-	-	-
9068	3861	+ve	0.990	6.531	0.000	0.363	0.023	18.996
			28:COM1	16:COM3	-	16:COM3	20:COM7	16:COM3
			-1.424	0.000	-0.030	0.000	-0.000	0.000
			22:COM9	-	22:COM9	-	30:COM1	-
	3862	-ve	0.990	4.786	0.000	0.363	0.000	8.655
			28:COM1	16:COM3	-	16:COM3	-	34:CVOL3
			-1.424	0.000	-0.030	0.000	-0.043	0.000
			22:COM9	-	22:COM9	-	18:COM5	-
9069	3862	+ve	0.343	4.721	0.000	0.207	0.082	8.560
			24:COM1	32:CVOL1	-	32:CVOL1	16:COM3	34:CVOL3
			-0.462	0.000	-0.074	0.000	0.000	0.000
			18:COM5	-	18:COM5	-	-	-
	3645	-ve	0.343	2.547	0.000	0.207	0.000	0.065
			24:COM1	34:CVOL3	-	32:CVOL1	-	24:COM1
			-0.462	0.000	-0.074	0.000	-0.095	-0.061
			18:COM5	-	18:COM5	-	18:COM5	18:COM5
9070	3861	+ve	0.000	0.000	0.047	0.048	0.061	0.000
			-	-	24:COM11	24:COM1	16:COM3	-
			-6.849	-4.705	-0.099	-0.115	-0.032	-1.954
			18:COM5	18:COM5	18:COM5	18:COM5	26:COM1	18:COM5
	3856	-ve	0.000	0.000	0.047	0.048	0.027	5.225
			-	-	24:COM11	24:COM1	24:COM11	16:COM3
			-6.849	-6.856	-0.099	-0.115	-0.062	0.000
			18:COM5	18:COM5	18:COM5	18:COM5	18:COM5	-
9071	3862	+ve	0.000	0.643	0.000	0.000	0.059	0.186
			-	24:COM11	-	-	34:CVOL3	24:COM1
			-4.235	-1.635	-0.090	-0.086	0.000	-0.596
			18:COM5	18:COM5	34:CVOL3	34:CVOL3	-	18:COM5
	3857	-ve	0.000	0.000	0.000	0.000	0.000	2.760
			-	-	-	-	-	16:COM3
			-4.235	-3.782	-0.090	-0.086	-0.052	0.000
			18:COM5	18:COM5	34:CVOL3	34:CVOL3	34:CVOL3	-
9072	3858	+ve	0.383	8.233	0.004	0.376	0.008	11.809
			28:COM1	34:CVOL3	16:COM3	16:COM3	24:COM11	34:CVOL3
			-1.875	0.000	-0.002	0.000	-0.012	0.000
			22:COM9	-	26:COM1	-	18:COM5	-
	3923	-ve	0.383	0.000	0.004	0.376	0.008	0.362
			28:COM1	-	16:COM3	16:COM3	16:COM3	24:COM1
			-1.875	-2.804	-0.002	0.000	-0.003	-2.883
			22:COM9	35:CVOL4	26:COM1	-	26:COM1	18:COM5

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
9074	3863	+ve	3.405	6.298	0.009	0.379	0.029	14.874
			28:COM15	16:COM3	24:COM11	16:COM3	16:COM3	16:COM3
			-5.522	0.000	-0.037	0.000	-0.006	-7.581
			22:COM9	-	18:COM5	-	26:COM13	26:COM13
	3864	-ve	3.405	5.624	0.009	0.379	0.011	4.122
			28:COM15	16:COM3	24:COM11	16:COM3	24:COM11	24:COM11
			-5.522	-0.361	-0.037	0.000	-0.043	-8.242
			22:COM9	26:COM13	18:COM5	-	18:COM5	18:COM5
9075	3864	+ve	3.049	4.894	0.019	0.149	0.037	3.973
			28:COM15	16:COM3	24:COM11	16:COM3	16:COM3	24:COM11
			-5.426	-1.608	-0.037	-0.004	-0.019	-8.331
			22:COM9	26:COM13	18:COM5	26:COM13	26:COM13	18:COM5
	3865	-ve	3.049	4.220	0.019	0.149	0.019	0.000
			28:COM15	16:COM3	24:COM11	16:COM3	24:COM11	-
			-5.426	-2.114	-0.037	-0.004	-0.035	-6.452
			22:COM9	26:COM13	18:COM5	26:COM13	18:COM5	35:CVOL4
9076	3865	+ve	3.116	2.679	0.031	0.006	0.022	0.000
			28:COM15	24:COM11	16:COM3	24:COM11	24:COM11	-
			-5.139	-3.323	-0.023	-0.150	-0.029	-6.454
			22:COM9	18:COM5	26:COM13	18:COM5	18:COM5	35:CVOL4
	3866	-ve	3.116	2.173	0.031	0.006	0.031	2.864
			28:COM15	24:COM11	16:COM3	24:COM11	16:COM3	24:COM11
			-5.139	-3.998	-0.023	-0.150	-0.023	-10.075
			22:COM9	18:COM5	26:COM13	18:COM5	26:COM13	18:COM5
9077	3866	+ve	3.608	0.891	0.032	0.000	0.015	3.012
			28:COM15	24:COM11	16:COM3	-	24:COM11	24:COM11
			-4.464	-4.832	-0.012	-0.375	-0.037	-10.002
			22:COM9	18:COM5	26:COM13	18:COM5	18:COM5	18:COM5
	3867	-ve	3.608	0.385	0.032	0.000	0.027	11.534
			28:COM15	24:COM11	16:COM3	-	16:COM3	16:COM3
			-4.464	-5.507	-0.012	-0.375	-0.010	-9.687
			22:COM9	18:COM5	26:COM13	18:COM5	26:COM13	26:COM13
9078	3867	+ve	4.296	0.000	0.028	0.000	0.017	11.879
			20:COM7	-	16:COM3	-	24:COM11	16:COM3
			-3.361	-3.289	-0.019	-0.465	-0.018	-9.590
			30:COM17	18:COM5	26:COM13	18:COM5	18:COM5	26:COM13
	3652	-ve	4.296	0.000	0.028	0.000	0.036	14.361
			20:COM7	-	16:COM3	-	16:COM3	16:COM3
			-3.361	-3.963	-0.019	-0.465	-0.021	-4.085
			30:COM17	18:COM5	26:COM13	18:COM5	26:COM13	26:COM13
9079	3863	+ve	1.735	2.654	0.000	0.000	0.203	0.481
			24:COM11	24:COM11	-	-	16:COM3	24:COM11
			-5.140	-5.328	-0.538	-0.273	0.000	-0.929
			18:COM5	18:COM5	18:COM5	18:COM5	-	18:COM5
	3671	-ve	1.735	1.905	0.000	0.000	0.000	3.555
			24:COM11	24:COM11	-	-	-	16:COM3
			-5.140	-6.627	-0.538	-0.273	-0.200	-1.230
			18:COM5	18:COM5	18:COM5	18:COM5	18:COM5	26:COM13

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
9080	3864	+ve	1.021	1.786	0.000	0.000	0.158	0.325
			16:COM3	16:COM3	-	-	16:COM3	16:COM3
			-0.515	0.000	-0.393	-0.158	0.000	0.000
			26:COM1	-	18:COM5	18:COM5	-	-
	3672	-ve	1.021	0.503	0.000	0.000	0.000	0.207
			16:COM3	24:COM1	-	-	-	24:COM1
			-0.515	-0.574	-0.393	-0.158	-0.136	-0.532
			26:COM1	18:COM5	18:COM5	18:COM5	18:COM5	18:COM5
9081	3865	+ve	0.985	1.993	0.093	0.029	0.051	0.352
			20:COM7	35:CVOL4	24:COM1	24:COM1	16:COM3	35:CVOL4
			0.000	0.000	-0.119	-0.029	-0.040	0.000
			-	-	18:COM5	18:COM5	26:COM1	-
	3673	-ve	0.985	0.545	0.093	0.029	0.029	0.000
			20:COM7	20:COM7	24:COM1	24:COM1	24:COM1	-
			0.000	0.000	-0.119	-0.029	-0.038	-0.589
			-	-	18:COM5	18:COM5	18:COM5	35:CVOL4
9082	3866	+ve	1.230	1.852	0.362	0.156	0.015	0.348
			16:COM3	16:COM3	16:COM3	16:COM3	24:COM1	16:COM3
			-0.495	0.000	-0.024	0.000	-0.145	0.000
			26:COM1	-	26:COM1	-	18:COM5	-
	3674	-ve	1.230	0.553	0.362	0.156	0.126	0.153
			16:COM3	16:COM3	16:COM3	16:COM3	16:COM3	24:COM1
			-0.495	-0.485	-0.024	0.000	-0.003	-0.560
			26:COM1	26:COM1	26:COM1	-	26:COM1	18:COM5
9083	3867	+ve	2.192	2.974	0.552	0.276	0.000	0.556
			24:COM1	24:COM1	20:COM7	20:COM7	-	24:COM1
			-4.594	-4.590	0.000	0.000	-0.207	-0.804
			18:COM5	18:COM5	-	-	22:COM9	18:COM5
	3675	-ve	2.192	2.225	0.552	0.276	0.207	3.126
			24:COM1	24:COM1	20:COM7	20:COM7	20:COM7	16:COM3
			-4.594	-5.889	0.000	0.000	0.000	-1.395
			18:COM5	18:COM5	-	-	-	26:COM1
9084	3662	+ve	0.625	7.886	0.005	0.341	0.011	13.177
			16:COM3	34:CVOL3	28:COM1	16:COM3	20:COM7	34:CVOL3
			-0.527	0.000	-0.006	0.000	-0.010	0.000
			26:COM1	-	22:COM9	-	30:COM1	-
	3868	-ve	0.625	0.000	0.005	0.341	0.012	0.171
			16:COM3	-	28:COM1	16:COM3	28:COM1	33:CVOL2
			-0.527	-2.209	-0.006	0.000	-0.014	0.000
			26:COM1	35:CVOL4	22:COM9	-	22:COM9	-
9085	3663	+ve	0.598	7.238	0.004	0.283	0.010	10.940
			24:COM1	34:CVOL3	28:COM1	34:CVOL3	20:COM7	16:COM3
			-0.736	0.000	-0.005	0.000	-0.008	0.000
			18:COM5	-	22:COM9	-	30:COM1	-
	3869	-ve	0.598	0.000	0.004	0.283	0.009	0.486
			24:COM1	-	28:COM1	34:CVOL3	28:COM1	16:COM3
			-0.736	-2.848	-0.005	0.000	-0.012	-0.049
			18:COM5	18:COM5	22:COM9	-	22:COM9	26:COM1

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
9086	3664	+ve	0.000	6.980	0.005	0.205	0.005	11.855
			-	34:CVOL3	20:COM7	34:CVOL3	28:COM15	16:COM3
			-1.627	0.000	-0.003	0.000	-0.012	0.000
			18:COM5	-	30:COM17	-	22:COM9	-
	3870	-ve	0.000	0.000	0.005	0.205	0.011	1.491
			-	-	20:COM7	34:CVOL3	20:COM7	16:COM3
			-1.627	-3.112	-0.003	0.000	-0.007	0.000
			18:COM5	18:COM5	30:COM17	-	30:COM17	-
9087	3871	+ve	4.319	1.709	0.263	0.265	0.263	28.133
			28:COM15	24:COM11	24:COM11	28:COM15	16:COM3	16:COM3
			-5.425	-6.066	-0.311	-2.314	-0.240	-6.969
			22:COM9	18:COM5	18:COM5	22:COM9	26:COM13	26:COM13
	3654	-ve	4.319	1.134	0.263	0.265	0.205	27.763
			28:COM15	24:COM11	24:COM11	28:COM15	24:COM11	20:COM7
			-5.425	-6.832	-0.311	-2.314	-0.261	0.000
			22:COM9	18:COM5	18:COM5	22:COM9	18:COM5	-
9088	3579	+ve	8.404	27.712	0.054	1.709	0.050	59.647
			20:COM7	20:COM7	24:COM11	20:COM7	16:COM3	20:COM7
			-5.818	-10.485	-0.060	-0.496	-0.042	-31.848
			30:COM17	30:COM17	18:COM5	30:COM17	26:COM13	30:COM17
	3871	-ve	8.404	22.999	0.054	1.709	0.082	1.607
			20:COM7	20:COM7	24:COM11	20:COM7	24:COM11	28:COM15
			-5.818	-13.324	-0.060	-0.496	-0.089	-5.036
			30:COM17	30:COM17	18:COM5	30:COM17	18:COM5	22:COM9
9089	3811	+ve	7.882	26.322	0.071	1.622	0.070	13.309
			16:COM3	34:CVOL3	16:COM3	34:CVOL3	24:COM11	20:COM7
			-8.619	0.000	-0.083	0.000	-0.064	-8.764
			26:COM13	-	26:COM13	-	18:COM5	30:COM17
	3810	-ve	7.882	24.472	0.071	1.622	0.078	0.000
			16:COM3	34:CVOL3	16:COM3	34:CVOL3	24:COM11	-
			-8.619	0.000	-0.083	0.000	-0.097	-47.268
			26:COM13	-	26:COM13	-	18:COM5	34:CVOL3
9090	3810	+ve	10.218	0.996	0.083	0.000	0.090	0.000
			16:COM3	28:COM15	16:COM3	-	24:COM11	-
			-11.089	-4.390	-0.078	-1.051	-0.099	-42.776
			26:COM13	35:CVOL4	26:COM13	35:CVOL4	18:COM5	34:CVOL3
	3809	-ve	10.218	0.325	0.083	0.000	0.063	0.000
			16:COM3	28:COM15	16:COM3	-	24:COM11	-
			-11.089	-4.937	-0.078	-1.051	-0.062	-36.980
			26:COM13	22:COM9	26:COM13	35:CVOL4	18:COM5	34:CVOL3
9091	3809	+ve	9.751	0.000	0.033	0.000	0.039	0.000
			24:COM17	-	24:COM11	-	16:COM3	-
			-10.850	-5.833	-0.035	-0.926	-0.040	-37.150
			18:COM5	18:COM5	18:COM5	18:COM5	26:COM13	34:CVOL3
	3868	-ve	9.751	0.000	0.033	0.000	0.027	0.000
			24:COM17	-	24:COM11	-	24:COM11	-
			-10.850	-6.761	-0.035	-0.926	-0.031	-26.188
			18:COM5	18:COM5	18:COM5	18:COM5	18:COM5	34:CVOL3

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
9092	3868	+ve	9.904	0.000	0.024	0.000	0.031	0.000
			24:COM1	-	28:COM1	-	20:COM7	-
			-11.239	-8.287	-0.026	-0.820	-0.031	-26.487
			18:COM5	18:COM5	22:COM9	18:COM5	30:COM1	34:CVOL
	3869	-ve	9.904	0.000	0.024	0.000	0.018	0.619
			24:COM1	-	28:COM1	-	24:COM1	24:COM1
			-11.239	-9.803	-0.026	-0.820	-0.023	-12.436
			18:COM5	34:CVOL	22:COM9	18:COM5	18:COM5	18:COM5
9093	3869	+ve	10.089	0.000	0.046	0.000	0.012	0.577
			24:COM1	-	20:COM7	-	28:COM1	24:COM1
			-11.868	-12.002	-0.004	-0.475	-0.049	-12.699
			18:COM5	34:CVOL	30:COM1	34:CVOL	22:COM9	18:COM5
	3870	-ve	10.089	0.000	0.046	0.000	0.042	20.093
			24:COM1	-	20:COM7	-	16:COM3	16:COM3
			-11.868	-13.852	-0.004	-0.475	0.000	0.000
			18:COM5	34:CVOL	30:COM1	34:CVOL	-	-
9094	3870	+ve	9.402	0.000	0.072	1.160	0.000	19.900
			24:COM1	-	16:COM3	16:COM3	-	16:COM3
			-14.079	-16.295	0.000	0.000	-0.070	0.000
			18:COM5	34:CVOL	-	-	18:COM5	-
	3650	-ve	9.402	0.000	0.072	1.160	0.076	50.134
			24:COM1	-	16:COM3	16:COM3	16:COM3	34:CVOL
			-14.079	-18.146	0.000	0.000	0.000	0.000
			18:COM5	34:CVOL	-	-	-	-
9095	3805	+ve	12.618	5.286	0.060	0.339	0.119	1.847
			20:COM7	16:COM3	24:COM1	16:COM3	16:COM3	24:COM1
			-8.405	0.000	-0.093	-0.337	-0.074	-9.815
			30:COM1	-	18:COM5	26:COM1	26:COM1	18:COM5
	3804	-ve	12.618	3.573	0.060	0.339	0.052	0.000
			20:COM7	16:COM3	24:COM1	16:COM3	28:COM1	-
			-8.405	-0.230	-0.093	-0.337	-0.072	-12.675
			30:COM1	26:COM1	18:COM5	26:COM1	22:COM9	18:COM5
9096	3804	+ve	12.747	2.386	0.051	0.076	0.037	0.000
			20:COM7	16:COM3	20:COM7	28:COM1	16:COM3	-
			-7.942	-0.832	-0.036	-0.117	-0.028	-12.646
			30:COM1	26:COM1	30:COM1	22:COM9	26:COM1	18:COM5
	3830	-ve	12.747	0.891	0.051	0.076	0.083	0.000
			20:COM7	24:COM1	20:COM7	28:COM1	20:COM7	-
			-7.942	-2.336	-0.036	-0.117	-0.046	-11.983
			30:COM1	18:COM5	30:COM1	22:COM9	30:COM1	22:COM9
9097	3830	+ve	10.348	0.000	0.079	0.238	0.014	0.000
			20:COM7	-	20:COM7	24:COM1	28:COM1	-
			-5.978	-3.031	-0.012	-0.300	-0.064	-11.930
			30:COM1	22:COM9	30:COM1	18:COM5	22:COM9	22:COM9
	3831	-ve	10.348	0.000	0.079	0.238	0.096	0.000
			20:COM7	-	20:COM7	24:COM1	20:COM7	-
			-5.978	-4.744	-0.012	-0.300	-0.014	-8.408
			30:COM1	22:COM9	30:COM1	18:COM5	30:COM1	22:COM9

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
9098	3831	+ve	6.738	0.000	0.059	0.363	0.006	0.000
			20:COM7	-	16:COM3	24:COM1	28:COM1	-
			-3.923	-4.897	-0.016	-0.525	-0.053	-8.315
			30:COM1	22:COM9	26:COM1	18:COM5	22:COM9	22:COM9
	3832	-ve	6.738	0.000	0.059	0.363	0.067	9.361
			20:COM7	-	16:COM3	24:COM1	16:COM3	20:COM7
			-3.923	-6.611	-0.016	-0.525	-0.029	-1.337
			30:COM1	22:COM9	26:COM1	18:COM5	26:COM1	30:COM1
9099	3832	+ve	3.269	0.000	0.005	0.794	0.097	9.326
			20:COM7	-	28:COM1	24:COM1	16:COM3	20:COM7
			-3.586	-6.839	-0.112	-0.801	-0.001	-1.253
			30:COM1	18:COM5	22:COM9	18:COM5	26:COM1	30:COM1
	3640	-ve	3.269	0.000	0.005	0.794	0.020	21.704
			20:COM7	-	28:COM1	24:COM1	28:COM1	20:COM7
			-3.586	-8.555	-0.112	-0.801	-0.135	0.000
			30:COM1	18:COM5	22:COM9	18:COM5	22:COM9	-
9102	3882	+ve	0.420	2.075	0.038	0.337	0.067	0.325
			20:COM7	20:COM7	24:COM1	16:COM3	16:COM3	16:COM3
			-0.183	-0.549	-0.079	-0.365	-0.040	-0.269
			30:COM1	30:COM1	18:COM5	26:COM1	26:COM1	26:COM1
	3886	-ve	0.420	0.367	0.038	0.337	0.011	1.374
			20:COM7	28:COM1	24:COM1	16:COM3	24:COM1	28:COM1
			-0.183	-1.991	-0.079	-0.365	-0.038	-1.253
			30:COM1	22:COM9	18:COM5	26:COM1	18:COM5	22:COM9
9103	3882	+ve	0.800	0.549	0.041	0.373	0.045	0.218
			16:COM3	28:COM1	16:COM3	24:COM1	24:COM1	24:COM1
			0.000	-2.075	-0.035	-0.417	-0.053	-0.262
			-	22:COM9	26:COM1	18:COM5	18:COM5	18:COM5
	3889	-ve	0.800	0.000	0.041	0.373	0.041	7.128
			16:COM3	-	16:COM3	24:COM1	24:COM1	20:COM7
			0.000	-4.049	-0.035	-0.417	-0.034	0.000
			-	22:COM9	26:COM1	18:COM5	18:COM5	-
9104	3829	+ve	2.495	7.974	0.204	1.520	0.121	14.034
			16:COM3	20:COM7	24:COM1	16:COM3	16:COM3	16:COM3
			-2.527	0.000	-0.244	-0.286	-0.096	0.000
			26:COM1	-	18:COM5	26:COM1	26:COM1	-
	3883	-ve	2.495	6.920	0.204	1.520	0.108	12.459
			16:COM3	20:COM7	24:COM1	16:COM3	24:COM1	16:COM3
			-2.527	-0.223	-0.244	-0.286	-0.122	-2.878
			26:COM1	30:COM1	18:COM5	26:COM1	18:COM5	26:COM1
9105	3883	+ve	3.714	6.920	0.151	2.072	0.243	8.958
			16:COM3	20:COM7	28:COM1	24:COM1	20:COM7	16:COM3
			-3.861	-0.223	-0.413	-8.791	-0.143	-2.018
			26:COM1	30:COM1	22:COM9	18:COM5	30:COM1	26:COM1
	3885	-ve	3.714	3.578	0.151	2.072	0.108	10.008
			16:COM3	20:COM7	28:COM1	24:COM1	28:COM1	16:COM3
			-3.861	-2.730	-0.413	-8.791	-0.435	-9.210
			26:COM1	30:COM1	22:COM9	18:COM5	22:COM9	26:COM1

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
9107	3885	+ve	0.000	0.000	0.037	0.082	0.101	0.000
			-	-	24:COM11	24:COM1	16:COM3	-
			-2.809	-3.327	-0.122	-0.271	-0.029	-3.491
			18:COM5	18:COM5	18:COM5	18:COM5	26:COM1	18:COM5
	3770	-ve	0.000	0.000	0.037	0.082	0.033	4.465
			-	-	24:COM11	24:COM1	24:COM11	16:COM3
			-2.809	-6.215	-0.122	-0.271	-0.103	0.000
			18:COM5	18:COM5	18:COM5	18:COM5	18:COM5	-
9108	3885	+ve	7.836	4.665	0.188	1.980	0.327	12.710
			16:COM3	20:COM7	24:COM11	24:COM1	16:COM3	16:COM3
			-6.798	-0.172	-0.305	-6.648	-0.222	-9.137
			26:COM1	30:COM1	18:COM5	18:COM5	26:COM1	26:COM1
	3884	-ve	7.836	0.613	0.188	1.980	0.268	14.959
			16:COM3	28:COM1	24:COM11	24:COM1	28:COM1	16:COM3
			-6.798	-3.475	-0.305	-6.648	-0.403	-13.055
			26:COM1	22:COM9	18:COM5	18:COM5	22:COM9	26:COM1
9109	3886	+ve	1.219	5.994	0.033	0.459	0.020	2.332
			20:COM7	16:COM3	16:COM3	24:COM1	24:COM11	24:COM1
			0.000	-2.715	-0.018	-0.799	-0.033	-2.480
			-	26:COM1	26:COM1	18:COM5	18:COM5	18:COM5
	3903	-ve	1.219	3.384	0.033	0.459	0.032	4.641
			20:COM7	16:COM3	16:COM3	24:COM1	20:COM7	24:COM1
			0.000	-4.672	-0.018	-0.799	-0.016	-6.696
			-	26:COM1	26:COM1	18:COM5	30:COM1	18:COM5
9110	3886	+ve	0.000	0.870	0.398	3.612	0.119	1.183
			-	24:COM11	16:COM3	24:COM1	24:COM11	24:COM1
			-1.614	-5.773	-0.215	-3.221	-0.353	-1.356
			22:COM9	18:COM5	26:COM1	18:COM5	18:COM5	18:COM5
	3887	-ve	0.000	0.000	0.398	3.612	0.384	11.241
			-	-	16:COM3	24:COM1	16:COM3	16:COM3
			-1.614	-7.898	-0.215	-3.221	-0.279	0.000
			22:COM9	18:COM5	26:COM1	18:COM5	26:COM1	-
9111	3888	+ve	9.876	0.000	0.176	4.655	0.149	41.257
			20:COM7	-	28:COM1	28:COM1	24:COM11	16:COM3
			0.000	-20.278	-0.413	-5.282	-0.173	0.000
			-	18:COM5	22:COM9	22:COM9	18:COM5	-
	3603	-ve	9.876	0.000	0.176	4.655	0.197	80.515
			20:COM7	-	28:COM1	28:COM1	28:COM1	16:COM3
			0.000	-22.403	-0.413	-5.282	-0.658	0.000
			-	18:COM5	22:COM9	22:COM9	22:COM9	-
9112	3889	+ve	1.579	0.000	0.026	0.320	0.063	7.295
			16:COM3	-	28:COM1	28:COM1	20:COM7	20:COM7
			-0.122	-4.362	-0.061	-0.640	-0.024	0.000
			26:COM1	18:COM5	22:COM9	22:COM9	30:COM1	-
	3890	-ve	1.579	0.000	0.026	0.320	0.025	14.885
			16:COM3	-	28:COM1	28:COM1	24:COM11	20:COM7
			-0.122	-5.962	-0.061	-0.640	-0.051	0.000
			26:COM1	18:COM5	22:COM9	22:COM9	18:COM5	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
9113	3890	+ve	2.508	0.000	0.041	0.232	0.061	15.061
			28:COM1	-	24:COM1	28:COM1	16:COM3	20:COM7
			-2.426	-8.059	-0.075	-0.514	-0.041	0.000
			22:COM9	18:COM5	18:COM5	22:COM9	26:COM1	-
	3637	-ve	2.508	0.000	0.041	0.232	0.037	28.298
			28:COM1	-	24:COM1	28:COM1	24:COM1	16:COM3
			-2.426	-9.660	-0.075	-0.514	-0.078	0.000
			22:COM9	18:COM5	18:COM5	22:COM9	18:COM5	-
9114	3889	+ve	2.705	2.452	0.100	0.163	0.066	0.499
			24:COM1	16:COM3	16:COM3	16:COM3	24:COM1	16:COM3
			-4.376	-1.594	-0.102	-0.118	-0.066	-0.474
			18:COM5	26:COM1	26:COM1	26:COM1	18:COM5	26:COM1
	3887	-ve	2.705	0.897	0.100	0.163	0.060	2.520
			24:COM1	24:COM1	16:COM3	16:COM3	16:COM3	16:COM3
			-4.376	-3.454	-0.102	-0.118	-0.062	-1.434
			18:COM5	18:COM5	26:COM1	26:COM1	26:COM1	26:COM1
9115	3890	+ve	1.759	2.123	0.135	0.158	0.032	0.624
			24:COM1	16:COM3	20:COM7	20:COM7	28:COM1	24:COM1
			-3.826	-2.194	-0.054	-0.072	-0.081	-0.971
			18:COM5	26:COM1	30:COM1	30:COM1	22:COM9	18:COM5
	3888	-ve	1.759	0.745	0.135	0.158	0.087	2.967
			24:COM1	24:COM1	20:COM7	20:COM7	20:COM7	16:COM3
			-3.826	-4.231	-0.054	-0.072	-0.035	-1.089
			18:COM5	18:COM5	30:COM1	30:COM1	30:COM1	26:COM1
9116	3891	+ve	1.029	0.000	0.344	8.239	0.636	0.040
			28:COM1	-	24:COM1	20:COM7	16:COM3	28:COM1
			-2.505	-14.958	-0.804	-1.500	-0.234	-3.427
			22:COM9	32:CVOL1	18:COM5	30:COM1	26:COM1	22:COM9
	3897	-ve	1.029	0.000	0.344	8.239	0.264	20.216
			28:COM1	-	24:COM1	20:COM7	24:COM1	32:CVOL1
			-2.505	-16.872	-0.804	-1.500	-0.516	0.000
			22:COM9	32:CVOL1	18:COM5	30:COM1	18:COM5	-
9117	3852	+ve	0.000	3.406	0.000	0.157	0.078	2.473
			-	20:COM7	-	20:COM7	32:CVOL1	34:CVOL3
			-6.202	0.000	-0.087	0.000	0.000	0.000
			22:COM9	-	22:COM9	-	-	-
	3896	-ve	0.000	0.813	0.000	0.157	0.000	0.708
			-	28:COM1	-	20:COM7	-	28:COM1
			-6.202	-0.310	-0.087	0.000	-0.066	-1.501
			22:COM9	22:COM9	22:COM9	-	22:COM9	22:COM9
9118	3892	+ve	0.665	0.000	0.000	0.708	0.059	0.724
			16:COM3	-	-	20:COM7	20:COM7	20:COM7
			-0.598	-2.682	-0.049	-0.035	0.000	-0.062
			26:COM1	34:CVOL3	22:COM9	30:COM1	-	30:COM1
	3895	-ve	0.665	0.000	0.000	0.708	0.000	9.141
			16:COM3	-	-	20:COM7	-	32:CVOL1
			-0.598	-5.120	-0.049	-0.035	-0.054	0.000
			26:COM1	32:CVOL1	22:COM9	30:COM1	22:COM9	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
9119	3891	+ve	0.300	4.809	0.013	0.070	0.055	3.606
			20:COM7	32:CVOL1	28:COM1	28:COM1	20:COM7	16:COM3
			-0.325	0.000	-0.044	-0.914	-0.016	0.000
			30:COM1	-	22:COM9	22:COM9	30:COM1	-
	3892	-ve	0.300	0.000	0.013	0.070	0.018	0.436
			20:COM7	-	28:COM1	28:COM1	28:COM1	20:COM7
			-0.325	-2.682	-0.044	-0.914	-0.057	-0.014
			30:COM1	34:CVOL3	22:COM9	22:COM9	22:COM9	30:COM1
9121	3893	+ve	3.862	0.000	0.020	0.502	0.047	0.000
			20:COM7	-	28:COM1	28:COM1	20:COM7	-
			-2.527	-3.656	-0.028	-1.111	-0.042	-15.230
			30:COM1	22:COM9	22:COM9	22:COM9	30:COM1	34:CVOL3
	3891	-ve	3.862	0.000	0.020	0.502	0.033	11.632
			20:COM7	-	28:COM1	28:COM1	28:COM1	20:COM7
			-2.527	-10.148	-0.028	-1.111	-0.057	0.000
			30:COM1	32:CVOL1	22:COM9	22:COM9	22:COM9	-
9123	3644	+ve	0.000	5.889	0.050	0.832	0.000	1.813
			-	32:CVOL1	20:COM7	20:COM7	-	20:COM7
			-5.315	0.000	0.000	-0.343	-0.076	0.000
			32:CVOL1	-	-	30:COM1	22:COM9	-
	3896	-ve	0.000	2.405	0.050	0.832	0.058	0.000
			-	34:CVOL3	20:COM7	20:COM7	20:COM7	-
			-5.315	0.000	0.000	-0.343	0.000	-9.422
			32:CVOL1	-	-	30:COM1	-	34:CVOL3
9124	3894	+ve	0.000	5.748	0.000	0.016	0.061	6.980
			-	20:COM7	-	28:COM1	20:COM7	20:COM7
			-8.818	0.000	-0.049	-0.226	0.000	0.000
			22:COM9	-	22:COM9	22:COM9	-	-
	3716	-ve	0.000	1.533	0.000	0.016	0.000	0.000
			-	20:COM7	-	28:COM1	-	-
			-8.818	-0.170	-0.049	-0.226	-0.058	-1.917
			22:COM9	30:COM1	22:COM9	22:COM9	22:COM9	18:COM5
9125	3897	+ve	0.066	4.377	0.000	0.003	0.071	4.812
			28:COM1	20:COM7	-	28:COM1	20:COM7	20:COM7
			-6.660	0.000	-0.058	-0.275	0.000	0.000
			22:COM9	-	22:COM9	22:COM9	-	-
	3895	-ve	0.066	0.532	0.000	0.003	0.000	0.111
			28:COM1	28:COM1	-	28:COM1	-	24:COM1
			-6.660	-1.178	-0.058	-0.275	-0.069	-0.735
			22:COM9	22:COM9	22:COM9	22:COM9	22:COM9	18:COM5
9126	3894	+ve	2.047	0.000	0.000	8.973	1.446	70.230
			20:COM7	-	-	20:COM7	16:COM3	32:CVOL1
			-1.413	-39.593	-1.406	-3.635	0.000	0.000
			30:COM1	34:CVOL3	18:COM5	30:COM1	-	-
	3597	-ve	2.047	0.000	0.000	8.973	0.101	157.785
			20:COM7	-	-	20:COM7	24:COM1	34:CVOL3
			-1.413	-42.091	-1.406	-3.635	-1.604	0.000
			30:COM1	34:CVOL3	18:COM5	30:COM1	18:COM5	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
9127	3897	+ve	0.551	0.000	0.142	8.116	0.386	20.227
			28:COM15	-	28:COM15	20:COM7	20:COM7	32:CVOL1
			-2.437	-24.401	-0.497	-2.845	-0.121	0.000
			22:COM9	34:CVOL3	22:COM9	30:COM17	30:COM17	-
	3894	-ve	0.551	0.000	0.142	8.116	0.171	70.412
			28:COM15	-	28:COM15	20:COM7	28:COM15	32:CVOL1
			-2.437	-26.841	-0.497	-2.845	-0.603	0.000
			22:COM9	32:CVOL1	22:COM9	30:COM17	22:COM9	-
9128	3895	+ve	1.833	0.000	0.000	1.010	0.065	9.347
			20:COM7	-	-	20:COM7	20:COM7	32:CVOL1
			-1.593	-5.636	-0.058	0.000	0.000	0.000
			30:COM17	18:COM5	22:COM9	-	-	-
	3716	-ve	1.833	0.000	0.000	1.010	0.000	21.907
			20:COM7	-	-	20:COM7	-	34:CVOL3
			-1.593	-7.558	-0.058	0.000	-0.052	0.000
			30:COM17	18:COM5	22:COM9	-	22:COM9	-
9130	3893	+ve	8.036	2.550	0.003	0.065	0.054	1.344
			20:COM7	34:CVOL3	28:COM15	28:COM15	20:COM7	20:COM7
			-7.065	0.000	-0.033	-0.322	-0.005	-1.684
			30:COM17	-	22:COM9	22:COM9	30:COM17	30:COM17
	3897	-ve	8.036	0.000	0.003	0.065	0.005	4.578
			20:COM7	-	28:COM15	28:COM15	28:COM15	20:COM7
			-7.065	-4.481	-0.033	-0.322	-0.059	0.000
			30:COM17	35:CVOL4	22:COM9	22:COM9	22:COM9	-
9131	3896	+ve	0.444	5.906	0.000	0.000	0.041	6.236
			24:COM17	34:CVOL3	-	-	20:COM7	34:CVOL3
			-5.617	0.000	-0.011	-0.163	0.000	0.000
			18:COM5	-	22:COM9	18:COM5	-	-
	3893	-ve	0.444	0.000	0.000	0.000	0.000	5.314
			24:COM17	-	-	-	-	34:CVOL3
			-5.617	-5.627	-0.011	-0.163	-0.035	0.000
			18:COM5	34:CVOL3	22:COM9	18:COM5	22:COM9	-
9133	3900	+ve	8.614	0.000	1.544	2.485	1.457	64.269
			28:COM15	-	20:COM7	28:COM15	28:COM15	20:COM7
			-23.486	-46.472	-1.144	-27.296	-1.657	0.000
			22:COM9	22:COM9	30:COM17	22:COM9	22:COM9	-
	3584	-ve	8.614	0.000	1.544	2.485	1.762	169.931
			28:COM15	-	20:COM7	28:COM15	20:COM7	20:COM7
			-23.486	-49.024	-1.144	-27.296	-1.077	0.000
			22:COM9	22:COM9	30:COM17	22:COM9	30:COM17	-
9134	3899	+ve	6.964	0.000	1.301	0.000	4.446	4.428
			28:COM15	-	24:COM11	-	20:COM7	20:COM7
			-15.741	-18.739	-3.574	-5.924	-0.420	0.000
			22:COM9	22:COM9	18:COM5	22:COM9	30:COM17	-
	5694	-ve	6.964	0.000	1.301	0.000	1.953	37.779
			28:COM15	-	24:COM11	-	16:COM3	20:COM7
			-15.741	-20.700	-3.574	-5.924	-1.792	0.000
			22:COM9	22:COM9	18:COM5	22:COM9	26:COM13	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
9138	3817	+ve	9.229	0.000	0.056	0.776	0.049	0.562
			20:COM7	-	16:COM3	16:COM3	28:COM15	24:COM11
			-6.362	-4.195	-0.063	-0.672	-0.044	-6.710
			30:COM17	18:COM5	26:COM13	26:COM13	22:COM9	18:COM5
	5330	-ve	9.229	0.000	0.056	0.776	0.066	4.010
			20:COM7	-	16:COM3	16:COM3	16:COM3	20:COM7
			-6.362	-5.240	-0.063	-0.672	-0.073	-0.276
			30:COM17	34:CVOL3	26:COM13	26:COM13	26:COM13	30:COM17
9142	5323	+ve	10.403	0.017	0.040	1.003	0.044	0.000
			20:COM7	24:COM11	28:COM15	16:COM3	20:COM7	-
			-7.085	-1.404	-0.048	-0.749	-0.042	-9.565
			30:COM17	18:COM5	22:COM9	26:COM13	30:COM17	18:COM5
	3817	-ve	10.403	0.000	0.040	1.003	0.035	0.174
			20:COM7	-	28:COM15	16:COM3	28:COM15	24:COM11
			-7.085	-2.665	-0.048	-0.749	-0.049	-6.307
			30:COM17	32:CVOL1	22:COM9	26:COM13	22:COM9	18:COM5
9145	3887	+ve	10.465	0.000	0.211	4.866	1.209	13.806
			20:COM7	-	28:COM15	28:COM15	20:COM7	16:COM3
			-2.158	-13.991	-0.946	-7.681	-0.343	-4.058
			30:COM17	35:CVOL4	22:COM9	22:COM9	30:COM17	26:COM13
	3888	-ve	10.465	0.000	0.211	4.866	0.047	41.405
			20:COM7	-	28:COM15	28:COM15	28:COM15	16:COM3
			-2.158	-16.123	-0.946	-7.681	-0.535	0.000
			30:COM17	33:CVOL2	22:COM9	22:COM9	22:COM9	-
9146	3903	+ve	4.699	1.116	0.079	0.769	0.020	8.561
			20:COM7	24:COM11	20:COM7	16:COM3	28:COM15	24:COM11
			-2.657	-7.078	-0.026	-0.533	-0.083	-19.277
			30:COM17	18:COM5	30:COM17	26:COM13	22:COM9	18:COM5
	3887	-ve	4.699	0.261	0.079	0.769	0.075	7.959
			20:COM7	24:COM11	20:COM7	16:COM3	20:COM7	16:COM3
			-2.657	-8.217	-0.026	-0.533	-0.035	-4.923
			30:COM17	18:COM5	30:COM17	26:COM13	30:COM17	26:COM13
9147	5324	+ve	13.139	4.474	0.122	0.000	0.262	7.127
			20:COM7	35:CVOL4	24:COM11	-	16:COM3	16:COM3
			-11.477	0.000	-0.247	-1.547	-0.154	0.000
			30:COM17	-	18:COM5	18:COM5	26:COM13	-
	5329	-ve	13.139	3.448	0.122	0.000	0.065	0.884
			20:COM7	35:CVOL4	24:COM11	-	24:COM11	28:COM15
			-11.477	0.000	-0.247	-1.547	-0.178	-3.190
			30:COM17	-	18:COM5	18:COM5	18:COM5	22:COM9
9148	3907	+ve	9.912	3.667	0.079	0.131	0.069	0.000
			20:COM7	16:COM3	16:COM3	24:COM11	24:COM11	-
			-7.097	0.000	-0.076	-0.658	-0.073	-8.408
			30:COM17	-	26:COM13	18:COM5	18:COM5	22:COM9
	3908	-ve	9.912	2.572	0.079	0.131	0.078	0.000
			20:COM7	16:COM3	16:COM3	24:COM11	16:COM3	-
			-7.097	0.000	-0.076	-0.658	-0.076	-12.928
			30:COM17	-	26:COM13	18:COM5	26:COM13	22:COM9

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
9149	3908	+ve	9.746	3.557	0.070	0.418	0.081	0.000
			20:COM7	16:COM3	20:COM7	24:COM1	28:COM1	-
			-5.839	-0.375	-0.069	-0.498	-0.068	-12.748
			30:COM1	26:COM1	30:COM1	18:COM5	22:COM9	22:COM9
	3909	-ve	9.746	2.463	0.070	0.418	0.066	0.000
			20:COM7	16:COM3	20:COM7	24:COM1	20:COM7	-
			-5.839	-1.196	-0.069	-0.498	-0.052	-14.374
			30:COM1	26:COM1	30:COM1	18:COM5	30:COM1	18:COM5
9150	3909	+ve	9.597	2.566	0.060	0.328	0.062	0.000
			20:COM7	24:COM1	20:COM7	20:COM7	28:COM1	-
			-5.516	-2.511	-0.046	-0.145	-0.061	-14.411
			30:COM1	18:COM5	30:COM1	30:COM1	22:COM9	18:COM5
	3910	-ve	9.597	1.744	0.060	0.328	0.060	0.000
			20:COM7	24:COM1	20:COM7	20:COM7	20:COM7	-
			-5.516	-3.606	-0.046	-0.145	-0.031	-17.926
			30:COM1	18:COM5	30:COM1	30:COM1	30:COM1	18:COM5
9151	3910	+ve	8.782	1.558	0.084	1.216	0.031	0.000
			20:COM7	28:COM1	20:COM7	20:COM7	28:COM1	-
			-5.184	-4.658	-0.033	-0.602	-0.075	-17.900
			30:COM1	22:COM9	30:COM1	30:COM1	22:COM9	18:COM5
	3903	-ve	8.782	0.737	0.084	1.216	0.095	6.072
			20:COM7	28:COM1	20:COM7	20:COM7	20:COM7	24:COM1
			-5.184	-5.752	-0.033	-0.602	-0.042	-17.958
			30:COM1	22:COM9	30:COM1	30:COM1	30:COM1	18:COM5
9153	3907	+ve	0.289	0.664	0.012	0.250	0.030	0.553
			28:COM1	16:COM3	16:COM3	16:COM3	24:COM1	24:COM1
			-0.359	-1.547	-0.015	0.000	-0.024	-1.431
			22:COM9	26:COM1	26:COM1	-	18:COM5	18:COM5
	6283	-ve	0.289	0.000	0.012	0.250	0.021	19.622
			28:COM1	-	16:COM3	16:COM3	24:COM1	20:COM7
			-0.359	-9.351	-0.015	0.000	-0.028	0.000
			22:COM9	18:COM5	26:COM1	-	18:COM5	-
9154	3908	+ve	0.379	1.533	0.012	0.222	0.031	0.000
			24:COM1	16:COM3	16:COM3	16:COM3	24:COM1	-
			-0.841	-1.255	-0.016	-0.082	-0.024	-0.428
			18:COM5	26:COM1	26:COM1	26:COM1	18:COM5	18:COM5
	6284	-ve	0.379	0.000	0.012	0.222	0.021	17.455
			24:COM1	-	16:COM3	16:COM3	24:COM1	16:COM3
			-0.841	-8.577	-0.016	-0.082	-0.028	0.000
			18:COM5	18:COM5	26:COM1	26:COM1	18:COM5	-
9155	3909	+ve	0.571	1.689	0.012	0.077	0.022	0.335
			24:COM1	20:COM7	16:COM3	16:COM3	24:COM1	24:COM1
			-1.392	-0.477	-0.012	-0.047	-0.022	-0.599
			18:COM5	30:COM1	26:COM1	26:COM1	18:COM5	18:COM5
	6285	-ve	0.571	0.000	0.012	0.077	0.020	13.441
			24:COM1	-	16:COM3	16:COM3	16:COM3	20:COM7
			-1.392	-7.331	-0.012	-0.047	-0.020	0.000
			18:COM5	22:COM9	26:COM1	26:COM1	26:COM1	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
9156	3910	+ve	0.794	1.127	0.010	0.079	0.010	0.649
			24:COM1	20:COM7	16:COM3	28:COM1	24:COM1	24:COM1
			-1.265	0.000	-0.005	-0.162	-0.018	-1.080
			18:COM5	-	26:COM1	22:COM9	18:COM5	18:COM5
	6286	-ve	0.794	0.000	0.010	0.079	0.017	10.464
			24:COM1	-	16:COM3	28:COM1	16:COM3	20:COM7
			-1.265	-6.800	-0.005	-0.162	-0.009	0.000
			18:COM5	34:CVOL3	26:COM1	22:COM9	26:COM1	-
9162	3903	+ve	1.849	2.002	0.011	0.084	0.014	3.639
			16:COM3	16:COM3	20:COM7	24:COM1	28:COM1	24:COM1
			-0.551	-2.343	-0.008	-0.299	-0.020	-5.240
			26:COM1	26:COM1	30:COM1	18:COM5	22:COM9	18:COM5
	6287	-ve	1.849	0.000	0.011	0.084	0.016	12.477
			16:COM3	-	20:COM7	24:COM1	20:COM7	20:COM7
			-0.551	-8.396	-0.008	-0.299	-0.012	0.000
			26:COM1	18:COM5	30:COM1	18:COM5	30:COM1	-
9163	3887	+ve	0.000	2.261	0.007	0.039	0.050	2.157
			-	16:COM3	28:COM1	24:COM1	20:COM7	16:COM3
			-11.499	0.000	-0.031	-0.220	-0.011	0.000
			22:COM9	-	22:COM9	18:COM5	30:COM1	-
	6288	-ve	0.000	0.000	0.007	0.039	0.010	5.438
			-	-	28:COM1	24:COM1	28:COM1	16:COM3
			-11.499	-4.304	-0.031	-0.220	-0.049	0.000
			22:COM9	18:COM5	22:COM9	18:COM5	22:COM9	-
9164	5322	+ve	0.905	8.684	0.004	0.521	0.013	16.746
			24:COM1	34:CVOL3	28:COM1	24:COM1	20:COM7	16:COM3
			-1.087	0.000	-0.007	-0.507	-0.008	0.000
			18:COM5	-	22:COM9	18:COM5	30:COM1	-
	3817	-ve	0.905	0.337	0.004	0.521	0.010	0.080
			24:COM1	24:COM11	28:COM1	24:COM1	28:COM1	24:COM1
			-1.087	-1.939	-0.007	-0.507	-0.015	-0.229
			18:COM5	18:COM5	22:COM9	18:COM5	22:COM9	18:COM5
9166	5325	+ve	0.556	8.637	0.011	0.374	0.022	18.022
			28:COM1	16:COM3	16:COM3	16:COM3	24:COM1	16:COM3
			-0.586	0.000	-0.013	-0.183	-0.019	0.000
			22:COM9	-	26:COM1	26:COM1	18:COM5	-
	5330	-ve	0.556	1.469	0.011	0.374	0.023	2.957
			28:COM1	24:COM11	16:COM3	16:COM3	16:COM3	16:COM3
			-0.586	-2.706	-0.013	-0.183	-0.026	-0.641
			22:COM9	18:COM5	26:COM1	26:COM1	26:COM1	26:COM1
9167	3917	+ve	11.366	13.185	9.449	14.670	1.381	10.501
			20:COM7	24:COM11	16:COM3	20:COM7	24:COM1	20:COM7
			-13.758	-18.448	-5.345	-1.575	-2.718	-8.133
			30:COM1	18:COM5	26:COM1	30:COM1	18:COM5	30:COM1
	3656	-ve	11.366	13.017	9.449	14.670	1.893	19.052
			20:COM7	24:COM11	16:COM3	20:COM7	16:COM3	20:COM7
			-13.758	-18.672	-5.345	-1.575	-1.234	-14.028
			30:COM1	18:COM5	26:COM1	30:COM1	26:COM1	30:COM1

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
9168	5326	+ve	1.503	8.787	0.022	0.232	0.038	19.250
			24:COM1	20:COM7	16:COM3	24:COM1	24:COM1	16:COM3
			-2.813	-0.857	-0.024	-0.186	-0.033	0.000
			18:COM5	30:COM1	26:COM1	18:COM5	18:COM5	-
	3917	-ve	1.503	3.146	0.022	0.232	0.038	14.315
			24:COM1	28:COM1	16:COM3	24:COM1	16:COM3	20:COM7
			-2.813	-5.625	-0.024	-0.186	-0.040	-1.979
			18:COM5	22:COM9	26:COM1	18:COM5	26:COM1	30:COM1
9169	3918	+ve	6.023	46.601	2.894	0.000	5.132	69.261
			16:COM3	16:COM3	24:COM1	-	16:COM3	16:COM3
			-3.117	0.000	-6.288	-51.595	-2.242	-10.063
			26:COM1	-	18:COM5	18:COM5	26:COM1	26:COM1
	3649	-ve	6.023	43.662	2.894	0.000	1.709	8.418
			16:COM3	16:COM3	24:COM1	-	24:COM1	24:COM1
			-3.117	-1.020	-6.288	-51.595	-3.428	-10.470
			26:COM1	26:COM1	18:COM5	18:COM5	18:COM5	18:COM5
9170	5327	+ve	1.353	14.296	0.030	0.667	0.000	20.346
			24:COM1	24:COM1	16:COM3	16:COM3	-	16:COM3
			-6.016	-18.616	0.000	-0.330	-0.036	-4.369
			18:COM5	18:COM5	-	26:COM1	18:COM5	26:COM1
	3918	-ve	1.353	11.600	0.030	0.667	0.030	45.366
			24:COM1	24:COM1	16:COM3	16:COM3	16:COM3	20:COM7
			-6.016	-23.092	0.000	-0.330	0.000	-11.957
			18:COM5	18:COM5	-	26:COM1	-	30:COM1
9172	3601	+ve	3.416	39.156	1.309	7.790	1.050	140.586
			28:COM1	20:COM7	20:COM7	28:COM1	28:COM1	20:COM7
			-6.131	0.000	-0.902	-6.058	-1.676	0.000
			22:COM9	-	30:COM1	22:COM9	22:COM9	-
	3932	-ve	3.416	36.788	1.309	7.790	1.015	62.611
			28:COM1	20:COM7	20:COM7	28:COM1	20:COM7	20:COM7
			-6.131	0.000	-0.902	-6.058	-0.806	0.000
			22:COM9	-	30:COM1	22:COM9	30:COM1	-
9173	3921	+ve	0.240	5.547	0.050	0.716	0.002	4.767
			24:COM1	32:CVOL1	20:COM7	20:COM7	28:COM1	32:CVOL1
			-0.656	0.000	0.000	-0.592	-0.070	0.000
			18:COM5	-	-	30:COM1	22:COM9	-
	3920	-ve	0.240	0.000	0.050	0.716	0.059	0.305
			24:COM1	-	20:COM7	20:COM7	20:COM7	20:COM7
			-0.656	-2.007	0.000	-0.592	0.000	-0.239
			18:COM5	34:CVOL3	-	30:COM1	-	30:COM1
9176	3921	+ve	1.107	6.821	0.648	0.343	0.623	9.722
			24:COM1	20:COM7	20:COM7	28:COM1	28:COM1	20:COM7
			-5.274	-0.369	-0.429	-3.027	-0.954	-4.885
			18:COM5	30:COM1	30:COM1	22:COM9	22:COM9	30:COM1
	3922	-ve	1.107	2.670	0.648	0.343	1.077	1.301
			24:COM1	28:COM1	20:COM7	28:COM1	20:COM7	28:COM1
			-5.274	-3.680	-0.429	-3.027	-0.720	-4.986
			18:COM5	22:COM9	30:COM1	22:COM9	30:COM1	22:COM9

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
9177	3924	+ve	3.641	4.337	0.004	0.059	0.007	4.088
			24:COM1	32:CVOL1	20:COM7	28:COM1	28:COM1	20:COM7
			-5.523	0.000	-0.003	-0.378	-0.008	0.000
			18:COM5	-	30:COM1	22:COM9	22:COM9	-
	3922	-ve	3.641	0.000	0.004	0.059	0.011	1.102
			24:COM1	-	20:COM7	28:COM1	20:COM7	28:COM1
			-5.523	-2.847	-0.003	-0.378	-0.007	-1.248
			18:COM5	32:CVOL1	30:COM1	22:COM9	30:COM1	22:COM9
9178	3924	+ve	7.976	1.184	0.197	1.229	0.283	4.474
			24:COM1	28:COM1	24:COM1	16:COM3	16:COM3	28:COM1
			-14.701	-10.104	-0.311	-1.300	-0.176	-11.221
			18:COM5	22:COM9	18:COM5	26:COM1	26:COM1	22:COM9
	3928	-ve	7.976	0.000	0.197	1.229	0.198	24.883
			24:COM1	-	24:COM1	16:COM3	24:COM1	20:COM7
			-14.701	-12.683	-0.311	-1.300	-0.307	-10.454
			18:COM5	22:COM9	18:COM5	26:COM1	18:COM5	30:COM1
9180	3738	+ve	0.699	4.565	0.072	0.428	0.018	7.600
			24:COM1	32:CVOL1	20:COM7	28:COM1	28:COM1	32:CVOL1
			-0.842	0.000	-0.011	-0.532	-0.084	0.000
			18:COM5	-	30:COM1	22:COM9	22:COM9	-
	3920	-ve	0.699	2.007	0.072	0.428	0.083	0.567
			24:COM1	34:CVOL3	20:COM7	28:COM1	20:COM7	20:COM7
			-0.842	0.000	-0.011	-0.532	-0.007	-0.474
			18:COM5	-	30:COM1	22:COM9	30:COM1	30:COM1
9184	3928	+ve	3.542	10.786	0.105	0.068	0.090	19.941
			28:COM1	16:COM3	16:COM3	28:COM1	20:COM7	20:COM7
			-7.147	-2.998	-0.088	-1.860	-0.073	-6.803
			22:COM9	26:COM1	26:COM1	22:COM9	30:COM1	30:COM1
	3929	-ve	3.542	8.464	0.105	0.068	0.144	8.227
			28:COM1	16:COM3	16:COM3	28:COM1	16:COM3	20:COM7
			-7.147	-4.739	-0.088	-1.860	-0.097	-4.908
			22:COM9	26:COM1	26:COM1	22:COM9	26:COM1	30:COM1
9185	3929	+ve	1.402	5.713	0.131	0.970	0.119	7.994
			24:COM1	24:COM1	16:COM3	16:COM3	24:COM1	20:COM7
			-4.485	-6.936	-0.084	-0.344	-0.185	-4.896
			18:COM5	18:COM5	26:COM1	26:COM1	18:COM5	30:COM1
	5548	-ve	1.402	3.653	0.131	0.970	0.083	20.030
			24:COM1	24:COM1	16:COM3	16:COM3	16:COM3	16:COM3
			-4.485	-9.682	-0.084	-0.344	-0.055	-9.616
			18:COM5	18:COM5	26:COM1	26:COM1	26:COM1	26:COM1
9187	5485	+ve	15.866	0.417	0.715	10.570	0.503	0.789
			28:COM1	24:COM1	16:COM3	16:COM3	24:COM1	24:COM1
			-37.104	-24.139	-0.361	-4.014	-0.869	-16.014
			22:COM9	18:COM5	26:COM1	26:COM1	18:COM5	18:COM5
	5549	-ve	15.866	0.000	0.715	10.570	0.487	32.727
			28:COM1	-	16:COM3	16:COM3	16:COM3	16:COM3
			-37.104	-29.246	-0.361	-4.014	-0.216	0.000
			22:COM9	18:COM5	26:COM1	26:COM1	26:COM1	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
9188	5702	+ve	12.309	6.410	0.005	0.063	0.041	7.431
			20:COM7	35:CVOL4	28:COM15	28:COM15	20:COM7	16:COM3
			-8.462	0.000	-0.012	-0.337	-0.018	0.000
			30:COM17	-	22:COM9	22:COM9	30:COM17	-
	3932	-ve	12.309	0.000	0.005	0.063	0.016	8.564
			20:COM7	-	28:COM15	28:COM15	28:COM15	34:CVOL3
			-8.462	-7.173	-0.012	-0.337	-0.041	0.000
			30:COM17	34:CVOL3	22:COM9	22:COM9	22:COM9	-
9190	3931	+ve	1.348	13.037	2.404	8.556	1.579	16.077
			20:COM7	32:CVOL1	20:COM7	20:COM7	28:COM15	32:CVOL1
			-1.165	0.000	-2.077	-5.789	-1.639	0.000
			30:COM17	-	30:COM17	30:COM17	22:COM9	-
	3921	-ve	1.348	11.165	2.404	8.556	1.830	0.941
			20:COM7	20:COM7	20:COM7	20:COM7	20:COM7	28:COM15
			-1.165	0.000	-2.077	-5.789	-1.418	-2.907
			30:COM17	-	30:COM17	30:COM17	30:COM17	22:COM9
9191	3932	+ve	1.989	24.868	0.697	9.465	0.421	62.744
			28:COM15	20:COM7	16:COM3	20:COM7	24:COM11	20:COM7
			-3.364	0.000	-0.305	-5.996	-0.628	0.000
			22:COM9	-	26:COM13	30:COM17	18:COM5	-
	3931	-ve	1.989	22.501	0.697	9.465	0.814	15.605
			28:COM15	20:COM7	16:COM3	20:COM7	16:COM3	32:CVOL1
			-3.364	0.000	-0.305	-5.996	-0.215	0.000
			22:COM9	-	26:COM13	30:COM17	26:COM13	-
9194	3932	+ve	0.000	5.820	0.032	0.142	0.037	7.056
			-	20:COM7	20:COM7	20:COM7	28:COM15	20:COM7
			-9.437	0.000	-0.031	-0.107	-0.039	0.000
			22:COM9	-	30:COM17	30:COM17	22:COM9	-
	3737	-ve	0.000	1.598	0.032	0.142	0.039	0.245
			-	28:COM15	20:COM7	20:COM7	20:COM7	28:COM15
			-9.437	-0.835	-0.031	-0.107	-0.037	-1.989
			22:COM9	22:COM9	30:COM17	30:COM17	30:COM17	22:COM9
9196	3931	+ve	2.807	4.426	0.054	0.214	0.039	4.858
			28:COM15	20:COM7	20:COM7	20:COM7	28:COM15	20:COM7
			-6.575	0.000	-0.031	-0.147	-0.066	-0.152
			22:COM9	-	30:COM17	30:COM17	22:COM9	30:COM17
	3738	-ve	2.807	0.665	0.054	0.214	0.065	0.423
			28:COM15	28:COM15	20:COM7	20:COM7	20:COM7	28:COM15
			-6.575	-1.899	-0.031	-0.147	-0.037	-0.783
			22:COM9	22:COM9	30:COM17	30:COM17	30:COM17	22:COM9
9537	3959	+ve	3.744	46.902	1.823	0.000	1.918	138.134
			24:COM17	16:COM3	16:COM3	-	24:COM11	16:COM3
			-12.228	0.000	-1.874	-10.359	-2.391	-1.085
			18:COM5	-	26:COM13	34:CVOL3	18:COM5	26:COM13
	4109	-ve	3.744	44.654	1.823	0.000	1.302	49.050
			24:COM17	16:COM3	16:COM3	-	24:COM11	16:COM3
			-12.228	0.000	-1.874	-10.359	-1.874	-20.039
			18:COM5	-	26:COM13	34:CVOL3	18:COM5	26:COM13

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
9538	3960	+ve	12.093	45.705	1.367	0.000	3.415	124.423
			28:COM15	34:CVOL3	24:COM11	-	16:COM3	16:COM3
			-32.138	0.000	-2.673	-7.401	-2.063	0.000
			22:COM9	-	18:COM5	35:CVOL4	26:COM13	-
	4114	-ve	12.093	43.456	1.367	0.000	0.623	37.722
			28:COM15	34:CVOL3	24:COM11	-	24:COM11	16:COM3
			-32.138	0.000	-2.673	-7.401	-1.817	-17.779
			22:COM9	-	18:COM5	35:CVOL4	18:COM5	26:COM13
9539	3961	+ve	21.804	53.047	0.591	0.000	4.795	143.368
			28:COM15	16:COM3	24:COM11	-	16:COM3	16:COM3
			-43.196	0.000	-3.799	-8.212	-1.120	0.000
			22:COM9	-	18:COM5	35:CVOL4	26:COM13	-
	4119	-ve	21.804	50.798	0.591	0.000	0.042	42.203
			28:COM15	16:COM3	24:COM11	-	24:COM11	16:COM3
			-43.196	0.000	-3.799	-8.212	-2.622	-13.813
			22:COM9	-	18:COM5	35:CVOL4	18:COM5	26:COM13
9540	3962	+ve	15.231	54.976	1.419	0.000	4.934	151.562
			28:COM15	16:COM3	24:COM11	-	16:COM3	16:COM3
			-30.541	0.000	-4.007	-9.546	-2.251	0.000
			22:COM9	-	18:COM5	34:CVOL3	26:COM13	-
	4124	-ve	15.231	52.727	1.419	0.000	0.545	46.622
			28:COM15	16:COM3	24:COM11	-	24:COM11	16:COM3
			-30.541	0.000	-4.007	-9.546	-2.908	-14.134
			22:COM9	-	18:COM5	34:CVOL3	18:COM5	26:COM13
9541	3946	+ve	44.557	67.456	5.871	13.029	2.659	149.147
			28:COM15	20:COM7	20:COM7	28:COM15	28:COM15	20:COM7
			-84.567	0.000	-2.367	-21.308	-6.610	0.000
			22:COM9	-	30:COM17	22:COM9	22:COM9	-
	4038	-ve	44.557	65.207	5.871	13.029	4.951	32.785
			28:COM15	20:COM7	20:COM7	28:COM15	20:COM7	24:COM11
			-84.567	0.000	-2.367	-21.308	-2.069	-31.567
			22:COM9	-	30:COM17	22:COM9	30:COM17	18:COM5
9542	3947	+ve	19.446	42.603	4.532	12.727	3.580	111.590
			28:COM15	16:COM3	16:COM3	20:COM7	24:COM11	16:COM3
			-39.164	0.000	-2.557	-10.975	-5.837	-1.463
			22:COM9	-	26:COM13	30:COM17	18:COM5	26:COM13
	4033	-ve	19.446	40.354	4.532	12.727	3.280	31.356
			28:COM15	16:COM3	16:COM3	20:COM7	20:COM7	16:COM3
			-39.164	0.000	-2.557	-10.975	-1.685	-12.280
			22:COM9	-	26:COM13	30:COM17	30:COM17	26:COM13
9543	3948	+ve	12.094	49.356	5.832	14.090	2.884	129.733
			28:COM15	16:COM3	20:COM7	20:COM7	24:COM11	16:COM3
			-17.743	0.000	-2.281	-10.983	-7.259	0.000
			22:COM9	-	30:COM17	30:COM17	18:COM5	-
	4043	-ve	12.094	47.107	5.832	14.090	4.266	36.469
			28:COM15	16:COM3	20:COM7	20:COM7	20:COM7	16:COM3
			-17.743	0.000	-2.281	-10.983	-1.716	-10.847
			22:COM9	-	30:COM17	30:COM17	30:COM17	26:COM13

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
9544	3949	+ve	26.273	54.771	4.732	17.408	4.130	151.667
			24:COM1	16:COM3	16:COM3	20:COM7	24:COM1	16:COM3
			-35.479	0.000	-3.202	-12.785	-5.940	0.000
			18:COM5	-	26:COM1	30:COM1	18:COM5	-
	4048	-ve	26.273	52.522	4.732	17.408	3.471	47.282
			24:COM1	16:COM3	16:COM3	20:COM7	20:COM7	16:COM3
			-35.479	0.000	-3.202	-12.785	-2.299	-13.084
			18:COM5	-	26:COM1	30:COM1	30:COM1	26:COM1
9545	3946	+ve	13.049	238.467	3.631	29.133	2.901	223.009
			24:COM1	20:COM7	16:COM3	28:COM1	24:COM1	20:COM7
			-55.607	-212.016	-1.594	-32.587	-4.719	-190.699
			18:COM5	30:COM1	26:COM1	22:COM9	18:COM5	30:COM1
	3982	-ve	13.049	232.867	3.631	29.133	1.669	151.081
			24:COM1	20:COM7	16:COM3	28:COM1	20:COM7	20:COM7
			-55.607	-215.016	-1.594	-32.587	-0.229	-154.214
			18:COM5	30:COM1	26:COM1	22:COM9	30:COM1	30:COM1
9546	3947	+ve	5.754	69.916	3.001	15.384	3.851	60.109
			28:COM1	20:COM7	24:COM1	16:COM3	16:COM3	20:COM7
			-42.796	-61.485	-3.360	-13.872	-3.637	-43.058
			22:COM9	30:COM1	18:COM5	26:COM1	26:COM1	30:COM1
	3983	-ve	5.754	67.057	3.001	15.384	1.197	61.237
			28:COM1	28:COM1	24:COM1	16:COM3	24:COM1	20:COM7
			-42.796	-66.580	-3.360	-13.872	-1.557	-51.312
			22:COM9	22:COM9	18:COM5	26:COM1	18:COM5	30:COM1
9547	3948	+ve	0.000	76.465	5.850	18.749	2.302	67.265
			-	20:COM7	16:COM3	16:COM3	24:COM1	20:COM7
			-52.014	-48.865	-1.903	-11.509	-6.136	-30.540
			22:COM9	30:COM1	26:COM1	26:COM1	18:COM5	30:COM1
	6444	-ve	0.000	71.888	5.850	18.749	2.137	41.173
			-	20:COM7	16:COM3	16:COM3	16:COM3	20:COM7
			-52.014	-51.247	-1.903	-11.509	-0.445	-38.216
			22:COM9	30:COM1	26:COM1	26:COM1	26:COM1	30:COM1
9548	3949	+ve	1.157	81.206	5.412	18.409	4.372	69.217
			28:COM1	20:COM7	16:COM3	16:COM3	24:COM1	20:COM7
			-48.216	-62.891	-4.188	-14.804	-5.659	-43.241
			22:COM9	30:COM1	26:COM1	26:COM1	18:COM5	30:COM1
	6445	-ve	1.157	76.629	5.412	18.409	1.970	48.556
			28:COM1	20:COM7	16:COM3	16:COM3	16:COM3	20:COM7
			-48.216	-65.273	-4.188	-14.804	-1.543	-43.350
			22:COM9	30:COM1	26:COM1	26:COM1	26:COM1	30:COM1
9549	3950	+ve	12.955	264.114	3.248	26.555	7.709	249.588
			28:COM1	20:COM7	24:COM1	24:COM1	16:COM3	20:COM7
			-48.377	-234.268	-6.794	-32.678	-4.749	-214.030
			22:COM9	30:COM1	18:COM5	18:COM5	26:COM1	30:COM1
	6446	-ve	12.955	259.214	3.248	26.555	0.495	116.162
			28:COM1	20:COM7	24:COM1	24:COM1	28:COM1	20:COM7
			-48.377	-236.893	-6.794	-32.678	-2.499	-117.119
			22:COM9	30:COM1	18:COM5	18:COM5	22:COM9	30:COM1

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
9550	3968	+ve	7.266	40.744	5.557	0.000	0.000	51.165
			28:COM15	20:COM7	34:CVOL3	-	-	20:COM7
			-12.355	0.000	0.000	-34.270	-6.304	0.000
			22:COM9	-	-	34:CVOL3	34:CVOL3	-
	3970	-ve	7.266	34.309	5.557	0.000	4.531	0.000
			28:COM15	20:COM7	34:CVOL3	-	34:CVOL3	-
			-12.355	0.000	0.000	-34.270	0.000	-22.169
			22:COM9	-	-	34:CVOL3	-	22:COM9
9551	3938	+ve	119.434	142.289	7.192	12.044	7.220	342.788
			28:COM15	20:COM7	16:COM3	20:COM7	20:COM7	20:COM7
			-163.189	-87.428	-5.305	-6.411	-3.432	-294.840
			22:COM9	30:COM17	26:COM13	30:COM17	30:COM17	30:COM17
	4017	-ve	119.434	133.525	7.192	12.044	15.648	33.941
			28:COM15	20:COM7	16:COM3	20:COM7	16:COM3	28:COM15
			-163.189	-92.943	-5.305	-6.411	-7.426	-98.139
			22:COM9	30:COM17	26:COM13	30:COM17	26:COM13	22:COM9
9552	3964	+ve	0.000	78.121	0.492	9.808	0.197	73.701
			-	20:COM7	16:COM3	20:COM7	28:COM15	20:COM7
			-19.401	-9.327	-0.125	-7.297	-0.541	0.000
			22:COM9	30:COM17	26:COM13	30:COM17	22:COM9	-
	3971	-ve	0.000	72.136	0.492	9.808	0.584	22.227
			-	20:COM7	16:COM3	20:COM7	16:COM3	28:COM15
			-19.401	-12.646	-0.125	-7.297	-0.213	-72.814
			22:COM9	30:COM17	26:COM13	30:COM17	26:COM13	22:COM9
9553	3965	+ve	14.088	53.270	0.611	5.269	0.287	43.455
			28:COM15	20:COM7	20:COM7	16:COM3	24:COM11	20:COM7
			-42.775	-27.631	-0.462	-5.046	-0.427	-21.418
			22:COM9	30:COM17	30:COM17	26:COM13	18:COM5	30:COM17
	3972	-ve	14.088	47.285	0.611	5.269	0.978	35.702
			28:COM15	20:COM7	20:COM7	16:COM3	20:COM7	28:COM15
			-42.775	-30.949	-0.462	-5.046	-0.829	-54.589
			22:COM9	30:COM17	30:COM17	26:COM13	30:COM17	22:COM9
9554	3966	+ve	6.171	46.983	0.353	11.226	0.396	38.679
			28:COM15	20:COM7	24:COM11	16:COM3	16:COM3	20:COM7
			-38.505	-34.594	-0.413	-9.174	-0.332	-26.560
			22:COM9	30:COM17	18:COM5	26:COM13	26:COM13	30:COM17
	3973	-ve	6.171	42.671	0.353	11.226	0.439	45.446
			28:COM15	28:COM15	24:COM11	16:COM3	24:COM11	20:COM7
			-38.505	-39.585	-0.413	-9.174	-0.492	-48.414
			22:COM9	22:COM9	18:COM5	26:COM13	18:COM5	30:COM17
9555	3967	+ve	17.118	78.873	0.632	8.565	0.692	66.118
			28:COM15	20:COM7	16:COM3	24:COM17	28:COM15	20:COM7
			-42.744	-47.851	-0.623	-9.574	-0.679	-37.166
			22:COM9	30:COM17	26:COM13	18:COM5	22:COM9	30:COM17
	3974	-ve	17.118	72.888	0.632	8.565	0.618	59.386
			28:COM15	20:COM7	16:COM3	24:COM17	16:COM3	28:COM15
			-42.744	-51.170	-0.623	-9.574	-0.588	-81.856
			22:COM9	30:COM17	26:COM13	18:COM5	26:COM13	22:COM9

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
9556	3951	+ve	32.750	108.369	11.877	0.000	0.000	53.362
			24:COM1	28:COM1	20:COM7	-	-	28:COM1
			-51.696	-123.571	-1.328	-35.184	-12.406	-60.414
			18:COM5	22:COM9	30:COM1	22:COM9	22:COM9	22:COM9
	3938	-ve	32.750	104.153	11.877	0.000	9.140	167.588
			24:COM1	28:COM1	20:COM7	-	20:COM7	20:COM7
			-51.696	-130.270	-1.328	-35.184	-3.061	-137.529
			18:COM5	22:COM9	30:COM1	22:COM9	30:COM1	30:COM1
9557	3952	+ve	0.000	0.000	1.881	13.095	1.537	1.881
			-	-	20:COM7	20:COM7	28:COM1	28:COM1
			-19.462	-52.280	-1.869	-9.228	-1.658	-35.355
			34:CVOL3	22:COM9	30:COM1	30:COM1	22:COM9	22:COM9
	3939	-ve	0.000	0.000	1.881	13.095	1.752	63.512
			-	-	20:COM7	20:COM7	28:COM1	20:COM7
			-19.462	-57.736	-1.869	-9.228	-1.851	0.000
			34:CVOL3	22:COM9	30:COM1	30:COM1	22:COM9	-
9558	3953	+ve	0.000	0.115	0.372	5.207	0.127	4.063
			-	28:COM1	20:COM7	16:COM3	20:COM7	28:COM1
			-43.859	-75.116	-0.099	-4.238	-0.147	-53.260
			22:COM9	22:COM9	30:COM1	26:COM1	30:COM1	22:COM9
	3940	-ve	0.000	0.000	0.372	5.207	0.649	86.579
			-	-	20:COM7	16:COM3	20:COM7	20:COM7
			-43.859	-80.571	-0.099	-4.238	-0.177	0.000
			22:COM9	22:COM9	30:COM1	26:COM1	30:COM1	-
9559	3954	+ve	18.704	67.635	1.581	8.928	1.289	46.726
			28:COM1	28:COM1	24:COM1	24:COM1	16:COM3	28:COM1
			-74.433	-97.634	-2.048	-16.018	-1.167	-65.865
			22:COM9	22:COM9	18:COM5	18:COM5	26:COM1	22:COM9
	3941	-ve	18.704	64.352	1.581	8.928	1.721	114.433
			28:COM1	28:COM1	24:COM1	24:COM1	24:COM1	20:COM7
			-74.433	-103.090	-2.048	-16.018	-2.439	-71.841
			22:COM9	22:COM9	18:COM5	18:COM5	18:COM5	30:COM1
9560	3969	+ve	6.991	7.493	1.070	9.485	1.253	7.365
			28:COM1	20:COM7	16:COM3	24:COM1	24:COM1	16:COM3
			-17.014	0.000	-1.109	-13.865	-1.286	0.000
			22:COM9	-	26:COM1	18:COM5	18:COM5	-
	3975	-ve	6.991	2.284	1.070	9.485	0.811	3.438
			28:COM1	28:COM1	16:COM3	24:COM1	24:COM1	20:COM7
			-17.014	-2.104	-1.109	-13.865	-0.920	-3.103
			22:COM9	22:COM9	26:COM1	18:COM5	18:COM5	30:COM1
9561	3955	+ve	6.090	0.000	4.213	7.007	2.776	0.000
			28:COM1	-	16:COM3	16:COM3	24:COM1	-
			-15.410	-21.477	-3.158	-4.949	-3.852	-13.994
			22:COM9	22:COM9	26:COM1	26:COM1	18:COM5	22:COM9
	3942	-ve	6.090	0.000	4.213	7.007	3.733	29.614
			28:COM1	-	16:COM3	16:COM3	16:COM3	20:COM7
			-15.410	-26.933	-3.158	-4.949	-2.914	0.000
			22:COM9	22:COM9	26:COM1	26:COM1	26:COM1	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
9562	3952	+ve	10.016	77.535	0.472	9.308	0.960	219.222
			16:COM3	20:COM7	20:COM7	16:COM3	28:COM15	20:COM7
			-3.442	-12.402	-0.854	0.000	-0.684	-71.104
			26:COM13	30:COM17	30:COM17	-	22:COM9	30:COM17
	4074	-ve	10.016	74.939	0.472	9.308	0.282	76.759
			16:COM3	20:COM7	20:COM7	16:COM3	24:COM11	16:COM3
			-3.442	-14.349	-0.854	0.000	-0.723	-46.556
			26:COM13	30:COM17	30:COM17	-	18:COM5	26:COM13
9563	3956	+ve	4.448	14.835	0.526	5.526	0.197	15.730
			28:COM15	28:COM15	16:COM3	16:COM3	24:COM11	28:COM15
			-33.549	-53.036	-0.237	-1.136	-0.405	-39.325
			22:COM9	22:COM9	26:COM13	26:COM13	18:COM5	22:COM9
	4234	-ve	4.448	11.474	0.526	5.526	0.654	63.355
			28:COM15	28:COM15	16:COM3	16:COM3	20:COM7	20:COM7
			-33.549	-58.621	-0.237	-1.136	-0.331	-8.477
			22:COM9	22:COM9	26:COM13	26:COM13	30:COM17	30:COM17
9564	3968	+ve	31.410	50.182	0.000	2.778	1.947	170.562
			20:COM7	34:CVOL3	-	28:COM15	20:COM7	20:COM7
			0.000	0.000	-2.505	-8.070	0.000	0.000
			-	-	22:COM9	22:COM9	-	-
	4130	-ve	31.410	47.896	0.000	2.778	0.000	79.575
			20:COM7	34:CVOL3	-	28:COM15	-	20:COM7
			0.000	0.000	-2.505	-8.070	-3.042	-3.798
			-	-	22:COM9	22:COM9	22:COM9	30:COM17
9565	3964	+ve	1.503	39.701	1.399	3.305	0.126	124.980
			28:COM15	16:COM3	20:COM7	16:COM3	28:COM15	16:COM3
			-3.140	0.000	-0.119	-4.640	-1.469	0.000
			22:COM9	-	30:COM17	26:COM13	22:COM9	-
	4132	-ve	1.503	37.534	1.399	3.305	1.245	52.428
			28:COM15	16:COM3	20:COM7	16:COM3	20:COM7	16:COM3
			-3.140	0.000	-0.119	-4.640	-0.182	-5.160
			22:COM9	-	30:COM17	26:COM13	30:COM17	26:COM13
9566	3965	+ve	8.786	42.098	1.288	10.252	0.585	139.812
			20:COM7	16:COM3	20:COM7	34:CVOL3	28:COM15	16:COM3
			-6.768	0.000	-0.397	0.000	-1.487	-5.924
			30:COM17	-	30:COM17	-	22:COM9	26:COM13
	4138	-ve	8.786	39.820	1.288	10.252	1.084	58.895
			20:COM7	16:COM3	20:COM7	34:CVOL3	20:COM7	16:COM3
			-6.768	0.000	-0.397	0.000	-0.226	-22.638
			30:COM17	-	30:COM17	-	30:COM17	26:COM13
9567	3956	+ve	11.218	70.663	1.414	20.482	2.585	225.595
			16:COM3	16:COM3	28:COM15	20:COM7	20:COM7	16:COM3
			-10.645	0.000	-2.372	-0.608	-1.672	0.000
			26:COM13	-	22:COM9	30:COM17	30:COM17	-
	4021	-ve	11.218	67.940	1.414	20.482	1.111	90.110
			16:COM3	16:COM3	28:COM15	20:COM7	28:COM15	16:COM3
			-10.645	0.000	-2.372	-0.608	-2.083	-26.586
			26:COM13	-	22:COM9	30:COM17	22:COM9	26:COM13

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
9568	3953	+ve	21.581	66.058	2.727	16.786	3.821	217.976
			24:COM1	16:COM3	28:COM1	28:COM1	20:COM7	16:COM3
			-26.005	0.000	-3.291	-16.082	-3.298	-3.776
			18:COM5	-	22:COM9	22:COM9	30:COM1	26:COM1
	4027	-ve	21.581	63.327	2.727	16.786	2.095	90.377
			24:COM1	16:COM3	28:COM1	28:COM1	28:COM1	16:COM3
			-26.005	0.000	-3.291	-16.082	-2.685	-34.468
			18:COM5	-	22:COM9	22:COM9	22:COM9	26:COM1
9569	3966	+ve	22.923	46.008	1.906	10.218	1.688	146.940
			28:COM1	16:COM3	20:COM7	16:COM3	28:COM1	16:COM3
			-23.849	0.000	-1.383	0.000	-2.233	-14.981
			22:COM9	-	30:COM1	-	22:COM9	26:COM1
	4144	-ve	22.923	43.731	1.906	10.218	1.540	58.389
			28:COM1	16:COM3	20:COM7	16:COM3	20:COM7	16:COM3
			-23.849	0.000	-1.383	0.000	-1.053	-27.397
			22:COM9	-	30:COM1	-	30:COM1	26:COM1
9570	3954	+ve	43.932	93.476	6.375	7.943	5.665	230.078
			16:COM3	16:COM3	20:COM7	28:COM1	28:COM1	16:COM3
			-42.780	-81.453	-4.644	-12.528	-7.640	-227.701
			26:COM1	26:COM1	30:COM1	22:COM9	22:COM9	26:COM1
	4066	-ve	43.932	90.743	6.375	7.943	4.990	52.934
			16:COM3	16:COM3	20:COM7	28:COM1	20:COM7	24:COM1
			-42.780	-83.502	-4.644	-12.528	-3.545	-69.578
			26:COM1	26:COM1	30:COM1	22:COM9	30:COM1	18:COM5
9571	3944	+ve	1.792	16.793	14.330	6.386	4.589	11.305
			28:COM1	16:COM3	16:COM3	16:COM3	28:COM1	16:COM3
			-25.410	-0.284	-5.721	-1.692	-8.049	-2.265
			22:COM9	26:COM1	26:COM1	26:COM1	22:COM9	26:COM1
	4068	-ve	1.792	15.838	14.330	6.386	2.567	1.946
			28:COM1	16:COM3	16:COM3	16:COM3	20:COM7	24:COM1
			-25.410	-1.000	-5.721	-1.692	-0.089	-3.714
			22:COM9	26:COM1	26:COM1	26:COM1	30:COM1	18:COM5
9572	3941	+ve	92.207	86.720	2.910	34.479	6.564	226.439
			20:COM7	20:COM7	28:COM1	16:COM3	20:COM7	28:COM1
			-81.886	-70.103	-3.719	-19.240	-5.570	-231.736
			30:COM1	30:COM1	22:COM9	26:COM1	30:COM1	22:COM9
	4016	-ve	92.207	82.770	2.910	34.479	2.834	0.000
			20:COM7	20:COM7	28:COM1	16:COM3	28:COM1	-
			-81.886	-73.066	-3.719	-19.240	-4.148	-37.491
			30:COM1	30:COM1	22:COM9	26:COM1	22:COM9	18:COM5
9573	3945	+ve	19.616	18.573	3.494	1.699	2.824	28.970
			24:COM1	24:COM1	20:COM7	24:COM1	28:COM1	16:COM3
			-36.902	-19.920	-3.336	-2.574	-2.863	-25.148
			18:COM5	18:COM5	30:COM1	18:COM5	22:COM9	26:COM1
	3955	-ve	19.616	16.541	3.494	1.699	3.981	19.296
			24:COM1	24:COM1	20:COM7	24:COM1	20:COM7	16:COM3
			-36.902	-22.630	-3.336	-2.574	-3.709	-8.196
			18:COM5	18:COM5	30:COM1	18:COM5	30:COM1	26:COM1

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
9574	3944	+ve	36.800	23.303	5.337	12.788	4.133	12.196
			28:COM15	28:COM15	20:COM7	20:COM7	28:COM15	28:COM15
			-57.100	-34.715	-3.764	-10.389	-5.742	-17.829
			22:COM9	22:COM9	30:COM17	30:COM17	22:COM9	22:COM9
	3943	-ve	36.800	21.746	5.337	12.788	6.315	62.839
			28:COM15	28:COM15	20:COM7	20:COM7	20:COM7	20:COM7
			-57.100	-36.792	-3.764	-10.389	-4.384	-38.703
			22:COM9	22:COM9	30:COM17	30:COM17	30:COM17	30:COM17
9577	3943	+ve	27.931	49.126	1.129	7.833	1.682	117.729
			28:COM15	20:COM7	20:COM7	28:COM15	24:COM11	20:COM7
			-47.110	-30.210	-0.972	-10.290	-1.959	-96.601
			22:COM9	30:COM17	30:COM17	22:COM9	18:COM5	30:COM17
	4076	-ve	27.931	46.829	1.129	7.833	0.889	3.329
			28:COM15	20:COM7	20:COM7	28:COM15	20:COM7	24:COM17
			-47.110	-31.933	-0.972	-10.290	-0.776	-24.295
			22:COM9	30:COM17	30:COM17	22:COM9	30:COM17	18:COM5
9578	3951	+ve	2.162	70.363	1.203	5.265	1.311	104.723
			28:COM15	16:COM3	28:COM15	20:COM7	16:COM3	34:CVOL3
			-32.357	0.000	-1.290	0.000	-0.475	0.000
			22:COM9	-	22:COM9	-	26:COM13	-
	4053	-ve	2.162	67.545	1.203	5.265	2.274	0.000
			28:COM15	16:COM3	28:COM15	20:COM7	20:COM7	-
			-32.357	0.000	-1.290	0.000	-1.615	-37.363
			22:COM9	-	22:COM9	-	30:COM17	18:COM5
9579	3957	+ve	2.710	22.772	0.439	3.936	0.655	18.524
			24:COM17	28:COM15	28:COM15	16:COM3	28:COM15	28:COM15
			-7.195	-31.584	-0.407	-1.236	-0.755	-23.817
			18:COM5	22:COM9	22:COM9	26:COM13	22:COM9	22:COM9
	4055	-ve	2.710	20.634	0.439	3.936	0.275	44.200
			24:COM17	28:COM15	28:COM15	16:COM3	28:COM15	20:COM7
			-7.195	-34.435	-0.407	-1.236	-0.308	-26.205
			18:COM5	22:COM9	22:COM9	26:COM13	22:COM9	30:COM17
9580	4054	+ve	8.620	69.965	0.487	4.225	0.908	118.646
			28:COM15	20:COM7	28:COM15	20:COM7	20:COM7	20:COM7
			-11.800	-40.565	-0.766	-2.746	-0.511	-102.956
			22:COM9	30:COM17	22:COM9	30:COM17	30:COM17	30:COM17
	4057	-ve	8.620	67.215	0.487	4.225	0.459	0.000
			28:COM15	20:COM7	28:COM15	20:COM7	28:COM15	-
			-11.800	-42.628	-0.766	-2.746	-0.617	-31.163
			22:COM9	30:COM17	22:COM9	30:COM17	22:COM9	22:COM9
9581	3942	+ve	8.513	30.987	0.159	13.447	0.232	77.241
			20:COM7	16:COM3	28:COM15	16:COM3	20:COM7	16:COM3
			-5.026	0.000	-0.220	-9.723	-0.095	0.000
			30:COM17	-	22:COM9	26:COM13	30:COM17	-
	4271	-ve	8.513	21.723	0.159	13.447	0.414	0.579
			20:COM7	16:COM3	28:COM15	16:COM3	28:COM15	24:COM17
			-5.026	0.000	-0.220	-9.723	-0.466	-3.350
			30:COM17	-	22:COM9	26:COM13	22:COM9	18:COM5

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
9582	3967	+ve	17.154	41.422	3.266	6.052	2.750	114.243
			28:COM15	16:COM3	20:COM7	16:COM3	28:COM15	16:COM3
			-20.744	0.000	-2.420	-3.930	-3.595	-7.319
			22:COM9	-	30:COM17	26:COM13	22:COM9	26:COM13
	4150	-ve	17.154	39.148	3.266	6.052	2.866	34.864
			28:COM15	16:COM3	20:COM7	16:COM3	20:COM7	16:COM3
			-20.744	0.000	-2.420	-3.930	-2.042	-12.750
			22:COM9	-	30:COM17	26:COM13	30:COM17	26:COM13
9583	3970	+ve	5.519	18.196	0.000	1.294	2.448	20.667
			28:COM15	20:COM7	-	16:COM3	34:CVOL3	20:COM7
			-25.145	0.000	-0.427	-0.665	0.000	-0.004
			22:COM9	-	22:COM9	26:COM13	-	30:COM17
	3976	-ve	5.519	9.946	0.000	1.294	1.590	5.802
			28:COM15	20:COM7	-	16:COM3	34:CVOL3	28:COM15
			-25.145	-4.654	-0.427	-0.665	0.000	-14.538
			22:COM9	30:COM17	22:COM9	26:COM13	-	22:COM9
9584	3971	+ve	15.761	48.809	0.155	1.077	0.300	61.303
			20:COM7	28:COM15	28:COM15	28:COM15	24:COM11	28:COM15
			0.000	-67.394	-0.168	-2.239	-0.290	-84.263
			-	22:COM9	22:COM9	22:COM9	18:COM5	22:COM9
	3977	-ve	15.761	44.554	0.155	1.077	0.179	93.815
			20:COM7	28:COM15	28:COM15	28:COM15	28:COM15	20:COM7
			0.000	-75.067	-0.168	-2.239	-0.203	-55.403
			-	22:COM9	22:COM9	22:COM9	22:COM9	30:COM17
9585	3972	+ve	6.854	42.973	0.300	3.760	0.522	52.186
			20:COM7	28:COM15	20:COM7	20:COM7	28:COM15	28:COM15
			0.000	-67.678	-0.262	-1.472	-0.568	-88.193
			-	22:COM9	30:COM17	30:COM17	22:COM9	22:COM9
	3978	-ve	6.854	38.718	0.300	3.760	0.236	90.598
			20:COM7	28:COM15	20:COM7	20:COM7	24:COM11	20:COM7
			0.000	-75.351	-0.262	-1.472	-0.186	-49.932
			-	22:COM9	30:COM17	30:COM17	18:COM5	30:COM17
9586	3973	+ve	13.489	58.485	0.064	1.525	0.128	70.834
			20:COM7	20:COM7	24:COM11	24:COM11	16:COM3	28:COM15
			0.000	-60.469	-0.136	-1.700	-0.180	-77.932
			-	30:COM17	18:COM5	18:COM5	26:COM13	22:COM9
	3979	-ve	13.489	53.231	0.064	1.525	0.112	80.338
			20:COM7	28:COM15	24:COM11	24:COM11	28:COM15	20:COM7
			0.000	-67.143	-0.136	-1.700	-0.344	-67.565
			-	22:COM9	18:COM5	18:COM5	22:COM9	30:COM17
9587	3974	+ve	31.902	77.567	0.324	2.861	0.346	96.326
			20:COM7	28:COM15	16:COM3	24:COM11	16:COM3	28:COM15
			-12.739	-97.105	-0.255	-5.077	-0.306	-125.489
			30:COM17	22:COM9	26:COM13	18:COM5	26:COM13	22:COM9
	3980	-ve	31.902	73.312	0.324	2.861	0.674	126.886
			20:COM7	28:COM15	16:COM3	24:COM11	16:COM3	20:COM7
			-12.739	-104.778	-0.255	-5.077	-0.460	-92.294
			30:COM17	22:COM9	26:COM13	18:COM5	26:COM13	30:COM17

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
9588	3975	+ve	0.000	5.441	0.177	0.556	0.309	4.052
			-	20:COM7	24:COM11	24:COM11	16:COM3	20:COM7
			-13.944	0.000	-0.222	-0.900	-0.221	-0.689
			22:COM9	-	18:COM5	18:COM5	26:COM13	30:COM17
	3981	-ve	0.000	0.000	0.177	0.556	0.238	4.673
			-	-	24:COM11	24:COM11	16:COM3	20:COM7
			-13.944	-5.671	-0.222	-0.900	-0.263	-1.039
			22:COM9	22:COM9	18:COM5	18:COM5	26:COM13	30:COM17
9589	3976	+ve	8.291	40.640	0.000	22.475	5.323	26.767
			28:COM15	20:COM7	-	34:CVOL3	20:COM7	20:COM7
			-31.104	-21.114	-7.006	0.000	-0.635	-10.729
			22:COM9	30:COM17	18:COM5	-	30:COM17	30:COM17
	3951	-ve	8.291	35.195	0.000	22.475	0.000	26.676
			28:COM15	20:COM7	-	34:CVOL3	-	28:COM15
			-31.104	-24.207	-7.006	0.000	-6.510	-35.812
			22:COM9	30:COM17	18:COM5	-	18:COM5	22:COM9
9590	3977	+ve	0.000	39.372	1.862	10.938	1.484	48.561
			-	20:COM7	20:COM7	28:COM15	28:COM15	20:COM7
			-12.903	-36.723	-1.458	-15.766	-1.922	-37.172
			22:COM9	30:COM17	30:COM17	22:COM9	22:COM9	30:COM17
	3952	-ve	0.000	35.598	1.862	10.938	1.155	28.846
			-	28:COM15	20:COM7	28:COM15	20:COM7	20:COM7
			-12.903	-40.822	-1.458	-15.766	-0.925	-15.333
			22:COM9	22:COM9	30:COM17	22:COM9	30:COM17	30:COM17
9591	3978	+ve	0.000	54.690	0.442	0.796	0.333	59.429
			-	20:COM7	28:COM15	24:COM11	20:COM7	20:COM7
			-27.967	-41.528	-0.208	-8.038	-0.521	-39.634
			22:COM9	30:COM17	22:COM9	18:COM5	30:COM17	30:COM17
	3956	-ve	0.000	49.626	0.442	0.796	0.413	32.244
			-	20:COM7	28:COM15	24:COM11	28:COM15	20:COM7
			-27.967	-44.336	-0.208	-8.038	-0.215	-27.672
			22:COM9	30:COM17	22:COM9	18:COM5	22:COM9	30:COM17
9592	3979	+ve	0.000	42.007	0.078	5.780	1.151	47.795
			-	28:COM15	28:COM15	24:COM11	20:COM7	28:COM15
			-31.215	-55.054	-1.196	-6.535	-0.117	-50.367
			22:COM9	22:COM9	22:COM9	18:COM5	30:COM17	22:COM9
	3953	-ve	0.000	39.199	0.078	5.780	0.025	44.658
			-	28:COM15	28:COM15	24:COM11	28:COM15	20:COM7
			-31.215	-60.118	-1.196	-6.535	-0.837	-19.207
			22:COM9	22:COM9	22:COM9	18:COM5	22:COM9	30:COM17
9593	3980	+ve	0.000	83.742	3.862	20.409	2.457	85.855
			-	20:COM7	16:COM3	16:COM3	24:COM11	20:COM7
			-29.007	-70.936	-2.618	-12.160	-3.593	-67.273
			18:COM5	30:COM17	26:COM13	26:COM13	18:COM5	30:COM17
	3954	-ve	0.000	78.678	3.862	20.409	2.819	53.138
			-	20:COM7	16:COM3	16:COM3	16:COM3	20:COM7
			-29.007	-73.744	-2.618	-12.160	-1.903	-49.192
			18:COM5	30:COM17	26:COM13	26:COM13	26:COM13	30:COM17

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
9594	3981	+ve	4.193	2.169	5.258	5.795	4.374	1.132
			24:COM1	24:COM1	24:COM1	24:COM1	16:COM3	24:COM1
			-16.135	-9.238	-5.773	-8.461	-4.182	-5.881
			18:COM5	18:COM5	18:COM5	18:COM5	26:COM1	18:COM5
	3955	-ve	4.193	0.000	5.258	5.795	4.504	13.590
			24:COM1	-	24:COM1	24:COM1	24:COM1	16:COM3
			-16.135	-14.302	-5.773	-8.461	-5.161	-0.181
			18:COM5	18:COM5	18:COM5	18:COM5	18:COM5	26:COM1
9595	3982	+ve	3.440	60.731	1.461	1.316	1.544	91.548
			24:COM1	20:COM7	20:COM7	16:COM3	28:COM1	20:COM7
			-49.209	-57.590	-0.823	-1.350	-3.142	-91.889
			18:COM5	30:COM1	30:COM1	26:COM1	22:COM9	30:COM1
	3987	-ve	3.440	53.250	1.461	1.316	1.939	120.465
			24:COM1	28:COM1	20:COM7	16:COM3	20:COM7	20:COM7
			-49.209	-68.384	-0.823	-1.350	-1.366	-100.417
			18:COM5	22:COM9	30:COM1	26:COM1	30:COM1	30:COM1
9596	3983	+ve	0.000	35.131	0.168	1.004	0.664	53.170
			-	20:COM7	28:COM1	16:COM3	20:COM7	20:COM7
			-20.785	-20.731	-0.380	-0.834	-0.279	-33.842
			22:COM9	30:COM1	22:COM9	26:COM1	30:COM1	30:COM1
	3988	-ve	0.000	25.769	0.168	1.004	0.293	47.481
			-	28:COM1	28:COM1	16:COM3	28:COM1	20:COM7
			-20.785	-28.272	-0.380	-0.834	-0.628	-48.379
			22:COM9	22:COM9	22:COM9	26:COM1	22:COM9	30:COM1
9597	3984	+ve	0.000	38.538	0.152	0.914	0.073	60.907
			-	20:COM7	20:COM7	16:COM3	24:COM1	20:COM7
			-24.595	-24.484	-0.079	-0.950	-0.364	-39.910
			22:COM9	30:COM1	30:COM1	26:COM1	18:COM5	30:COM1
	3989	-ve	0.000	29.370	0.152	0.914	0.180	55.013
			-	28:COM1	20:COM7	16:COM3	20:COM7	20:COM7
			-24.595	-32.218	-0.079	-0.950	-0.221	-53.067
			22:COM9	22:COM9	30:COM1	26:COM1	30:COM1	30:COM1
9598	3985	+ve	0.000	41.682	0.380	0.628	0.343	64.954
			-	20:COM7	20:COM7	24:COM1	28:COM1	20:COM7
			-24.514	-29.364	-0.179	-0.948	-0.698	-47.839
			22:COM9	30:COM1	30:COM1	18:COM5	22:COM9	30:COM1
	3990	-ve	0.000	32.724	0.380	0.628	0.611	63.857
			-	28:COM1	20:COM7	24:COM1	20:COM7	20:COM7
			-24.514	-37.309	-0.179	-0.948	-0.282	-59.887
			22:COM9	22:COM9	30:COM1	18:COM5	30:COM1	30:COM1
9599	3986	+ve	3.017	70.370	0.638	1.873	2.485	107.094
			28:COM1	20:COM7	24:COM1	24:COM1	16:COM3	20:COM7
			-44.760	-65.718	-1.194	-2.152	-1.112	-104.989
			22:COM9	30:COM1	18:COM5	18:COM5	26:COM1	30:COM1
	3991	-ve	3.017	62.651	0.638	1.873	1.130	134.521
			28:COM1	28:COM1	24:COM1	24:COM1	28:COM1	20:COM7
			-44.760	-76.274	-1.194	-2.152	-1.648	-117.164
			22:COM9	22:COM9	18:COM5	18:COM5	22:COM9	30:COM1

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
9600	3987	+ve	0.000	68.259	2.380	17.487	0.549	88.045
			-	28:COM15	16:COM3	16:COM3	28:COM15	20:COM7
			-27.757	-91.998	-0.778	-5.427	-1.197	-90.138
			22:COM9	22:COM9	26:COM13	26:COM13	22:COM9	30:COM17
	3959	-ve	0.000	64.978	2.380	17.487	3.636	76.925
			-	28:COM15	16:COM3	16:COM3	16:COM3	20:COM7
			-27.757	-98.123	-0.778	-5.427	-1.481	-29.245
			22:COM9	22:COM9	26:COM13	26:COM13	26:COM13	30:COM17
9601	3988	+ve	0.000	26.230	2.938	12.068	2.274	35.513
			-	28:COM15	24:COM11	24:COM11	16:COM3	28:COM15
			-15.273	-51.884	-4.027	-14.753	-1.529	-48.235
			35:CVOL4	22:COM9	18:COM5	18:COM5	26:COM13	22:COM9
	3960	-ve	0.000	23.252	2.938	12.068	3.625	47.576
			-	28:COM15	24:COM11	24:COM11	24:COM11	20:COM7
			-15.273	-57.605	-4.027	-14.753	-4.786	-7.791
			35:CVOL4	22:COM9	18:COM5	18:COM5	18:COM5	30:COM17
9602	3989	+ve	0.000	30.785	1.667	9.839	1.501	40.560
			-	28:COM15	24:COM11	24:COM11	16:COM3	28:COM15
			-18.093	-45.381	-2.485	-13.404	-0.794	-47.146
			22:COM9	22:COM9	18:COM5	18:COM5	26:COM13	22:COM9
	6434	-ve	0.000	28.964	1.667	9.839	1.067	12.992
			-	28:COM15	24:COM11	24:COM11	16:COM3	20:COM7
			-18.093	-48.879	-2.485	-13.404	-1.235	-1.114
			22:COM9	22:COM9	18:COM5	18:COM5	26:COM13	30:COM17
9603	3990	+ve	0.000	38.263	1.995	11.174	0.980	47.217
			-	28:COM15	16:COM3	24:COM11	24:COM11	20:COM7
			-20.557	-47.222	-1.867	-12.686	-1.235	-50.775
			22:COM9	22:COM9	26:COM13	18:COM5	18:COM5	30:COM17
	6435	-ve	0.000	36.442	1.995	11.174	1.008	10.642
			-	28:COM15	16:COM3	24:COM11	24:COM11	20:COM7
			-20.557	-50.720	-1.867	-12.686	-1.126	-1.768
			22:COM9	22:COM9	26:COM13	18:COM5	18:COM5	30:COM17
9604	3991	+ve	0.000	78.704	1.203	6.258	1.333	97.948
			-	28:COM15	28:COM15	24:COM11	20:COM7	20:COM7
			-27.736	-95.062	-2.131	-17.160	-1.654	-99.388
			18:COM5	22:COM9	22:COM9	18:COM5	30:COM17	30:COM17
	6436	-ve	0.000	76.697	1.203	6.258	0.509	20.148
			-	28:COM15	28:COM15	24:COM11	24:COM11	20:COM7
			-27.736	-98.807	-2.131	-17.160	-1.824	-1.007
			18:COM5	22:COM9	22:COM9	18:COM5	18:COM5	30:COM17
9605	4003	+ve	0.000	0.548	0.171	0.292	0.000	0.000
			-	32:CVOL1	34:CVOL3	35:CVOL4	-	-
			-6.578	-1.399	0.000	0.000	-0.250	-0.501
			34:CVOL3	35:CVOL4	-	-	34:CVOL3	34:CVOL3
	4004	-ve	0.000	0.000	0.171	0.292	0.276	9.989
			-	-	34:CVOL3	35:CVOL4	34:CVOL3	32:CVOL1
			-6.578	-7.164	0.000	0.000	0.000	0.000
			34:CVOL3	32:CVOL1	-	-	-	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
9606	4003	+ve	1.948	1.399	5.230	0.534	0.000	0.228
			34:CVOL3	35:CVOL4	34:CVOL3	34:CVOL3	-	33:CVOL2
			0.000	-0.548	0.000	0.000	-0.207	0.000
			-	32:CVOL1	-	-	34:CVOL3	-
	4220	-ve	1.948	1.183	5.230	0.534	0.861	0.229
			34:CVOL3	35:CVOL4	34:CVOL3	34:CVOL3	34:CVOL3	32:CVOL1
			0.000	-0.800	0.000	0.000	0.000	-0.093
			-	32:CVOL1	-	-	-	35:CVOL4
9607	3998	+ve	0.000	15.332	0.000	0.974	0.396	57.077
			-	20:COM7	-	20:COM7	34:CVOL3	20:COM7
			-23.170	0.000	-0.366	-0.130	0.000	0.000
			22:COM9	-	34:CVOL3	30:COM1	-	-
	4184	-ve	0.000	13.226	0.000	0.974	0.000	28.747
			-	20:COM7	-	20:COM7	-	20:COM7
			-23.170	0.000	-0.366	-0.130	-0.330	0.000
			22:COM9	-	34:CVOL3	30:COM1	34:CVOL3	-
9608	3997	+ve	1.217	9.397	0.088	1.536	0.000	23.015
			28:COM1	20:COM7	20:COM7	16:COM3	-	20:COM7
			-4.109	0.000	0.000	0.000	-0.086	0.000
			22:COM9	-	-	-	22:COM9	-
	4190	-ve	1.217	7.400	0.088	1.536	0.086	8.299
			28:COM1	20:COM7	20:COM7	16:COM3	20:COM7	35:CVOL4
			-4.109	0.000	0.000	0.000	0.000	0.000
			22:COM9	-	-	-	-	-
9609	3998	+ve	14.992	0.000	0.000	11.670	12.067	0.000
			20:COM7	-	-	20:COM7	34:CVOL3	-
			0.000	-26.216	-7.228	-6.677	0.000	-1.697
			-	34:CVOL3	34:CVOL3	30:COM1	-	34:CVOL3
	3968	-ve	14.992	0.000	0.000	11.670	0.000	95.994
			20:COM7	-	-	20:COM7	-	34:CVOL3
			0.000	-37.760	-7.228	-6.677	-10.006	0.000
			-	34:CVOL3	34:CVOL3	30:COM1	34:CVOL3	-
9610	3997	+ve	5.706	0.000	0.121	4.125	0.092	0.000
			20:COM7	-	20:COM7	28:COM1	28:COM1	-
			-2.241	-19.938	-0.053	-6.764	-0.134	-2.829
			30:COM1	35:CVOL4	30:COM1	22:COM9	22:COM9	35:CVOL4
	3964	-ve	5.706	0.000	0.121	4.125	0.263	74.613
			20:COM7	-	20:COM7	28:COM1	16:COM3	35:CVOL4
			-2.241	-30.778	-0.053	-6.764	-0.098	0.000
			30:COM1	35:CVOL4	30:COM1	22:COM9	26:COM1	-
9611	4004	+ve	1.372	10.617	0.004	0.082	0.000	11.208
			28:COM1	34:CVOL3	16:COM3	33:CVOL2	-	32:CVOL1
			-2.333	0.000	-0.002	-0.070	-0.029	0.000
			22:COM9	-	26:COM1	34:CVOL3	34:CVOL3	-
	4005	-ve	1.372	0.000	0.004	0.082	0.004	14.463
			28:COM1	-	16:COM3	33:CVOL2	24:COM1	34:CVOL3
			-2.333	-12.078	-0.002	-0.070	-0.022	0.000
			22:COM9	34:CVOL3	26:COM1	34:CVOL3	18:COM5	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
9612	3968	+ve	198.872	95.499	0.000	4.014	3.831	419.609
			34:CVOL3	34:CVOL3	-	28:COM15	32:CVOL1	34:CVOL3
			0.000	0.000	-2.696	-2.936	0.000	0.000
			-	-	32:CVOL1	22:COM9	-	-
	4152	-ve	198.872	92.674	0.000	4.014	0.961	265.976
			34:CVOL3	34:CVOL3	-	28:COM15	20:COM7	34:CVOL3
			0.000	0.000	-2.696	-2.936	-0.873	0.000
			-	-	32:CVOL1	22:COM9	30:COM17	-
9613	4005	+ve	0.515	6.076	0.202	0.000	0.012	5.321
			24:COM11	34:CVOL3	20:COM7	-	24:COM11	32:CVOL1
			-0.665	0.000	0.000	-0.537	-0.053	0.000
			18:COM5	-	-	34:CVOL3	18:COM5	-
	4006	-ve	0.515	2.203	0.202	0.000	0.205	0.367
			24:COM11	20:COM7	20:COM7	-	20:COM7	20:COM7
			-0.665	0.000	0.000	-0.537	0.000	0.000
			18:COM5	-	-	34:CVOL3	-	-
9614	3959	+ve	5.738	30.299	1.609	14.411	1.043	60.117
			20:COM7	34:CVOL3	16:COM3	16:COM3	24:COM11	34:CVOL3
			-3.658	0.000	-0.543	-1.987	-2.841	0.000
			30:COM17	-	26:COM13	26:COM13	18:COM5	-
	3992	-ve	5.738	20.254	1.609	14.411	1.110	0.000
			20:COM7	34:CVOL3	16:COM3	16:COM3	16:COM3	-
			-3.658	0.000	-0.543	-1.987	-0.295	-1.810
			30:COM17	-	26:COM13	26:COM13	26:COM13	34:CVOL3
9615	3960	+ve	5.807	25.242	1.509	7.860	2.764	48.471
			20:COM7	35:CVOL4	24:COM11	24:COM11	16:COM3	35:CVOL4
			0.000	0.000	-1.839	-10.277	-2.347	0.000
			-	-	18:COM5	18:COM5	26:COM13	-
	3993	-ve	5.807	15.762	1.509	7.860	1.360	0.000
			20:COM7	35:CVOL4	24:COM11	24:COM11	24:COM11	-
			0.000	0.000	-1.839	-10.277	-1.752	-1.759
			-	-	18:COM5	18:COM5	18:COM5	35:CVOL4
9616	3961	+ve	6.977	27.198	1.124	7.641	3.134	53.143
			20:COM7	34:CVOL3	24:COM11	24:COM11	16:COM3	34:CVOL3
			0.000	0.000	-2.013	-9.279	-1.715	0.000
			-	-	18:COM5	18:COM5	26:COM13	-
	3994	-ve	6.977	17.718	1.124	7.641	1.040	0.000
			20:COM7	34:CVOL3	24:COM11	24:COM11	24:COM11	-
			0.000	0.000	-2.013	-9.279	-1.799	-1.892
			-	-	18:COM5	18:COM5	18:COM5	35:CVOL4
9617	3962	+ve	6.022	28.168	1.611	8.624	2.765	55.259
			20:COM7	35:CVOL4	24:COM11	24:COM11	16:COM3	35:CVOL4
			0.000	0.000	-1.704	-8.694	-2.521	0.000
			-	-	18:COM5	18:COM5	26:COM13	-
	3995	-ve	6.022	18.688	1.611	8.624	1.442	0.000
			20:COM7	35:CVOL4	24:COM11	24:COM11	16:COM3	-
			0.000	0.000	-1.704	-8.694	-1.425	-2.139
			-	-	18:COM5	18:COM5	26:COM13	35:CVOL4

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
9618	3963	+ve	7.370	31.187	0.933	1.198	2.793	62.287
			20:COM7	34:CVOL3	24:COM11	24:COM11	16:COM3	34:CVOL3
			-3.395	0.000	-1.541	-14.358	-1.662	0.000
			30:COM17	-	18:COM5	18:COM5	26:COM13	-
	3996	-ve	7.370	21.267	0.933	1.198	0.643	0.000
			20:COM7	16:COM3	24:COM11	24:COM11	24:COM11	-
			-3.395	0.000	-1.541	-14.358	-1.001	-1.815
			30:COM17	-	18:COM5	18:COM5	18:COM5	34:CVOL3
9619	3992	+ve	8.349	10.380	0.016	0.000	0.131	35.831
			20:COM7	34:CVOL3	24:COM11	-	16:COM3	16:COM3
			-7.332	0.000	-0.145	-1.251	-0.018	0.000
			30:COM17	-	18:COM5	34:CVOL3	26:COM13	-
	4078	-ve	8.349	8.732	0.016	0.000	0.019	17.811
			20:COM7	34:CVOL3	24:COM11	-	24:COM11	16:COM3
			-7.332	0.000	-0.145	-1.251	-0.158	-3.363
			30:COM17	-	18:COM5	34:CVOL3	18:COM5	26:COM13
9620	3993	+ve	4.309	7.995	0.000	0.126	0.149	19.062
			28:COM15	35:CVOL4	-	24:COM11	16:COM3	16:COM3
			-15.590	0.000	-0.150	-0.995	0.000	0.000
			22:COM9	-	18:COM5	18:COM5	-	-
	4083	-ve	4.309	6.347	0.000	0.126	0.000	7.212
			28:COM15	35:CVOL4	-	24:COM11	-	16:COM3
			-15.590	0.000	-0.150	-0.995	-0.145	-2.169
			22:COM9	-	18:COM5	18:COM5	18:COM5	26:COM13
9621	3994	+ve	12.195	9.264	0.000	0.000	0.190	21.912
			28:COM15	35:CVOL4	-	-	16:COM3	16:COM3
			-27.233	0.000	-0.176	-1.162	0.000	0.000
			22:COM9	-	18:COM5	18:COM5	-	-
	4088	-ve	12.195	7.616	0.000	0.000	0.000	7.737
			28:COM15	35:CVOL4	-	-	-	16:COM3
			-27.233	0.000	-0.176	-1.162	-0.154	-2.203
			22:COM9	-	18:COM5	18:COM5	18:COM5	26:COM13
9622	3995	+ve	8.866	9.225	0.002	0.000	0.188	23.481
			28:COM15	35:CVOL4	24:COM11	-	16:COM3	16:COM3
			-18.842	0.000	-0.174	-1.311	-0.007	0.000
			22:COM9	-	18:COM5	18:COM5	26:COM13	-
	4093	-ve	8.866	7.577	0.002	0.000	0.000	8.992
			28:COM15	35:CVOL4	24:COM11	-	-	16:COM3
			-18.842	0.000	-0.174	-1.311	-0.152	-2.222
			22:COM9	-	18:COM5	18:COM5	18:COM5	26:COM13
9623	3996	+ve	3.199	10.136	0.018	0.090	0.131	40.883
			28:COM15	20:COM7	24:COM11	24:COM11	16:COM3	34:CVOL3
			-5.674	0.000	-0.121	-0.340	-0.018	0.000
			22:COM9	-	18:COM5	18:COM5	26:COM13	-
	4098	-ve	3.199	8.395	0.018	0.090	0.023	22.296
			28:COM15	20:COM7	24:COM11	24:COM11	24:COM11	34:CVOL3
			-5.674	0.000	-0.121	-0.340	-0.121	0.000
			22:COM9	-	18:COM5	18:COM5	18:COM5	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
9624	4005	+ve	8.113	0.000	0.000	8.671	2.833	0.000
			16:COM3	-	-	34:CVOL3	20:COM7	-
			0.000	-18.155	-2.411	0.000	0.000	-3.850
			-	34:CVOL3	22:COM9	-	-	34:CVOL3
	4213	-ve	8.113	0.000	0.000	8.671	0.541	35.611
			16:COM3	-	-	34:CVOL3	28:COM15	34:CVOL3
			0.000	-22.213	-2.411	0.000	-1.885	0.000
			-	34:CVOL3	22:COM9	-	22:COM9	-
9625	3999	+ve	1.642	8.644	0.103	0.914	0.011	37.043
			20:COM7	35:CVOL4	20:COM7	16:COM3	28:COM15	16:COM3
			-1.923	0.000	-0.009	0.000	-0.105	0.000
			30:COM17	-	30:COM17	-	22:COM9	-
	4158	-ve	1.642	6.800	0.103	0.914	0.100	22.374
			20:COM7	35:CVOL4	20:COM7	16:COM3	20:COM7	16:COM3
			-1.923	0.000	-0.009	0.000	-0.009	-6.757
			30:COM17	-	30:COM17	-	30:COM17	26:COM13
9626	4000	+ve	14.297	8.467	0.183	1.047	0.103	28.877
			20:COM7	16:COM3	20:COM7	16:COM3	28:COM15	16:COM3
			-15.695	0.000	-0.079	-0.187	-0.208	0.000
			30:COM17	-	30:COM17	26:COM13	22:COM9	-
	4164	-ve	14.297	6.634	0.183	1.047	0.153	19.806
			20:COM7	16:COM3	20:COM7	16:COM3	20:COM7	16:COM3
			-15.695	0.000	-0.079	-0.187	-0.054	-7.372
			30:COM17	-	30:COM17	26:COM13	30:COM17	26:COM13
9627	4001	+ve	7.830	11.693	0.180	0.262	0.124	24.689
			28:COM15	16:COM3	20:COM7	20:COM7	28:COM15	35:CVOL4
			-10.681	0.000	-0.108	-0.003	-0.201	0.000
			22:COM9	-	30:COM17	30:COM17	22:COM9	-
	4167	-ve	7.830	9.861	0.180	0.262	0.155	12.546
			28:COM15	16:COM3	20:COM7	20:COM7	20:COM7	16:COM3
			-10.681	0.000	-0.108	-0.003	-0.091	-1.784
			22:COM9	-	30:COM17	30:COM17	30:COM17	26:COM13
9628	4002	+ve	3.389	4.469	0.374	10.846	0.307	0.699
			28:COM15	24:COM11	16:COM3	24:COM11	20:COM7	24:COM11
			-2.917	-22.079	-0.307	-18.846	-0.168	-1.427
			22:COM9	18:COM5	26:COM13	18:COM5	30:COM17	18:COM5
	3969	-ve	3.389	2.340	0.374	10.846	0.569	28.613
			28:COM15	24:COM11	16:COM3	24:COM11	16:COM3	16:COM3
			-2.917	-25.917	-0.307	-18.846	-0.346	-3.589
			22:COM9	18:COM5	26:COM13	18:COM5	26:COM13	26:COM13
9629	4001	+ve	4.273	0.000	0.502	13.015	0.625	0.000
			28:COM15	-	24:COM11	16:COM3	16:COM3	-
			-3.592	-18.885	-0.622	-10.773	-0.532	-1.271
			22:COM9	18:COM5	18:COM5	26:COM13	26:COM13	18:COM5
	3967	-ve	4.273	0.000	0.502	13.015	0.454	25.483
			28:COM15	-	24:COM11	16:COM3	28:COM15	16:COM3
			-3.592	-22.723	-0.622	-10.773	-0.512	0.000
			22:COM9	18:COM5	18:COM5	26:COM13	22:COM9	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
9630	4000	+ve	5.092	0.000	0.386	17.655	0.351	0.000
			28:COM15	-	24:COM11	16:COM3	24:COM11	-
			-4.905	-15.555	-0.469	-14.256	-0.403	-1.617
			22:COM9	35:CVOL4	18:COM5	26:COM13	18:COM5	34:CVOL3
	3966	-ve	5.092	0.000	0.386	17.655	0.196	20.620
			28:COM15	-	24:COM11	16:COM3	28:COM15	35:CVOL4
			-4.905	-19.993	-0.469	-14.256	-0.352	0.000
			22:COM9	35:CVOL4	18:COM5	26:COM13	22:COM9	-
9631	3999	+ve	1.595	0.000	0.493	6.416	0.176	0.000
			28:COM15	-	20:COM7	16:COM3	24:COM11	-
			-1.559	-17.122	-0.417	-9.141	-0.214	-1.107
			22:COM9	18:COM5	30:COM17	26:COM13	18:COM5	35:CVOL4
	3965	-ve	1.595	0.000	0.493	6.416	0.588	22.795
			28:COM15	-	20:COM7	16:COM3	20:COM7	16:COM3
			-1.559	-20.960	-0.417	-9.141	-0.532	0.000
			22:COM9	18:COM5	30:COM17	26:COM13	30:COM17	-
9632	4007	+ve	0.246	3.069	0.000	0.027	0.130	0.216
			28:COM15	34:CVOL3	-	16:COM3	16:COM3	34:CVOL3
			-0.537	0.000	-0.158	-0.113	0.000	0.000
			22:COM9	-	22:COM9	26:COM13	-	-
	4008	-ve	0.246	0.000	0.000	0.027	0.000	0.226
			28:COM15	-	-	16:COM3	-	24:COM11
			-0.537	-1.624	-0.158	-0.113	-0.084	-0.997
			22:COM9	32:CVOL1	22:COM9	26:COM13	22:COM9	34:CVOL3
9633	4008	+ve	0.468	7.349	0.002	0.668	0.016	0.714
			28:COM15	34:CVOL3	28:COM15	34:CVOL3	20:COM7	32:CVOL1
			-2.032	0.000	-0.004	0.000	-0.007	-1.679
			22:COM9	-	22:COM9	-	30:COM17	35:CVOL4
	4009	-ve	0.468	0.000	0.002	0.668	0.008	20.656
			28:COM15	-	28:COM15	34:CVOL3	28:COM15	34:CVOL3
			-2.032	-13.879	-0.004	0.000	-0.011	0.000
			22:COM9	34:CVOL3	22:COM9	-	22:COM9	-
9634	3969	+ve	4.750	80.263	1.657	4.392	0.952	148.159
			20:COM7	16:COM3	20:COM7	16:COM3	28:COM15	16:COM3
			-5.417	-51.643	-0.980	0.000	-1.600	-86.836
			30:COM17	26:COM13	30:COM17	-	22:COM9	26:COM13
	4169	-ve	4.750	78.322	1.657	4.392	1.199	14.947
			20:COM7	16:COM3	20:COM7	16:COM3	20:COM7	16:COM3
			-5.417	-53.099	-0.980	0.000	-0.707	0.000
			30:COM17	26:COM13	30:COM17	-	30:COM17	-
9635	4002	+ve	1.884	12.731	0.100	0.642	0.082	29.352
			24:COM11	16:COM3	20:COM7	16:COM3	28:COM15	16:COM3
			-2.602	-7.358	-0.076	0.000	-0.098	-7.521
			18:COM5	26:COM13	30:COM17	-	22:COM9	26:COM13
	4211	-ve	1.884	11.168	0.100	0.642	0.070	11.231
			24:COM11	16:COM3	20:COM7	16:COM3	20:COM7	34:CVOL3
			-2.602	-8.531	-0.076	0.000	-0.046	0.000
			18:COM5	26:COM13	30:COM17	-	30:COM17	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
9636	4009	+ve	1.790	7.612	0.006	0.910	0.010	17.518
			24:COM1	32:CVOL1	16:COM3	16:COM3	24:COM1	34:CVOL3
			-4.233	0.000	-0.002	0.000	-0.023	0.000
			18:COM5	-	26:COM1	-	18:COM5	-
	4266	-ve	1.790	0.000	0.006	0.910	0.014	5.599
			24:COM1	-	16:COM3	16:COM3	16:COM3	16:COM3
			-4.233	-2.815	-0.002	0.000	-0.006	-0.153
			18:COM5	32:CVOL1	26:COM1	-	26:COM1	26:COM1
9637	3955	+ve	39.574	116.272	1.021	2.582	1.800	203.900
			16:COM3	16:COM3	28:COM1	20:COM7	20:COM7	16:COM3
			-30.316	-82.670	-1.944	0.000	-0.750	-154.591
			26:COM1	26:COM1	22:COM9	-	30:COM1	26:COM1
	4070	-ve	39.574	113.944	1.021	2.582	1.024	11.755
			16:COM3	16:COM3	28:COM1	20:COM7	28:COM1	24:COM1
			-30.316	-84.416	-1.944	0.000	-1.527	-15.538
			26:COM1	26:COM1	22:COM9	-	22:COM9	18:COM5
9638	4011	+ve	3.790	29.829	0.659	3.665	0.979	58.192
			28:COM1	20:COM7	28:COM1	28:COM1	20:COM7	20:COM7
			-6.816	0.000	-0.931	-5.937	-0.700	0.000
			22:COM9	-	22:COM9	22:COM9	30:COM1	-
	4172	-ve	3.790	26.737	0.659	3.665	0.582	10.780
			28:COM1	20:COM7	28:COM1	28:COM1	28:COM1	24:COM1
			-6.816	0.000	-0.931	-5.937	-0.831	-16.181
			22:COM9	-	22:COM9	22:COM9	22:COM9	18:COM5
9639	4013	+ve	10.619	0.804	7.577	19.099	1.540	51.136
			28:COM1	28:COM1	16:COM3	16:COM3	28:COM1	20:COM7
			-15.430	-57.145	-6.337	-14.107	-1.887	-31.706
			22:COM9	22:COM9	26:COM1	26:COM1	22:COM9	30:COM1
	3947	-ve	10.619	0.000	7.577	19.099	4.519	94.911
			28:COM1	-	16:COM3	16:COM3	16:COM3	20:COM7
			-15.430	-59.597	-6.337	-14.107	-3.936	-31.828
			22:COM9	22:COM9	26:COM1	26:COM1	26:COM1	30:COM1
9640	4014	+ve	1.846	0.000	6.171	16.928	4.115	46.011
			28:COM1	-	16:COM3	16:COM3	20:COM7	20:COM7
			-15.555	-77.737	-3.940	-12.785	-2.852	-13.073
			22:COM9	22:COM9	26:COM1	26:COM1	30:COM1	30:COM1
	3948	-ve	1.846	0.000	6.171	16.928	5.744	105.221
			28:COM1	-	16:COM3	16:COM3	16:COM3	20:COM7
			-15.555	-80.189	-3.940	-12.785	-2.808	-6.090
			22:COM9	22:COM9	26:COM1	26:COM1	26:COM1	30:COM1
9641	4015	+ve	10.194	1.146	6.219	20.438	3.083	45.487
			28:COM1	28:COM1	16:COM3	16:COM3	28:COM1	20:COM7
			-18.607	-76.049	-4.890	-14.539	-3.413	-26.338
			22:COM9	22:COM9	26:COM1	26:COM1	22:COM9	30:COM1
	3949	-ve	10.194	0.000	6.219	20.438	4.713	103.406
			28:COM1	-	16:COM3	16:COM3	16:COM3	20:COM7
			-18.607	-78.501	-4.890	-14.539	-4.046	-26.682
			22:COM9	22:COM9	26:COM1	26:COM1	26:COM1	30:COM1

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
9642	4013	+ve	15.961	34.591	19.170	27.582	2.869	56.112
			28:COM15	20:COM7	20:COM7	28:COM15	28:COM15	20:COM7
			-30.926	-1.223	-16.322	-48.390	-4.092	0.000
			22:COM9	30:COM17	30:COM17	22:COM9	22:COM9	-
	5876	-ve	15.961	34.428	19.170	27.582	0.649	48.598
			28:COM15	20:COM7	20:COM7	28:COM15	28:COM15	20:COM7
			-30.926	-1.345	-16.322	-48.390	-1.201	0.000
			22:COM9	30:COM17	30:COM17	22:COM9	22:COM9	-
9643	4014	+ve	2.652	39.833	17.931	9.102	4.437	72.846
			28:COM15	20:COM7	20:COM7	28:COM15	28:COM15	20:COM7
			-12.209	0.000	-12.695	-36.182	-7.032	0.000
			22:COM9	-	30:COM17	22:COM9	22:COM9	-
	5861	-ve	2.652	39.417	17.931	9.102	3.767	49.652
			28:COM15	20:COM7	20:COM7	28:COM15	20:COM7	20:COM7
			-12.209	0.000	-12.695	-36.182	-3.213	0.000
			22:COM9	-	30:COM17	22:COM9	30:COM17	-
9644	3939	+ve	11.892	69.805	1.111	24.574	0.911	156.881
			20:COM7	20:COM7	20:COM7	28:COM15	28:COM15	20:COM7
			-6.201	0.000	-0.964	-36.123	-1.078	-16.014
			30:COM17	-	30:COM17	22:COM9	22:COM9	30:COM17
	4010	-ve	11.892	62.660	1.111	24.574	1.559	4.303
			20:COM7	20:COM7	20:COM7	28:COM15	20:COM7	28:COM15
			-6.201	-2.509	-0.964	-36.123	-1.381	-18.390
			30:COM17	30:COM17	30:COM17	22:COM9	30:COM17	22:COM9
9645	3940	+ve	25.504	84.693	0.199	26.455	0.316	201.000
			20:COM7	20:COM7	28:COM15	16:COM3	20:COM7	20:COM7
			-19.168	-1.384	-0.377	-15.335	-0.193	-55.878
			30:COM17	30:COM17	22:COM9	26:COM13	30:COM17	30:COM17
	4012	-ve	25.504	77.559	0.199	26.455	0.281	19.415
			20:COM7	20:COM7	28:COM15	16:COM3	28:COM15	28:COM15
			-19.168	-5.678	-0.377	-15.335	-0.574	-56.549
			30:COM17	30:COM17	22:COM9	26:COM13	22:COM9	22:COM9
9647	4012	+ve	24.159	29.390	0.159	0.000	0.524	86.900
			28:COM15	20:COM7	28:COM15	-	20:COM7	20:COM7
			-29.389	0.000	-0.407	-6.448	-0.263	-1.898
			22:COM9	-	22:COM9	22:COM9	30:COM17	30:COM17
	4174	-ve	24.159	26.250	0.159	0.000	0.057	33.337
			28:COM15	20:COM7	28:COM15	-	28:COM15	20:COM7
			-29.389	0.000	-0.407	-6.448	-0.286	-5.846
			22:COM9	-	22:COM9	22:COM9	22:COM9	30:COM17
9648	4017	+ve	112.970	79.417	6.778	0.000	15.783	29.449
			28:COM15	28:COM15	28:COM15	-	20:COM7	28:COM15
			-162.637	-106.108	-11.376	-17.531	-8.826	-92.604
			22:COM9	22:COM9	22:COM9	18:COM5	30:COM17	22:COM9
	3946	-ve	112.970	66.799	6.778	0.000	13.738	288.144
			28:COM15	28:COM15	28:COM15	-	28:COM15	20:COM7
			-162.637	-128.489	-11.376	-17.531	-21.861	-212.525
			22:COM9	22:COM9	22:COM9	18:COM5	22:COM9	30:COM17

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
9649	4017	+ve	7.938	23.646	1.613	6.716	0.791	50.430
			28:COM15	20:COM7	20:COM7	20:COM7	28:COM15	34:CVOL3
			-18.639	0.000	-0.784	-5.279	-1.589	0.000
			22:COM9	-	30:COM17	30:COM17	22:COM9	-
	4177	-ve	7.938	20.780	1.613	6.716	1.348	30.448
			28:COM15	20:COM7	20:COM7	20:COM7	20:COM7	20:COM7
			-18.639	0.000	-0.784	-5.279	-0.653	-6.807
			22:COM9	-	30:COM17	30:COM17	30:COM17	30:COM17
9650	4021	+ve	10.910	49.736	0.469	13.191	0.821	90.086
			24:COM11	16:COM3	20:COM7	20:COM7	28:COM15	16:COM3
			-13.568	0.000	-0.769	-4.509	-0.393	-26.528
			18:COM5	-	30:COM17	30:COM17	22:COM9	26:COM13
	4022	-ve	10.910	47.013	0.469	13.191	0.573	9.827
			24:COM11	16:COM3	20:COM7	20:COM7	20:COM7	24:COM11
			-13.568	0.000	-0.769	-4.509	-0.735	-63.972
			18:COM5	-	30:COM17	30:COM17	30:COM17	18:COM5
9651	4010	+ve	7.659	32.023	0.107	0.000	0.388	65.205
			24:COM11	20:COM7	28:COM15	-	20:COM7	16:COM3
			-10.513	-2.388	-0.316	-2.772	-0.179	0.000
			18:COM5	30:COM17	22:COM9	18:COM5	30:COM17	-
	4180	-ve	7.659	29.029	0.107	0.000	0.119	16.423
			24:COM11	20:COM7	28:COM15	-	24:COM11	20:COM7
			-10.513	-4.634	-0.316	-2.772	-0.303	0.000
			18:COM5	30:COM17	22:COM9	18:COM5	18:COM5	-
9652	4018	+ve	6.314	3.087	11.299	15.780	1.228	9.362
			28:COM15	28:COM15	20:COM7	16:COM3	28:COM15	34:CVOL3
			-10.572	-21.114	-6.661	0.000	-2.373	0.000
			22:COM9	22:COM9	30:COM17	-	22:COM9	-
	4011	-ve	6.314	2.712	11.299	15.780	1.182	14.915
			28:COM15	28:COM15	20:COM7	16:COM3	20:COM7	20:COM7
			-10.572	-21.613	-6.661	0.000	-0.871	0.000
			22:COM9	22:COM9	30:COM17	-	30:COM17	-
9653	4019	+ve	56.774	0.097	27.047	6.510	4.777	8.495
			20:COM7	24:COM11	20:COM7	20:COM7	28:COM15	28:COM15
			-45.930	-4.859	-18.303	-2.958	-6.905	-34.034
			30:COM17	18:COM5	30:COM17	30:COM17	22:COM9	22:COM9
	4183	-ve	56.774	0.000	27.047	6.510	9.068	9.054
			20:COM7	-	20:COM7	20:COM7	20:COM7	28:COM15
			-45.930	-5.799	-18.303	-2.958	-6.034	-31.296
			30:COM17	18:COM5	30:COM17	30:COM17	30:COM17	22:COM9
9654	4020	+ve	19.971	18.406	3.074	2.532	1.724	10.050
			16:COM3	28:COM15	16:COM3	16:COM3	24:COM11	24:COM11
			-19.923	-35.616	-2.391	-0.170	-2.213	-12.879
			26:COM13	22:COM9	26:COM13	26:COM13	18:COM5	18:COM5
	4232	-ve	19.971	16.747	3.074	2.532	2.060	51.614
			16:COM3	28:COM15	16:COM3	16:COM3	16:COM3	20:COM7
			-19.923	-37.828	-2.391	-0.170	-1.600	-27.843
			26:COM13	22:COM9	26:COM13	26:COM13	26:COM13	30:COM17

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
9655	4022	+ve	11.238	29.864	0.273	4.885	0.239	9.963
			24:COM1	16:COM3	20:COM7	28:COM1	28:COM1	24:COM1
			-13.206	0.000	-0.151	-3.261	-0.494	-63.880
			18:COM5	-	30:COM1	22:COM9	22:COM9	18:COM5
	4023	-ve	11.238	27.141	0.273	4.885	0.470	0.000
			24:COM1	16:COM3	20:COM7	28:COM1	20:COM7	-
			-13.206	0.000	-0.151	-3.261	-0.484	-83.973
			18:COM5	-	30:COM1	22:COM9	30:COM1	34:CVOL3
9656	4023	+ve	13.996	11.353	0.323	1.884	0.527	0.000
			24:COM1	16:COM3	28:COM1	28:COM1	20:COM7	-
			-16.702	-7.616	-0.355	-4.028	-0.471	-83.744
			18:COM5	26:COM1	22:COM9	22:COM9	30:COM1	34:CVOL3
	4024	-ve	13.996	8.630	0.323	1.884	0.297	0.000
			24:COM1	16:COM3	28:COM1	28:COM1	20:COM7	-
			-16.702	-9.658	-0.355	-4.028	-0.303	-85.792
			18:COM5	26:COM1	22:COM9	22:COM9	30:COM1	34:CVOL3
9657	4024	+ve	16.154	0.492	0.529	2.214	0.395	0.000
			24:COM1	24:COM11	28:COM1	28:COM1	20:COM7	-
			-17.779	-25.686	-0.562	-8.105	-0.362	-85.794
			18:COM5	18:COM5	22:COM9	22:COM9	30:COM1	34:CVOL3
	4025	-ve	16.154	0.000	0.529	2.214	0.700	3.591
			24:COM1	-	28:COM1	28:COM1	28:COM1	24:COM1
			-17.779	-28.409	-0.562	-8.105	-0.731	-64.476
			18:COM5	18:COM5	22:COM9	22:COM9	22:COM9	18:COM5
9658	4025	+ve	16.299	0.000	0.564	3.390	0.511	3.498
			24:COM1	-	28:COM1	28:COM1	20:COM7	24:COM1
			-17.744	-44.095	-0.274	-11.833	-0.589	-64.491
			18:COM5	18:COM5	22:COM9	22:COM9	30:COM1	18:COM5
	4026	-ve	16.299	0.000	0.564	3.390	0.657	75.730
			24:COM1	-	28:COM1	28:COM1	20:COM7	16:COM3
			-17.744	-46.818	-0.274	-11.833	-0.164	-29.577
			18:COM5	18:COM5	22:COM9	22:COM9	30:COM1	26:COM1
9659	4026	+ve	22.305	0.000	1.184	2.545	0.702	75.739
			16:COM3	-	28:COM1	28:COM1	20:COM7	16:COM3
			-17.672	-63.031	-1.546	-16.283	-0.671	-29.637
			26:COM1	18:COM5	22:COM9	22:COM9	30:COM1	26:COM1
	3953	-ve	22.305	0.000	1.184	2.545	1.714	202.206
			16:COM3	-	28:COM1	28:COM1	28:COM1	16:COM3
			-17.672	-65.753	-1.546	-16.283	-2.396	0.000
			26:COM1	18:COM5	22:COM9	22:COM9	22:COM9	-
9660	4027	+ve	22.532	48.385	0.833	10.062	1.802	90.604
			24:COM1	16:COM3	28:COM1	28:COM1	20:COM7	16:COM3
			-31.058	0.000	-1.273	-11.373	-1.135	-34.205
			18:COM5	-	22:COM9	22:COM9	30:COM1	26:COM1
	4028	-ve	22.532	45.655	0.833	10.062	0.559	12.516
			24:COM1	16:COM3	28:COM1	28:COM1	20:COM7	24:COM1
			-31.058	0.000	-1.273	-11.373	-0.758	-64.568
			18:COM5	-	22:COM9	22:COM9	30:COM1	18:COM5

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
9661	4028	+ve	23.943	28.507	0.406	7.086	0.322	12.742
			24:COM1	16:COM3	20:COM7	28:COM1	28:COM1	24:COM1
			-32.412	-0.564	-0.271	-10.524	-0.427	-64.375
			18:COM5	26:COM1	30:COM1	22:COM9	22:COM9	18:COM5
	4029	-ve	23.943	25.776	0.406	7.086	0.421	0.000
			24:COM1	16:COM3	20:COM7	28:COM1	20:COM7	-
			-32.412	-2.612	-0.271	-10.524	-0.261	-76.630
			18:COM5	26:COM1	30:COM1	22:COM9	30:COM1	34:CVOL
9662	4029	+ve	24.414	12.426	0.684	4.113	0.399	0.000
			24:COM1	16:COM3	20:COM7	16:COM3	20:COM7	-
			-32.849	-8.591	-0.571	-2.712	-0.386	-76.570
			18:COM5	26:COM1	30:COM1	26:COM1	30:COM1	34:CVOL
	4030	-ve	24.414	9.737	0.684	4.113	1.003	0.000
			24:COM1	24:COM1	20:COM7	16:COM3	20:COM7	-
			-32.849	-10.680	-0.571	-2.712	-0.768	-78.429
			18:COM5	18:COM5	30:COM1	26:COM1	30:COM1	34:CVOL
9663	4030	+ve	27.422	2.699	0.791	8.747	1.134	0.000
			24:COM1	24:COM1	28:COM1	20:COM7	20:COM7	-
			-34.632	-24.536	-0.971	-5.308	-0.935	-78.625
			18:COM5	18:COM5	22:COM9	30:COM1	30:COM1	34:CVOL
	4031	-ve	27.422	0.652	0.791	8.747	0.672	9.369
			24:COM1	24:COM1	28:COM1	20:COM7	28:COM1	24:COM1
			-34.632	-27.266	-0.971	-5.308	-0.828	-66.662
			18:COM5	18:COM5	22:COM9	30:COM1	22:COM9	18:COM5
9664	4031	+ve	26.931	0.000	1.247	10.112	1.129	9.085
			24:COM1	-	28:COM1	20:COM7	20:COM7	24:COM1
			-34.527	-43.715	-1.241	-10.239	-0.928	-66.832
			18:COM5	18:COM5	22:COM9	30:COM1	30:COM1	18:COM5
	4032	-ve	26.931	0.000	1.247	10.112	1.557	82.125
			24:COM1	-	28:COM1	20:COM7	20:COM7	16:COM3
			-34.527	-46.445	-1.241	-10.239	-1.344	-36.148
			18:COM5	18:COM5	22:COM9	30:COM1	30:COM1	26:COM1
9665	4032	+ve	29.547	0.000	3.762	12.440	3.272	81.964
			24:COM1	-	28:COM1	20:COM7	20:COM7	16:COM3
			-33.089	-63.173	-4.273	-19.138	-2.975	-36.273
			18:COM5	18:COM5	22:COM9	30:COM1	30:COM1	26:COM1
	3954	-ve	29.547	0.000	3.762	12.440	4.478	209.247
			24:COM1	-	28:COM1	20:COM7	28:COM1	16:COM3
			-33.089	-65.903	-4.273	-19.138	-5.190	-5.935
			18:COM5	18:COM5	22:COM9	30:COM1	22:COM9	26:COM1
9666	4033	+ve	16.156	23.905	0.787	7.710	0.993	31.395
			28:COM1	16:COM3	28:COM1	20:COM7	20:COM7	16:COM3
			-35.736	0.000	-0.866	-8.165	-0.851	-12.375
			22:COM9	-	22:COM9	30:COM1	30:COM1	26:COM1
	4034	-ve	16.156	21.656	0.787	7.710	0.747	0.000
			28:COM1	16:COM3	28:COM1	20:COM7	28:COM1	-
			-35.736	0.000	-0.866	-8.165	-0.760	-29.308
			22:COM9	-	22:COM9	30:COM1	22:COM9	18:COM5

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
9667	4034	+ve	12.911	13.249	0.310	2.378	0.316	0.000
			28:COM15	16:COM3	24:COM11	20:COM7	24:COM11	-
			-30.427	0.000	-0.227	-4.089	-0.403	-29.297
			22:COM9	-	18:COM5	30:COM17	18:COM5	18:COM5
	4035	-ve	12.911	11.001	0.310	2.378	0.271	0.000
			28:COM15	16:COM3	24:COM11	20:COM7	28:COM15	-
			-30.427	-1.481	-0.227	-4.089	-0.196	-41.982
			22:COM9	26:COM13	18:COM5	30:COM17	22:COM9	34:CVOL3
9668	4035	+ve	10.715	2.060	0.442	0.000	0.880	0.000
			28:COM15	24:COM11	28:COM15	-	20:COM7	-
			-27.028	-10.174	-0.852	-4.174	-0.302	-42.122
			22:COM9	18:COM5	22:COM9	35:CVOL4	30:COM17	34:CVOL3
	4036	-ve	10.715	0.373	0.442	0.000	0.767	0.000
			28:COM15	24:COM11	28:COM15	-	28:COM15	-
			-27.028	-12.423	-0.852	-4.174	-0.989	-31.793
			22:COM9	18:COM5	22:COM9	35:CVOL4	22:COM9	18:COM5
9669	4036	+ve	8.789	0.000	0.355	8.173	1.438	0.000
			28:COM15	-	24:COM11	28:COM15	20:COM7	-
			-25.427	-21.918	-0.708	-9.465	-0.562	-31.949
			22:COM9	18:COM5	18:COM5	22:COM9	30:COM17	18:COM5
	4037	-ve	8.789	0.000	0.355	8.173	0.809	30.399
			28:COM15	-	24:COM11	28:COM15	16:COM3	16:COM3
			-25.427	-24.166	-0.708	-9.465	-0.620	-12.354
			22:COM9	18:COM5	18:COM5	22:COM9	26:COM13	26:COM13
9670	4037	+ve	9.365	0.000	2.767	16.188	2.288	30.492
			24:COM17	-	16:COM3	28:COM15	16:COM3	16:COM3
			-24.112	-36.549	-2.969	-12.873	-1.555	-12.216
			18:COM5	18:COM5	26:COM13	22:COM9	26:COM13	26:COM13
	3948	-ve	9.365	0.000	2.767	16.188	3.977	102.562
			24:COM17	-	16:COM3	28:COM15	16:COM3	16:COM3
			-24.112	-38.798	-2.969	-12.873	-3.637	-7.936
			18:COM5	18:COM5	26:COM13	22:COM9	26:COM13	26:COM13
9671	4038	+ve	53.496	27.701	5.949	10.984	3.882	35.546
			24:COM17	16:COM3	16:COM3	20:COM7	24:COM11	16:COM3
			-106.159	-0.666	-3.341	0.000	-7.080	-31.289
			18:COM5	26:COM13	26:COM13	-	18:COM5	26:COM13
	4039	-ve	53.496	25.452	5.949	10.984	4.522	0.000
			24:COM17	16:COM3	16:COM3	20:COM7	16:COM3	-
			-106.159	-2.353	-3.341	0.000	-2.636	-42.168
			18:COM5	26:COM13	26:COM13	-	26:COM13	18:COM5
9672	4039	+ve	39.092	10.945	0.765	6.888	1.132	0.000
			28:COM15	16:COM3	24:COM11	20:COM7	16:COM3	-
			-78.292	-3.394	-0.942	-0.792	-1.005	-42.017
			22:COM9	26:COM13	18:COM5	30:COM17	26:COM13	18:COM5
	4040	-ve	39.092	8.697	0.765	6.888	0.503	0.000
			28:COM15	16:COM3	24:COM11	20:COM7	24:COM11	-
			-78.292	-5.081	-0.942	-0.792	-0.721	-42.972
			22:COM9	26:COM13	18:COM5	30:COM17	18:COM5	34:CVOL3

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
9673	4040	+ve	34.123	2.931	0.442	5.709	0.514	0.000
			24:COM1	24:COM11	16:COM3	20:COM7	24:COM11	-
			-67.365	-10.789	-0.383	-4.287	-0.540	-42.894
			18:COM5	18:COM5	26:COM1	30:COM1	18:COM5	34:CVOL
	4041	-ve	34.123	1.245	0.442	5.709	0.334	0.000
			24:COM1	24:COM11	16:COM3	20:COM7	16:COM3	-
			-67.365	-13.038	-0.383	-4.287	-0.246	-33.499
			18:COM5	18:COM5	26:COM1	30:COM1	26:COM1	18:COM5
9674	4041	+ve	32.136	0.000	0.919	8.388	0.747	0.000
			24:COM1	-	16:COM3	28:COM1	24:COM11	-
			-61.692	-22.826	-0.608	-11.669	-0.852	-33.564
			18:COM5	18:COM5	26:COM1	22:COM9	18:COM5	18:COM5
	4042	-ve	32.136	0.000	0.919	8.388	1.007	32.732
			24:COM1	-	16:COM3	28:COM1	16:COM3	16:COM3
			-61.692	-25.075	-0.608	-11.669	-0.506	-18.150
			18:COM5	18:COM5	26:COM1	22:COM9	26:COM1	26:COM1
9675	4042	+ve	32.372	0.000	3.572	10.779	2.774	32.700
			24:COM1	-	16:COM3	28:COM1	24:COM11	16:COM3
			-57.520	-40.302	-3.998	-18.341	-2.292	-18.273
			18:COM5	18:COM5	26:COM1	22:COM9	18:COM5	26:COM1
	3947	-ve	32.372	0.000	3.572	10.779	4.678	112.824
			24:COM1	-	16:COM3	28:COM1	16:COM3	16:COM3
			-57.520	-42.550	-3.998	-18.341	-5.027	-9.800
			18:COM5	18:COM5	26:COM1	22:COM9	26:COM1	26:COM1
9676	4043	+ve	10.848	32.648	0.598	10.706	0.901	36.484
			28:COM1	16:COM3	24:COM1	20:COM7	16:COM3	16:COM3
			-20.681	0.000	-0.867	-3.917	-0.454	-10.790
			22:COM9	-	18:COM5	30:COM1	26:COM1	26:COM1
	4044	-ve	10.848	30.399	0.598	10.706	0.817	0.000
			28:COM1	16:COM3	24:COM1	20:COM7	28:COM1	-
			-20.681	0.000	-0.867	-3.917	-0.894	-39.259
			22:COM9	-	18:COM5	30:COM1	22:COM9	18:COM5
9677	4044	+ve	11.564	22.012	0.856	8.595	0.905	0.000
			28:COM1	16:COM3	20:COM7	20:COM7	28:COM1	-
			-22.495	0.000	-0.533	0.000	-0.991	-39.093
			22:COM9	-	30:COM1	-	22:COM9	18:COM5
	4045	-ve	11.564	19.763	0.856	8.595	0.698	0.000
			28:COM1	16:COM3	20:COM7	20:COM7	20:COM7	-
			-22.495	0.000	-0.533	0.000	-0.155	-67.189
			22:COM9	-	30:COM1	-	30:COM1	22:COM9
9678	4045	+ve	12.517	0.000	0.644	0.280	0.225	0.000
			28:COM1	-	28:COM1	28:COM1	20:COM7	-
			-24.093	-19.303	-0.408	-6.909	-0.281	-67.171
			22:COM9	18:COM5	22:COM9	22:COM9	30:COM1	34:CVOL
	4046	-ve	12.517	0.000	0.644	0.280	1.094	0.000
			28:COM1	-	28:COM1	28:COM1	20:COM7	-
			-24.093	-21.552	-0.408	-6.909	-0.689	-39.327
			22:COM9	18:COM5	22:COM9	22:COM9	30:COM1	18:COM5

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
9679	4046	+ve	13.857	0.000	0.728	5.061	0.456	0.000
			28:COM15	-	20:COM7	28:COM15	28:COM15	-
			-25.992	-29.160	-0.203	-10.898	-0.921	-39.272
			22:COM9	18:COM5	30:COM17	22:COM9	22:COM9	18:COM5
	4047	-ve	13.857	0.000	0.728	5.061	0.821	34.032
			28:COM15	-	20:COM7	28:COM15	16:COM3	16:COM3
			-25.992	-31.409	-0.203	-10.898	-0.264	-7.772
			22:COM9	18:COM5	30:COM17	22:COM9	26:COM13	26:COM13
9680	4047	+ve	15.941	0.000	2.403	9.449	2.482	33.891
			28:COM15	-	24:COM11	28:COM15	16:COM3	16:COM3
			-27.615	-47.262	-3.585	-17.087	-1.299	-7.737
			22:COM9	18:COM5	18:COM5	22:COM9	26:COM13	26:COM13
	3949	-ve	15.941	0.000	2.403	9.449	3.408	127.650
			28:COM15	-	24:COM11	28:COM15	24:COM11	16:COM3
			-27.615	-49.511	-3.585	-17.087	-4.529	0.000
			22:COM9	18:COM5	18:COM5	22:COM9	18:COM5	-
9681	4048	+ve	25.137	36.403	0.343	11.092	1.134	47.251
			24:COM11	16:COM3	24:COM11	20:COM7	16:COM3	16:COM3
			-38.780	0.000	-1.086	-5.665	-0.271	-12.944
			18:COM5	-	18:COM5	30:COM17	26:COM13	26:COM13
	4049	-ve	25.137	34.155	0.343	11.092	0.468	0.000
			24:COM11	16:COM3	24:COM11	20:COM7	28:COM15	-
			-38.780	0.000	-1.086	-5.665	-1.053	-37.404
			18:COM5	-	18:COM5	30:COM17	22:COM9	18:COM5
9682	4049	+ve	25.953	25.854	0.740	6.165	0.929	0.000
			28:COM15	16:COM3	20:COM7	20:COM7	28:COM15	-
			-42.014	0.000	-0.507	0.000	-1.015	-37.216
			22:COM9	-	30:COM17	-	22:COM9	18:COM5
	4050	-ve	25.953	23.605	0.740	6.165	0.555	0.000
			28:COM15	16:COM3	20:COM7	20:COM7	16:COM3	-
			-42.014	0.000	-0.507	0.000	-0.187	-71.734
			22:COM9	-	30:COM17	-	26:COM13	22:COM9
9683	4050	+ve	28.284	1.115	1.404	4.532	0.553	0.000
			28:COM15	24:COM11	20:COM7	28:COM15	28:COM15	-
			-46.046	-15.338	-0.807	-10.344	-1.012	-66.546
			22:COM9	18:COM5	30:COM17	22:COM9	22:COM9	34:CVOL3
	4051	-ve	28.284	0.000	1.404	4.532	1.751	0.000
			28:COM15	-	20:COM7	28:COM15	20:COM7	-
			-46.046	-17.587	-0.807	-10.344	-1.045	-55.737
			22:COM9	18:COM5	30:COM17	22:COM9	30:COM17	22:COM9
9684	4051	+ve	31.831	0.000	1.834	1.013	1.025	0.000
			28:COM15	-	20:COM7	28:COM15	28:COM15	-
			-48.971	-27.809	-1.493	-11.308	-1.617	-55.827
			22:COM9	18:COM5	30:COM17	22:COM9	22:COM9	22:COM9
	4052	-ve	31.831	0.000	1.834	1.013	2.015	28.502
			28:COM15	-	20:COM7	28:COM15	28:COM15	24:COM11
			-48.971	-30.058	-1.493	-11.308	-1.942	-27.054
			22:COM9	18:COM5	30:COM17	22:COM9	22:COM9	18:COM5

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
9685	4052	+ve	37.392	0.000	2.983	15.159	4.935	29.739
			28:COM15	-	28:COM15	28:COM15	20:COM7	16:COM3
			-56.739	-55.689	-5.483	-18.129	-3.136	-23.781
			22:COM9	22:COM9	22:COM9	22:COM9	30:COM17	26:COM13
	3950	-ve	37.392	0.000	2.983	15.159	2.861	129.587
			28:COM15	-	28:COM15	28:COM15	28:COM15	16:COM3
			-56.739	-57.937	-5.483	-18.129	-5.936	0.000
			22:COM9	22:COM9	22:COM9	22:COM9	22:COM9	-
9686	4053	+ve	23.960	11.102	2.623	2.550	0.082	9.829
			28:COM15	20:COM7	20:COM7	16:COM3	28:COM15	20:COM7
			-36.122	-4.835	-0.491	-0.808	-3.328	-3.699
			22:COM9	30:COM17	30:COM17	26:COM13	22:COM9	30:COM17
	3957	-ve	23.960	8.463	2.623	2.550	1.699	7.552
			28:COM15	20:COM7	20:COM7	16:COM3	20:COM7	28:COM15
			-36.122	-6.814	-0.491	-0.808	-0.879	-8.970
			22:COM9	30:COM17	30:COM17	26:COM13	30:COM17	22:COM9
9688	4055	+ve	1.087	140.504	0.000	3.794	0.840	46.781
			24:COM17	28:COM15	-	16:COM3	20:COM7	20:COM7
			-10.428	-224.240	-1.378	-0.899	-0.470	-27.528
			18:COM5	22:COM9	22:COM9	26:COM13	30:COM17	30:COM17
	5733	-ve	1.087	139.747	0.000	3.794	0.191	210.837
			24:COM17	28:COM15	-	16:COM3	28:COM15	20:COM7
			-10.428	-225.250	-1.378	-0.899	-0.990	-129.812
			18:COM5	22:COM9	22:COM9	26:COM13	22:COM9	30:COM17
9689	4056	+ve	7.882	38.487	4.928	6.175	2.721	76.703
			28:COM15	28:COM15	20:COM7	28:COM15	28:COM15	28:COM15
			-10.744	-66.209	-2.984	-14.679	-4.593	-107.117
			22:COM9	22:COM9	30:COM17	22:COM9	22:COM9	22:COM9
	3952	-ve	7.882	36.418	4.928	6.175	5.230	203.224
			28:COM15	28:COM15	20:COM7	28:COM15	20:COM7	20:COM7
			-10.744	-68.967	-2.984	-14.679	-3.227	-173.585
			22:COM9	22:COM9	30:COM17	22:COM9	30:COM17	30:COM17
9690	4057	+ve	7.011	48.192	2.459	1.597	0.888	0.000
			28:COM15	28:COM15	20:COM7	24:COM17	28:COM15	-
			-10.791	-49.568	-1.142	-5.667	-1.987	-31.993
			22:COM9	22:COM9	30:COM17	18:COM5	22:COM9	22:COM9
	4056	-ve	7.011	46.124	2.459	1.597	2.928	77.776
			28:COM15	28:COM15	20:COM7	24:COM17	20:COM7	28:COM15
			-10.791	-52.326	-1.142	-5.667	-1.405	-108.166
			22:COM9	22:COM9	30:COM17	18:COM5	30:COM17	22:COM9
9697	4064	+ve	11.197	40.137	4.072	3.412	2.583	40.622
			24:COM17	16:COM3	28:COM15	20:COM7	16:COM3	16:COM3
			-35.524	-38.868	-7.887	-2.910	-0.147	-35.850
			18:COM5	26:COM13	22:COM9	30:COM17	26:COM13	26:COM13
	3944	-ve	11.197	38.570	4.072	3.412	5.638	16.379
			24:COM17	24:COM11	28:COM15	20:COM7	28:COM15	16:COM3
			-35.524	-40.411	-7.887	-2.910	-8.101	-11.240
			18:COM5	18:COM5	22:COM9	30:COM17	22:COM9	26:COM13

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
9698	4065	+ve	58.000	85.338	1.590	19.756	3.119	130.022
			24:COM1	24:COM11	28:COM15	20:COM7	20:COM7	16:COM3
			-62.252	-124.299	-3.791	-18.904	-1.061	-118.964
			18:COM5	18:COM5	22:COM9	30:COM1	30:COM1	26:COM1
	5381	-ve	58.000	84.404	1.590	19.756	1.113	242.441
			24:COM1	24:COM11	28:COM15	20:COM7	20:COM7	16:COM3
			-62.252	-125.545	-3.791	-18.904	-1.035	-195.339
			18:COM5	18:COM5	22:COM9	30:COM1	30:COM1	26:COM1
9699	4066	+ve	45.349	88.148	2.043	1.384	2.868	53.278
			24:COM1	24:COM11	28:COM15	24:COM1	20:COM7	24:COM1
			-48.435	-99.720	-2.573	-3.113	-2.270	-69.468
			18:COM5	18:COM5	22:COM9	18:COM5	30:COM1	18:COM5
	4065	-ve	45.349	86.098	2.043	1.384	1.776	130.166
			24:COM1	24:COM11	28:COM15	24:COM1	28:COM15	16:COM3
			-48.435	-102.453	-2.573	-3.113	-2.226	-118.780
			18:COM5	18:COM5	22:COM9	18:COM5	22:COM9	26:COM1
9700	4067	+ve	45.195	6.222	3.608	2.947	3.117	2.560
			24:COM1	24:COM11	16:COM3	16:COM3	24:COM11	24:COM1
			-67.565	-5.957	-3.215	-1.935	-3.658	-5.538
			18:COM5	18:COM5	26:COM1	26:COM1	18:COM5	18:COM5
	3945	-ve	45.195	4.107	3.608	2.947	3.756	9.523
			24:COM1	24:COM11	16:COM3	16:COM3	16:COM3	16:COM3
			-67.565	-8.777	-3.215	-1.935	-3.497	-8.014
			18:COM5	18:COM5	26:COM1	26:COM1	26:COM1	26:COM1
9701	4068	+ve	2.766	3.112	0.920	3.896	0.828	1.550
			28:COM15	16:COM3	24:COM11	20:COM7	16:COM3	16:COM3
			-25.023	-0.039	-1.007	-1.632	-0.626	0.000
			22:COM9	26:COM1	18:COM5	30:COM1	26:COM1	-
	4067	-ve	2.766	0.533	0.920	3.896	1.293	2.697
			28:COM15	24:COM11	24:COM11	20:COM7	24:COM11	24:COM1
			-25.023	-2.233	-1.007	-1.632	-1.263	-2.249
			22:COM9	18:COM5	18:COM5	30:COM1	18:COM5	18:COM5
9702	4016	+ve	100.118	57.284	0.625	0.000	1.810	40.735
			20:COM7	28:COM15	28:COM15	-	20:COM7	28:COM15
			-89.842	-68.501	-0.855	-8.956	-1.735	-68.808
			30:COM1	22:COM9	22:COM9	22:COM9	30:COM1	22:COM9
	3950	-ve	100.118	51.204	0.625	0.000	0.790	207.755
			20:COM7	28:COM15	28:COM15	-	28:COM15	20:COM7
			-89.842	-77.963	-0.855	-8.956	-1.582	-164.374
			30:COM1	22:COM9	22:COM9	22:COM9	22:COM9	30:COM1
9703	4074	+ve	9.228	58.351	0.056	5.958	0.799	76.849
			20:COM7	20:COM7	28:COM15	20:COM7	20:COM7	16:COM3
			-5.596	-18.415	-0.576	0.000	-0.272	-46.829
			30:COM1	30:COM1	22:COM9	-	30:COM1	26:COM1
	4075	-ve	9.228	55.755	0.056	5.958	0.169	0.000
			20:COM7	20:COM7	28:COM15	20:COM7	28:COM15	-
			-5.596	-20.362	-0.576	0.000	-0.616	-31.002
			30:COM1	30:COM1	22:COM9	-	22:COM9	22:COM9

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
9704	4075	+ve	9.372	41.756	0.177	2.489	0.250	0.000
			16:COM3	16:COM3	28:COM15	16:COM3	28:COM15	-
			-6.925	-28.229	-0.308	-1.636	-0.284	-30.881
			26:COM13	26:COM13	22:COM9	26:COM13	22:COM9	22:COM9
	4289	-ve	9.372	39.188	0.177	2.489	0.142	42.382
			16:COM3	16:COM3	28:COM15	16:COM3	24:COM11	28:COM15
			-6.925	-30.155	-0.308	-1.636	-0.419	-104.261
			26:COM13	26:COM13	22:COM9	26:COM13	18:COM5	22:COM9
9705	4076	+ve	39.528	43.557	3.524	15.271	2.151	18.619
			28:COM15	20:COM7	28:COM15	28:COM15	20:COM7	28:COM15
			-63.643	-34.367	-5.430	-19.943	-1.320	-35.999
			22:COM9	30:COM17	22:COM9	22:COM9	30:COM17	22:COM9
	5715	-ve	39.528	42.426	3.524	15.271	3.032	14.362
			28:COM15	20:COM7	28:COM15	28:COM15	28:COM15	24:COM11
			-63.643	-35.215	-5.430	-19.943	-4.538	-41.799
			22:COM9	30:COM17	22:COM9	22:COM9	22:COM9	18:COM5
9706	4138	+ve	0.920	7.209	0.000	0.000	0.015	5.696
			20:COM7	35:CVOL4	-	-	20:COM7	35:CVOL4
			-3.766	0.000	-0.005	-0.104	0.000	0.000
			30:COM17	-	22:COM9	34:CVOL3	-	-
	4021	-ve	0.920	0.000	0.000	0.000	0.000	10.631
			20:COM7	-	-	-	28:COM15	34:CVOL3
			-3.766	-8.794	-0.005	-0.104	-0.016	0.000
			30:COM17	34:CVOL3	22:COM9	34:CVOL3	22:COM9	-
9707	4137	+ve	4.513	7.114	0.001	0.000	0.016	5.064
			20:COM7	35:CVOL4	28:COM15	-	20:COM7	35:CVOL4
			-4.889	0.000	-0.005	-0.103	-0.003	0.000
			30:COM17	-	22:COM9	18:COM5	30:COM17	-
	4022	-ve	4.513	0.000	0.001	0.000	0.003	10.586
			20:COM7	-	28:COM15	-	28:COM15	34:CVOL3
			-4.889	-8.878	-0.005	-0.103	-0.016	0.000
			30:COM17	34:CVOL3	22:COM9	18:COM5	22:COM9	-
9708	4136	+ve	6.573	7.179	0.003	0.005	0.014	5.018
			20:COM7	35:CVOL4	28:COM15	24:COM11	20:COM7	34:CVOL3
			-5.192	0.000	-0.005	-0.055	-0.009	0.000
			30:COM17	-	22:COM9	18:COM5	30:COM17	-
	4023	-ve	6.573	0.000	0.003	0.005	0.009	10.662
			20:COM7	-	28:COM15	24:COM11	28:COM15	20:COM7
			-5.192	-8.800	-0.005	-0.055	-0.015	0.000
			30:COM17	34:CVOL3	22:COM9	18:COM5	22:COM9	-
9709	4135	+ve	6.342	7.208	0.005	0.061	0.007	5.046
			20:COM7	35:CVOL4	20:COM7	16:COM3	28:COM15	34:CVOL3
			-4.726	0.000	-0.002	0.000	-0.014	0.000
			30:COM17	-	30:COM17	-	22:COM9	-
	4024	-ve	6.342	0.000	0.005	0.061	0.013	10.386
			20:COM7	-	20:COM7	16:COM3	20:COM7	20:COM7
			-4.726	-8.774	-0.002	0.000	-0.007	0.000
			30:COM17	34:CVOL3	30:COM17	-	30:COM17	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
9710	4134	+ve	4.583	7.209	0.006	0.102	0.002	5.204
			20:COM7	35:CVOL4	20:COM7	34:CVOL3	28:COM15	35:CVOL4
			-4.153	0.000	-0.001	0.000	-0.018	0.000
			30:COM17	-	30:COM17	-	22:COM9	-
	4025	-ve	4.583	0.000	0.006	0.102	0.017	10.122
			20:COM7	-	20:COM7	34:CVOL3	20:COM7	34:CVOL3
			-4.153	-8.777	-0.001	0.000	-0.002	0.000
			30:COM17	34:CVOL3	30:COM17	-	30:COM17	-
9711	4133	+ve	1.508	7.324	0.007	0.097	0.003	5.918
			16:COM3	35:CVOL4	20:COM7	34:CVOL3	28:COM15	35:CVOL4
			-3.753	0.000	-0.001	0.000	-0.020	0.000
			26:COM13	-	30:COM17	-	22:COM9	-
	4026	-ve	1.508	0.000	0.007	0.097	0.021	10.097
			16:COM3	-	20:COM7	34:CVOL3	20:COM7	34:CVOL3
			-3.753	-8.664	-0.001	0.000	-0.004	0.000
			26:COM13	34:CVOL3	30:COM17	-	30:COM17	-
9712	4144	+ve	4.513	7.544	0.003	0.000	0.020	6.340
			20:COM7	35:CVOL4	28:COM15	-	20:COM7	35:CVOL4
			-4.342	0.000	-0.006	-0.063	-0.009	0.000
			30:COM17	-	22:COM9	22:COM9	30:COM17	-
	4027	-ve	4.513	0.000	0.003	0.000	0.007	9.056
			20:COM7	-	28:COM15	-	28:COM15	34:CVOL3
			-4.342	-8.416	-0.006	-0.063	-0.018	0.000
			30:COM17	34:CVOL3	22:COM9	22:COM9	22:COM9	-
9713	4143	+ve	9.470	7.510	0.005	0.000	0.023	5.682
			20:COM7	35:CVOL4	28:COM15	-	20:COM7	34:CVOL3
			-4.836	0.000	-0.008	-0.080	-0.016	0.000
			30:COM17	-	22:COM9	22:COM9	30:COM17	-
	4028	-ve	9.470	0.000	0.005	0.000	0.014	9.536
			20:COM7	-	28:COM15	-	28:COM15	20:COM7
			-4.836	-8.444	-0.008	-0.080	-0.022	0.000
			30:COM17	34:CVOL3	22:COM9	22:COM9	22:COM9	-
9714	4142	+ve	12.996	7.589	0.005	0.019	0.018	5.601
			20:COM7	34:CVOL3	28:COM15	28:COM15	20:COM7	34:CVOL3
			-5.483	0.000	-0.006	-0.050	-0.016	0.000
			30:COM17	-	22:COM9	22:COM9	30:COM17	-
	4029	-ve	12.996	0.000	0.005	0.019	0.015	9.891
			20:COM7	-	28:COM15	28:COM15	28:COM15	20:COM7
			-5.483	-8.348	-0.006	-0.050	-0.018	-0.200
			30:COM17	35:CVOL4	22:COM9	22:COM9	22:COM9	30:COM17
9715	4141	+ve	12.698	7.546	0.005	0.059	0.008	5.536
			20:COM7	35:CVOL4	20:COM7	16:COM3	28:COM15	20:COM7
			-5.720	0.000	-0.003	-0.013	-0.015	0.000
			30:COM17	-	30:COM17	26:COM13	22:COM9	-
	4030	-ve	12.698	0.000	0.005	0.059	0.015	10.091
			20:COM7	-	20:COM7	16:COM3	20:COM7	20:COM7
			-5.720	-8.395	-0.003	-0.013	-0.008	-0.130
			30:COM17	34:CVOL3	30:COM17	26:COM13	30:COM17	30:COM17

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
9716	4140	+ve	9.529	7.436	0.006	0.096	0.005	5.494
			20:COM7	35:CVOL4	20:COM7	16:COM3	28:COM15	35:CVOL4
			-5.591	0.000	-0.002	0.000	-0.018	0.000
			30:COM17	-	30:COM17	-	22:COM9	-
	4031	-ve	9.529	0.000	0.006	0.096	0.019	10.040
			20:COM7	-	20:COM7	16:COM3	20:COM7	20:COM7
			-5.591	-8.532	-0.002	0.000	-0.006	0.000
			30:COM17	34:CVOL3	30:COM17	-	30:COM17	-
9717	4139	+ve	5.432	7.454	0.005	0.086	0.000	6.132
			20:COM7	35:CVOL4	20:COM7	16:COM3	-	35:CVOL4
			-5.606	0.000	0.000	0.000	-0.015	0.000
			30:COM17	-	-	-	22:COM9	-
	4032	-ve	5.432	0.000	0.005	0.086	0.017	9.552
			20:COM7	-	20:COM7	16:COM3	20:COM7	16:COM3
			-5.606	-8.519	0.000	0.000	-0.000	0.000
			30:COM17	34:CVOL3	-	-	30:COM17	-
9718	4038	+ve	5.376	10.364	0.003	0.041	0.010	15.299
			28:COM15	34:CVOL3	28:COM15	28:COM15	20:COM7	20:COM7
			-13.247	0.000	-0.003	-0.025	-0.010	-0.197
			22:COM9	-	22:COM9	22:COM9	30:COM17	30:COM17
	4109	-ve	5.376	0.000	0.003	0.041	0.011	9.883
			28:COM15	-	28:COM15	28:COM15	28:COM15	35:CVOL4
			-13.247	-9.518	-0.003	-0.025	-0.012	0.000
			22:COM9	35:CVOL4	22:COM9	22:COM9	22:COM9	-
9719	4039	+ve	10.029	10.245	0.004	0.009	0.028	13.929
			20:COM7	34:CVOL3	28:COM15	28:COM15	20:COM7	20:COM7
			-8.021	0.000	-0.008	-0.037	-0.012	-0.404
			30:COM17	-	22:COM9	22:COM9	30:COM17	30:COM17
	4108	-ve	10.029	0.000	0.004	0.009	0.012	9.336
			20:COM7	-	28:COM15	28:COM15	28:COM15	35:CVOL4
			-8.021	-9.611	-0.008	-0.037	-0.026	0.000
			30:COM17	35:CVOL4	22:COM9	22:COM9	22:COM9	-
9720	4040	+ve	11.970	10.224	0.003	0.008	0.025	13.210
			20:COM7	34:CVOL3	28:COM15	28:COM15	20:COM7	20:COM7
			-6.583	0.000	-0.007	-0.042	-0.009	-0.222
			30:COM17	-	22:COM9	22:COM9	30:COM17	30:COM17
	4107	-ve	11.970	0.000	0.003	0.008	0.009	9.011
			20:COM7	-	28:COM15	28:COM15	28:COM15	35:CVOL4
			-6.583	-9.620	-0.007	-0.042	-0.024	0.000
			30:COM17	35:CVOL4	22:COM9	22:COM9	22:COM9	-
9721	4041	+ve	10.794	10.132	0.003	0.018	0.022	12.310
			20:COM7	34:CVOL3	28:COM15	20:COM7	20:COM7	20:COM7
			-6.003	0.000	-0.007	-0.032	-0.010	0.000
			30:COM17	-	22:COM9	30:COM17	30:COM17	-
	4106	-ve	10.794	0.000	0.003	0.018	0.010	9.417
			20:COM7	-	28:COM15	20:COM7	28:COM15	35:CVOL4
			-6.003	-9.705	-0.007	-0.032	-0.022	0.000
			30:COM17	35:CVOL4	22:COM9	30:COM17	22:COM9	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
9722	4042	+ve	5.879	9.987	0.002	0.022	0.012	10.991
			20:COM7	34:CVOL3	28:COM15	20:COM7	20:COM7	34:CVOL3
			-5.836	0.000	-0.003	-0.020	-0.007	0.000
			30:COM17	-	22:COM9	30:COM17	30:COM17	-
	4105	-ve	5.879	0.000	0.002	0.022	0.007	10.407
			20:COM7	-	28:COM15	20:COM7	28:COM15	35:CVOL4
			-5.836	-9.834	-0.003	-0.020	-0.012	0.000
			30:COM17	35:CVOL4	22:COM9	30:COM17	22:COM9	-
9723	4033	+ve	3.666	10.135	0.003	0.001	0.023	11.779
			20:COM7	34:CVOL3	28:COM15	28:COM15	20:COM7	34:CVOL3
			-6.380	0.000	-0.006	-0.031	-0.011	0.000
			30:COM17	-	22:COM9	34:CVOL3	30:COM17	-
	4114	-ve	3.666	0.000	0.003	0.001	0.011	10.193
			20:COM7	-	28:COM15	28:COM15	28:COM15	35:CVOL4
			-6.380	-9.687	-0.006	-0.031	-0.021	0.000
			30:COM17	35:CVOL4	22:COM9	34:CVOL3	22:COM9	-
9724	4034	+ve	7.347	10.424	0.004	0.012	0.024	13.151
			20:COM7	34:CVOL3	28:COM15	24:COM17	20:COM7	20:COM7
			-6.875	0.000	-0.007	-0.030	-0.014	0.000
			30:COM17	-	22:COM9	18:COM5	30:COM17	-
	4113	-ve	7.347	0.000	0.004	0.012	0.014	8.940
			20:COM7	-	28:COM15	24:COM17	28:COM15	35:CVOL4
			-6.875	-9.423	-0.007	-0.030	-0.021	0.000
			30:COM17	35:CVOL4	22:COM9	18:COM5	22:COM9	-
9725	4035	+ve	8.636	10.577	0.005	0.021	0.027	14.106
			20:COM7	34:CVOL3	28:COM15	16:COM3	20:COM7	20:COM7
			-6.856	0.000	-0.008	-0.017	-0.018	0.000
			30:COM17	-	22:COM9	26:COM13	30:COM17	-
	4112	-ve	8.636	0.000	0.005	0.021	0.016	8.374
			20:COM7	-	28:COM15	16:COM3	28:COM15	35:CVOL4
			-6.856	-9.278	-0.008	-0.017	-0.025	0.000
			30:COM17	35:CVOL4	22:COM9	26:COM13	22:COM9	-
9726	4036	+ve	7.000	10.625	0.003	0.035	0.016	14.556
			20:COM7	34:CVOL3	28:COM15	20:COM7	20:COM7	20:COM7
			-7.649	0.000	-0.005	-0.012	-0.011	0.000
			30:COM17	-	22:COM9	30:COM17	30:COM17	-
	4111	-ve	7.000	0.000	0.003	0.035	0.011	8.526
			20:COM7	-	28:COM15	20:COM7	28:COM15	35:CVOL4
			-7.649	-9.230	-0.005	-0.012	-0.016	0.000
			30:COM17	35:CVOL4	22:COM9	30:COM17	22:COM9	-
9727	4037	+ve	2.385	10.376	0.003	0.036	0.003	12.898
			20:COM7	34:CVOL3	20:COM7	34:CVOL3	28:COM15	34:CVOL3
			-7.449	0.000	-0.001	0.000	-0.012	0.000
			30:COM17	-	30:COM17	-	22:COM9	-
	4110	-ve	2.385	0.000	0.003	0.036	0.010	9.713
			20:COM7	-	20:COM7	34:CVOL3	16:COM3	35:CVOL4
			-7.449	-9.457	-0.001	0.000	-0.003	0.000
			30:COM17	35:CVOL4	30:COM17	-	26:COM13	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
9728	4043	+ve	2.889	10.185	0.003	0.011	0.014	12.035
			20:COM7	34:CVOL3	28:COM15	28:COM15	20:COM7	34:CVOL3
			-6.186	0.000	-0.004	-0.034	-0.009	0.000
			30:COM17	-	22:COM9	22:COM9	30:COM17	-
	4119	-ve	2.889	0.000	0.003	0.011	0.008	10.119
			20:COM7	-	28:COM15	28:COM15	28:COM15	35:CVOL4
			-6.186	-9.643	-0.004	-0.034	-0.013	0.000
			30:COM17	35:CVOL4	22:COM9	22:COM9	22:COM9	-
9729	4044	+ve	8.421	10.316	0.003	0.014	0.011	12.185
			20:COM7	34:CVOL3	28:COM15	28:COM15	20:COM7	20:COM7
			-4.696	0.000	-0.003	-0.032	-0.009	0.000
			30:COM17	-	22:COM9	22:COM9	30:COM17	-
	4118	-ve	8.421	0.000	0.003	0.014	0.009	9.133
			20:COM7	-	28:COM15	28:COM15	28:COM15	35:CVOL4
			-4.696	-9.526	-0.003	-0.032	-0.009	0.000
			30:COM17	35:CVOL4	22:COM9	22:COM9	22:COM9	-
9730	4045	+ve	3.347	32.921	5.793	8.367	5.266	46.378
			28:COM15	20:COM7	24:COM11	24:COM11	16:COM3	20:COM7
			-13.109	0.000	-6.171	-8.733	-4.992	-8.445
			22:COM9	-	18:COM5	18:COM5	26:COM13	30:COM17
	6448	-ve	3.577	28.667	5.793	8.367	3.173	14.853
			28:COM15	20:COM7	24:COM11	24:COM11	24:COM11	28:COM15
			-12.653	0.000	-6.171	-8.733	-3.431	-39.363
			22:COM9	-	18:COM5	18:COM5	18:COM5	22:COM9
9731	4046	+ve	9.611	10.206	0.004	0.036	0.006	11.995
			20:COM7	34:CVOL3	20:COM7	20:COM7	28:COM15	20:COM7
			-4.083	0.000	-0.002	-0.019	-0.015	0.000
			30:COM17	-	30:COM17	30:COM17	22:COM9	-
	4116	-ve	9.611	0.000	0.004	0.036	0.013	9.335
			20:COM7	-	20:COM7	20:COM7	20:COM7	35:CVOL4
			-4.083	-9.637	-0.002	-0.019	-0.006	0.000
			30:COM17	35:CVOL4	30:COM17	30:COM17	30:COM17	-
9732	4047	+ve	4.247	10.046	0.006	0.037	0.011	11.345
			20:COM7	34:CVOL3	20:COM7	20:COM7	28:COM15	34:CVOL3
			-5.182	0.000	-0.003	-0.008	-0.022	0.000
			30:COM17	-	30:COM17	30:COM17	22:COM9	-
	4115	-ve	4.247	0.000	0.006	0.037	0.018	10.379
			20:COM7	-	20:COM7	20:COM7	20:COM7	35:CVOL4
			-5.182	-9.782	-0.003	-0.008	-0.010	0.000
			30:COM17	35:CVOL4	30:COM17	30:COM17	30:COM17	-
9733	4048	+ve	4.672	10.120	0.003	0.039	0.008	11.662
			20:COM7	34:CVOL3	20:COM7	28:COM15	28:COM15	34:CVOL3
			-6.563	0.000	-0.002	-0.036	-0.009	0.000
			30:COM17	-	30:COM17	22:COM9	22:COM9	-
	4124	-ve	4.672	0.000	0.003	0.039	0.009	10.227
			20:COM7	-	20:COM7	28:COM15	20:COM7	35:CVOL4
			-6.563	-9.723	-0.002	-0.036	-0.007	0.000
			30:COM17	35:CVOL4	30:COM17	22:COM9	30:COM17	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
9734	4049	+ve	9.746	10.259	0.005	0.051	0.010	12.050
			20:COM7	34:CVOL3	20:COM7	20:COM7	28:COM15	20:COM7
			-5.003	0.000	-0.003	-0.035	-0.016	0.000
			30:COM17	-	30:COM17	30:COM17	22:COM9	-
	4123	-ve	9.746	0.000	0.005	0.051	0.016	9.186
			20:COM7	-	20:COM7	20:COM7	20:COM7	35:CVOL4
			-5.003	-9.593	-0.003	-0.035	-0.009	0.000
			30:COM17	35:CVOL4	30:COM17	30:COM17	30:COM17	-
9735	4050	+ve	1.454	31.272	7.182	11.279	5.154	44.023
			28:COM15	20:COM7	16:COM3	16:COM3	24:COM11	20:COM7
			-13.690	0.000	-5.997	-8.839	-6.290	-12.636
			22:COM9	-	26:COM13	26:COM13	18:COM5	30:COM17
	6447	-ve	1.683	27.018	7.182	11.279	3.843	14.825
			28:COM15	20:COM7	16:COM3	16:COM3	16:COM3	28:COM15
			-13.234	0.000	-5.997	-8.839	-3.310	-42.616
			22:COM9	-	26:COM13	26:COM13	26:COM13	22:COM9
9736	4051	+ve	11.230	10.053	0.009	0.039	0.016	11.855
			20:COM7	34:CVOL3	20:COM7	20:COM7	28:COM15	20:COM7
			-4.526	0.000	-0.005	-0.009	-0.031	0.000
			30:COM17	-	30:COM17	30:COM17	22:COM9	-
	4121	-ve	11.230	0.000	0.009	0.039	0.029	9.649
			20:COM7	-	20:COM7	20:COM7	20:COM7	35:CVOL4
			-4.526	-9.786	-0.005	-0.009	-0.016	0.000
			30:COM17	35:CVOL4	30:COM17	30:COM17	30:COM17	-
9737	4052	+ve	6.125	10.054	0.005	0.010	0.014	13.358
			20:COM7	34:CVOL3	20:COM7	16:COM3	28:COM15	20:COM7
			-7.898	0.000	-0.004	-0.026	-0.017	-0.276
			30:COM17	-	30:COM17	26:COM13	22:COM9	30:COM17
	4120	-ve	6.125	0.000	0.005	0.010	0.015	10.473
			20:COM7	-	20:COM7	16:COM3	20:COM7	35:CVOL4
			-7.898	-9.811	-0.004	-0.026	-0.013	0.000
			30:COM17	35:CVOL4	30:COM17	26:COM13	30:COM17	-
9738	4130	+ve	1.205	7.683	0.007	0.271	0.001	8.405
			24:COM11	34:CVOL3	16:COM3	20:COM7	24:COM11	34:CVOL3
			-5.876	0.000	0.000	-0.053	-0.012	0.000
			18:COM5	-	-	30:COM17	18:COM5	-
	4053	-ve	1.205	0.000	0.007	0.271	0.027	6.924
			24:COM11	-	16:COM3	20:COM7	20:COM7	35:CVOL4
			-5.876	-7.152	0.000	-0.053	0.000	0.000
			18:COM5	35:CVOL4	-	30:COM17	-	-
9739	4129	+ve	0.944	6.488	0.014	0.419	0.016	5.503
			24:COM11	34:CVOL3	20:COM7	20:COM7	28:COM15	16:COM3
			-7.165	0.000	-0.005	-0.100	-0.038	0.000
			18:COM5	-	30:COM17	30:COM17	22:COM9	-
	3957	-ve	0.944	0.000	0.014	0.419	0.042	10.699
			24:COM11	-	20:COM7	20:COM7	20:COM7	16:COM3
			-7.165	-8.326	-0.005	-0.100	-0.013	0.000
			18:COM5	35:CVOL4	30:COM17	30:COM17	30:COM17	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
9740	4128	+ve	0.735	6.102	0.012	0.394	0.017	6.073
			24:COM1	20:COM7	20:COM7	20:COM7	28:COM1	20:COM7
			-8.545	0.000	-0.006	-0.184	-0.033	-3.761
			18:COM5	-	30:COM1	30:COM1	22:COM9	30:COM1
	4055	-ve	0.735	0.000	0.012	0.394	0.035	17.723
			24:COM1	-	20:COM7	20:COM7	20:COM7	20:COM7
			-8.545	-9.685	-0.006	-0.184	-0.016	-0.407
			18:COM5	22:COM9	30:COM1	30:COM1	30:COM1	30:COM1
9741	4127	+ve	0.423	6.445	0.006	0.023	0.040	7.273
			24:COM1	20:COM7	28:COM1	24:COM1	20:COM7	20:COM7
			-11.683	-1.056	-0.014	-0.141	-0.016	-6.492
			18:COM5	30:COM1	22:COM9	18:COM5	30:COM1	30:COM1
	4054	-ve	0.423	0.000	0.006	0.023	0.017	21.493
			24:COM1	-	28:COM1	24:COM1	28:COM1	20:COM7
			-11.683	-10.897	-0.014	-0.141	-0.041	-1.669
			18:COM5	22:COM9	22:COM9	18:COM5	22:COM9	30:COM1
9742	4126	+ve	0.000	6.464	0.010	0.137	0.063	7.436
			-	20:COM7	28:COM1	28:COM1	20:COM7	20:COM7
			-9.913	0.000	-0.022	-0.391	-0.029	-3.152
			18:COM5	-	22:COM9	22:COM9	30:COM1	30:COM1
	4057	-ve	0.000	0.000	0.010	0.137	0.029	16.633
			-	-	28:COM1	28:COM1	28:COM1	20:COM7
			-9.913	-9.288	-0.022	-0.391	-0.065	0.000
			18:COM5	22:COM9	22:COM9	22:COM9	22:COM9	-
9743	4125	+ve	0.000	7.277	0.007	0.126	0.044	7.581
			-	35:CVOL4	28:COM1	28:COM1	20:COM7	20:COM7
			-6.547	0.000	-0.015	-0.334	-0.020	0.000
			18:COM5	-	22:COM9	22:COM9	30:COM1	-
	4056	-ve	0.000	0.000	0.007	0.126	0.021	10.497
			-	-	28:COM1	28:COM1	28:COM1	20:COM7
			-6.547	-8.278	-0.015	-0.334	-0.046	0.000
			18:COM5	34:CVOL3	22:COM9	22:COM9	22:COM9	-
9744	4053	+ve	6.351	8.763	0.025	0.000	0.000	27.311
			24:COM1	34:CVOL3	20:COM7	-	28:COM1	20:COM7
			-12.057	0.000	0.000	-0.360	-0.065	-11.000
			18:COM5	-	-	18:COM5	22:COM9	30:COM1
	4177	-ve	6.351	0.000	0.025	0.000	0.055	11.721
			24:COM1	-	20:COM7	-	16:COM3	28:COM1
			-12.057	-3.665	0.000	-0.360	0.000	-13.492
			18:COM5	22:COM9	-	18:COM5	-	22:COM9
9748	4057	+ve	1.508	11.155	0.026	0.589	0.061	21.568
			28:COM1	34:CVOL3	28:COM1	16:COM3	20:COM7	16:COM3
			-1.954	0.000	-0.030	-0.245	-0.053	0.000
			22:COM9	-	22:COM9	26:COM1	30:COM1	-
	4182	-ve	1.508	1.135	0.026	0.589	0.062	4.456
			28:COM1	28:COM1	28:COM1	16:COM3	28:COM1	28:COM1
			-1.954	-1.898	-0.030	-0.245	-0.072	-11.136
			22:COM9	22:COM9	22:COM9	26:COM1	22:COM9	22:COM9

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
9749	4056	+ve	0.312	9.507	0.015	0.359	0.031	17.101
			28:COM15	16:COM3	20:COM7	16:COM3	28:COM15	20:COM7
			-1.474	0.000	-0.016	-0.160	-0.032	0.000
			22:COM9	-	30:COM17	26:COM13	22:COM9	-
	4181	-ve	0.312	0.953	0.015	0.359	0.035	9.011
			28:COM15	24:COM11	20:COM7	16:COM3	28:COM15	16:COM3
			-1.474	-4.308	-0.016	-0.160	-0.038	-8.732
			22:COM9	18:COM5	30:COM17	26:COM13	22:COM9	26:COM13
9750	4184	+ve	0.000	1.140	0.000	0.090	0.092	0.000
			-	35:CVOL4	-	28:COM15	34:CVOL3	-
			-8.911	-0.161	-0.060	-0.134	0.000	-1.109
			34:CVOL3	30:COM17	34:CVOL3	22:COM9	-	22:COM9
	4130	-ve	0.000	0.000	0.000	0.090	0.000	7.786
			-	-	-	28:COM15	-	34:CVOL3
			-8.911	-6.849	-0.060	-0.134	-0.092	0.000
			34:CVOL3	34:CVOL3	34:CVOL3	22:COM9	34:CVOL3	-
9751	4185	+ve	0.000	1.987	0.000	0.050	0.053	0.000
			-	34:CVOL3	-	28:COM15	20:COM7	-
			-4.039	0.000	-0.035	-0.092	0.000	-0.635
			22:COM9	-	22:COM9	22:COM9	-	18:COM5
	4129	-ve	0.000	0.000	0.000	0.050	0.000	5.744
			-	-	-	28:COM15	-	35:CVOL4
			-4.039	-6.011	-0.035	-0.092	-0.055	0.000
			22:COM9	35:CVOL4	22:COM9	22:COM9	22:COM9	-
9752	4186	+ve	0.889	2.645	0.001	0.012	0.031	0.086
			20:COM7	34:CVOL3	28:COM15	24:COM11	20:COM7	34:CVOL3
			-3.154	0.000	-0.019	-0.024	-0.002	-0.249
			30:COM17	-	22:COM9	18:COM5	30:COM17	33:CVOL2
	4128	-ve	0.889	0.000	0.001	0.012	0.002	4.286
			20:COM7	-	28:COM15	24:COM11	28:COM15	35:CVOL4
			-3.154	-5.376	-0.019	-0.024	-0.028	0.000
			30:COM17	35:CVOL4	22:COM9	18:COM5	22:COM9	-
9753	4187	+ve	2.752	2.726	0.021	0.095	0.048	0.327
			20:COM7	34:CVOL3	28:COM15	20:COM7	20:COM7	20:COM7
			-4.603	0.000	-0.031	-0.083	-0.031	-0.439
			30:COM17	-	22:COM9	30:COM17	30:COM17	30:COM17
	4127	-ve	2.752	0.000	0.021	0.095	0.032	5.082
			20:COM7	-	28:COM15	20:COM7	28:COM15	20:COM7
			-4.603	-5.319	-0.031	-0.083	-0.047	0.000
			30:COM17	35:CVOL4	22:COM9	30:COM17	22:COM9	-
9754	4188	+ve	2.137	2.548	0.030	0.155	0.048	0.388
			28:COM15	20:COM7	20:COM7	20:COM7	28:COM15	28:COM15
			-6.811	-0.273	-0.031	-0.124	-0.046	-0.933
			22:COM9	30:COM17	30:COM17	30:COM17	22:COM9	22:COM9
	4126	-ve	2.137	0.000	0.030	0.155	0.045	6.663
			28:COM15	-	20:COM7	20:COM7	20:COM7	20:COM7
			-6.811	-5.860	-0.031	-0.124	-0.046	0.000
			22:COM9	35:CVOL4	30:COM17	30:COM17	30:COM17	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
9755	4189	+ve	0.000	2.055	0.019	0.109	0.025	0.530
			-	20:COM7	20:COM7	20:COM7	28:COM15	28:COM15
			-9.699	-0.712	-0.015	-0.080	-0.030	-1.545
			22:COM9	30:COM17	30:COM17	30:COM17	22:COM9	22:COM9
	4125	-ve	0.000	0.000	0.019	0.109	0.027	8.370
			-	-	20:COM7	20:COM7	20:COM7	20:COM7
			-9.699	-6.623	-0.015	-0.080	-0.020	0.000
			22:COM9	35:CVOL4	30:COM17	30:COM17	30:COM17	-
9756	4028	+ve	6.629	12.345	0.019	0.566	0.040	13.594
			20:COM7	20:COM7	28:COM15	20:COM7	20:COM7	20:COM7
			-6.322	0.000	-0.020	-0.231	-0.039	-1.586
			30:COM17	-	22:COM9	30:COM17	30:COM17	30:COM17
	4173	-ve	6.629	3.592	0.019	0.566	0.041	10.982
			20:COM7	28:COM15	28:COM15	20:COM7	28:COM15	28:COM15
			-6.322	-3.382	-0.020	-0.231	-0.041	-29.391
			30:COM17	22:COM9	22:COM9	30:COM17	22:COM9	22:COM9
9757	4029	+ve	2.589	7.553	0.019	0.225	0.038	14.133
			20:COM7	20:COM7	28:COM15	16:COM3	20:COM7	20:COM7
			-2.417	0.000	-0.020	-0.198	-0.037	-10.408
			30:COM17	-	22:COM9	26:COM13	30:COM17	30:COM17
	4194	-ve	2.589	0.016	0.019	0.225	0.041	2.897
			20:COM7	28:COM15	28:COM15	16:COM3	28:COM15	28:COM15
			-2.417	-4.956	-0.020	-0.198	-0.043	-8.245
			30:COM17	22:COM9	22:COM9	26:COM13	22:COM9	22:COM9
9758	4030	+ve	3.651	8.045	0.011	0.091	0.017	15.319
			28:COM15	34:CVOL3	20:COM7	24:COM17	28:COM15	20:COM7
			-4.220	0.000	-0.008	-0.305	-0.023	-8.443
			22:COM9	-	30:COM17	18:COM5	22:COM9	30:COM17
	4195	-ve	3.651	0.000	0.011	0.091	0.022	4.247
			28:COM15	-	20:COM7	24:COM17	20:COM7	28:COM15
			-4.220	-3.444	-0.008	-0.305	-0.014	-12.648
			22:COM9	35:CVOL4	30:COM17	18:COM5	30:COM17	22:COM9
9759	4031	+ve	4.085	10.992	0.016	0.088	0.025	16.211
			28:COM15	20:COM7	20:COM7	28:COM15	28:COM15	20:COM7
			-6.419	0.000	-0.012	-0.426	-0.033	-2.207
			22:COM9	-	30:COM17	22:COM9	22:COM9	30:COM17
	4196	-ve	4.085	2.612	0.016	0.088	0.034	12.714
			28:COM15	28:COM15	20:COM7	28:COM15	20:COM7	28:COM15
			-6.419	-3.542	-0.012	-0.426	-0.025	-24.256
			22:COM9	22:COM9	30:COM17	22:COM9	30:COM17	22:COM9
9760	4032	+ve	2.078	10.256	0.020	0.157	0.021	20.337
			28:COM15	20:COM7	20:COM7	28:COM15	28:COM15	16:COM3
			-3.741	0.000	-0.012	-0.315	-0.038	-2.083
			22:COM9	-	30:COM17	22:COM9	22:COM9	26:COM13
	4197	-ve	2.078	1.792	0.020	0.157	0.044	15.089
			28:COM15	28:COM15	20:COM7	28:COM15	20:COM7	28:COM15
			-3.741	-3.750	-0.012	-0.315	-0.030	-18.089
			22:COM9	22:COM9	30:COM17	22:COM9	30:COM17	22:COM9

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
9761	4021	+ve	3.810	13.653	0.005	0.279	0.011	18.700
			28:COM15	20:COM7	20:COM7	28:COM15	28:COM15	16:COM3
			-4.415	0.000	-0.005	-0.490	-0.011	0.000
			22:COM9	-	30:COM17	22:COM9	22:COM9	-
	4172	-ve	3.810	4.362	0.005	0.279	0.011	12.727
			28:COM15	28:COM15	20:COM7	28:COM15	20:COM7	28:COM15
			-4.415	-3.280	-0.005	-0.490	-0.010	-22.445
			22:COM9	22:COM9	30:COM17	22:COM9	30:COM17	22:COM9
9762	4022	+ve	2.911	10.590	0.012	0.283	0.017	20.167
			20:COM7	34:CVOL3	20:COM7	20:COM7	28:COM15	20:COM7
			-2.550	0.000	-0.009	-0.242	-0.024	0.000
			30:COM17	-	30:COM17	30:COM17	22:COM9	-
	4171	-ve	2.911	0.984	0.012	0.283	0.028	4.066
			20:COM7	24:COM11	20:COM7	20:COM7	20:COM7	28:COM15
			-2.550	-1.036	-0.009	-0.242	-0.019	-13.393
			30:COM17	18:COM5	30:COM17	30:COM17	30:COM17	22:COM9
9763	4023	+ve	3.305	9.649	0.008	0.196	0.016	18.695
			20:COM7	34:CVOL3	28:COM15	16:COM3	20:COM7	20:COM7
			-2.690	0.000	-0.010	-0.098	-0.013	-2.306
			30:COM17	-	22:COM9	26:COM13	30:COM17	30:COM17
	4170	-ve	3.305	0.167	0.008	0.196	0.019	4.021
			20:COM7	32:CVOL1	28:COM15	16:COM3	28:COM15	28:COM15
			-2.690	-1.924	-0.010	-0.098	-0.024	-12.501
			30:COM17	35:CVOL4	22:COM9	26:COM13	22:COM9	22:COM9
9764	4027	+ve	0.145	8.006	0.013	0.644	0.033	16.478
			24:COM17	16:COM3	28:COM15	20:COM7	20:COM7	20:COM7
			-1.947	0.000	-0.016	-0.233	-0.024	-3.345
			18:COM5	-	22:COM9	30:COM17	30:COM17	30:COM17
	4174	-ve	0.145	0.000	0.013	0.644	0.028	7.110
			24:COM17	-	28:COM15	20:COM7	28:COM15	28:COM15
			-1.947	-3.872	-0.016	-0.233	-0.032	-7.267
			18:COM5	18:COM5	22:COM9	30:COM17	22:COM9	22:COM9
9765	4150	+ve	5.002	7.066	0.015	0.412	0.020	7.647
			16:COM3	34:CVOL3	20:COM7	16:COM3	28:COM15	16:COM3
			-6.664	0.000	-0.007	-0.175	-0.044	-1.183
			26:COM13	-	30:COM17	26:COM13	22:COM9	26:COM13
	4066	-ve	5.002	0.000	0.015	0.412	0.043	12.758
			16:COM3	-	20:COM7	16:COM3	20:COM7	16:COM3
			-6.664	-8.551	-0.007	-0.175	-0.019	-0.655
			26:COM13	35:CVOL4	30:COM17	26:COM13	30:COM17	26:COM13
9766	4149	+ve	8.883	7.181	0.014	0.300	0.015	7.689
			16:COM3	16:COM3	20:COM7	16:COM3	28:COM15	16:COM3
			-9.479	-0.371	-0.005	-0.060	-0.041	-5.713
			26:COM13	26:COM13	30:COM17	26:COM13	22:COM9	26:COM13
	4065	-ve	8.883	0.000	0.014	0.300	0.042	18.877
			16:COM3	-	20:COM7	16:COM3	20:COM7	16:COM3
			-9.479	-10.287	-0.005	-0.060	-0.016	-3.106
			26:COM13	18:COM5	30:COM17	26:COM13	30:COM17	26:COM13

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
9767	4148	+ve	9.249	5.934	0.011	0.201	0.021	4.395
			16:COM3	16:COM3	16:COM3	16:COM3	24:COM11	24:COM1
			-8.886	-0.259	-0.007	-0.136	-0.031	-5.287
			26:COM1	26:COM1	26:COM1	26:COM1	18:COM5	18:COM5
	4064	-ve	9.249	0.000	0.011	0.201	0.032	18.699
			16:COM3	-	16:COM3	16:COM3	16:COM3	16:COM3
			-8.886	-10.295	-0.007	-0.136	-0.022	-0.680
			26:COM1	18:COM5	26:COM1	26:COM1	26:COM1	26:COM1
9768	4147	+ve	8.399	4.937	0.012	0.131	0.046	1.934
			16:COM3	16:COM3	28:COM15	24:COM1	20:COM7	24:COM1
			-8.080	0.000	-0.017	-0.237	-0.032	-2.998
			26:COM1	-	22:COM9	18:COM5	30:COM1	18:COM5
	4068	-ve	8.399	0.000	0.012	0.131	0.035	15.983
			16:COM3	-	28:COM15	24:COM1	28:COM15	16:COM3
			-8.080	-10.033	-0.017	-0.237	-0.050	0.000
			26:COM1	35:CVOL4	22:COM9	18:COM5	22:COM9	-
9769	4146	+ve	4.858	5.433	0.008	0.062	0.051	1.832
			16:COM3	34:CVOL3	28:COM15	24:COM1	20:COM7	16:COM3
			-5.174	0.000	-0.018	-0.293	-0.023	-0.315
			26:COM1	-	22:COM9	18:COM5	30:COM1	26:COM1
	4067	-ve	4.858	0.000	0.008	0.062	0.025	12.468
			16:COM3	-	28:COM15	24:COM1	28:COM15	35:CVOL4
			-5.174	-9.342	-0.018	-0.293	-0.053	0.000
			26:COM1	35:CVOL4	22:COM9	18:COM5	22:COM9	-
9770	4145	+ve	0.000	6.525	0.004	0.022	0.046	4.564
			-	34:CVOL3	28:COM15	24:COM1	16:COM3	34:CVOL3
			-1.584	0.000	-0.016	-0.259	-0.013	0.000
			18:COM5	-	22:COM9	18:COM5	26:COM1	-
	3945	-ve	0.000	0.000	0.004	0.022	0.010	9.435
			-	-	28:COM15	24:COM1	28:COM15	35:CVOL4
			-1.584	-8.246	-0.016	-0.259	-0.044	0.000
			18:COM5	35:CVOL4	22:COM9	18:COM5	22:COM9	-
9771	4191	+ve	1.891	2.060	0.131	0.061	0.068	0.491
			16:COM3	16:COM3	20:COM7	20:COM7	28:COM15	16:COM3
			-0.909	-0.074	-0.120	-0.048	-0.077	-0.306
			26:COM1	26:COM1	30:COM1	30:COM1	22:COM9	26:COM1
	4147	-ve	1.891	0.000	0.131	0.061	0.087	0.571
			16:COM3	-	20:COM7	20:COM7	20:COM7	24:COM1
			-0.909	-1.764	-0.120	-0.048	-0.083	-0.420
			26:COM1	18:COM5	30:COM1	30:COM1	30:COM1	18:COM5
9772	4192	+ve	0.892	1.668	0.158	0.108	0.068	0.339
			24:COM1	16:COM3	20:COM7	16:COM3	28:COM15	16:COM3
			-2.185	-0.851	-0.115	-0.075	-0.099	-0.425
			18:COM5	26:COM1	30:COM1	26:COM1	22:COM9	26:COM1
	4146	-ve	0.892	0.000	0.158	0.108	0.099	1.677
			24:COM1	-	20:COM7	16:COM3	20:COM7	16:COM3
			-2.185	-2.956	-0.115	-0.075	-0.077	-0.338
			18:COM5	18:COM5	30:COM1	26:COM1	30:COM1	26:COM1

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
9773	4193	+ve	0.054	0.867	0.126	0.167	0.069	0.304
			24:COM1	24:COM11	20:COM7	16:COM3	28:COM15	24:COM1
			-4.901	-2.643	-0.106	-0.117	-0.085	-1.218
			18:COM5	18:COM5	30:COM1	26:COM13	22:COM9	18:COM5
	4145	-ve	0.054	0.000	0.126	0.167	0.073	3.760
			24:COM1	-	20:COM7	16:COM3	20:COM7	16:COM3
			-4.901	-5.309	-0.106	-0.117	-0.063	-0.005
			18:COM5	18:COM5	30:COM1	26:COM13	30:COM1	26:COM13
9774	4066	+ve	8.198	11.786	0.019	0.785	0.044	17.235
			28:COM15	20:COM7	28:COM15	16:COM3	20:COM7	16:COM3
			-12.157	-3.276	-0.024	-0.615	-0.036	-7.666
			22:COM9	30:COM1	22:COM9	26:COM13	30:COM1	26:COM13
	4016	-ve	8.198	4.023	0.019	0.785	0.045	33.142
			28:COM15	28:COM15	28:COM15	16:COM3	28:COM15	20:COM7
			-12.157	-10.193	-0.024	-0.615	-0.058	-28.549
			22:COM9	22:COM9	22:COM9	26:COM13	22:COM9	30:COM1
9780	3945	+ve	2.110	10.150	0.012	0.406	0.024	20.435
			24:COM1	35:CVOL4	20:COM7	20:COM7	28:COM15	20:COM7
			-2.526	0.000	-0.010	-0.284	-0.029	0.000
			18:COM5	-	30:COM1	30:COM1	22:COM9	-
	4267	-ve	2.110	0.000	0.012	0.406	0.036	1.253
			24:COM1	-	20:COM7	20:COM7	20:COM7	20:COM7
			-2.526	-3.864	-0.010	-0.284	-0.029	-0.158
			18:COM5	22:COM9	30:COM1	30:COM1	30:COM1	30:COM1
9781	4067	+ve	1.488	11.407	0.020	0.389	0.049	29.034
			28:COM15	20:COM7	20:COM7	28:COM15	28:COM15	20:COM7
			-2.147	0.000	-0.019	-0.486	-0.053	-1.709
			22:COM9	-	30:COM1	22:COM9	22:COM9	30:COM1
	5711	-ve	1.488	0.722	0.020	0.389	0.055	0.080
			28:COM15	28:COM15	20:COM7	28:COM15	20:COM7	28:COM15
			-2.147	-4.919	-0.019	-0.486	-0.053	-0.653
			22:COM9	22:COM9	30:COM1	22:COM9	30:COM1	22:COM9
9782	4061	+ve	13.251	7.068	0.064	0.215	0.197	12.564
			20:COM7	20:COM7	28:COM15	28:COM15	20:COM7	20:COM7
			-12.184	-1.025	-0.109	-0.531	-0.128	-10.927
			30:COM1	30:COM1	22:COM9	22:COM9	30:COM1	30:COM1
	5707	-ve	13.251	1.515	0.064	0.215	0.080	1.386
			20:COM7	28:COM15	28:COM15	28:COM15	28:COM15	20:COM7
			-12.184	-6.607	-0.109	-0.531	-0.156	-1.282
			30:COM1	22:COM9	22:COM9	22:COM9	22:COM9	30:COM1
9783	4064	+ve	13.892	8.542	0.024	0.512	0.025	26.700
			28:COM15	16:COM3	20:COM7	24:COM1	28:COM15	16:COM3
			-20.761	0.000	-0.014	-0.532	-0.044	-15.233
			22:COM9	-	30:COM1	18:COM5	22:COM9	26:COM13
	4076	-ve	13.892	0.707	0.024	0.512	0.061	19.256
			28:COM15	24:COM11	20:COM7	24:COM1	20:COM7	20:COM7
			-20.761	-6.412	-0.014	-0.532	-0.037	-15.040
			22:COM9	18:COM5	30:COM1	18:COM5	30:COM1	30:COM1

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
9784	4065	+ve	13.260	12.505	0.011	0.185	0.029	32.076
			28:COM15	16:COM3	28:COM15	24:COM11	20:COM7	16:COM3
			-18.527	-1.421	-0.011	-0.243	-0.028	-18.813
			22:COM9	26:COM13	22:COM9	18:COM5	30:COM17	26:COM13
	5716	-ve	13.260	3.357	0.011	0.185	0.024	9.976
			28:COM15	24:COM11	28:COM15	24:COM11	28:COM15	20:COM7
			-18.527	-9.152	-0.011	-0.243	-0.028	-9.641
			22:COM9	18:COM5	22:COM9	18:COM5	22:COM9	30:COM17
9786	4260	+ve	8.779	9.752	0.008	0.323	0.003	11.068
			20:COM7	35:CVOL4	20:COM7	20:COM7	24:COM11	20:COM7
			-8.284	0.000	-0.000	-0.090	-0.033	0.000
			30:COM17	-	30:COM17	30:COM17	18:COM5	-
	4254	-ve	8.779	0.000	0.008	0.323	0.025	11.427
			20:COM7	-	20:COM7	20:COM7	20:COM7	34:CVOL3
			-8.284	-10.079	-0.000	-0.090	-0.000	0.000
			30:COM17	34:CVOL3	30:COM17	30:COM17	30:COM17	-
9787	4169	+ve	0.000	7.804	0.004	0.023	0.015	7.563
			-	35:CVOL4	24:COM11	24:COM11	16:COM3	35:CVOL4
			-1.827	0.000	-0.005	-0.024	-0.015	0.000
			22:COM9	-	18:COM5	18:COM5	26:COM13	-
	4070	-ve	0.000	0.000	0.004	0.023	0.012	8.584
			-	-	24:COM11	24:COM11	24:COM11	34:CVOL3
			-1.827	-8.138	-0.005	-0.024	-0.013	0.000
			22:COM9	34:CVOL3	18:COM5	18:COM5	18:COM5	-
9788	5472	+ve	8.349	10.810	0.721	15.696	0.541	11.719
			28:COM15	16:COM3	16:COM3	16:COM3	24:COM11	16:COM3
			-22.317	-0.927	-0.515	-3.756	-0.714	-3.349
			22:COM9	26:COM13	26:COM13	26:COM13	18:COM5	26:COM13
	5513	-ve	8.349	5.686	0.721	15.696	0.699	2.694
			28:COM15	24:COM11	16:COM3	16:COM3	16:COM3	16:COM3
			-22.317	-5.108	-0.515	-3.756	-0.472	-4.525
			22:COM9	18:COM5	26:COM13	26:COM13	26:COM13	26:COM13
9789	4151	+ve	3.988	11.185	0.010	0.007	0.000	13.050
			20:COM7	34:CVOL3	16:COM3	24:COM11	-	34:CVOL3
			-0.429	0.000	0.000	-0.097	-0.044	0.000
			30:COM17	-	-	34:CVOL3	34:CVOL3	-
	4072	-ve	3.988	0.000	0.010	0.007	0.019	17.178
			20:COM7	-	16:COM3	24:COM11	16:COM3	20:COM7
			-0.429	-11.172	0.000	-0.097	-0.004	0.000
			30:COM17	35:CVOL4	-	34:CVOL3	26:COM13	-
9790	4152	+ve	2.638	8.116	0.005	0.000	0.000	8.879
			28:COM15	34:CVOL3	20:COM7	-	-	34:CVOL3
			-6.458	0.000	0.000	-0.067	-0.017	0.000
			22:COM9	-	-	34:CVOL3	18:COM5	-
	4073	-ve	2.638	0.000	0.005	0.000	0.015	8.180
			28:COM15	-	20:COM7	-	20:COM7	20:COM7
			-6.458	-7.872	0.000	-0.067	-0.002	0.000
			22:COM9	35:CVOL4	-	34:CVOL3	30:COM17	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
9791	4190	+ve	0.000	1.429	0.000	0.014	0.062	0.000
			-	16:COM3	-	24:COM1	16:COM3	-
			-3.447	-0.434	-0.040	-0.303	0.000	-2.408
			18:COM5	26:COM1	18:COM5	18:COM5	-	18:COM5
	4132	-ve	0.000	0.000	0.000	0.014	0.000	6.896
			-	-	-	24:COM1	-	34:CVOL
			-3.447	-6.779	-0.040	-0.303	-0.061	0.000
			18:COM5	34:CVOL	18:COM5	18:COM5	18:COM5	-
9792	4132	+ve	0.000	7.636	0.005	0.158	0.014	7.777
			-	35:CVOL	28:COM1	20:COM7	20:COM7	35:CVOL
			-4.925	0.000	-0.005	-0.130	-0.014	0.000
			22:COM9	-	22:COM9	30:COM1	30:COM1	-
	4074	-ve	0.000	0.000	0.005	0.158	0.017	9.434
			-	-	28:COM1	20:COM7	24:COM1	34:CVOL
			-4.925	-8.162	-0.005	-0.130	-0.016	0.000
			22:COM9	34:CVOL	22:COM9	30:COM1	18:COM5	-
9793	4131	+ve	0.000	7.194	0.009	0.230	0.016	6.794
			-	35:CVOL	20:COM7	20:COM7	28:COM1	16:COM3
			-7.148	0.000	-0.006	-0.122	-0.027	0.000
			22:COM9	-	30:COM1	30:COM1	22:COM9	-
	4075	-ve	0.000	0.000	0.009	0.230	0.029	10.902
			-	-	20:COM7	20:COM7	20:COM7	16:COM3
			-7.148	-8.379	-0.006	-0.122	-0.018	0.000
			22:COM9	34:CVOL	30:COM1	30:COM1	30:COM1	-
9795	4074	+ve	1.117	10.381	0.007	0.050	0.011	14.020
			28:COM1	20:COM7	24:COM1	28:COM1	20:COM7	16:COM3
			-2.465	0.000	-0.007	-0.210	-0.011	0.000
			22:COM9	-	18:COM5	22:COM9	30:COM1	-
	4180	-ve	1.117	2.256	0.007	0.050	0.018	15.688
			28:COM1	28:COM1	24:COM1	28:COM1	24:COM1	20:COM7
			-2.465	-5.768	-0.007	-0.210	-0.017	-12.420
			22:COM9	22:COM9	18:COM5	22:COM9	18:COM5	30:COM1
9796	4075	+ve	1.634	9.546	0.013	0.132	0.024	15.849
			28:COM1	16:COM3	28:COM1	28:COM1	20:COM7	20:COM7
			-2.268	0.000	-0.013	-0.346	-0.025	0.000
			22:COM9	-	22:COM9	22:COM9	30:COM1	-
	4179	-ve	1.634	1.267	0.013	0.132	0.030	12.172
			28:COM1	24:COM1	28:COM1	28:COM1	28:COM1	20:COM7
			-2.268	-3.954	-0.013	-0.346	-0.029	-11.123
			22:COM9	18:COM5	22:COM9	22:COM9	22:COM9	30:COM1
9797	4077	+ve	6.464	0.000	0.104	0.451	0.025	21.210
			20:COM7	-	16:COM3	20:COM7	24:COM1	34:CVOL
			-6.416	-8.042	-0.029	-0.162	-0.105	0.000
			30:COM1	34:CVOL	26:COM1	30:COM1	18:COM5	-
	3992	-ve	6.464	0.000	0.104	0.451	0.123	40.618
			20:COM7	-	16:COM3	20:COM7	16:COM3	34:CVOL
			-6.416	-9.873	-0.029	-0.162	-0.042	0.000
			30:COM1	34:CVOL	26:COM1	30:COM1	26:COM1	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
9798	4078	+ve	8.134	8.404	0.051	0.000	0.044	17.584
			16:COM3	16:COM3	16:COM3	-	24:COM11	16:COM3
			-5.587	0.000	-0.061	-0.932	-0.053	-3.446
			26:COM13	-	26:COM13	34:CVOL3	18:COM5	26:COM13
	4079	-ve	8.134	6.755	0.051	0.000	0.051	4.003
			16:COM3	16:COM3	16:COM3	-	24:COM11	24:COM11
			-5.587	0.000	-0.061	-0.932	-0.081	-7.571
			26:COM13	-	26:COM13	34:CVOL3	18:COM5	18:COM5
9799	4079	+ve	6.928	5.500	0.033	0.144	0.037	3.892
			16:COM3	16:COM3	28:COM15	24:COM11	20:COM7	24:COM11
			-6.364	0.000	-0.054	-0.486	-0.029	-7.649
			26:COM13	-	22:COM9	18:COM5	30:COM17	18:COM5
	4080	-ve	6.928	3.852	0.033	0.144	0.038	0.000
			16:COM3	16:COM3	28:COM15	24:COM11	28:COM15	-
			-6.364	-1.196	-0.054	-0.486	-0.070	-9.324
			26:COM13	26:COM13	22:COM9	18:COM5	22:COM9	35:CVOL4
9800	4080	+ve	5.203	1.989	0.022	0.549	0.058	0.000
			24:COM11	24:COM11	28:COM15	16:COM3	20:COM7	-
			-7.531	-1.929	-0.067	-0.059	-0.018	-9.307
			18:COM5	18:COM5	22:COM9	26:COM13	30:COM17	35:CVOL4
	4081	-ve	5.203	0.752	0.022	0.549	0.027	0.000
			24:COM11	24:COM11	28:COM15	16:COM3	24:COM11	-
			-7.531	-3.577	-0.067	-0.059	-0.076	-8.351
			18:COM5	18:COM5	22:COM9	26:COM13	18:COM5	18:COM5
9801	4081	+ve	4.302	0.000	0.039	0.935	0.057	0.000
			24:COM11	-	24:COM11	34:CVOL3	16:COM3	-
			-9.448	-4.287	-0.065	0.000	-0.029	-8.234
			18:COM5	18:COM5	18:COM5	-	26:COM13	18:COM5
	4082	-ve	4.302	0.000	0.039	0.935	0.048	6.764
			24:COM11	-	24:COM11	34:CVOL3	24:COM11	16:COM3
			-9.448	-5.935	-0.065	0.000	-0.070	-3.657
			18:COM5	18:COM5	18:COM5	-	18:COM5	26:COM13
9802	4082	+ve	3.005	0.000	0.152	1.204	0.001	6.926
			28:COM15	-	16:COM3	16:COM3	24:COM11	16:COM3
			-12.987	-6.119	-0.004	-0.012	-0.135	-3.533
			22:COM9	35:CVOL4	26:COM13	26:COM13	18:COM5	26:COM13
	3993	-ve	3.005	0.000	0.152	1.204	0.164	18.994
			28:COM15	-	16:COM3	16:COM3	16:COM3	16:COM3
			-12.987	-7.767	-0.004	-0.012	-0.008	0.000
			22:COM9	35:CVOL4	26:COM13	26:COM13	26:COM13	-
9803	4083	+ve	7.083	6.006	0.048	0.000	0.059	7.086
			28:COM15	16:COM3	20:COM7	-	28:COM15	16:COM3
			-16.754	0.000	-0.062	-0.796	-0.045	-2.266
			22:COM9	-	30:COM17	35:CVOL4	22:COM9	26:COM13
	4084	-ve	7.083	4.357	0.048	0.000	0.050	0.000
			28:COM15	16:COM3	20:COM7	-	16:COM3	-
			-16.754	0.000	-0.062	-0.796	-0.065	-8.089
			22:COM9	-	30:COM17	35:CVOL4	26:COM13	18:COM5

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
9804	4084	+ve	9.447	3.790	0.055	0.104	0.073	0.000
			28:COM15	16:COM3	28:COM15	24:COM11	20:COM7	-
			-19.366	0.000	-0.074	-0.508	-0.057	-8.180
			22:COM9	-	22:COM9	18:COM5	30:COM17	18:COM5
	4085	-ve	9.447	2.142	0.055	0.104	0.051	0.000
			28:COM15	16:COM3	28:COM15	24:COM11	28:COM15	-
			-19.366	-1.096	-0.074	-0.508	-0.073	-10.386
			22:COM9	26:COM13	22:COM9	18:COM5	22:COM9	34:CVOL3
9805	4085	+ve	11.056	1.043	0.039	0.464	0.093	0.000
			28:COM15	24:COM11	28:COM15	16:COM3	20:COM7	-
			-21.490	-2.242	-0.083	-0.134	-0.051	-10.394
			22:COM9	18:COM5	22:COM9	26:COM13	30:COM17	34:CVOL3
	4086	-ve	11.056	0.000	0.039	0.464	0.028	0.000
			28:COM15	-	28:COM15	16:COM3	24:COM11	-
			-21.490	-3.890	-0.083	-0.134	-0.070	-8.375
			22:COM9	18:COM5	22:COM9	26:COM13	18:COM5	18:COM5
9806	4086	+ve	11.899	0.000	0.036	0.810	0.062	0.029
			28:COM15	-	24:COM11	35:CVOL4	16:COM3	24:COM11
			-23.176	-4.646	-0.053	0.000	-0.038	-8.294
			22:COM9	18:COM5	18:COM5	-	26:COM13	18:COM5
	4087	-ve	11.899	0.000	0.036	0.810	0.036	8.138
			28:COM15	-	24:COM11	35:CVOL4	24:COM11	16:COM3
			-23.176	-6.294	-0.053	0.000	-0.045	-2.298
			22:COM9	18:COM5	18:COM5	-	18:COM5	26:COM13
9807	4087	+ve	11.432	0.000	0.148	1.092	0.000	8.284
			28:COM15	-	16:COM3	16:COM3	-	16:COM3
			-27.107	-6.821	0.000	-0.009	-0.137	-2.202
			22:COM9	34:CVOL3	-	26:COM13	18:COM5	26:COM13
	3994	-ve	11.432	0.000	0.148	1.092	0.152	21.135
			28:COM15	-	16:COM3	16:COM3	16:COM3	16:COM3
			-27.107	-8.469	0.000	-0.009	0.000	0.000
			22:COM9	34:CVOL3	-	26:COM13	-	-
9808	4088	+ve	14.231	7.284	0.053	0.000	0.052	7.531
			28:COM15	34:CVOL3	20:COM7	-	28:COM15	16:COM3
			-25.802	0.000	-0.040	-1.069	-0.057	-2.350
			22:COM9	-	30:COM17	35:CVOL4	22:COM9	26:COM13
	4089	-ve	14.231	5.635	0.053	0.000	0.048	0.000
			28:COM15	34:CVOL3	20:COM7	-	20:COM7	-
			-25.802	0.000	-0.040	-1.069	-0.028	-10.324
			22:COM9	-	30:COM17	35:CVOL4	30:COM17	18:COM5
9809	4089	+ve	15.639	4.242	0.048	0.000	0.027	0.000
			28:COM15	16:COM3	16:COM3	-	28:COM15	-
			-25.019	0.000	-0.015	-0.651	-0.060	-10.485
			22:COM9	-	26:COM13	18:COM5	22:COM9	18:COM5
	4090	-ve	15.639	2.594	0.048	0.000	0.045	0.000
			28:COM15	16:COM3	16:COM3	-	16:COM3	-
			-25.019	-0.637	-0.015	-0.651	-0.014	-13.945
			22:COM9	26:COM13	26:COM13	18:COM5	26:COM13	35:CVOL4

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
9810	4090	+ve	15.077	0.667	0.024	0.637	0.031	0.000
			28:COM1	24:COM1	24:COM1	16:COM3	20:COM7	-
			-23.718	-2.660	-0.027	0.000	-0.031	-13.953
			22:COM9	18:COM5	18:COM5	-	30:COM1	35:CVOL
	4091	-ve	15.077	0.000	0.024	0.637	0.032	0.000
			28:COM1	-	24:COM1	16:COM3	28:COM1	-
			-23.718	-4.308	-0.027	0.000	-0.038	-9.871
			22:COM9	18:COM5	18:COM5	-	22:COM9	18:COM5
9811	4091	+ve	12.502	0.000	0.030	1.061	0.040	0.000
			28:COM1	-	28:COM1	35:CVOL	16:COM3	-
			-21.589	-5.743	-0.042	0.000	-0.028	-9.729
			22:COM9	18:COM5	22:COM9	-	26:COM1	18:COM5
	4092	-ve	12.502	0.000	0.030	1.061	0.037	7.285
			28:COM1	-	28:COM1	35:CVOL	28:COM1	16:COM3
			-21.589	-7.391	-0.042	0.000	-0.047	-1.770
			22:COM9	18:COM5	22:COM9	-	22:COM9	26:COM1
9812	4092	+ve	10.064	0.000	0.147	1.209	0.000	7.500
			28:COM1	-	16:COM3	16:COM3	-	16:COM3
			-21.383	-7.815	0.000	0.000	-0.135	-1.627
			22:COM9	35:CVOL	-	-	18:COM5	26:COM1
	3995	-ve	10.064	0.000	0.147	1.209	0.153	22.258
			28:COM1	-	16:COM3	16:COM3	16:COM3	16:COM3
			-21.383	-9.463	0.000	0.000	0.000	0.000
			22:COM9	35:CVOL	-	-	-	-
9813	4093	+ve	10.442	7.461	0.063	0.000	0.039	8.750
			28:COM1	16:COM3	16:COM3	-	24:COM1	16:COM3
			-15.745	0.000	-0.029	-1.235	-0.068	-2.388
			22:COM9	-	26:COM1	34:CVOL	18:COM5	26:COM1
	4094	-ve	10.442	5.813	0.063	0.000	0.057	0.000
			28:COM1	16:COM3	16:COM3	-	20:COM7	-
			-15.745	0.000	-0.029	-1.235	-0.019	-9.354
			22:COM9	-	26:COM1	34:CVOL	30:COM1	18:COM5
9814	4094	+ve	10.972	4.567	0.077	0.000	0.025	0.000
			28:COM1	16:COM3	20:COM7	-	28:COM1	-
			-13.353	-0.012	-0.022	-0.772	-0.085	-9.546
			22:COM9	26:COM1	30:COM1	18:COM5	22:COM9	18:COM5
	4095	-ve	10.972	2.918	0.077	0.000	0.079	0.000
			28:COM1	16:COM3	20:COM7	-	20:COM7	-
			-13.353	-1.249	-0.022	-0.772	-0.032	-12.920
			22:COM9	26:COM1	30:COM1	18:COM5	30:COM1	35:CVOL
9815	4095	+ve	9.317	1.268	0.065	0.611	0.038	0.000
			28:COM1	24:COM1	28:COM1	16:COM3	28:COM1	-
			-10.146	-3.940	-0.044	-0.039	-0.067	-12.954
			22:COM9	18:COM5	22:COM9	26:COM1	22:COM9	35:CVOL
	4096	-ve	9.317	0.032	0.065	0.611	0.067	1.674
			28:COM1	24:COM1	28:COM1	16:COM3	28:COM1	24:COM1
			-10.146	-5.589	-0.044	-0.039	-0.055	-10.584
			22:COM9	18:COM5	22:COM9	26:COM1	22:COM9	18:COM5

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
9816	4096	+ve	4.855	0.000	0.052	1.184	0.055	1.842
			24:COM1	-	24:COM1	16:COM3	20:COM7	24:COM1
			-5.565	-7.705	-0.054	0.000	-0.065	-10.459
			18:COM5	18:COM5	18:COM5	-	30:COM1	18:COM5
	4097	-ve	4.855	0.000	0.052	1.184	0.041	16.058
			24:COM1	-	24:COM1	16:COM3	24:COM1	16:COM3
			-5.565	-9.353	-0.054	0.000	-0.053	-4.810
			18:COM5	18:COM5	18:COM5	-	18:COM5	26:COM1
9817	4097	+ve	3.060	0.000	0.153	1.404	0.014	16.355
			24:COM1	-	16:COM3	34:CVOL	24:COM1	16:COM3
			-5.528	-9.600	-0.022	0.000	-0.145	-4.688
			18:COM5	34:CVOL	26:COM1	-	18:COM5	26:COM1
	3996	-ve	3.060	0.000	0.153	1.404	0.163	36.491
			24:COM1	-	16:COM3	34:CVOL	20:COM7	16:COM3
			-5.528	-11.249	-0.022	0.000	-0.039	0.000
			18:COM5	34:CVOL	26:COM1	-	30:COM1	-
9818	4098	+ve	1.684	7.935	0.078	0.143	0.029	22.245
			28:COM1	34:CVOL	16:COM3	28:COM1	24:COM1	34:CVOL
			-2.547	0.000	-0.026	-0.473	-0.080	0.000
			22:COM9	-	26:COM1	22:COM9	18:COM5	-
	4099	-ve	1.684	6.193	0.078	0.143	0.080	7.693
			28:COM1	34:CVOL	16:COM3	28:COM1	16:COM3	34:CVOL
			-2.547	0.000	-0.026	-0.473	-0.025	0.000
			22:COM9	-	26:COM1	22:COM9	26:COM1	-
9819	4100	+ve	12.024	1.357	0.860	4.034	1.936	22.012
			24:COM1	28:COM1	28:COM1	28:COM1	20:COM7	16:COM3
			-19.688	-31.067	-1.993	-4.779	-0.679	-2.213
			18:COM5	22:COM9	22:COM9	22:COM9	30:COM1	26:COM1
	4015	-ve	12.024	0.345	0.860	4.034	1.019	72.539
			24:COM1	28:COM1	28:COM1	28:COM1	28:COM1	20:COM7
			-19.688	-32.416	-1.993	-4.779	-1.971	0.000
			18:COM5	22:COM9	22:COM9	22:COM9	22:COM9	-
9820	4101	+ve	11.367	0.000	11.018	6.935	4.850	0.000
			28:COM1	-	28:COM1	28:COM1	20:COM7	-
			-16.145	-12.608	-12.220	-18.592	-3.786	-25.801
			22:COM9	18:COM5	22:COM9	22:COM9	30:COM1	22:COM9
	5856	-ve	11.367	0.000	11.018	6.935	5.941	4.947
			28:COM1	-	28:COM1	28:COM1	28:COM1	28:COM1
			-16.145	-13.217	-12.220	-18.592	-5.934	-17.985
			22:COM9	18:COM5	22:COM9	22:COM9	22:COM9	22:COM9
9821	4102	+ve	11.064	6.349	13.659	10.007	1.422	0.000
			28:COM1	28:COM1	28:COM1	28:COM1	20:COM7	-
			-14.881	-4.462	-17.693	-32.934	-0.180	-36.486
			22:COM9	22:COM9	22:COM9	22:COM9	30:COM1	22:COM9
	5858	-ve	11.064	6.275	13.659	10.007	2.060	0.000
			28:COM1	28:COM1	28:COM1	28:COM1	20:COM7	-
			-14.881	-4.561	-17.693	-32.934	-1.392	-37.281
			22:COM9	22:COM9	22:COM9	22:COM9	30:COM1	22:COM9

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
9822	4103	+ve	9.915	9.810	1.386	2.971	1.327	0.000
			28:COM15	16:COM3	20:COM7	20:COM7	28:COM15	-
			-13.301	0.000	-1.055	-1.279	-1.748	-24.767
			22:COM9	-	30:COM17	30:COM17	22:COM9	18:COM5
	4102	-ve	9.915	8.461	1.386	2.971	0.971	0.000
			28:COM15	16:COM3	20:COM7	20:COM7	20:COM7	-
			-13.301	-0.039	-1.055	-1.279	-0.747	-36.443
			22:COM9	26:COM13	30:COM17	30:COM17	30:COM17	22:COM9
9823	4104	+ve	7.708	23.151	6.065	5.098	3.385	20.136
			28:COM15	20:COM7	20:COM7	28:COM15	28:COM15	16:COM3
			-11.899	0.000	-5.453	-12.337	-4.070	-5.617
			22:COM9	-	30:COM17	22:COM9	22:COM9	26:COM13
	5859	-ve	7.708	22.214	6.065	5.098	4.156	0.000
			28:COM15	20:COM7	20:COM7	28:COM15	20:COM7	-
			-11.899	0.000	-5.453	-12.337	-4.012	-22.207
			22:COM9	-	30:COM17	22:COM9	30:COM17	18:COM5
9824	4104	+ve	7.794	5.290	0.696	0.259	0.268	12.182
			28:COM15	28:COM15	28:COM15	28:COM15	20:COM7	20:COM7
			-58.285	-6.696	-0.706	-0.351	-0.299	-3.316
			22:COM9	22:COM9	22:COM9	22:COM9	30:COM17	30:COM17
	4043	-ve	7.794	4.541	0.696	0.259	0.223	10.319
			28:COM15	28:COM15	28:COM15	28:COM15	28:COM15	20:COM7
			-58.285	-8.445	-0.706	-0.351	-0.261	0.000
			22:COM9	22:COM9	22:COM9	22:COM9	22:COM9	-
9825	4103	+ve	12.226	2.680	0.541	0.044	0.409	13.506
			28:COM15	16:COM3	28:COM15	28:COM15	20:COM7	20:COM7
			-66.130	0.000	-0.930	-0.293	-0.281	-2.193
			22:COM9	-	22:COM9	22:COM9	30:COM17	30:COM17
	4044	-ve	12.226	0.931	0.541	0.044	0.126	12.853
			28:COM15	16:COM3	28:COM15	28:COM15	28:COM15	20:COM7
			-66.130	-0.307	-0.930	-0.293	-0.290	-2.944
			22:COM9	26:COM13	22:COM9	22:COM9	22:COM9	30:COM17
9826	4102	+ve	22.782	8.277	0.000	0.012	0.112	18.897
			28:COM15	20:COM7	-	28:COM15	20:COM7	20:COM7
			-87.162	-1.743	-0.246	-0.114	-0.006	-3.935
			22:COM9	30:COM17	22:COM9	22:COM9	30:COM17	30:COM17
	4045	-ve	22.782	6.528	0.000	0.012	0.000	18.857
			28:COM15	20:COM7	-	28:COM15	-	20:COM7
			-87.162	-2.493	-0.246	-0.114	-0.076	-7.859
			22:COM9	30:COM17	22:COM9	22:COM9	22:COM9	30:COM17
9827	4101	+ve	24.378	2.844	0.783	0.215	0.361	13.294
			28:COM15	35:CVOL4	20:COM7	20:COM7	28:COM15	20:COM7
			-64.852	0.000	-0.723	-0.090	-0.346	-4.626
			22:COM9	-	30:COM17	30:COM17	22:COM9	30:COM17
	4046	-ve	24.378	0.999	0.783	0.215	0.242	12.267
			28:COM15	20:COM7	20:COM7	20:COM7	20:COM7	20:COM7
			-64.852	-0.039	-0.723	-0.090	-0.181	-5.256
			22:COM9	30:COM17	30:COM17	30:COM17	30:COM17	30:COM17

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
9828	4100	+ve	15.062	6.351	0.777	0.437	0.301	10.623
			28:COM15	28:COM15	20:COM7	20:COM7	28:COM15	20:COM7
			-45.489	-7.801	-0.720	-0.309	-0.290	-5.710
			22:COM9	22:COM9	30:COM17	30:COM17	22:COM9	30:COM17
	4047	-ve	15.062	5.602	0.777	0.437	0.293	7.878
			28:COM15	28:COM15	20:COM7	20:COM7	20:COM7	20:COM7
			-45.489	-9.550	-0.720	-0.309	-0.239	-0.940
			22:COM9	22:COM9	30:COM17	30:COM17	30:COM17	30:COM17
9829	4105	+ve	11.211	0.000	3.127	9.295	0.530	33.685
			28:COM15	-	16:COM3	34:CVOL3	24:COM11	16:COM3
			-31.563	-42.202	-1.325	0.000	-2.357	-22.689
			22:COM9	18:COM5	26:COM13	-	18:COM5	26:COM13
	3960	-ve	11.211	0.000	3.127	9.295	3.813	118.107
			28:COM15	-	16:COM3	34:CVOL3	16:COM3	16:COM3
			-31.563	-44.451	-1.325	0.000	-2.127	-6.023
			22:COM9	18:COM5	26:COM13	-	26:COM13	26:COM13
9830	4106	+ve	7.722	0.000	1.380	6.449	0.178	0.000
			28:COM15	-	20:COM7	34:CVOL3	28:COM15	-
			-25.567	-25.976	-0.351	0.000	-1.044	-42.162
			22:COM9	18:COM5	30:COM17	-	22:COM9	18:COM5
	4105	-ve	7.722	0.000	1.380	6.449	1.661	33.846
			28:COM15	-	20:COM7	34:CVOL3	20:COM7	16:COM3
			-25.567	-28.225	-0.351	0.000	-0.521	-22.559
			22:COM9	18:COM5	30:COM17	-	30:COM17	26:COM13
9831	4107	+ve	5.979	5.354	0.445	2.923	0.202	0.000
			28:COM15	24:COM11	20:COM7	16:COM3	28:COM15	-
			-21.355	-11.166	-0.136	0.000	-0.571	-50.250
			22:COM9	18:COM5	30:COM17	-	22:COM9	35:CVOL4
	4106	-ve	5.979	3.667	0.445	2.923	0.403	0.000
			28:COM15	24:COM11	20:COM7	16:COM3	16:COM3	-
			-21.355	-13.415	-0.136	0.000	-0.168	-42.048
			22:COM9	18:COM5	30:COM17	-	26:COM13	18:COM5
9832	4108	+ve	3.287	16.480	0.337	0.467	0.102	4.341
			28:COM15	16:COM3	20:COM7	24:COM11	28:COM15	24:COM11
			-16.168	-1.917	-0.142	-2.740	-0.399	-40.027
			22:COM9	26:COM13	30:COM17	18:COM5	22:COM9	18:COM5
	4107	-ve	3.287	14.232	0.337	0.467	0.380	0.000
			28:COM15	16:COM3	20:COM7	24:COM11	16:COM3	-
			-16.168	-3.603	-0.142	-2.740	-0.295	-50.256
			22:COM9	26:COM13	30:COM17	18:COM5	26:COM13	35:CVOL4
9833	4109	+ve	1.885	31.079	1.165	0.000	1.271	49.263
			28:COM15	16:COM3	24:COM11	-	24:COM11	16:COM3
			-14.923	0.000	-1.464	-6.600	-1.280	-19.958
			22:COM9	-	18:COM5	34:CVOL3	18:COM5	26:COM13
	4108	-ve	1.885	28.830	1.165	0.000	1.047	4.228
			28:COM15	16:COM3	24:COM11	-	24:COM11	24:COM11
			-14.923	0.000	-1.464	-6.600	-1.639	-40.131
			22:COM9	-	18:COM5	34:CVOL3	18:COM5	18:COM5

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
9834	4110	+ve	22.691	0.000	2.297	7.593	0.460	35.482
			28:COM15	-	16:COM3	35:CVOL4	24:COM11	16:COM3
			-50.399	-42.042	-1.386	0.000	-1.886	-19.375
			22:COM9	18:COM5	26:COM13	-	18:COM5	26:COM13
	3961	-ve	22.691	0.000	2.297	7.593	2.652	119.604
			28:COM15	-	16:COM3	35:CVOL4	16:COM3	16:COM3
			-50.399	-44.291	-1.386	0.000	-2.301	-0.744
			22:COM9	18:COM5	26:COM13	-	26:COM13	26:COM13
9835	4111	+ve	20.841	0.000	1.040	5.104	0.110	0.000
			28:COM15	-	20:COM7	35:CVOL4	24:COM11	-
			-46.219	-26.019	-0.222	0.000	-0.545	-41.134
			22:COM9	18:COM5	30:COM17	-	18:COM5	18:COM5
	4110	-ve	20.841	0.000	1.040	5.104	1.587	35.654
			28:COM15	-	20:COM7	35:CVOL4	20:COM7	16:COM3
			-46.219	-28.268	-0.222	0.000	-0.425	-19.268
			22:COM9	18:COM5	30:COM17	-	30:COM17	26:COM13
9836	4112	+ve	18.904	3.664	0.427	2.147	1.157	0.000
			28:COM15	24:COM11	28:COM15	16:COM3	20:COM7	-
			-44.457	-11.427	-0.970	-0.183	-0.633	-50.876
			22:COM9	18:COM5	22:COM9	26:COM13	30:COM17	35:CVOL4
	4111	-ve	18.904	1.977	0.427	2.147	0.263	0.000
			28:COM15	24:COM11	28:COM15	16:COM3	24:COM11	-
			-44.457	-13.676	-0.970	-0.183	-0.797	-41.046
			22:COM9	18:COM5	22:COM9	26:COM13	18:COM5	18:COM5
9837	4113	+ve	17.343	14.213	0.406	0.170	0.663	0.000
			28:COM15	16:COM3	24:COM11	24:COM17	16:COM3	-
			-41.992	-1.787	-0.802	-2.172	-0.371	-39.456
			22:COM9	26:COM13	18:COM5	18:COM5	26:COM13	18:COM5
	4112	-ve	17.343	11.964	0.406	0.170	0.423	0.000
			28:COM15	16:COM3	24:COM11	24:COM17	24:COM11	-
			-41.992	-3.473	-0.802	-2.172	-0.903	-50.880
			22:COM9	26:COM13	18:COM5	18:COM5	18:COM5	35:CVOL4
9838	4114	+ve	14.346	29.139	0.245	0.000	0.810	37.870
			28:COM15	16:COM3	28:COM15	-	20:COM7	16:COM3
			-36.807	0.000	-0.743	-5.072	-0.279	-17.675
			22:COM9	-	22:COM9	35:CVOL4	30:COM17	26:COM13
	4113	-ve	14.346	26.891	0.245	0.000	0.244	0.000
			28:COM15	16:COM3	28:COM15	-	28:COM15	-
			-36.807	0.000	-0.743	-5.072	-0.683	-39.550
			22:COM9	-	22:COM9	35:CVOL4	22:COM9	18:COM5
9839	4115	+ve	21.809	0.000	3.058	8.334	1.063	40.477
			28:COM15	-	16:COM3	35:CVOL4	24:COM11	16:COM3
			-40.631	-51.630	-2.065	0.000	-2.145	-14.658
			22:COM9	18:COM5	26:COM13	-	18:COM5	26:COM13
	3962	-ve	21.809	0.000	3.058	8.334	3.839	143.302
			28:COM15	-	16:COM3	35:CVOL4	16:COM3	16:COM3
			-40.631	-53.879	-2.065	0.000	-2.985	0.000
			22:COM9	18:COM5	26:COM13	-	26:COM13	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
9840	4116	+ve	21.573	0.000	1.023	5.720	0.213	0.000
			28:COM15	-	20:COM7	35:CVOL4	28:COM15	-
			-41.734	-35.212	-0.271	0.000	-0.926	-46.149
			22:COM9	18:COM5	30:COM17	-	22:COM9	18:COM5
	4115	-ve	21.573	0.000	1.023	5.720	1.147	40.720
			28:COM15	-	20:COM7	35:CVOL4	20:COM7	16:COM3
			-41.734	-37.461	-0.271	0.000	-0.395	-14.513
			22:COM9	18:COM5	30:COM17	-	30:COM17	26:COM13
9841	4117	+ve	23.097	0.000	1.340	2.536	0.808	0.000
			28:COM15	-	20:COM7	28:COM15	28:COM15	-
			-42.953	-20.934	-0.523	0.000	-1.581	-73.998
			22:COM9	18:COM5	30:COM17	-	22:COM9	35:CVOL4
	4116	-ve	23.097	0.000	1.340	2.536	1.048	0.000
			28:COM15	-	20:COM7	28:COM15	20:COM7	-
			-42.953	-23.183	-0.523	0.000	-0.227	-46.007
			22:COM9	18:COM5	30:COM17	-	30:COM17	18:COM5
9842	4118	+ve	23.483	22.641	0.020	0.000	0.681	0.000
			28:COM15	16:COM3	28:COM15	-	16:COM3	-
			-43.932	0.000	-0.706	-2.742	0.000	-46.585
			22:COM9	-	22:COM9	26:COM13	-	18:COM5
	4117	-ve	23.483	20.392	0.020	0.000	0.274	0.000
			28:COM15	16:COM3	28:COM15	-	28:COM15	-
			-43.932	0.000	-0.706	-2.742	-0.884	-73.627
			22:COM9	-	22:COM9	26:COM13	22:COM9	35:CVOL4
9843	4119	+ve	22.512	36.786	0.133	0.000	1.523	42.423
			28:COM15	16:COM3	28:COM15	-	20:COM7	16:COM3
			-44.144	0.000	-1.290	-5.828	-0.237	-13.657
			22:COM9	-	22:COM9	34:CVOL3	30:COM17	26:COM13
	4118	-ve	22.512	34.537	0.133	0.000	0.058	0.000
			28:COM15	16:COM3	28:COM15	-	28:COM15	-
			-44.144	0.000	-1.290	-5.828	-1.026	-46.757
			22:COM9	-	22:COM9	34:CVOL3	22:COM9	18:COM5
9844	4120	+ve	6.887	0.000	2.766	10.989	1.592	48.520
			28:COM15	-	24:COM11	34:CVOL3	24:COM11	16:COM3
			-15.874	-51.960	-2.255	0.000	-2.430	-20.466
			22:COM9	18:COM5	18:COM5	-	18:COM5	26:COM13
	3963	-ve	6.887	0.000	2.766	10.989	3.076	152.006
			28:COM15	-	24:COM11	34:CVOL3	24:COM11	16:COM3
			-15.874	-54.209	-2.255	0.000	-2.919	0.000
			22:COM9	18:COM5	18:COM5	-	18:COM5	-
9845	4121	+ve	9.259	0.000	2.092	6.882	1.207	0.000
			28:COM15	-	20:COM7	34:CVOL3	24:COM11	-
			-20.743	-36.009	-1.373	0.000	-2.139	-49.068
			22:COM9	18:COM5	30:COM17	-	18:COM5	18:COM5
	4120	-ve	9.259	0.000	2.092	6.882	2.041	48.799
			28:COM15	-	20:COM7	34:CVOL3	20:COM7	16:COM3
			-20.743	-38.258	-1.373	0.000	-1.570	-20.341
			22:COM9	18:COM5	30:COM17	-	30:COM17	26:COM13

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
9846	4122	+ve	11.812	0.761	1.660	2.472	0.738	0.000
			28:COM15	24:COM11	20:COM7	24:COM17	28:COM15	-
			-22.078	-22.157	-0.541	0.000	-1.837	-73.019
			22:COM9	18:COM5	30:COM17	-	22:COM9	35:CVOL4
	4121	-ve	11.812	0.000	1.660	2.472	1.468	0.000
			28:COM15	-	20:COM7	24:COM17	16:COM3	-
			-22.078	-24.406	-0.541	0.000	-0.384	-48.916
			22:COM9	18:COM5	30:COM17	-	26:COM13	18:COM5
9847	4123	+ve	12.919	24.424	0.187	0.000	0.883	0.000
			28:COM15	16:COM3	28:COM15	-	16:COM3	-
			-24.075	0.000	-0.950	-3.909	-0.133	-44.655
			22:COM9	-	22:COM9	18:COM5	26:COM13	18:COM5
	4122	-ve	12.919	22.175	0.187	0.000	0.500	0.000
			28:COM15	16:COM3	28:COM15	-	28:COM15	-
			-24.075	0.000	-0.950	-3.909	-1.237	-73.360
			22:COM9	-	22:COM9	18:COM5	22:COM9	35:CVOL4
9848	4124	+ve	14.146	38.584	0.364	0.000	1.833	46.848
			28:COM15	16:COM3	28:COM15	-	20:COM7	16:COM3
			-28.012	0.000	-1.613	-7.179	-0.483	-13.955
			22:COM9	-	22:COM9	34:CVOL3	30:COM17	26:COM13
	4123	-ve	14.146	36.335	0.364	0.000	0.229	0.000
			28:COM15	16:COM3	28:COM15	-	28:COM15	-
			-28.012	0.000	-1.613	-7.179	-1.315	-44.855
			22:COM9	-	22:COM9	34:CVOL3	22:COM9	18:COM5
9849	4125	+ve	1.008	0.000	1.541	7.871	1.262	48.293
			24:COM17	-	20:COM7	20:COM7	28:COM15	20:COM7
			-4.503	-44.987	-1.319	-1.992	-1.466	-35.615
			18:COM5	22:COM9	30:COM17	30:COM17	22:COM9	30:COM17
	3964	-ve	1.008	0.000	1.541	7.871	1.593	139.753
			24:COM17	-	20:COM7	20:COM7	20:COM7	20:COM7
			-4.503	-47.274	-1.319	-1.992	-1.358	-29.574
			18:COM5	22:COM9	30:COM17	30:COM17	30:COM17	30:COM17
9850	4126	+ve	0.871	3.293	0.481	8.308	0.515	0.550
			28:COM15	28:COM15	28:COM15	20:COM7	20:COM7	28:COM15
			-7.234	-29.638	-0.665	-3.551	-0.236	-43.856
			22:COM9	22:COM9	22:COM9	30:COM17	30:COM17	22:COM9
	4125	-ve	0.871	1.578	0.481	8.308	0.731	48.338
			28:COM15	28:COM15	28:COM15	20:COM7	28:COM15	20:COM7
			-7.234	-31.925	-0.665	-3.551	-0.816	-35.424
			22:COM9	22:COM9	22:COM9	30:COM17	22:COM9	30:COM17
9851	4127	+ve	2.533	6.904	0.336	5.677	0.732	0.000
			28:COM15	28:COM15	28:COM15	20:COM7	20:COM7	-
			-8.981	-15.151	-0.634	-2.821	-0.299	-49.641
			22:COM9	22:COM9	22:COM9	30:COM17	30:COM17	35:CVOL4
	4126	-ve	2.533	5.188	0.336	5.677	0.375	0.555
			28:COM15	28:COM15	28:COM15	20:COM7	28:COM15	28:COM15
			-8.981	-17.438	-0.634	-2.821	-0.532	-43.582
			22:COM9	22:COM9	22:COM9	30:COM17	22:COM9	22:COM9

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
9852	4128	+ve	3.359	11.094	0.042	0.491	0.574	0.000
			28:COM15	20:COM7	28:COM15	28:COM15	20:COM7	-
			-8.007	-3.287	-0.381	-1.075	-0.231	-49.894
			22:COM9	30:COM17	22:COM9	22:COM9	30:COM17	22:COM9
	4127	-ve	3.359	8.806	0.042	0.491	0.292	0.000
			28:COM15	20:COM7	28:COM15	28:COM15	28:COM15	-
			-8.007	-5.003	-0.381	-1.075	-0.620	-49.541
			22:COM9	30:COM17	22:COM9	22:COM9	22:COM9	35:CVOL4
9853	4129	+ve	6.835	20.021	0.338	2.316	1.981	22.019
			20:COM7	20:COM7	28:COM15	28:COM15	20:COM7	28:COM15
			-8.865	0.000	-1.622	-5.644	-0.407	-28.950
			30:COM17	-	22:COM9	22:COM9	30:COM17	22:COM9
	4128	-ve	6.835	17.734	0.338	2.316	0.281	0.000
			20:COM7	20:COM7	28:COM15	28:COM15	28:COM15	-
			-8.865	0.000	-1.622	-5.644	-1.252	-49.766
			30:COM17	-	22:COM9	22:COM9	22:COM9	22:COM9
9854	4130	+ve	16.588	33.364	0.000	2.922	2.938	79.792
			20:COM7	34:CVOL3	-	28:COM15	20:COM7	20:COM7
			-5.461	0.000	-2.541	-7.291	0.000	-3.739
			30:COM17	-	34:CVOL3	22:COM9	-	30:COM17
	4129	-ve	16.588	31.077	0.000	2.922	0.000	21.710
			20:COM7	34:CVOL3	-	28:COM15	-	28:COM15
			-5.461	0.000	-2.541	-7.291	-2.199	-29.116
			30:COM17	-	34:CVOL3	22:COM9	22:COM9	22:COM9
9855	4131	+ve	0.952	10.747	0.686	2.111	0.423	9.172
			28:COM15	16:COM3	16:COM3	24:COM17	24:COM17	24:COM17
			-2.049	-2.475	-0.560	-8.631	-0.469	-10.279
			22:COM9	26:COM13	26:COM13	18:COM5	18:COM5	18:COM5
	4244	-ve	0.952	9.448	0.686	2.111	0.305	0.000
			28:COM15	16:COM3	16:COM3	24:COM17	16:COM3	-
			-2.049	-3.449	-0.560	-8.631	-0.210	-7.978
			22:COM9	26:COM13	26:COM13	18:COM5	26:COM13	18:COM5
9856	4132	+ve	0.703	25.042	0.957	3.662	0.151	52.634
			28:COM15	16:COM3	20:COM7	24:COM17	28:COM15	16:COM3
			-3.250	0.000	-0.039	-5.577	-0.999	-5.066
			22:COM9	-	30:COM17	18:COM5	22:COM9	26:COM13
	4131	-ve	0.703	22.876	0.957	3.662	0.838	9.138
			28:COM15	16:COM3	20:COM7	24:COM17	16:COM3	24:COM17
			-3.250	0.000	-0.039	-5.577	0.000	-10.360
			22:COM9	-	30:COM17	18:COM5	-	18:COM5
9857	4133	+ve	20.154	0.000	1.041	0.000	1.468	45.118
			20:COM7	-	28:COM15	-	20:COM7	16:COM3
			-19.827	-39.710	-2.079	-11.532	-0.523	-27.017
			30:COM17	18:COM5	22:COM9	18:COM5	30:COM17	26:COM13
	3966	-ve	20.154	0.000	1.041	0.000	1.514	124.932
			20:COM7	-	28:COM15	-	28:COM15	16:COM3
			-19.827	-41.964	-2.079	-11.532	-2.599	-17.271
			30:COM17	18:COM5	22:COM9	18:COM5	22:COM9	26:COM13

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
9858	4134	+ve	19.158	0.000	0.221	0.000	0.667	5.177
			28:COM15	-	28:COM15	-	20:COM7	24:COM11
			-20.050	-24.721	-0.684	-8.655	-0.176	-40.515
			22:COM9	18:COM5	22:COM9	34:CVOL3	30:COM17	18:COM5
	4133	-ve	19.158	0.000	0.221	0.000	0.281	45.265
			28:COM15	-	28:COM15	-	28:COM15	16:COM3
			-20.050	-26.976	-0.684	-8.655	-0.694	-26.943
			22:COM9	18:COM5	22:COM9	34:CVOL3	22:COM9	26:COM13
9859	4135	+ve	17.221	3.449	0.282	0.000	0.384	0.000
			20:COM7	24:COM11	28:COM15	-	20:COM7	-
			-16.811	-13.648	-0.448	-5.290	-0.216	-44.560
			30:COM17	18:COM5	22:COM9	18:COM5	30:COM17	35:CVOL4
	4134	-ve	17.221	1.758	0.282	0.000	0.345	5.258
			20:COM7	24:COM11	28:COM15	-	28:COM15	24:COM11
			-16.811	-15.903	-0.448	-5.290	-0.503	-40.480
			30:COM17	18:COM5	22:COM9	18:COM5	22:COM9	18:COM5
9860	4136	+ve	14.976	8.943	0.040	1.519	0.134	0.000
			20:COM7	16:COM3	24:COM11	16:COM3	20:COM7	-
			-14.281	-5.068	-0.134	-1.614	-0.019	-44.672
			30:COM17	26:COM13	18:COM5	26:COM13	30:COM17	18:COM5
	4135	-ve	14.976	6.688	0.040	1.519	0.094	0.000
			20:COM7	16:COM3	24:COM11	16:COM3	24:COM11	-
			-14.281	-6.759	-0.134	-1.614	-0.163	-44.539
			30:COM17	26:COM13	18:COM5	26:COM13	18:COM5	35:CVOL4
9861	4137	+ve	13.545	18.041	0.179	5.151	0.302	13.625
			20:COM7	16:COM3	28:COM15	16:COM3	28:COM15	24:COM11
			-12.466	-0.116	-0.152	0.000	-0.349	-37.791
			30:COM17	26:COM13	22:COM9	-	22:COM9	18:COM5
	4136	-ve	13.545	15.786	0.179	5.151	0.110	0.000
			20:COM7	16:COM3	28:COM15	16:COM3	24:COM11	-
			-12.466	-1.808	-0.152	0.000	-0.104	-44.688
			30:COM17	26:COM13	22:COM9	-	18:COM5	18:COM5
9862	4138	+ve	10.469	28.444	0.658	8.424	0.372	59.081
			20:COM7	16:COM3	20:COM7	34:CVOL3	28:COM15	16:COM3
			-10.019	0.000	-0.295	0.000	-0.659	-22.571
			30:COM17	-	30:COM17	-	22:COM9	26:COM13
	4137	-ve	10.469	26.189	0.658	8.424	0.636	13.552
			20:COM7	16:COM3	20:COM7	34:CVOL3	20:COM7	24:COM11
			-10.019	0.000	-0.295	0.000	-0.211	-37.875
			30:COM17	-	30:COM17	-	30:COM17	18:COM5
9863	4139	+ve	15.677	0.000	0.700	0.000	1.210	55.840
			28:COM15	-	28:COM15	-	20:COM7	16:COM3
			-19.038	-40.814	-1.363	-10.896	-0.689	-30.451
			22:COM9	18:COM5	22:COM9	18:COM5	30:COM17	26:COM13
	3967	-ve	15.677	0.000	0.700	0.000	0.702	138.536
			28:COM15	-	28:COM15	-	28:COM15	16:COM3
			-19.038	-43.088	-1.363	-10.896	-1.489	-17.109
			22:COM9	18:COM5	22:COM9	18:COM5	22:COM9	26:COM13

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
9864	4140	+ve	15.321	0.000	0.590	0.000	0.673	11.354
			28:COM15	-	16:COM3	-	24:COM11	24:COM11
			-19.120	-26.374	-0.682	-8.867	-0.492	-44.347
			22:COM9	18:COM5	26:COM13	34:CVOL3	18:COM5	18:COM5
	4139	-ve	15.321	0.000	0.590	0.000	0.694	56.002
			28:COM15	-	16:COM3	-	16:COM3	16:COM3
			-19.120	-28.650	-0.682	-8.867	-0.697	-30.354
			22:COM9	18:COM5	26:COM13	34:CVOL3	26:COM13	26:COM13
9865	4141	+ve	16.466	3.415	0.294	0.000	0.208	0.000
			28:COM15	24:COM11	16:COM3	-	24:COM11	-
			-18.910	-15.492	-0.237	-5.860	-0.268	-47.297
			22:COM9	18:COM5	26:COM13	18:COM5	18:COM5	18:COM5
	4140	-ve	16.466	1.708	0.294	0.000	0.341	11.439
			28:COM15	24:COM11	16:COM3	-	16:COM3	24:COM11
			-18.910	-17.767	-0.237	-5.860	-0.288	-44.256
			22:COM9	18:COM5	26:COM13	18:COM5	26:COM13	18:COM5
9866	4142	+ve	18.234	8.823	0.144	1.959	0.252	0.000
			28:COM15	16:COM3	24:COM11	24:COM11	28:COM15	-
			-20.302	-6.415	-0.135	-2.242	-0.242	-45.072
			22:COM9	26:COM13	18:COM5	18:COM5	22:COM9	18:COM5
	4141	-ve	18.234	6.753	0.144	1.959	0.160	0.000
			28:COM15	24:COM11	24:COM11	24:COM11	28:COM15	-
			-20.302	-8.327	-0.135	-2.242	-0.133	-47.285
			22:COM9	18:COM5	18:COM5	18:COM5	22:COM9	18:COM5
9867	4143	+ve	19.820	18.391	0.209	5.535	0.266	10.934
			28:COM15	16:COM3	28:COM15	16:COM3	20:COM7	24:COM11
			-21.563	-1.362	-0.262	-0.114	-0.217	-40.991
			22:COM9	26:COM13	22:COM9	26:COM13	30:COM17	18:COM5
	4142	-ve	19.820	16.116	0.209	5.535	0.225	0.000
			28:COM15	16:COM3	28:COM15	16:COM3	24:COM11	-
			-21.563	-3.068	-0.262	-0.114	-0.281	-45.058
			22:COM9	26:COM13	22:COM9	26:COM13	18:COM5	18:COM5
9868	4144	+ve	21.433	29.949	0.437	8.188	0.555	58.595
			28:COM15	16:COM3	28:COM15	34:CVOL3	20:COM7	16:COM3
			-23.723	0.000	-0.343	0.000	-0.543	-27.333
			22:COM9	-	22:COM9	-	30:COM17	26:COM13
	4143	-ve	21.433	27.674	0.437	8.188	0.400	10.816
			28:COM15	16:COM3	28:COM15	34:CVOL3	24:COM11	24:COM11
			-23.723	0.000	-0.343	0.000	-0.203	-41.050
			22:COM9	-	22:COM9	-	18:COM5	18:COM5
9869	4145	+ve	7.318	0.000	1.707	5.957	2.193	26.811
			28:COM15	-	28:COM15	24:COM11	20:COM7	20:COM7
			-9.029	-30.596	-2.316	-6.625	-1.384	-5.044
			22:COM9	34:CVOL3	22:COM9	18:COM5	30:COM17	30:COM17
	3969	-ve	7.318	0.000	1.707	5.957	2.100	86.949
			28:COM15	-	28:COM15	24:COM11	28:COM15	16:COM3
			-9.029	-32.870	-2.316	-6.625	-2.493	0.000
			22:COM9	34:CVOL3	22:COM9	18:COM5	22:COM9	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
9870	4146	+ve	13.634	0.000	0.302	5.243	0.852	0.000
			28:COM15	-	28:COM15	24:COM17	16:COM3	-
			-15.684	-17.395	-0.721	-4.621	-0.499	-26.421
			22:COM9	34:CVOL3	22:COM9	18:COM5	26:COM13	22:COM9
	4145	-ve	13.634	0.000	0.302	5.243	0.790	27.028
			28:COM15	-	28:COM15	24:COM17	24:COM11	20:COM7
			-15.684	-19.669	-0.721	-4.621	-1.263	-4.908
			22:COM9	34:CVOL3	22:COM9	18:COM5	18:COM5	30:COM17
9871	4147	+ve	18.881	0.000	1.349	4.057	1.394	0.000
			28:COM15	-	28:COM15	24:COM17	20:COM7	-
			-21.870	-8.089	-1.394	-3.405	-1.253	-37.464
			22:COM9	22:COM9	22:COM9	18:COM5	30:COM17	18:COM5
	4146	-ve	18.881	0.000	1.349	4.057	1.447	0.000
			28:COM15	-	28:COM15	24:COM17	28:COM15	-
			-21.870	-10.362	-1.394	-3.405	-1.395	-26.265
			22:COM9	22:COM9	22:COM9	18:COM5	22:COM9	22:COM9
9872	4148	+ve	18.137	3.129	1.026	1.601	1.297	0.000
			28:COM15	20:COM7	16:COM3	28:COM15	24:COM11	-
			-20.853	-1.292	-0.764	-2.064	-1.657	-37.403
			22:COM9	30:COM17	26:COM13	22:COM9	18:COM5	35:CVOL4
	4147	-ve	18.137	1.275	1.026	1.601	1.550	0.000
			28:COM15	28:COM15	16:COM3	28:COM15	20:COM7	-
			-20.853	-3.416	-0.764	-2.064	-1.393	-37.502
			22:COM9	22:COM9	26:COM13	22:COM9	30:COM17	18:COM5
9873	4149	+ve	21.453	12.205	1.648	1.367	1.257	0.000
			28:COM15	16:COM3	20:COM7	24:COM17	28:COM15	-
			-24.850	0.000	-1.119	-2.694	-1.647	-23.751
			22:COM9	-	30:COM17	18:COM5	22:COM9	18:COM5
	4148	-ve	21.453	9.932	1.648	1.367	1.780	0.000
			28:COM15	16:COM3	20:COM7	24:COM17	16:COM3	-
			-24.850	-0.567	-1.119	-2.694	-1.128	-37.449
			22:COM9	26:COM13	30:COM17	18:COM5	26:COM13	35:CVOL4
9874	4150	+ve	19.986	25.300	0.761	5.188	0.377	34.975
			28:COM15	16:COM3	20:COM7	16:COM3	24:COM11	16:COM3
			-23.901	0.000	-0.154	-5.754	-0.968	-12.533
			22:COM9	-	30:COM17	26:COM13	18:COM5	26:COM13
	4149	-ve	19.986	23.027	0.761	5.188	0.737	0.000
			28:COM15	16:COM3	20:COM7	16:COM3	20:COM7	-
			-23.901	0.000	-0.154	-5.754	-0.133	-23.921
			22:COM9	-	30:COM17	26:COM13	30:COM17	18:COM5
9875	4151	+ve	95.885	54.500	8.093	1.493	0.000	161.826
			34:CVOL3	34:CVOL3	34:CVOL3	24:COM17	-	34:CVOL3
			0.000	0.000	0.000	-1.381	-8.302	0.000
			-	-	-	18:COM5	34:CVOL3	-
	4215	-ve	95.885	51.153	8.093	1.493	7.356	59.621
			34:CVOL3	34:CVOL3	34:CVOL3	24:COM17	34:CVOL3	34:CVOL3
			0.000	0.000	0.000	-1.381	0.000	0.000
			-	-	-	18:COM5	-	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
9876	4152	+ve	149.940	78.002	4.817	4.897	0.000	275.897
			34:CVOL3	34:CVOL3	20:COM7	20:COM7	-	34:CVOL3
			0.000	0.000	0.000	-1.913	-3.346	0.000
			-	-	-	30:COM1	22:COM9	-
	4151	-ve	149.940	75.177	4.817	4.897	4.716	150.834
			34:CVOL3	34:CVOL3	20:COM7	20:COM7	34:CVOL3	34:CVOL3
			0.000	0.000	0.000	-1.913	0.000	0.000
			-	-	-	30:COM1	-	-
9877	4073	+ve	268.759	0.000	10.221	15.285	2.967	329.316
			34:CVOL3	-	20:COM7	20:COM7	28:COM1	34:CVOL3
			0.000	-103.504	-4.073	-16.212	-7.858	0.000
			-	34:CVOL3	30:COM1	30:COM1	22:COM9	-
	3951	-ve	268.759	0.000	10.221	15.285	8.876	501.537
			34:CVOL3	-	20:COM7	20:COM7	20:COM7	34:CVOL3
			0.000	-106.902	-4.073	-16.212	-3.705	0.000
			-	34:CVOL3	30:COM1	30:COM1	30:COM1	-
9878	4072	+ve	193.423	0.000	0.627	2.739	4.941	202.914
			34:CVOL3	-	28:COM1	34:CVOL3	20:COM7	34:CVOL3
			0.000	-84.863	-4.209	-4.819	0.000	0.000
			-	34:CVOL3	22:COM9	33:CVOL2	-	-
	4073	-ve	193.423	0.000	0.627	2.739	1.817	344.254
			34:CVOL3	-	28:COM1	34:CVOL3	24:COM1	34:CVOL3
			0.000	-88.253	-4.209	-4.819	-2.051	0.000
			-	34:CVOL3	22:COM9	33:CVOL2	18:COM5	-
9879	4153	+ve	14.556	0.000	0.053	0.115	0.120	15.230
			20:COM7	-	24:COM1	24:COM1	16:COM3	16:COM3
			-15.914	-7.058	-0.145	-1.213	-0.032	-6.778
			30:COM1	18:COM5	18:COM5	18:COM5	26:COM1	26:COM1
	4000	-ve	14.556	0.000	0.053	0.115	0.079	24.395
			20:COM7	-	24:COM1	24:COM1	28:COM1	16:COM3
			-15.914	-8.875	-0.145	-1.213	-0.170	0.000
			30:COM1	18:COM5	18:COM5	18:COM5	22:COM9	-
9880	4154	+ve	11.283	0.000	0.037	0.000	0.018	3.682
			20:COM7	-	20:COM7	-	24:COM1	24:COM1
			-10.823	-6.156	-0.015	-0.966	-0.044	-13.084
			30:COM1	18:COM5	30:COM1	34:CVOL3	18:COM5	18:COM5
	4153	-ve	11.283	0.000	0.037	0.000	0.034	14.992
			20:COM7	-	20:COM7	-	20:COM7	16:COM3
			-10.823	-7.972	-0.015	-0.966	-0.017	-6.903
			30:COM1	18:COM5	30:COM1	34:CVOL3	30:COM1	26:COM1
9881	4155	+ve	8.978	1.583	0.057	0.007	0.025	0.000
			20:COM7	24:COM1	16:COM3	24:COM1	24:COM1	-
			-8.044	-4.700	-0.023	-0.636	-0.053	-14.147
			30:COM1	18:COM5	26:COM1	18:COM5	18:COM5	18:COM5
	4154	-ve	8.978	0.221	0.057	0.007	0.060	3.537
			20:COM7	24:COM1	16:COM3	24:COM1	16:COM3	24:COM1
			-8.044	-6.515	-0.023	-0.636	-0.021	-13.203
			30:COM1	18:COM5	26:COM1	18:COM5	26:COM1	18:COM5

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
9882	4156	+ve	7.021	4.163	0.023	0.174	0.029	0.000
			20:COM7	16:COM3	24:COM11	16:COM3	16:COM3	-
			-5.936	-1.827	-0.024	-0.182	-0.020	-14.668
			30:COM17	26:COM13	18:COM5	26:COM13	26:COM13	18:COM5
	4155	-ve	7.021	2.398	0.023	0.174	0.025	0.000
			20:COM7	24:COM11	24:COM11	16:COM3	16:COM3	-
			-5.936	-3.238	-0.024	-0.182	-0.020	-14.155
			30:COM17	18:COM5	18:COM5	26:COM13	26:COM13	18:COM5
9883	4157	+ve	5.323	7.510	0.009	0.586	0.051	6.780
			20:COM7	16:COM3	24:COM11	16:COM3	16:COM3	24:COM11
			-4.008	0.000	-0.047	0.000	-0.009	-12.094
			30:COM17	-	18:COM5	-	26:COM13	18:COM5
	4156	-ve	5.323	5.694	0.009	0.586	0.011	0.000
			20:COM7	16:COM3	24:COM11	16:COM3	24:COM11	-
			-4.008	-1.094	-0.047	0.000	-0.042	-14.652
			30:COM17	26:COM13	18:COM5	-	18:COM5	18:COM5
9884	4158	+ve	3.617	9.454	0.001	0.953	0.025	22.128
			20:COM7	16:COM3	24:COM11	34:CVOL3	35:CVOL4	16:COM3
			-2.326	0.000	-0.030	0.000	-0.002	-6.864
			30:COM17	-	35:CVOL4	-	30:COM17	26:COM13
	4157	-ve	3.617	7.638	0.001	0.953	0.004	6.903
			20:COM7	16:COM3	24:COM11	34:CVOL3	24:COM11	24:COM11
			-2.326	0.000	-0.030	0.000	-0.033	-11.960
			30:COM17	-	35:CVOL4	-	35:CVOL4	18:COM5
9885	4159	+ve	7.276	0.000	0.043	0.000	0.118	20.241
			28:COM15	-	24:COM11	-	16:COM3	16:COM3
			-10.107	-6.446	-0.138	-1.069	-0.031	-9.062
			22:COM9	35:CVOL4	18:COM5	18:COM5	26:COM13	26:COM13
	4001	-ve	7.276	0.000	0.043	0.000	0.055	32.615
			28:COM15	-	24:COM11	-	24:COM11	16:COM3
			-10.107	-8.280	-0.138	-1.069	-0.155	-0.352
			22:COM9	35:CVOL4	18:COM5	18:COM5	18:COM5	26:COM13
9886	4160	+ve	7.599	0.000	0.058	0.000	0.029	6.029
			28:COM15	-	20:COM7	-	28:COM15	24:COM11
			-8.569	-7.237	-0.019	-1.004	-0.073	-14.401
			22:COM9	18:COM5	30:COM17	34:CVOL3	22:COM9	18:COM5
	4159	-ve	7.599	0.000	0.058	0.000	0.045	19.982
			28:COM15	-	20:COM7	-	20:COM7	16:COM3
			-8.569	-9.071	-0.019	-1.004	-0.011	-9.179
			22:COM9	18:COM5	30:COM17	34:CVOL3	30:COM17	26:COM13
9887	4161	+ve	7.839	1.661	0.070	0.010	0.029	0.000
			28:COM15	24:COM11	20:COM7	24:COM11	28:COM15	-
			-8.446	-5.482	-0.022	-0.673	-0.071	-15.713
			22:COM9	18:COM5	30:COM17	18:COM5	22:COM9	18:COM5
	4160	-ve	7.839	0.286	0.070	0.010	0.068	5.878
			28:COM15	24:COM11	20:COM7	24:COM11	20:COM7	24:COM11
			-8.446	-7.315	-0.022	-0.673	-0.016	-14.527
			22:COM9	18:COM5	30:COM17	18:COM5	30:COM17	18:COM5

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
9888	4162	+ve	8.182	4.166	0.034	0.221	0.049	0.000
			28:COM15	16:COM3	28:COM15	24:COM11	20:COM7	-
			-8.699	-2.330	-0.038	-0.239	-0.038	-14.986
			22:COM9	26:COM13	22:COM9	18:COM5	30:COM17	18:COM5
	4161	-ve	8.182	2.513	0.034	0.221	0.031	0.000
			28:COM15	24:COM11	28:COM15	24:COM11	20:COM7	-
			-8.699	-3.885	-0.038	-0.239	-0.027	-15.716
			22:COM9	18:COM5	22:COM9	18:COM5	30:COM17	18:COM5
9889	4163	+ve	9.236	7.519	0.019	0.684	0.081	5.863
			28:COM15	16:COM3	28:COM15	16:COM3	20:COM7	24:COM11
			-9.383	-0.095	-0.076	-0.050	-0.019	-13.287
			22:COM9	26:COM13	22:COM9	26:COM13	30:COM17	18:COM5
	4162	-ve	9.236	5.685	0.019	0.684	0.018	0.000
			28:COM15	16:COM3	28:COM15	16:COM3	28:COM15	-
			-9.383	-1.470	-0.076	-0.050	-0.069	-14.991
			22:COM9	26:COM13	22:COM9	26:COM13	22:COM9	18:COM5
9890	4164	+ve	11.262	8.745	0.001	0.962	0.041	19.571
			20:COM7	16:COM3	24:COM11	34:CVOL3	16:COM3	16:COM3
			-11.249	0.000	-0.045	0.000	-0.003	-7.484
			30:COM17	-	18:COM5	-	26:COM13	26:COM13
	4163	-ve	11.262	6.911	0.001	0.962	0.003	6.023
			20:COM7	16:COM3	24:COM11	34:CVOL3	24:COM11	24:COM11
			-11.249	0.000	-0.045	0.000	-0.053	-13.175
			30:COM17	-	18:COM5	-	18:COM5	18:COM5
9891	4167	+ve	11.853	8.408	0.000	0.725	0.053	12.352
			28:COM15	35:CVOL4	-	16:COM3	16:COM3	16:COM3
			-12.921	0.000	-0.041	-0.517	-0.016	-1.673
			22:COM9	-	35:CVOL4	26:COM13	26:COM13	26:COM13
	4166	-ve	11.853	6.577	0.000	0.725	0.011	1.906
			28:COM15	35:CVOL4	-	16:COM3	24:COM11	24:COM11
			-12.921	0.000	-0.041	-0.517	-0.062	-11.064
			22:COM9	-	35:CVOL4	26:COM13	18:COM5	18:COM5
9893	4169	+ve	3.147	70.448	0.824	0.116	1.001	15.183
			20:COM7	16:COM3	24:COM11	24:COM11	16:COM3	16:COM3
			-3.318	-55.940	-1.220	-3.930	-0.616	0.000
			30:COM17	26:COM13	18:COM5	18:COM5	26:COM13	-
	5472	-ve	3.147	68.123	0.824	0.116	1.083	115.785
			20:COM7	16:COM3	24:COM11	24:COM11	16:COM3	24:COM11
			-3.318	-57.685	-1.220	-3.930	-1.496	-124.836
			30:COM17	26:COM13	18:COM5	18:COM5	26:COM13	18:COM5
9895	4070	+ve	22.979	99.879	1.816	0.000	1.716	12.029
			16:COM3	16:COM3	20:COM7	-	28:COM15	24:COM11
			-17.021	-91.403	-1.784	-2.703	-1.769	-15.684
			26:COM13	26:COM13	30:COM17	18:COM5	22:COM9	18:COM5
	5486	-ve	22.979	97.088	1.816	0.000	1.901	172.178
			16:COM3	16:COM3	20:COM7	-	28:COM15	24:COM11
			-17.021	-93.496	-1.784	-2.703	-1.889	-188.002
			26:COM13	26:COM13	30:COM17	18:COM5	22:COM9	18:COM5

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
9897	4173	+ve	20.994	13.736	0.510	2.138	0.429	16.889
			24:COM1	16:COM3	20:COM7	20:COM7	28:COM1	20:COM7
			-24.520	0.000	-0.460	-0.909	-0.490	-15.421
			18:COM5	-	30:COM1	30:COM1	22:COM9	30:COM1
	4194	-ve	20.994	10.596	0.510	2.138	0.516	2.673
			24:COM1	16:COM3	20:COM7	20:COM7	20:COM7	28:COM1
			-24.520	0.000	-0.460	-0.909	-0.479	-31.267
			18:COM5	-	30:COM1	30:COM1	30:COM1	22:COM9
9898	4174	+ve	19.479	23.820	0.524	2.496	0.665	33.415
			24:COM1	20:COM7	28:COM1	28:COM1	20:COM7	20:COM7
			-21.854	-1.344	-0.628	-10.186	-0.565	-6.335
			18:COM5	30:COM1	22:COM9	22:COM9	30:COM1	30:COM1
	4173	-ve	19.479	20.680	0.524	2.496	0.470	4.161
			24:COM1	20:COM7	28:COM1	28:COM1	28:COM1	24:COM1
			-21.854	-3.700	-0.628	-10.186	-0.576	-16.002
			18:COM5	30:COM1	22:COM9	22:COM9	22:COM9	18:COM5
9899	4175	+ve	7.542	5.312	4.864	0.000	4.172	15.993
			28:COM1	16:COM3	28:COM1	-	20:COM7	28:COM1
			-11.946	-0.744	-7.155	-2.646	-2.955	-29.639
			22:COM9	26:COM1	22:COM9	18:COM5	30:COM1	22:COM9
	4019	-ve	7.542	3.094	4.864	0.000	3.821	15.160
			28:COM1	16:COM3	28:COM1	-	28:COM1	28:COM1
			-11.946	-2.407	-7.155	-2.646	-5.795	-32.467
			22:COM9	26:COM1	22:COM9	18:COM5	22:COM9	22:COM9
9900	4176	+ve	18.347	6.120	0.683	6.749	0.298	18.588
			28:COM1	16:COM3	20:COM7	20:COM7	28:COM1	28:COM1
			-22.209	0.000	-0.269	-2.517	-0.775	-21.307
			22:COM9	-	30:COM1	30:COM1	22:COM9	22:COM9
	4175	-ve	18.347	2.916	0.683	6.749	0.602	15.436
			28:COM1	16:COM3	20:COM7	20:COM7	20:COM7	28:COM1
			-22.209	-0.142	-0.269	-2.517	-0.245	-29.383
			22:COM9	26:COM1	30:COM1	30:COM1	30:COM1	22:COM9
9901	4177	+ve	15.588	11.972	0.789	4.723	0.548	30.509
			28:COM1	20:COM7	20:COM7	20:COM7	28:COM1	20:COM7
			-26.684	0.000	-0.446	-1.466	-0.979	-6.634
			22:COM9	-	30:COM1	30:COM1	22:COM9	30:COM1
	4176	-ve	15.588	8.862	0.789	4.723	0.575	18.557
			28:COM1	20:COM7	20:COM7	20:COM7	20:COM7	28:COM1
			-26.684	0.000	-0.446	-1.466	-0.334	-21.449
			22:COM9	-	30:COM1	30:COM1	30:COM1	22:COM9
9902	4179	+ve	6.348	7.332	0.158	2.589	0.183	0.000
			16:COM3	16:COM3	28:COM1	16:COM3	20:COM7	-
			-4.540	-1.222	-0.208	0.000	-0.163	-6.601
			26:COM1	26:COM1	22:COM9	-	30:COM1	22:COM9
	4287	-ve	6.348	4.408	0.158	2.589	0.168	0.719
			16:COM3	16:COM3	28:COM1	16:COM3	24:COM1	24:COM1
			-4.540	-3.415	-0.208	0.000	-0.240	-16.299
			26:COM1	26:COM1	22:COM9	-	18:COM5	18:COM5

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
9903	4180	+ve	8.080	23.362	6.383	13.347	3.337	16.363
			16:COM3	20:COM7	28:COM15	20:COM7	20:COM7	20:COM7
			-7.609	-2.478	-7.078	-13.436	-2.905	0.000
			26:COM13	30:COM17	22:COM9	30:COM17	30:COM17	-
	5875	-ve	8.080	21.870	6.383	13.347	3.085	13.068
			16:COM3	20:COM7	28:COM15	20:COM7	28:COM15	28:COM15
			-7.609	-3.597	-7.078	-13.436	-3.303	-14.172
			26:COM13	30:COM17	22:COM9	30:COM17	22:COM9	22:COM9
9904	4181	+ve	10.669	0.197	4.310	8.758	1.790	20.822
			24:COM17	28:COM15	20:COM7	28:COM15	28:COM15	20:COM7
			-13.179	-20.723	-3.809	-9.234	-2.070	-9.762
			18:COM5	22:COM9	30:COM17	22:COM9	22:COM9	30:COM17
	5873	-ve	10.669	0.000	4.310	8.758	2.198	42.015
			24:COM17	-	20:COM7	28:COM15	20:COM7	20:COM7
			-13.179	-22.297	-3.809	-9.234	-1.984	-9.294
			18:COM5	22:COM9	30:COM17	22:COM9	30:COM17	30:COM17
9905	4182	+ve	18.588	3.846	0.233	2.111	0.144	0.000
			20:COM7	28:COM15	20:COM7	24:COM17	28:COM15	-
			-17.332	-15.491	-0.150	-2.867	-0.211	-13.024
			30:COM17	22:COM9	30:COM17	18:COM5	22:COM9	22:COM9
	4181	-ve	18.588	1.478	0.233	2.111	0.308	20.851
			20:COM7	28:COM15	20:COM7	24:COM17	20:COM7	20:COM7
			-17.332	-18.649	-0.150	-2.867	-0.211	-9.594
			30:COM17	22:COM9	30:COM17	18:COM5	30:COM17	30:COM17
9906	4183	+ve	30.628	3.569	4.124	2.182	1.347	8.906
			20:COM7	24:COM11	20:COM7	28:COM15	28:COM15	28:COM15
			-26.406	-7.694	-2.643	-11.063	-2.015	-31.376
			30:COM17	18:COM5	30:COM17	22:COM9	22:COM9	22:COM9
	5871	-ve	30.628	2.385	4.124	2.182	2.079	6.866
			20:COM7	24:COM11	20:COM7	28:COM15	20:COM7	28:COM15
			-26.406	-9.272	-2.643	-11.063	-1.279	-23.875
			30:COM17	18:COM5	30:COM17	22:COM9	30:COM17	22:COM9
9907	4109	+ve	0.000	6.286	0.055	0.265	0.000	5.911
			-	35:CVOL4	20:COM7	34:CVOL3	-	16:COM3
			-7.197	0.000	0.000	0.000	-0.066	0.000
			18:COM5	-	-	-	22:COM9	-
	4078	-ve	0.000	0.503	0.055	0.265	0.068	0.211
			-	24:COM11	20:COM7	34:CVOL3	20:COM7	24:COM17
			-7.197	-1.310	0.000	0.000	0.000	-1.076
			18:COM5	18:COM5	-	-	-	18:COM5
9908	4108	+ve	0.000	5.169	0.039	0.185	0.015	3.966
			-	35:CVOL4	20:COM7	16:COM3	28:COM15	35:CVOL4
			-4.196	0.000	-0.014	-0.000	-0.047	0.000
			18:COM5	-	30:COM17	26:COM13	22:COM9	-
	4079	-ve	0.000	0.000	0.039	0.185	0.048	0.350
			-	-	20:COM7	16:COM3	20:COM7	16:COM3
			-4.196	-2.082	-0.014	-0.000	-0.018	-0.318
			18:COM5	34:CVOL3	30:COM17	26:COM13	30:COM17	26:COM13

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
9909	4107	+ve	0.000	4.705	0.008	0.053	0.032	3.188
			-	35:CVOL4	28:COM15	24:COM17	20:COM7	35:CVOL4
			-2.152	0.000	-0.028	-0.073	-0.009	0.000
			18:COM5	-	22:COM9	18:COM5	30:COM17	-
	4080	-ve	0.000	0.000	0.008	0.053	0.011	0.497
			-	-	28:COM15	24:COM17	28:COM15	34:CVOL3
			-2.152	-2.522	-0.028	-0.073	-0.038	-0.043
			18:COM5	34:CVOL3	22:COM9	18:COM5	22:COM9	26:COM13
9910	4106	+ve	0.143	5.344	0.000	0.000	0.066	4.755
			24:COM17	35:CVOL4	-	-	20:COM7	16:COM3
			-4.909	0.000	-0.056	-0.184	0.000	0.000
			18:COM5	-	22:COM9	18:COM5	-	-
	4081	-ve	0.143	0.228	0.000	0.000	0.000	0.435
			24:COM17	24:COM11	-	-	-	16:COM3
			-4.909	-2.073	-0.056	-0.184	-0.071	-0.568
			18:COM5	18:COM5	22:COM9	18:COM5	22:COM9	26:COM13
9911	4105	+ve	0.000	6.590	0.000	0.000	0.073	6.865
			-	35:CVOL4	-	-	16:COM3	16:COM3
			-7.929	0.000	-0.062	-0.244	0.000	0.000
			18:COM5	-	18:COM5	34:CVOL3	-	-
	4082	-ve	0.000	0.950	0.000	0.000	0.000	0.331
			-	24:COM11	-	-	-	24:COM17
			-7.929	-1.335	-0.062	-0.244	-0.079	-1.527
			18:COM5	18:COM5	18:COM5	34:CVOL3	18:COM5	18:COM5
9912	4114	+ve	0.000	6.844	0.050	0.200	0.009	7.156
			-	34:CVOL3	20:COM7	35:CVOL4	28:COM15	16:COM3
			-8.345	0.000	-0.009	0.000	-0.059	0.000
			18:COM5	-	30:COM17	-	22:COM9	-
	4083	-ve	0.000	1.032	0.050	0.200	0.063	0.229
			-	24:COM11	20:COM7	35:CVOL4	20:COM7	24:COM17
			-8.345	-1.068	-0.009	0.000	-0.013	-1.685
			18:COM5	18:COM5	30:COM17	-	30:COM17	18:COM5
9913	4113	+ve	0.000	5.604	0.042	0.167	0.009	5.004
			-	34:CVOL3	20:COM7	16:COM3	28:COM15	16:COM3
			-5.148	0.000	-0.009	0.000	-0.050	0.000
			18:COM5	-	30:COM17	-	22:COM9	-
	4084	-ve	0.000	0.268	0.042	0.167	0.053	0.251
			-	24:COM11	20:COM7	16:COM3	20:COM7	24:COM17
			-5.148	-1.750	-0.009	0.000	-0.013	-0.618
			18:COM5	18:COM5	30:COM17	-	30:COM17	18:COM5
9914	4112	+ve	0.000	4.941	0.017	0.066	0.030	3.632
			-	34:CVOL3	28:COM15	16:COM3	20:COM7	34:CVOL3
			-2.718	0.000	-0.025	-0.057	-0.020	0.000
			22:COM9	-	22:COM9	26:COM13	30:COM17	-
	4085	-ve	0.000	0.000	0.017	0.066	0.021	0.326
			-	-	28:COM15	16:COM3	28:COM15	34:CVOL3
			-2.718	-2.252	-0.025	-0.057	-0.031	-0.082
			22:COM9	35:CVOL4	22:COM9	26:COM13	22:COM9	30:COM17

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
9915	4111	+ve	0.000	5.421	0.000	0.000	0.051	4.660
			-	35:CVOL4	-	-	20:COM7	16:COM3
			-4.946	0.000	-0.042	-0.161	0.000	0.000
			18:COM5	-	22:COM9	18:COM5	-	-
	4086	-ve	0.000	0.156	0.000	0.000	0.000	0.344
			-	24:COM11	-	-	-	16:COM3
			-4.946	-1.863	-0.042	-0.161	-0.052	-0.549
			18:COM5	18:COM5	22:COM9	18:COM5	22:COM9	26:COM1
9916	4110	+ve	0.000	6.607	0.000	0.000	0.052	6.797
			-	35:CVOL4	-	-	20:COM7	16:COM3
			-8.172	0.000	-0.044	-0.214	0.000	0.000
			18:COM5	-	18:COM5	35:CVOL4	-	-
	4087	-ve	0.000	0.906	0.000	0.000	0.000	0.318
			-	24:COM11	-	-	-	24:COM1
			-8.172	-1.239	-0.044	-0.214	-0.057	-1.496
			18:COM5	18:COM5	18:COM5	35:CVOL4	18:COM5	18:COM5
9917	4119	+ve	0.000	6.867	0.064	0.257	0.000	7.080
			-	34:CVOL3	20:COM7	35:CVOL4	-	16:COM3
			-7.866	0.000	0.000	0.000	-0.077	0.000
			18:COM5	-	-	-	22:COM9	-
	4088	-ve	0.000	0.999	0.064	0.257	0.080	0.086
			-	24:COM11	20:COM7	35:CVOL4	20:COM7	24:COM1
			-7.866	-0.958	0.000	0.000	0.000	-1.673
			18:COM5	18:COM5	-	-	-	18:COM5
9918	4118	+ve	0.323	5.004	0.057	0.235	0.000	3.844
			24:COM1	34:CVOL3	20:COM7	16:COM3	-	16:COM3
			-3.135	0.000	0.000	0.000	-0.068	0.000
			18:COM5	-	-	-	22:COM9	-
	4089	-ve	0.323	0.000	0.057	0.235	0.070	0.505
			24:COM1	-	20:COM7	16:COM3	20:COM7	16:COM3
			-3.135	-2.224	0.000	0.000	0.000	-0.221
			18:COM5	18:COM5	-	-	-	26:COM1
9919	4117	+ve	2.191	3.663	0.014	0.045	0.006	1.884
			20:COM7	34:CVOL3	16:COM3	16:COM3	24:COM11	20:COM7
			-2.037	0.000	-0.005	-0.035	-0.016	-0.145
			30:COM1	-	26:COM1	26:COM1	18:COM5	30:COM1
	4090	-ve	2.191	0.000	0.014	0.045	0.018	1.231
			20:COM7	-	16:COM3	16:COM3	16:COM3	20:COM7
			-2.037	-3.553	-0.005	-0.035	-0.007	0.000
			30:COM1	35:CVOL4	26:COM1	26:COM1	26:COM1	-
9920	4116	+ve	0.508	4.900	0.000	0.000	0.065	3.540
			24:COM1	34:CVOL3	-	-	20:COM7	16:COM3
			-3.017	0.000	-0.054	-0.234	0.000	0.000
			18:COM5	-	22:COM9	18:COM5	-	-
	4091	-ve	0.508	0.000	0.000	0.000	0.000	0.588
			24:COM1	-	-	-	-	16:COM3
			-3.017	-2.298	-0.054	-0.234	-0.068	-0.206
			18:COM5	35:CVOL4	22:COM9	18:COM5	22:COM9	26:COM1

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
9921	4115	+ve	0.000	6.741	0.000	0.000	0.078	6.908
			-	35:CVOL4	-	-	20:COM7	16:COM3
			-8.129	0.000	-0.064	-0.263	0.000	0.000
			18:COM5	-	22:COM9	35:CVOL4	-	-
	4092	-ve	0.000	0.985	0.000	0.000	0.000	0.203
			-	24:COM11	-	-	-	24:COM1
			-8.129	-1.076	-0.064	-0.263	-0.078	-1.668
			18:COM5	18:COM5	22:COM9	35:CVOL4	22:COM9	18:COM5
9922	4124	+ve	0.000	6.856	0.070	0.297	0.000	7.297
			-	35:CVOL4	20:COM7	34:CVOL3	-	16:COM3
			-8.254	0.000	0.000	0.000	-0.083	0.000
			18:COM5	-	-	-	22:COM9	-
	4093	-ve	0.000	1.141	0.070	0.297	0.089	0.129
			-	24:COM11	20:COM7	34:CVOL3	20:COM7	24:COM1
			-8.254	-1.067	0.000	0.000	0.000	-1.766
			18:COM5	18:COM5	-	-	-	18:COM5
9923	4123	+ve	1.042	4.849	0.071	0.271	0.000	3.928
			24:COM1	35:CVOL4	20:COM7	16:COM3	-	16:COM3
			-3.419	0.000	0.000	0.000	-0.084	0.000
			18:COM5	-	-	-	22:COM9	-
	4094	-ve	1.042	0.000	0.071	0.271	0.089	0.652
			24:COM1	-	20:COM7	16:COM3	20:COM7	16:COM3
			-3.419	-2.507	0.000	0.000	0.000	-0.276
			18:COM5	18:COM5	-	-	-	26:COM1
9924	4122	+ve	2.341	3.366	0.036	0.070	0.015	1.671
			20:COM7	35:CVOL4	20:COM7	16:COM3	28:COM1	20:COM7
			-1.331	0.000	-0.014	-0.023	-0.042	-0.662
			30:COM1	-	30:COM1	26:COM1	22:COM9	30:COM1
	4095	-ve	2.341	0.000	0.036	0.070	0.046	1.362
			20:COM7	-	20:COM7	16:COM3	20:COM7	20:COM7
			-1.331	-3.841	-0.014	-0.023	-0.018	0.000
			30:COM1	34:CVOL3	30:COM1	26:COM1	30:COM1	-
9925	4121	+ve	0.504	4.474	0.016	0.000	0.077	2.726
			24:COM1	35:CVOL4	28:COM1	-	20:COM7	35:CVOL4
			-1.442	0.000	-0.065	-0.242	-0.018	0.000
			18:COM5	-	22:COM9	18:COM5	30:COM1	-
	4096	-ve	0.504	0.000	0.016	0.000	0.021	0.669
			24:COM1	-	28:COM1	-	28:COM1	16:COM3
			-1.442	-2.786	-0.065	-0.242	-0.083	0.000
			18:COM5	34:CVOL3	22:COM9	18:COM5	22:COM9	-
9926	4120	+ve	0.000	6.191	0.000	0.000	0.087	5.689
			-	35:CVOL4	-	-	20:COM7	35:CVOL4
			-6.442	0.000	-0.074	-0.312	0.000	0.000
			18:COM5	-	22:COM9	34:CVOL3	-	-
	4097	-ve	0.000	0.427	0.000	0.000	0.000	0.152
			-	24:COM11	-	-	-	24:COM1
			-6.442	-1.334	-0.074	-0.312	-0.094	-1.020
			18:COM5	18:COM5	22:COM9	34:CVOL3	22:COM9	18:COM5

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
9927	4158	+ve	0.000	0.995	0.000	0.000	0.128	0.310
			-	24:COM11	-	-	35:CVOL4	24:COM1
			-5.721	-2.985	-0.205	-0.265	0.000	-1.240
			18:COM5	18:COM5	35:CVOL4	34:CVOL3	-	18:COM5
	4138	-ve	0.000	0.000	0.000	0.000	0.000	4.160
			-	-	-	-	-	16:COM3
			-5.721	-5.651	-0.205	-0.265	-0.128	-0.154
			18:COM5	18:COM5	35:CVOL4	34:CVOL3	35:CVOL4	26:COM1
9928	4157	+ve	0.197	1.473	0.000	0.000	0.112	0.367
			24:COM1	16:COM3	-	-	16:COM3	16:COM3
			-2.325	-0.437	-0.172	-0.199	0.000	-0.173
			18:COM5	26:COM1	18:COM5	18:COM5	-	26:COM1
	4137	-ve	0.197	0.000	0.000	0.000	0.000	1.462
			24:COM1	-	-	-	-	16:COM3
			-2.325	-2.540	-0.172	-0.199	-0.104	-0.115
			18:COM5	18:COM5	18:COM5	18:COM5	18:COM5	26:COM1
9929	4156	+ve	0.474	2.227	0.030	0.019	0.061	0.589
			35:CVOL4	35:CVOL4	24:COM11	24:COM1	16:COM3	35:CVOL4
			-0.527	0.000	-0.094	-0.095	-0.020	0.000
			30:COM1	-	18:COM5	18:COM5	26:COM1	-
	4136	-ve	0.474	0.000	0.030	0.019	0.018	0.364
			35:CVOL4	-	24:COM11	24:COM1	24:COM11	28:COM1
			-0.527	-1.157	-0.094	-0.095	-0.057	-0.154
			30:COM1	22:COM9	18:COM5	18:COM5	18:COM5	22:COM9
9930	4155	+ve	0.807	2.248	0.099	0.103	0.021	0.596
			16:COM3	35:CVOL4	16:COM3	16:COM3	24:COM11	35:CVOL4
			-0.958	0.000	-0.030	-0.022	-0.065	0.000
			26:COM1	-	26:COM1	26:COM1	18:COM5	-
	4135	-ve	0.807	0.000	0.099	0.103	0.059	0.434
			16:COM3	-	16:COM3	16:COM3	16:COM3	24:COM1
			-0.958	-1.215	-0.030	-0.022	-0.017	-0.235
			26:COM1	18:COM5	26:COM1	26:COM1	26:COM1	18:COM5
9931	4154	+ve	1.180	2.055	0.192	0.215	0.000	0.564
			24:COM1	16:COM3	16:COM3	16:COM3	-	16:COM3
			-3.241	-0.986	0.000	0.000	-0.126	-0.352
			18:COM5	26:COM1	-	-	18:COM5	26:COM1
	4134	-ve	1.180	0.184	0.192	0.215	0.115	1.915
			24:COM1	24:COM11	16:COM3	16:COM3	16:COM3	16:COM3
			-3.241	-3.030	0.000	0.000	0.000	-0.593
			18:COM5	18:COM5	-	-	-	26:COM1
9932	4153	+ve	1.619	2.296	0.226	0.272	0.000	0.832
			24:COM1	24:COM11	20:COM7	34:CVOL3	-	24:COM1
			-7.214	-4.199	0.000	0.000	-0.143	-1.725
			18:COM5	18:COM5	-	-	22:COM9	18:COM5
	4133	-ve	1.619	1.046	0.226	0.272	0.140	5.193
			24:COM1	24:COM11	20:COM7	34:CVOL3	20:COM7	16:COM3
			-7.214	-6.865	0.000	0.000	0.000	-1.258
			18:COM5	18:COM5	-	-	-	26:COM1

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
9933	4164	+ve	1.072	1.945	0.000	0.000	0.135	0.681
			24:COM1	24:COM11	-	-	20:COM7	24:COM1
			-8.112	-5.061	-0.214	-0.262	0.000	-2.019
			18:COM5	18:COM5	22:COM9	34:CVOL3	-	18:COM5
	4144	-ve	1.072	0.696	0.000	0.000	0.000	5.977
			24:COM1	24:COM11	-	-	-	16:COM3
			-8.112	-7.727	-0.214	-0.262	-0.133	-0.970
			18:COM5	18:COM5	22:COM9	34:CVOL3	22:COM9	26:COM1
9934	4162	+ve	0.771	2.310	0.059	0.036	0.080	0.629
			20:COM7	35:CVOL4	28:COM1	24:COM1	20:COM7	34:CVOL3
			-0.794	0.000	-0.124	-0.112	-0.038	0.000
			30:COM1	-	22:COM9	18:COM5	30:COM1	-
	4142	-ve	0.771	0.000	0.059	0.036	0.035	0.467
			20:COM7	-	28:COM1	24:COM1	28:COM1	28:COM1
			-0.794	-1.205	-0.124	-0.112	-0.075	-0.345
			30:COM1	22:COM9	22:COM9	18:COM5	22:COM9	22:COM9
9935	4161	+ve	0.907	2.364	0.117	0.115	0.026	0.641
			16:COM3	35:CVOL4	20:COM7	16:COM3	28:COM1	34:CVOL3
			-0.780	0.000	-0.038	-0.027	-0.076	0.000
			26:COM1	-	30:COM1	26:COM1	22:COM9	-
	4141	-ve	0.907	0.000	0.117	0.115	0.070	0.358
			16:COM3	-	20:COM7	16:COM3	20:COM7	24:COM1
			-0.780	-1.108	-0.038	-0.027	-0.022	-0.307
			26:COM1	18:COM5	30:COM1	26:COM1	30:COM1	18:COM5
9936	4160	+ve	0.767	1.806	0.207	0.223	0.000	0.511
			24:COM1	16:COM3	20:COM7	16:COM3	-	16:COM3
			-2.786	-0.721	0.000	0.000	-0.133	-0.281
			18:COM5	26:COM1	-	-	22:COM9	26:COM1
	4140	-ve	0.767	0.000	0.207	0.223	0.125	1.642
			24:COM1	-	20:COM7	16:COM3	20:COM7	16:COM3
			-2.786	-2.746	0.000	0.000	0.000	-0.322
			18:COM5	18:COM5	-	-	-	26:COM1
9937	4159	+ve	0.595	1.473	0.232	0.281	0.000	0.519
			24:COM1	24:COM11	34:CVOL3	34:CVOL3	-	24:COM1
			-6.599	-3.719	0.000	0.000	-0.144	-1.515
			18:COM5	18:COM5	-	-	34:CVOL3	18:COM5
	4139	-ve	0.595	0.224	0.232	0.281	0.146	4.803
			24:COM1	24:COM11	34:CVOL3	34:CVOL3	34:CVOL3	16:COM3
			-6.599	-6.385	0.000	0.000	0.000	-0.542
			18:COM5	18:COM5	-	-	-	26:COM1
9938	4163	+ve	0.900	1.878	0.024	0.000	0.144	0.500
			24:COM1	16:COM3	28:COM1	-	20:COM7	16:COM3
			-3.531	-1.154	-0.224	-0.229	-0.015	-0.383
			18:COM5	26:COM1	22:COM9	18:COM5	30:COM1	26:COM1
	4143	-ve	0.900	0.091	0.024	0.000	0.015	2.177
			24:COM1	24:COM11	28:COM1	-	28:COM1	16:COM3
			-3.531	-3.283	-0.224	-0.229	-0.136	-0.517
			18:COM5	18:COM5	22:COM9	18:COM5	22:COM9	26:COM1

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
9939	4167	+ve	2.713	2.921	0.086	0.113	0.097	0.957
			24:COM1	24:COM11	28:COM1	24:COM1	20:COM7	24:COM1
			-7.212	-4.139	-0.148	-0.187	-0.056	-1.581
			18:COM5	18:COM5	22:COM9	18:COM5	30:COM1	18:COM5
	4150	-ve	2.713	1.671	0.086	0.113	0.052	5.264
			24:COM1	24:COM11	28:COM1	24:COM1	28:COM1	16:COM3
			-7.212	-6.806	-0.148	-0.187	-0.088	-1.916
			18:COM5	18:COM5	22:COM9	18:COM5	22:COM9	26:COM1
9940	4166	+ve	2.708	2.650	0.112	0.128	0.095	0.341
			16:COM3	16:COM3	28:COM1	24:COM1	20:COM7	20:COM7
			-3.477	-1.072	-0.146	-0.146	-0.069	-0.252
			26:COM1	26:COM1	22:COM9	18:COM5	30:COM1	30:COM1
	4149	-ve	2.708	0.379	0.112	0.128	0.072	2.260
			16:COM3	24:COM11	28:COM1	24:COM1	28:COM1	16:COM3
			-3.477	-3.717	-0.146	-0.146	-0.087	-1.071
			26:COM1	18:COM5	22:COM9	18:COM5	22:COM9	26:COM1
9941	4165	+ve	2.041	1.999	0.099	0.037	0.049	0.421
			20:COM7	34:CVOL3	16:COM3	24:COM1	16:COM3	16:COM3
			-0.964	0.000	-0.082	-0.025	-0.056	-0.208
			30:COM1	-	26:COM1	18:COM5	26:COM1	26:COM1
	4148	-ve	2.041	0.000	0.099	0.037	0.069	0.343
			20:COM7	-	16:COM3	24:COM1	16:COM3	28:COM1
			-0.964	-1.275	-0.082	-0.025	-0.054	-0.262
			30:COM1	35:CVOL4	26:COM1	18:COM5	26:COM1	22:COM9
9942	4072	+ve	3.065	9.312	0.000	0.395	0.144	19.480
			20:COM7	20:COM7	-	20:COM7	20:COM7	20:COM7
			0.000	0.000	-0.078	-0.245	0.000	-5.049
			-	-	22:COM9	30:COM1	-	30:COM1
	4297	-ve	3.065	1.215	0.000	0.395	0.000	0.111
			20:COM7	28:COM1	-	20:COM7	-	28:COM1
			0.000	-4.773	-0.078	-0.245	-0.176	-0.384
			-	22:COM9	22:COM9	30:COM1	22:COM9	22:COM9
9944	4070	+ve	0.637	8.392	0.014	0.299	0.018	12.215
			28:COM1	34:CVOL3	16:COM3	16:COM3	24:COM11	34:CVOL3
			-1.943	0.000	-0.008	-0.166	-0.032	0.000
			22:COM9	-	26:COM1	26:COM1	18:COM5	-
	4272	-ve	0.637	0.000	0.014	0.299	0.036	1.859
			28:COM1	-	16:COM3	16:COM3	16:COM3	20:COM7
			-1.943	-4.038	-0.008	-0.166	-0.020	0.000
			22:COM9	35:CVOL4	26:COM1	26:COM1	26:COM1	-
9945	4184	+ve	2.184	12.757	0.000	0.540	0.226	28.803
			28:COM1	20:COM7	-	20:COM7	34:CVOL3	20:COM7
			-17.683	0.000	-0.206	-0.197	0.000	0.000
			22:COM9	-	34:CVOL3	30:COM1	-	-
	4185	-ve	2.184	10.652	0.000	0.540	0.000	5.919
			28:COM1	20:COM7	-	20:COM7	-	28:COM1
			-17.683	0.000	-0.206	-0.197	-0.186	-6.305
			22:COM9	-	34:CVOL3	30:COM1	22:COM9	22:COM9

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
9946	4185	+ve	3.381	9.338	0.000	0.205	0.133	5.969
			28:COM1	20:COM7	-	20:COM7	20:COM7	28:COM1
			-13.201	0.000	-0.126	-0.020	0.000	-6.403
			22:COM9	-	22:COM9	30:COM1	-	22:COM9
	4186	-ve	3.381	7.233	0.000	0.205	0.000	0.000
			28:COM1	20:COM7	-	20:COM7	-	-
			-13.201	0.000	-0.126	-0.020	-0.121	-14.430
			22:COM9	-	22:COM9	30:COM1	22:COM9	35:CVOL4
9947	4186	+ve	3.520	5.022	0.025	0.239	0.083	0.000
			28:COM1	20:COM7	28:COM1	20:COM7	20:COM7	-
			-9.748	-0.578	-0.091	-0.218	-0.014	-14.447
			22:COM9	30:COM1	22:COM9	30:COM1	30:COM1	35:CVOL4
	4187	-ve	3.520	2.917	0.025	0.239	0.039	0.000
			28:COM1	20:COM7	28:COM1	20:COM7	28:COM1	-
			-9.748	-2.156	-0.091	-0.218	-0.100	-18.723
			22:COM9	30:COM1	22:COM9	30:COM1	22:COM9	22:COM9
9948	4187	+ve	2.927	1.070	0.050	0.405	0.068	0.000
			28:COM1	28:COM1	28:COM1	28:COM1	20:COM7	-
			-7.072	-3.210	-0.067	-0.549	-0.043	-18.800
			22:COM9	22:COM9	22:COM9	22:COM9	30:COM1	22:COM9
	4188	-ve	2.927	0.000	0.050	0.405	0.056	1.451
			28:COM1	-	28:COM1	28:COM1	20:COM7	28:COM1
			-7.072	-5.315	-0.067	-0.549	-0.065	-17.168
			22:COM9	22:COM9	22:COM9	22:COM9	30:COM1	22:COM9
9949	4188	+ve	1.538	0.000	0.032	0.340	0.022	1.585
			28:COM1	-	20:COM7	28:COM1	28:COM1	28:COM1
			-4.535	-6.277	-0.014	-0.640	-0.032	-17.272
			22:COM9	35:CVOL4	30:COM1	22:COM9	22:COM9	22:COM9
	4189	-ve	1.538	0.000	0.032	0.340	0.034	11.257
			28:COM1	-	20:COM7	28:COM1	20:COM7	20:COM7
			-4.535	-8.382	-0.014	-0.640	-0.009	-7.229
			22:COM9	35:CVOL4	30:COM1	22:COM9	30:COM1	30:COM1
9950	4189	+ve	0.722	0.000	0.033	0.000	0.116	11.364
			28:COM1	-	28:COM1	-	20:COM7	20:COM7
			-4.325	-9.737	-0.127	-0.607	-0.024	-7.308
			22:COM9	35:CVOL4	22:COM9	18:COM5	30:COM1	30:COM1
	3997	-ve	0.722	0.000	0.033	0.000	0.042	29.706
			28:COM1	-	28:COM1	-	28:COM1	20:COM7
			-4.325	-11.839	-0.127	-0.607	-0.137	0.000
			22:COM9	35:CVOL4	22:COM9	18:COM5	22:COM9	-
9954	4020	+ve	18.023	12.082	0.112	0.147	0.250	20.828
			20:COM7	20:COM7	16:COM3	28:COM1	24:COM1	20:COM7
			-15.446	-8.025	-0.099	-0.719	-0.303	-20.944
			30:COM1	30:COM1	26:COM1	22:COM9	18:COM5	30:COM1
	4202	-ve	18.023	7.021	0.112	0.147	0.197	26.138
			20:COM7	28:COM1	16:COM3	28:COM1	16:COM3	20:COM7
			-15.446	-14.095	-0.099	-0.719	-0.191	-19.578
			30:COM1	22:COM9	26:COM1	22:COM9	26:COM1	30:COM1

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
9955	4019	+ve	39.080	5.401	0.129	0.990	0.485	1.812
			20:COM7	20:COM7	28:COM15	28:COM15	20:COM7	28:COM15
			-25.833	0.000	-0.179	-0.988	-0.323	-12.478
			30:COM17	-	22:COM9	22:COM9	30:COM17	22:COM9
	4200	-ve	39.080	0.000	0.129	0.990	0.237	0.000
			20:COM7	-	28:COM15	28:COM15	28:COM15	-
			-25.833	-5.348	-0.179	-0.988	-0.294	-8.691
			30:COM17	22:COM9	22:COM9	22:COM9	22:COM9	22:COM9
9956	4194	+ve	18.450	7.514	3.473	2.450	1.585	2.537
			24:COM11	16:COM3	20:COM7	28:COM15	28:COM15	28:COM15
			-23.204	0.000	-2.704	-6.569	-2.056	-31.159
			18:COM5	-	30:COM17	22:COM9	22:COM9	22:COM9
	5853	-ve	18.450	5.315	3.473	2.450	2.742	0.182
			24:COM11	16:COM3	20:COM7	28:COM15	20:COM7	28:COM15
			-23.204	-1.613	-2.704	-6.569	-2.150	-36.575
			18:COM5	26:COM13	30:COM17	22:COM9	30:COM17	22:COM9
9957	4195	+ve	21.530	3.802	0.463	2.978	0.300	2.914
			24:COM11	24:COM11	20:COM7	16:COM3	28:COM15	28:COM15
			-24.568	-4.664	-0.265	-0.842	-0.492	-36.797
			18:COM5	18:COM5	30:COM17	26:COM13	22:COM9	22:COM9
	4196	-ve	21.530	1.446	0.463	2.978	0.424	1.755
			24:COM11	24:COM11	20:COM7	16:COM3	20:COM7	28:COM15
			-24.568	-7.804	-0.265	-0.842	-0.225	-28.515
			18:COM5	18:COM5	30:COM17	26:COM13	30:COM17	22:COM9
9958	4196	+ve	26.926	12.130	0.395	4.932	0.437	11.434
			16:COM3	28:COM15	28:COM15	20:COM7	20:COM7	28:COM15
			-24.827	-16.203	-0.481	-0.038	-0.359	-34.731
			26:COM13	22:COM9	22:COM9	30:COM17	30:COM17	22:COM9
	4197	-ve	26.926	9.774	0.395	4.932	0.422	8.888
			16:COM3	28:COM15	28:COM15	20:COM7	28:COM15	24:COM11
			-24.827	-19.344	-0.481	-0.038	-0.513	-18.726
			26:COM13	22:COM9	22:COM9	30:COM17	22:COM9	18:COM5
9959	4197	+ve	31.840	11.097	8.145	15.740	2.897	8.782
			16:COM3	28:COM15	24:COM11	20:COM7	16:COM3	24:COM11
			-29.505	-22.625	-9.710	-13.846	-2.447	-18.461
			26:COM13	22:COM9	18:COM5	30:COM17	26:COM13	18:COM5
	4020	-ve	31.840	10.400	8.145	15.740	2.397	16.427
			16:COM3	28:COM15	24:COM11	20:COM7	24:COM11	24:COM11
			-29.505	-23.554	-9.710	-13.846	-2.860	-18.907
			26:COM13	22:COM9	18:COM5	30:COM17	18:COM5	18:COM5
9960	4198	+ve	0.000	0.000	1.212	0.126	0.000	19.964
			-	-	34:CVOL3	28:COM15	-	34:CVOL3
			-15.533	-6.103	0.000	-0.417	-1.016	0.000
			22:COM9	34:CVOL3	-	22:COM9	34:CVOL3	-
	4199	-ve	0.000	0.000	1.212	0.126	0.963	31.344
			-	-	34:CVOL3	28:COM15	34:CVOL3	34:CVOL3
			-15.533	-7.836	0.000	-0.417	0.000	0.000
			22:COM9	34:CVOL3	-	22:COM9	-	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
9961	4199	+ve	0.000	0.000	0.000	0.016	0.065	31.410
			-	-	-	28:COM15	20:COM7	34:CVOL3
			-19.404	-9.244	-0.339	-1.123	-0.005	0.000
			22:COM9	34:CVOL3	34:CVOL3	22:COM9	30:COM17	-
	3998	-ve	0.000	0.000	0.000	0.016	0.000	47.873
			-	-	-	28:COM15	-	34:CVOL3
			-19.404	-10.973	-0.339	-1.123	-0.515	0.000
			22:COM9	34:CVOL3	34:CVOL3	22:COM9	34:CVOL3	-
9962	4198	+ve	3.582	0.000	0.167	0.151	0.000	0.077
			34:CVOL3	-	34:CVOL3	20:COM7	-	28:COM15
			0.000	-1.641	0.000	0.000	-0.271	-0.330
			-	32:CVOL1	-	-	34:CVOL3	22:COM9
	4151	-ve	3.582	0.000	0.167	0.151	0.237	16.006
			34:CVOL3	-	34:CVOL3	20:COM7	34:CVOL3	34:CVOL3
			0.000	-9.492	0.000	0.000	0.000	0.000
			-	34:CVOL3	-	-	-	-
9963	4199	+ve	0.000	1.475	0.071	0.125	0.000	0.048
			-	35:CVOL4	20:COM7	20:COM7	-	28:COM15
			-5.292	0.000	0.000	-0.035	-0.119	-0.384
			35:CVOL4	-	-	30:COM17	22:COM9	22:COM9
	4152	-ve	0.000	0.000	0.071	0.125	0.096	7.717
			-	-	20:COM7	20:COM7	20:COM7	34:CVOL3
			-5.292	-6.556	0.000	-0.035	0.000	0.000
			35:CVOL4	34:CVOL3	-	30:COM17	-	-
9964	4200	+ve	24.141	0.539	1.722	0.934	2.445	0.000
			20:COM7	28:COM15	24:COM11	32:CVOL1	16:COM3	-
			-18.804	-13.241	-3.048	-0.027	-1.383	-9.767
			30:COM17	22:COM9	18:COM5	26:COM13	26:COM13	22:COM9
	4201	-ve	24.141	0.000	1.722	0.934	1.452	17.941
			20:COM7	-	24:COM11	32:CVOL1	24:COM11	20:COM7
			-18.804	-14.001	-3.048	-0.027	-2.575	-7.564
			30:COM17	22:COM9	18:COM5	26:COM13	18:COM5	30:COM17
9965	4176	+ve	3.252	5.084	0.111	0.204	0.202	5.062
			20:COM7	20:COM7	28:COM15	28:COM15	20:COM7	28:COM15
			-2.893	-2.709	-0.143	-0.521	-0.153	-13.105
			30:COM17	30:COM17	22:COM9	22:COM9	30:COM17	22:COM9
	4200	-ve	3.252	0.711	0.111	0.204	0.155	0.698
			20:COM7	28:COM15	28:COM15	28:COM15	28:COM15	28:COM15
			-2.893	-7.900	-0.143	-0.521	-0.194	-2.073
			30:COM17	22:COM9	22:COM9	22:COM9	22:COM9	22:COM9
9966	4177	+ve	13.796	7.484	0.039	0.209	0.127	7.436
			24:COM11	20:COM7	28:COM15	28:COM15	16:COM3	28:COM15
			-27.638	-4.475	-0.061	-0.443	-0.085	-11.024
			18:COM5	30:COM17	22:COM9	22:COM9	26:COM13	22:COM9
	4038	-ve	13.796	1.489	0.039	0.209	0.085	26.185
			24:COM11	28:COM15	28:COM15	28:COM15	28:COM15	20:COM7
			-27.638	-13.391	-0.061	-0.443	-0.141	-10.567
			18:COM5	22:COM9	22:COM9	22:COM9	22:COM9	30:COM17

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
9967	4201	+ve	5.923	0.000	7.541	0.951	1.425	13.896
			28:COM15	-	20:COM7	24:COM17	28:COM15	20:COM7
			-10.884	-19.424	-3.693	-2.672	-2.940	-8.475
			22:COM9	18:COM5	30:COM17	18:COM5	22:COM9	30:COM17
	4038	-ve	5.923	0.000	7.541	0.951	3.037	29.043
			28:COM15	-	20:COM7	24:COM17	16:COM3	20:COM7
			-10.884	-19.788	-3.693	-2.672	-1.517	-4.607
			22:COM9	18:COM5	30:COM17	18:COM5	26:COM13	30:COM17
9968	4201	+ve	13.943	8.374	1.699	3.676	0.439	0.900
			28:COM15	20:COM7	20:COM7	16:COM3	28:COM15	24:COM17
			-26.321	0.000	-0.459	0.000	-1.575	-4.906
			22:COM9	-	30:COM17	-	22:COM9	18:COM5
	4207	-ve	13.943	7.193	1.699	3.676	1.389	0.000
			28:COM15	20:COM7	20:COM7	16:COM3	20:COM7	-
			-26.321	0.000	-0.459	0.000	-0.408	-18.032
			22:COM9	-	30:COM17	-	30:COM17	18:COM5
9969	4202	+ve	14.634	1.266	0.702	3.153	0.557	20.340
			28:COM15	28:COM15	28:COM15	20:COM7	20:COM7	20:COM7
			-22.367	-24.124	-1.075	-1.497	-0.306	-17.550
			22:COM9	22:COM9	22:COM9	30:COM17	30:COM17	30:COM17
	4052	-ve	14.634	0.995	0.702	3.153	0.256	39.410
			28:COM15	28:COM15	28:COM15	20:COM7	28:COM15	20:COM7
			-22.367	-24.862	-1.075	-1.497	-0.297	-18.313
			22:COM9	22:COM9	22:COM9	30:COM17	22:COM9	30:COM17
9970	4015	+ve	11.030	43.767	26.142	22.058	7.983	84.222
			24:COM17	20:COM7	20:COM7	28:COM15	28:COM15	20:COM7
			-20.266	-0.935	-23.601	-41.952	-9.512	0.000
			18:COM5	30:COM17	30:COM17	22:COM9	22:COM9	-
	5855	-ve	11.030	43.382	26.142	22.058	5.100	60.393
			24:COM17	20:COM7	20:COM7	28:COM15	28:COM15	20:COM7
			-20.266	-1.224	-23.601	-41.952	-5.214	0.000
			18:COM5	30:COM17	30:COM17	22:COM9	22:COM9	-
9971	4203	+ve	16.025	26.636	3.352	4.250	2.268	28.546
			24:COM17	20:COM7	20:COM7	28:COM15	28:COM15	16:COM3
			-23.522	0.000	-2.963	-7.771	-2.847	-5.437
			18:COM5	-	30:COM17	22:COM9	22:COM9	26:COM13
	5854	-ve	16.025	25.495	3.352	4.250	2.679	0.000
			24:COM17	20:COM7	20:COM7	28:COM15	20:COM7	-
			-23.522	0.000	-2.963	-7.771	-2.618	-23.145
			18:COM5	-	30:COM17	22:COM9	30:COM17	18:COM5
9972	4204	+ve	18.079	12.749	1.003	2.254	1.306	0.000
			28:COM15	16:COM3	28:COM15	20:COM7	20:COM7	-
			-26.874	0.000	-1.136	-1.165	-1.371	-23.819
			22:COM9	-	22:COM9	30:COM17	30:COM17	18:COM5
	4205	-ve	18.079	11.400	1.003	2.254	0.592	0.000
			28:COM15	16:COM3	28:COM15	20:COM7	28:COM15	-
			-26.874	0.000	-1.136	-1.165	-0.917	-41.934
			22:COM9	-	22:COM9	30:COM17	22:COM9	22:COM9

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
9974	4206	+ve	24.979	0.000	0.618	1.842	2.258	0.000
			24:COM1	-	24:COM1	28:COM1	20:COM7	-
			-38.383	-9.898	-2.615	-4.805	-0.405	-22.145
			18:COM5	18:COM5	18:COM5	22:COM9	30:COM1	18:COM5
	4202	-ve	24.979	0.000	0.618	1.842	0.791	1.477
			24:COM1	-	24:COM1	28:COM1	24:COM1	28:COM1
			-38.383	-11.090	-2.615	-4.805	-2.378	-4.702
			18:COM5	18:COM5	18:COM5	22:COM9	18:COM5	22:COM9
9975	4203	+ve	16.605	3.561	0.893	0.276	0.348	9.628
			28:COM1	24:COM1	28:COM1	28:COM1	20:COM7	20:COM7
			-52.786	-7.942	-0.878	-0.384	-0.391	-4.634
			22:COM9	18:COM5	22:COM9	22:COM9	30:COM1	30:COM1
	4048	-ve	16.605	2.812	0.893	0.276	0.279	10.420
			28:COM1	24:COM1	28:COM1	28:COM1	28:COM1	20:COM7
			-52.786	-9.691	-0.878	-0.384	-0.311	-1.203
			22:COM9	18:COM5	22:COM9	22:COM9	22:COM9	30:COM1
9976	4204	+ve	15.913	3.226	0.590	0.066	0.374	13.741
			28:COM1	16:COM3	28:COM1	28:COM1	20:COM7	20:COM7
			-64.365	0.000	-0.839	-0.245	-0.293	-3.168
			22:COM9	-	22:COM9	22:COM9	30:COM1	30:COM1
	4049	-ve	15.913	1.477	0.590	0.066	0.151	12.833
			28:COM1	16:COM3	28:COM1	28:COM1	28:COM1	20:COM7
			-64.365	-0.426	-0.839	-0.245	-0.255	-3.986
			22:COM9	26:COM1	22:COM9	22:COM9	22:COM9	30:COM1
9977	4205	+ve	19.204	9.123	0.000	0.000	0.166	19.177
			28:COM1	20:COM7	-	-	20:COM7	20:COM7
			-79.433	0.000	-0.356	-0.128	0.000	-3.936
			22:COM9	-	18:COM5	18:COM5	-	30:COM1
	4050	-ve	19.204	7.374	0.000	0.000	0.000	16.420
			28:COM1	20:COM7	-	-	-	20:COM7
			-79.433	0.000	-0.356	-0.128	-0.109	-7.689
			22:COM9	-	18:COM5	18:COM5	22:COM9	30:COM1
9978	4206	+ve	13.274	3.691	0.206	0.147	0.152	4.417
			28:COM1	20:COM7	20:COM7	20:COM7	20:COM7	20:COM7
			-31.846	-2.943	-0.177	0.000	-0.099	-0.974
			22:COM9	30:COM1	30:COM1	-	30:COM1	30:COM1
	4051	-ve	13.274	2.653	0.206	0.147	0.086	6.585
			28:COM1	28:COM1	20:COM7	20:COM7	16:COM3	20:COM7
			-31.846	-4.403	-0.177	0.000	-0.011	-2.767
			22:COM9	22:COM9	30:COM1	-	26:COM1	30:COM1
9980	4208	+ve	20.335	1.969	0.216	1.295	0.399	0.000
			24:COM1	24:COM1	28:COM1	20:COM7	28:COM1	-
			-37.786	-7.632	-0.236	-0.761	-0.408	-23.232
			18:COM5	18:COM5	22:COM9	30:COM1	22:COM9	34:CVOL3
	4209	-ve	20.335	0.957	0.216	1.295	0.144	0.000
			24:COM1	24:COM1	28:COM1	20:COM7	28:COM1	-
			-37.786	-8.981	-0.236	-0.761	-0.192	-16.823
			18:COM5	18:COM5	22:COM9	30:COM1	22:COM9	18:COM5

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
9983	4207	+ve	7.740	4.003	0.116	0.000	0.098	4.035
			28:COM15	20:COM7	28:COM15	-	20:COM7	16:COM3
			-25.002	-5.409	-0.310	-0.213	-0.040	-1.314
			22:COM9	30:COM17	22:COM9	22:COM9	30:COM17	26:COM13
	4039	-ve	7.740	3.219	0.116	0.000	0.061	7.045
			28:COM15	28:COM15	28:COM15	-	24:COM11	20:COM7
			-25.002	-7.123	-0.310	-0.213	-0.148	-2.332
			22:COM9	22:COM9	22:COM9	22:COM9	18:COM5	30:COM17
9984	4208	+ve	11.835	3.583	0.051	0.032	0.124	7.554
			28:COM15	20:COM7	28:COM15	28:COM15	20:COM7	20:COM7
			-34.321	-0.946	-0.257	-0.131	-0.049	-2.380
			22:COM9	30:COM17	22:COM9	22:COM9	30:COM17	30:COM17
	4040	-ve	11.835	1.834	0.051	0.032	0.001	7.419
			28:COM15	20:COM7	28:COM15	28:COM15	24:COM11	20:COM7
			-34.321	-1.695	-0.257	-0.131	-0.081	-3.285
			22:COM9	30:COM17	22:COM9	22:COM9	18:COM5	30:COM17
9985	4209	+ve	16.557	2.670	0.479	0.203	0.195	8.095
			28:COM15	16:COM3	20:COM7	20:COM7	28:COM15	20:COM7
			-37.423	-0.878	-0.479	-0.152	-0.190	-3.496
			22:COM9	26:COM13	30:COM17	30:COM17	22:COM9	30:COM17
	4041	-ve	16.557	0.921	0.479	0.203	0.169	7.725
			28:COM15	16:COM3	20:COM7	20:COM7	20:COM7	20:COM7
			-37.423	-1.627	-0.479	-0.152	-0.164	-3.534
			22:COM9	26:COM13	30:COM17	30:COM17	30:COM17	30:COM17
9986	4210	+ve	13.870	4.573	0.684	0.408	0.215	7.575
			28:COM15	28:COM15	20:COM7	20:COM7	28:COM15	20:COM7
			-34.394	-6.228	-0.541	-0.273	-0.250	-4.357
			22:COM9	22:COM9	30:COM17	30:COM17	22:COM9	30:COM17
	4042	-ve	13.870	3.824	0.684	0.408	0.264	7.312
			28:COM15	28:COM15	20:COM7	20:COM7	20:COM7	16:COM3
			-34.394	-7.977	-0.541	-0.273	-0.192	-1.916
			22:COM9	22:COM9	30:COM17	30:COM17	30:COM17	26:COM13
9987	4211	+ve	1.891	10.038	0.038	0.143	0.049	11.152
			24:COM17	16:COM3	24:COM11	24:COM17	16:COM3	34:CVOL3
			-3.066	-9.916	-0.061	-0.592	-0.027	0.000
			18:COM5	26:COM13	18:COM5	18:COM5	26:COM13	-
	5505	-ve	1.891	8.602	0.038	0.143	0.051	31.962
			24:COM17	24:COM11	24:COM11	24:COM17	24:COM11	16:COM3
			-3.066	-11.759	-0.061	-0.592	-0.075	-13.916
			18:COM5	18:COM5	18:COM5	18:COM5	18:COM5	26:COM13
9989	4211	+ve	0.411	2.149	0.138	0.135	0.129	0.818
			28:COM15	16:COM3	24:COM11	24:COM17	16:COM3	20:COM7
			-1.734	0.000	-0.209	-0.229	-0.086	0.000
			22:COM9	-	18:COM5	18:COM5	26:COM13	-
	4169	-ve	0.411	0.243	0.138	0.135	0.087	0.734
			28:COM15	24:COM11	24:COM11	24:COM17	24:COM11	16:COM3
			-1.734	-1.636	-0.209	-0.229	-0.131	-0.494
			22:COM9	18:COM5	18:COM5	18:COM5	18:COM5	26:COM13

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
9990	5505	+ve	2.304	8.768	0.731	25.271	0.000	0.779
			24:COM1	24:COM1	16:COM3	16:COM3	-	24:COM1
			-1.768	-19.105	-0.171	-4.939	-0.343	-1.026
			18:COM5	18:COM5	26:COM1	26:COM1	18:COM5	18:COM5
	5472	-ve	2.304	6.649	0.731	25.271	0.582	25.129
			24:COM1	24:COM1	16:COM3	16:COM3	16:COM3	16:COM3
			-1.768	-22.925	-0.171	-4.939	-0.256	-8.817
			18:COM5	18:COM5	26:COM1	26:COM1	26:COM1	26:COM1
9991	4213	+ve	55.633	0.000	0.000	2.999	9.376	22.099
			34:CVOL3	-	-	34:CVOL3	34:CVOL3	32:CVOL1
			0.000	-40.800	-9.495	-3.998	0.000	0.000
			-	34:CVOL3	34:CVOL3	33:CVOL2	-	-
	4214	-ve	55.633	0.000	0.000	2.999	0.000	105.493
			34:CVOL3	-	-	34:CVOL3	-	34:CVOL3
			0.000	-44.859	-9.495	-3.998	-9.187	0.000
			-	34:CVOL3	34:CVOL3	33:CVOL2	34:CVOL3	-
9992	4214	+ve	126.863	0.000	0.000	5.234	8.517	91.132
			34:CVOL3	-	-	34:CVOL3	34:CVOL3	34:CVOL3
			0.000	-61.818	-8.941	-3.960	0.000	0.000
			-	34:CVOL3	34:CVOL3	33:CVOL2	-	-
	4072	-ve	126.863	0.000	0.000	5.234	0.000	215.994
			34:CVOL3	-	-	34:CVOL3	-	34:CVOL3
			0.000	-65.878	-8.941	-3.960	-8.968	0.000
			-	34:CVOL3	34:CVOL3	33:CVOL2	34:CVOL3	-
9993	4215	+ve	41.235	35.060	8.405	0.000	0.000	70.697
			34:CVOL3	34:CVOL3	34:CVOL3	-	-	34:CVOL3
			0.000	0.000	0.000	-3.450	-8.824	0.000
			-	-	-	18:COM5	34:CVOL3	-
	4216	-ve	41.235	31.678	8.405	0.000	7.607	6.790
			34:CVOL3	34:CVOL3	34:CVOL3	-	34:CVOL3	32:CVOL1
			0.000	0.000	0.000	-3.450	0.000	0.000
			-	-	-	18:COM5	-	-
9994	4215	+ve	1.875	8.034	0.008	0.031	0.000	8.912
			20:COM7	34:CVOL3	34:CVOL3	33:CVOL2	-	35:CVOL4
			-0.871	0.000	0.000	-0.068	-0.036	0.000
			30:COM1	-	-	34:CVOL3	34:CVOL3	-
	4214	-ve	1.875	0.000	0.008	0.031	0.016	13.959
			20:COM7	-	34:CVOL3	33:CVOL2	16:COM3	20:COM7
			-0.871	-8.879	0.000	-0.068	-0.001	0.000
			30:COM1	35:CVOL4	-	34:CVOL3	26:COM1	-
9995	4216	+ve	9.313	18.824	10.085	1.928	0.000	12.432
			34:CVOL3	32:CVOL1	34:CVOL3	34:CVOL3	-	32:CVOL1
			0.000	0.000	0.000	-0.672	-4.766	0.000
			-	-	-	26:COM1	34:CVOL3	-
	4004	-ve	9.313	17.278	10.085	1.928	3.148	0.000
			34:CVOL3	34:CVOL3	34:CVOL3	34:CVOL3	34:CVOL3	-
			0.000	0.000	0.000	-0.672	0.000	-2.150
			-	-	-	26:COM1	-	34:CVOL3

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
9996	4216	+ve	0.000	7.870	0.003	0.027	0.000	7.980
			-	35:CVOL4	16:COM3	33:CVOL2	-	35:CVOL4
			-6.565	0.000	0.000	-0.026	-0.012	0.000
			22:COM9	-	-	34:CVOL3	34:CVOL3	-
	4213	-ve	0.000	0.000	0.003	0.027	0.005	9.364
			-	-	16:COM3	33:CVOL2	16:COM3	34:CVOL3
			-6.565	-8.348	0.000	-0.026	0.000	0.000
			22:COM9	34:CVOL3	-	34:CVOL3	-	-
9997	4217	+ve	0.763	24.468	0.174	3.185	0.290	64.029
			28:COM15	34:CVOL3	28:COM15	16:COM3	20:COM7	34:CVOL3
			-1.711	0.000	-0.241	-0.476	-0.208	0.000
			22:COM9	-	22:COM9	26:COM13	30:COM17	-
	4218	-ve	0.763	22.192	0.174	3.185	0.197	17.999
			28:COM15	34:CVOL3	28:COM15	16:COM3	24:COM11	34:CVOL3
			-1.711	0.000	-0.241	-0.476	-0.247	0.000
			22:COM9	-	22:COM9	26:COM13	18:COM5	-
9998	4218	+ve	0.732	10.870	0.224	0.642	0.143	18.432
			16:COM3	34:CVOL3	20:COM7	32:CVOL1	28:COM15	34:CVOL3
			-0.878	0.000	-0.180	-1.005	-0.230	0.000
			26:COM13	-	30:COM17	35:CVOL4	22:COM9	-
	4008	-ve	0.732	8.595	0.224	0.642	0.213	0.000
			16:COM3	34:CVOL3	20:COM7	32:CVOL1	20:COM7	-
			-0.878	0.000	-0.180	-1.005	-0.213	-0.939
			26:COM13	-	30:COM17	35:CVOL4	30:COM17	32:CVOL1
9999	4219	+ve	4.527	31.839	0.775	0.000	0.359	54.202
			16:COM3	34:CVOL3	16:COM3	-	24:COM11	34:CVOL3
			-2.425	0.000	-0.386	-11.045	-0.567	0.000
			26:COM13	-	26:COM13	34:CVOL3	18:COM5	-
	4009	-ve	4.527	29.454	0.775	0.000	0.799	1.493
			16:COM3	34:CVOL3	16:COM3	-	16:COM3	16:COM3
			-2.425	0.000	-0.386	-11.045	-0.336	0.000
			26:COM13	-	26:COM13	34:CVOL3	26:COM13	-
10000	4217	+ve	0.000	7.926	0.001	0.149	0.007	6.024
			-	35:CVOL4	24:COM11	16:COM3	16:COM3	35:CVOL4
			-2.301	0.000	-0.002	0.000	-0.003	0.000
			18:COM5	-	18:COM5	-	26:COM13	-
	4219	-ve	0.000	0.000	0.001	0.149	0.005	9.092
			-	-	24:COM11	16:COM3	24:COM11	34:CVOL3
			-2.301	-8.921	-0.002	0.000	-0.008	0.000
			18:COM5	34:CVOL3	18:COM5	-	18:COM5	-
10001	4218	+ve	4.113	7.676	0.005	0.138	0.000	6.465
			34:CVOL3	35:CVOL4	20:COM7	16:COM3	-	35:CVOL4
			0.000	0.000	0.000	0.000	-0.015	0.000
			-	-	-	-	22:COM9	-
	4009	-ve	4.113	0.000	0.005	0.138	0.015	8.678
			34:CVOL3	-	20:COM7	16:COM3	20:COM7	34:CVOL3
			0.000	-8.417	0.000	0.000	0.000	0.000
			-	34:CVOL3	-	-	-	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
10002	4220	+ve	0.000	0.000	0.507	0.000	0.000	0.299
			-	-	34:CVOL3	-	-	32:CVOL1
			-4.594	-2.860	0.000	-0.543	-0.425	0.000
			22:COM9	34:CVOL3	-	35:CVOL4	34:CVOL3	-
	4221	-ve	0.000	0.000	0.507	0.000	0.565	7.795
			-	-	34:CVOL3	-	34:CVOL3	34:CVOL3
			-4.594	-4.935	0.000	-0.543	0.000	0.000
			22:COM9	34:CVOL3	-	35:CVOL4	-	-
10003	4221	+ve	0.000	0.000	0.812	0.000	0.000	7.876
			-	-	34:CVOL3	-	-	34:CVOL3
			-11.633	-5.205	0.000	-0.446	-0.743	0.000
			22:COM9	34:CVOL3	-	35:CVOL4	34:CVOL3	-
	4198	-ve	0.000	0.000	0.812	0.000	0.820	19.871
			-	-	34:CVOL3	-	34:CVOL3	34:CVOL3
			-11.633	-7.250	0.000	-0.446	0.000	0.000
			22:COM9	34:CVOL3	-	35:CVOL4	-	-
10004	4220	+ve	0.000	2.871	0.072	0.084	0.000	0.676
			-	35:CVOL4	34:CVOL3	35:CVOL4	-	35:CVOL4
			-3.156	0.000	0.000	0.000	-0.109	0.000
			22:COM9	-	-	-	34:CVOL3	-
	4216	-ve	0.000	0.000	0.072	0.084	0.109	4.359
			-	-	34:CVOL3	35:CVOL4	34:CVOL3	34:CVOL3
			-3.156	-5.225	0.000	0.000	0.000	0.000
			22:COM9	34:CVOL3	-	-	-	-
10005	4221	+ve	0.683	0.481	0.151	0.130	0.000	0.011
			20:COM7	35:CVOL4	34:CVOL3	35:CVOL4	-	28:COM15
			-0.068	-0.562	0.000	0.000	-0.242	-0.161
			30:COM17	30:COM17	-	-	34:CVOL3	22:COM9
	4215	-ve	0.683	0.000	0.151	0.130	0.218	11.727
			20:COM7	-	34:CVOL3	35:CVOL4	34:CVOL3	34:CVOL3
			-0.068	-8.059	0.000	0.000	0.000	0.000
			30:COM17	34:CVOL3	-	-	-	-
10006	4222	+ve	1.122	7.087	0.000	0.433	0.022	21.661
			24:COM11	16:COM3	-	34:CVOL3	16:COM3	34:CVOL3
			-1.462	0.000	-0.037	0.000	0.000	0.000
			18:COM5	-	34:CVOL3	-	-	-
	4223	-ve	1.122	5.222	0.000	0.433	0.000	10.064
			24:COM11	16:COM3	-	34:CVOL3	-	34:CVOL3
			-1.462	0.000	-0.037	0.000	-0.053	0.000
			18:COM5	-	34:CVOL3	-	34:CVOL3	-
10007	4223	+ve	0.415	5.288	0.000	0.222	0.087	9.954
			24:COM11	34:CVOL3	-	34:CVOL3	16:COM3	34:CVOL3
			-0.565	0.000	-0.079	0.000	0.000	0.000
			18:COM5	-	18:COM5	-	-	-
	4007	-ve	0.415	3.069	0.000	0.222	0.000	0.067
			24:COM11	34:CVOL3	-	34:CVOL3	-	24:COM11
			-0.565	0.000	-0.079	0.000	-0.102	-0.073
			18:COM5	-	18:COM5	-	18:COM5	18:COM5

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
10008	4222	+ve	0.000	0.000	0.052	0.046	0.066	0.000
			-	-	24:COM11	24:COM11	16:COM3	-
			-7.389	-4.885	-0.108	-0.126	-0.035	-2.047
			18:COM5	18:COM5	18:COM5	18:COM5	26:COM13	18:COM5
	4217	-ve	0.000	0.000	0.052	0.046	0.030	5.664
			-	-	24:COM11	24:COM11	24:COM11	16:COM3
			-7.389	-7.533	-0.108	-0.126	-0.068	0.000
			18:COM5	18:COM5	18:COM5	18:COM5	18:COM5	-
10009	4223	+ve	0.000	0.555	0.000	0.000	0.069	0.158
			-	16:COM3	-	-	34:CVOL3	24:COM11
			-4.478	-1.548	-0.105	-0.101	0.000	-0.581
			18:COM5	26:COM13	34:CVOL3	34:CVOL3	-	18:COM5
	4218	-ve	0.000	0.000	0.000	0.000	0.000	2.971
			-	-	-	-	-	16:COM3
			-4.478	-4.188	-0.105	-0.101	-0.061	0.000
			18:COM5	18:COM5	34:CVOL3	34:CVOL3	34:CVOL3	-
10010	4219	+ve	0.368	9.362	0.003	0.391	0.005	13.388
			28:COM15	34:CVOL3	16:COM3	16:COM3	24:COM11	34:CVOL3
			-1.709	0.000	-0.001	0.000	-0.010	0.000
			22:COM9	-	26:COM13	-	18:COM5	-
	4266	-ve	0.368	0.000	0.003	0.391	0.006	0.171
			28:COM15	-	16:COM3	16:COM3	16:COM3	24:COM11
			-1.709	-3.165	-0.001	0.000	-0.001	-2.810
			22:COM9	35:CVOL4	26:COM13	-	26:COM13	18:COM5
10012	4224	+ve	11.994	17.970	2.286	3.885	1.407	20.529
			24:COM11	20:COM7	20:COM7	28:COM15	28:COM15	16:COM3
			-22.596	0.000	-2.308	-11.882	-1.668	-5.311
			18:COM5	-	30:COM17	22:COM9	22:COM9	26:COM13
	5870	-ve	11.994	16.985	2.286	3.885	1.618	3.027
			24:COM11	20:COM7	20:COM7	28:COM15	28:COM15	24:COM11
			-22.596	0.000	-2.308	-11.882	-1.911	-18.326
			18:COM5	-	30:COM17	22:COM9	22:COM9	18:COM5
10013	4225	+ve	9.119	6.048	0.506	1.503	0.468	0.409
			24:COM11	16:COM3	20:COM7	16:COM3	20:COM7	24:COM11
			-17.394	-2.826	-0.477	-0.342	-0.350	-20.272
			18:COM5	26:COM13	30:COM17	26:COM13	30:COM17	18:COM5
	4226	-ve	9.119	4.699	0.506	1.503	0.683	0.000
			24:COM11	16:COM3	20:COM7	16:COM3	20:COM7	-
			-17.394	-3.838	-0.477	-0.342	-0.509	-18.070
			18:COM5	26:COM13	30:COM17	26:COM13	30:COM17	35:CVOL4
10014	4226	+ve	5.020	7.391	4.329	1.783	1.899	0.000
			24:COM11	20:COM7	20:COM7	28:COM15	28:COM15	-
			-10.545	-3.545	-2.434	-9.462	-3.505	-17.934
			18:COM5	30:COM17	30:COM17	22:COM9	22:COM9	35:CVOL4
	5863	-ve	5.020	6.190	4.329	1.783	4.009	0.000
			24:COM11	20:COM7	20:COM7	28:COM15	20:COM7	-
			-10.545	-4.446	-2.434	-9.462	-2.326	-28.131
			18:COM5	30:COM17	30:COM17	22:COM9	30:COM17	22:COM9

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
10015	4227	+ve	3.757	0.000	1.638	0.000	1.257	0.000
			28:COM15	-	20:COM7	-	28:COM15	-
			-8.174	-11.561	-1.274	-3.314	-1.892	-26.966
			22:COM9	18:COM5	30:COM17	22:COM9	22:COM9	22:COM9
	5862	-ve	3.757	0.000	1.638	0.000	1.149	12.342
			28:COM15	-	20:COM7	-	28:COM15	16:COM3
			-8.174	-12.829	-1.274	-3.314	-1.117	-12.304
			22:COM9	18:COM5	30:COM17	22:COM9	22:COM9	26:COM13
10016	4228	+ve	4.161	0.000	0.785	9.857	2.701	12.899
			28:COM15	-	28:COM15	20:COM7	20:COM7	16:COM3
			-11.386	-36.821	-2.826	-4.000	-0.601	-11.794
			22:COM9	22:COM9	22:COM9	30:COM17	30:COM17	26:COM13
	4014	-ve	4.161	0.000	0.785	9.857	0.940	68.266
			28:COM15	-	28:COM15	20:COM7	28:COM15	20:COM7
			-11.386	-38.170	-2.826	-4.000	-2.821	0.000
			22:COM9	22:COM9	22:COM9	30:COM17	22:COM9	-
10017	4224	+ve	9.328	5.259	0.628	0.278	0.179	8.606
			28:COM15	24:COM11	28:COM15	28:COM15	20:COM7	20:COM7
			-40.046	-7.689	-0.494	-0.271	-0.255	-3.804
			22:COM9	18:COM5	22:COM9	22:COM9	30:COM17	30:COM17
	4033	-ve	9.328	4.509	0.628	0.278	0.217	7.743
			28:COM15	24:COM11	28:COM15	28:COM15	28:COM15	20:COM7
			-40.046	-9.438	-0.494	-0.271	-0.191	-0.181
			22:COM9	18:COM5	22:COM9	22:COM9	22:COM9	30:COM17
10018	4225	+ve	9.252	4.538	0.286	0.129	0.172	11.655
			28:COM15	16:COM3	24:COM11	28:COM15	16:COM3	20:COM7
			-50.603	-0.896	-0.408	-0.150	-0.123	-2.439
			22:COM9	26:COM13	18:COM5	22:COM9	26:COM13	30:COM17
	4034	-ve	9.252	2.789	0.286	0.129	0.093	8.982
			28:COM15	16:COM3	24:COM11	28:COM15	28:COM15	20:COM7
			-50.603	-1.645	-0.408	-0.150	-0.135	-1.561
			22:COM9	26:COM13	18:COM5	22:COM9	22:COM9	30:COM17
10019	4226	+ve	8.852	3.283	0.453	0.168	0.055	4.098
			28:COM15	20:COM7	20:COM7	20:COM7	28:COM15	20:COM7
			-41.613	-6.268	-0.087	-0.025	-0.219	-0.172
			22:COM9	30:COM17	30:COM17	30:COM17	22:COM9	30:COM17
	4035	-ve	8.852	2.505	0.453	0.168	0.126	9.430
			28:COM15	28:COM15	20:COM7	20:COM7	20:COM7	20:COM7
			-41.613	-7.989	-0.087	-0.025	-0.015	-2.328
			22:COM9	22:COM9	30:COM17	30:COM17	30:COM17	30:COM17
10020	4227	+ve	13.933	3.561	0.694	0.196	0.092	16.095
			28:COM15	20:COM7	20:COM7	20:COM7	28:COM15	20:COM7
			-69.336	-2.160	-0.113	-0.025	-0.359	-4.236
			22:COM9	30:COM17	30:COM17	30:COM17	22:COM9	30:COM17
	4036	-ve	13.933	1.812	0.694	0.196	0.171	14.180
			28:COM15	20:COM7	20:COM7	20:COM7	20:COM7	20:COM7
			-69.336	-2.909	-0.113	-0.025	-0.004	-2.435
			22:COM9	30:COM17	30:COM17	30:COM17	30:COM17	30:COM17

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
10021	4228	+ve	7.809	13.949	0.557	0.322	0.418	20.642
			28:COM15	20:COM7	28:COM15	20:COM7	20:COM7	20:COM7
			-70.158	-7.388	-1.024	-0.447	-0.209	-5.101
			22:COM9	30:COM17	22:COM9	30:COM17	30:COM17	30:COM17
	4037	-ve	7.809	12.200	0.557	0.322	0.212	11.622
			28:COM15	20:COM7	28:COM15	20:COM7	20:COM7	20:COM7
			-70.158	-8.137	-1.024	-0.447	-0.353	-0.064
			22:COM9	30:COM17	22:COM9	30:COM17	30:COM17	30:COM17
10022	4024	+ve	4.136	10.955	0.004	0.177	0.008	15.229
			20:COM7	20:COM7	28:COM15	20:COM7	20:COM7	20:COM7
			-4.242	0.000	-0.005	-0.104	-0.007	0.000
			30:COM17	-	22:COM9	30:COM17	30:COM17	-
	4229	-ve	4.136	2.543	0.004	0.177	0.009	11.327
			20:COM7	28:COM15	28:COM15	20:COM7	28:COM15	28:COM15
			-4.242	-3.363	-0.005	-0.104	-0.012	-21.689
			30:COM17	22:COM9	22:COM9	30:COM17	22:COM9	22:COM9
10023	4025	+ve	2.479	9.307	0.004	0.289	0.010	14.490
			28:COM15	20:COM7	28:COM15	28:COM15	20:COM7	20:COM7
			-3.307	0.000	-0.005	-0.258	-0.007	0.000
			22:COM9	-	22:COM9	22:COM9	30:COM17	-
	4230	-ve	2.479	1.131	0.004	0.289	0.008	11.001
			28:COM15	28:COM15	28:COM15	28:COM15	28:COM15	28:COM15
			-3.307	-3.989	-0.005	-0.258	-0.012	-13.689
			22:COM9	22:COM9	22:COM9	22:COM9	22:COM9	22:COM9
10024	4026	+ve	1.052	10.696	0.014	0.268	0.015	15.322
			28:COM15	20:COM7	20:COM7	28:COM15	28:COM15	16:COM3
			-3.979	0.000	-0.009	-0.177	-0.024	0.000
			22:COM9	-	30:COM17	22:COM9	22:COM9	-
	4231	-ve	1.052	2.376	0.014	0.268	0.033	14.919
			28:COM15	28:COM15	20:COM7	28:COM15	20:COM7	20:COM7
			-3.979	-5.223	-0.009	-0.177	-0.023	-14.584
			22:COM9	22:COM9	30:COM17	22:COM9	30:COM17	30:COM17
10025	4232	+ve	23.726	2.635	1.424	0.000	1.394	50.905
			16:COM3	24:COM11	28:COM15	-	28:COM15	20:COM7
			-23.249	-10.428	-1.456	-5.730	-1.463	-28.342
			26:COM13	18:COM5	22:COM9	18:COM5	22:COM9	30:COM17
	4016	-ve	23.726	0.652	1.424	0.000	0.935	56.618
			16:COM3	24:COM11	28:COM15	-	28:COM15	20:COM7
			-23.249	-13.071	-1.456	-5.730	-1.058	-17.275
			26:COM13	18:COM5	22:COM9	18:COM5	22:COM9	30:COM17
10026	3941	+ve	17.597	40.758	0.063	1.690	0.068	84.286
			20:COM7	20:COM7	20:COM7	16:COM3	20:COM7	20:COM7
			-14.178	-19.455	-0.055	-0.483	-0.072	-52.381
			30:COM17	30:COM17	30:COM17	26:COM13	30:COM17	30:COM17
	4232	-ve	17.597	35.581	0.063	1.690	0.078	0.000
			20:COM7	20:COM7	20:COM7	16:COM3	20:COM7	-
			-14.178	-22.293	-0.055	-0.483	-0.064	-6.476
			30:COM17	30:COM17	30:COM17	26:COM13	30:COM17	18:COM5

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
10027	4172	+ve	7.539	16.999	0.107	0.659	0.107	16.478
			24:COM1	34:CVOL3	20:COM7	28:COM1	28:COM1	16:COM3
			-8.342	0.000	-0.150	-0.736	-0.045	-13.286
			18:COM5	-	30:COM1	22:COM9	22:COM9	26:COM1
	4171	-ve	7.539	13.182	0.107	0.659	0.183	0.000
			24:COM1	16:COM3	20:COM7	28:COM1	20:COM7	-
			-8.342	0.000	-0.150	-0.736	-0.206	-34.414
			18:COM5	-	30:COM1	22:COM9	30:COM1	18:COM5
10028	4171	+ve	6.240	13.615	6.484	4.722	4.151	0.000
			24:COM1	16:COM3	28:COM1	28:COM1	20:COM7	-
			-5.146	0.000	-8.631	-14.125	-3.150	-34.284
			18:COM5	-	22:COM9	22:COM9	30:COM1	18:COM5
	5860	-ve	6.240	12.072	6.484	4.722	3.137	0.000
			24:COM1	16:COM3	28:COM1	28:COM1	28:COM1	-
			-5.146	0.000	-8.631	-14.125	-4.217	-42.676
			18:COM5	-	22:COM9	22:COM9	22:COM9	22:COM9
10029	4170	+ve	10.726	5.734	0.398	1.093	0.486	0.000
			24:COM1	16:COM3	28:COM1	28:COM1	20:COM7	-
			-12.296	-1.516	-0.424	-2.273	-0.449	-45.935
			18:COM5	26:COM1	22:COM9	22:COM9	30:COM1	22:COM9
	4229	-ve	10.726	2.603	0.398	1.093	0.352	0.000
			24:COM1	24:COM1	28:COM1	28:COM1	28:COM1	-
			-12.296	-3.993	-0.424	-2.273	-0.369	-43.615
			18:COM5	18:COM5	22:COM9	22:COM9	22:COM9	22:COM9
10030	4229	+ve	14.919	4.654	0.117	3.572	0.096	0.000
			24:COM1	28:COM1	28:COM1	20:COM7	20:COM7	-
			-16.238	-13.421	-0.145	-1.990	-0.076	-50.995
			18:COM5	22:COM9	22:COM9	30:COM1	30:COM1	22:COM9
	4230	-ve	14.919	2.295	0.117	3.572	0.165	0.000
			24:COM1	28:COM1	28:COM1	20:COM7	28:COM1	-
			-16.238	-16.566	-0.145	-1.990	-0.199	-23.887
			18:COM5	22:COM9	22:COM9	30:COM1	22:COM9	18:COM5
10031	4230	+ve	13.335	3.102	7.976	9.155	3.123	0.000
			24:COM1	28:COM1	20:COM7	20:COM7	28:COM1	-
			-16.037	-20.231	-6.395	-10.262	-3.954	-24.113
			18:COM5	22:COM9	30:COM1	30:COM1	22:COM9	22:COM9
	5857	-ve	13.335	1.922	7.976	9.155	3.928	4.623
			24:COM1	28:COM1	20:COM7	20:COM7	20:COM7	24:COM1
			-16.037	-21.804	-6.395	-10.262	-3.197	-14.899
			18:COM5	22:COM9	30:COM1	30:COM1	30:COM1	18:COM5
10032	4231	+ve	20.983	4.588	0.315	4.456	0.150	20.475
			28:COM1	28:COM1	20:COM7	20:COM7	28:COM1	16:COM3
			-25.742	-36.346	-0.032	-1.327	-0.456	-4.802
			22:COM9	22:COM9	30:COM1	30:COM1	22:COM9	26:COM1
	4012	-ve	20.983	2.228	0.315	4.456	0.251	92.300
			28:COM1	28:COM1	20:COM7	20:COM7	16:COM3	20:COM7
			-25.742	-39.492	-0.032	-1.327	0.000	-8.419
			22:COM9	22:COM9	30:COM1	30:COM1	-	30:COM1

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
10033	4166	+ve	14.534	5.779	0.042	0.327	0.094	1.768
			28:COM15	16:COM3	24:COM11	16:COM3	20:COM7	24:COM11
			-14.685	0.000	-0.084	-0.324	-0.040	-10.950
			22:COM9	-	18:COM5	26:COM13	30:COM17	18:COM5
	4165	-ve	14.534	3.947	0.042	0.327	0.056	0.000
			28:COM15	16:COM3	24:COM11	16:COM3	24:COM11	-
			-14.685	-0.269	-0.084	-0.324	-0.085	-14.546
			22:COM9	26:COM13	18:COM5	26:COM13	18:COM5	18:COM5
10034	4165	+ve	14.953	2.429	0.067	0.085	0.067	0.000
			28:COM15	16:COM3	16:COM3	28:COM15	16:COM3	-
			-14.905	-0.813	-0.058	-0.133	-0.067	-14.511
			22:COM9	26:COM13	26:COM13	22:COM9	26:COM13	18:COM5
	4191	-ve	14.953	0.855	0.067	0.085	0.091	0.000
			28:COM15	24:COM11	16:COM3	28:COM15	16:COM3	-
			-14.905	-2.445	-0.058	-0.133	-0.075	-14.364
			22:COM9	18:COM5	26:COM13	22:COM9	26:COM13	35:CVOL4
10035	4191	+ve	12.180	0.000	0.085	0.241	0.032	0.000
			20:COM7	-	16:COM3	24:COM11	24:COM11	-
			-11.720	-3.528	-0.028	-0.326	-0.077	-14.346
			30:COM17	22:COM9	26:COM13	18:COM5	18:COM5	35:CVOL4
	4192	-ve	12.180	0.000	0.085	0.241	0.093	0.000
			20:COM7	-	16:COM3	24:COM11	16:COM3	-
			-11.720	-5.359	-0.028	-0.326	-0.025	-9.255
			30:COM17	22:COM9	26:COM13	18:COM5	26:COM13	22:COM9
10036	4192	+ve	8.215	0.000	0.068	0.359	0.008	0.000
			20:COM7	-	16:COM3	24:COM11	24:COM11	-
			-7.786	-5.770	-0.022	-0.552	-0.062	-9.132
			30:COM17	34:CVOL3	26:COM13	18:COM5	18:COM5	22:COM9
	4193	-ve	8.215	0.000	0.068	0.359	0.076	10.154
			20:COM7	-	16:COM3	24:COM11	16:COM3	20:COM7
			-7.786	-7.602	-0.022	-0.552	-0.039	-1.360
			30:COM17	34:CVOL3	26:COM13	18:COM5	26:COM13	30:COM17
10037	4193	+ve	2.491	0.000	0.036	0.777	0.092	10.106
			20:COM7	-	28:COM15	24:COM11	20:COM7	20:COM7
			-2.697	-7.567	-0.116	-0.784	-0.012	-1.258
			30:COM17	18:COM5	22:COM9	18:COM5	30:COM17	30:COM17
	4002	-ve	2.491	0.000	0.036	0.777	0.060	24.227
			20:COM7	-	28:COM15	24:COM11	28:COM15	20:COM7
			-2.697	-9.401	-0.116	-0.784	-0.139	0.000
			30:COM17	18:COM5	22:COM9	18:COM5	22:COM9	-
10040	4243	+ve	0.186	1.308	0.078	0.022	0.000	0.036
			28:COM15	35:CVOL4	20:COM7	24:COM11	-	24:COM11
			-0.505	0.000	0.000	-0.108	-0.056	-0.008
			22:COM9	-	-	18:COM5	22:COM9	18:COM5
	4246	-ve	0.186	0.000	0.078	0.022	0.051	0.248
			28:COM15	-	20:COM7	24:COM11	20:COM7	24:COM11
			-0.505	-1.087	0.000	-0.108	0.000	-0.528
			22:COM9	32:CVOL1	-	18:COM5	-	35:CVOL4

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
10041	4243	+ve	0.188	0.000	0.029	0.042	0.004	0.010
			24:COM1	-	16:COM3	16:COM3	24:COM1	24:COM1
			-0.573	-1.308	-0.003	-0.041	-0.034	-0.101
			18:COM5	35:CVOL4	26:COM1	26:COM1	18:COM5	18:COM5
	4249	-ve	0.188	0.000	0.029	0.042	0.032	5.283
			24:COM1	-	16:COM3	16:COM3	16:COM3	35:CVOL4
			-0.573	-3.488	-0.003	-0.041	-0.003	0.000
			18:COM5	33:CVOL2	26:COM1	26:COM1	26:COM1	-
10042	4190	+ve	0.950	5.993	0.092	3.028	0.061	8.247
			28:COM1	20:COM7	24:COM1	16:COM3	16:COM3	35:CVOL4
			-1.610	0.000	-0.115	-0.087	-0.045	0.000
			22:COM9	-	18:COM5	26:COM1	26:COM1	-
	4279	-ve	0.950	4.938	0.092	3.028	0.048	5.514
			28:COM1	20:COM7	24:COM1	16:COM3	16:COM3	16:COM3
			-1.610	0.000	-0.115	-0.087	-0.054	-0.120
			22:COM9	-	18:COM5	26:COM1	26:COM1	26:COM1
10043	4279	+ve	1.204	4.938	0.033	0.040	0.054	5.804
			28:COM1	20:COM7	28:COM1	24:COM1	20:COM7	16:COM3
			-2.083	0.000	-0.073	-2.425	-0.027	-0.143
			22:COM9	-	22:COM9	18:COM5	30:COM1	26:COM1
	4245	-ve	1.204	2.722	0.033	0.040	0.027	4.226
			28:COM1	20:COM7	28:COM1	24:COM1	28:COM1	24:COM1
			-2.083	-0.970	-0.073	-2.425	-0.065	-4.574
			22:COM9	30:COM1	22:COM9	18:COM5	22:COM9	18:COM5
10044	4244	+ve	2.372	8.683	0.031	2.546	0.048	6.769
			24:COM1	16:COM3	28:COM1	20:COM7	20:COM7	24:COM1
			-4.427	-3.704	-0.078	0.000	-0.021	-18.165
			18:COM5	26:COM1	22:COM9	-	30:COM1	18:COM5
	4282	-ve	2.372	6.821	0.031	2.546	0.022	0.000
			24:COM1	16:COM3	28:COM1	20:COM7	28:COM1	-
			-4.427	-5.100	-0.078	0.000	-0.059	-13.283
			18:COM5	26:COM1	22:COM9	-	22:COM9	22:COM9
10045	4245	+ve	0.114	0.063	0.030	0.078	0.093	0.000
			20:COM7	24:COM1	24:COM1	24:COM1	16:COM3	-
			-0.900	-2.168	-0.112	-0.248	-0.023	-2.789
			30:COM1	18:COM5	18:COM5	18:COM5	26:COM1	18:COM5
	4131	-ve	0.114	0.000	0.030	0.078	0.027	3.877
			20:COM7	-	24:COM1	24:COM1	24:COM1	20:COM7
			-0.900	-5.722	-0.112	-0.248	-0.093	0.000
			30:COM1	18:COM5	18:COM5	18:COM5	18:COM5	-
10046	4245	+ve	1.745	2.990	0.007	0.137	0.021	6.368
			28:COM1	20:COM7	16:COM3	24:COM1	16:COM3	16:COM3
			-2.764	0.000	-0.012	-0.685	-0.009	-4.241
			22:COM9	-	26:COM1	18:COM5	26:COM1	26:COM1
	4244	-ve	1.745	0.203	0.007	0.137	0.009	5.811
			28:COM1	20:COM7	16:COM3	24:COM1	20:COM7	28:COM1
			-2.764	-1.224	-0.012	-0.685	-0.009	-6.587
			22:COM9	30:COM1	26:COM1	18:COM5	30:COM1	22:COM9

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
10047	4246	+ve	1.235	0.000	0.253	1.111	0.273	0.175
			16:COM3	-	28:COM15	20:COM7	20:COM7	20:COM7
			-0.308	-4.515	-0.375	0.000	-0.279	-0.322
			26:COM13	33:CVOL2	22:COM9	-	30:COM17	30:COM17
	4247	-ve	1.235	0.000	0.253	1.111	0.189	10.385
			16:COM3	-	28:COM15	20:COM7	28:COM15	33:CVOL2
			-0.308	-6.994	-0.375	0.000	-0.418	0.000
			26:COM13	33:CVOL2	22:COM9	-	22:COM9	-
10048	4248	+ve	2.513	0.000	0.597	1.382	0.683	34.489
			16:COM3	-	20:COM7	24:COM11	20:COM7	35:CVOL4
			-1.983	-27.062	-1.029	-4.242	-0.276	0.000
			26:COM13	35:CVOL4	30:COM17	18:COM5	30:COM17	-
	3965	-ve	2.513	0.000	0.597	1.382	0.852	86.319
			16:COM3	-	20:COM7	24:COM11	20:COM7	35:CVOL4
			-1.983	-29.187	-1.029	-4.242	-1.241	0.000
			26:COM13	35:CVOL4	30:COM17	18:COM5	30:COM17	-
10049	4249	+ve	0.514	0.000	0.058	0.000	0.000	5.305
			24:COM11	-	35:CVOL4	-	-	35:CVOL4
			-1.278	-4.950	0.000	-0.211	-0.063	0.000
			18:COM5	18:COM5	-	22:COM9	34:CVOL3	-
	4250	-ve	0.514	0.000	0.058	0.000	0.046	15.920
			24:COM11	-	35:CVOL4	-	20:COM7	16:COM3
			-1.278	-6.661	0.000	-0.211	0.000	0.000
			18:COM5	18:COM5	-	22:COM9	-	-
10050	4250	+ve	1.342	0.000	0.010	0.237	0.065	16.013
			28:COM15	-	24:COM11	24:COM11	16:COM3	16:COM3
			-2.276	-7.082	-0.075	-0.508	-0.007	0.000
			22:COM9	18:COM5	18:COM5	18:COM5	26:COM13	-
	3999	-ve	1.342	0.000	0.010	0.237	0.015	30.625
			28:COM15	-	24:COM11	24:COM11	28:COM15	16:COM3
			-2.276	-8.794	-0.075	-0.508	-0.078	0.000
			22:COM9	18:COM5	18:COM5	18:COM5	22:COM9	-
10051	4249	+ve	0.604	1.556	0.036	0.026	0.000	0.304
			16:COM3	16:COM3	20:COM7	16:COM3	-	16:COM3
			-1.305	-0.291	0.000	-0.001	-0.025	-0.181
			26:COM13	26:COM13	-	26:COM13	18:COM5	26:COM13
	4247	-ve	0.604	0.000	0.036	0.026	0.021	1.159
			16:COM3	-	20:COM7	16:COM3	20:COM7	16:COM3
			-1.305	-2.326	0.000	-0.001	0.000	-0.169
			26:COM13	18:COM5	-	26:COM13	-	26:COM13
10052	4250	+ve	0.000	0.599	0.077	0.085	0.012	0.205
			-	24:COM11	20:COM7	16:COM3	28:COM15	24:COM11
			-4.711	-2.133	-0.019	-0.005	-0.049	-0.928
			18:COM5	18:COM5	30:COM17	26:COM13	22:COM9	18:COM5
	4248	-ve	0.000	0.000	0.077	0.085	0.047	3.407
			-	-	20:COM7	16:COM3	20:COM7	16:COM3
			-4.711	-4.799	-0.019	-0.005	-0.012	0.000
			18:COM5	18:COM5	30:COM17	26:COM13	30:COM17	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
10053	4251	+ve	2.475	0.000	0.844	2.354	0.324	0.637
			28:COM15	-	20:COM7	28:COM15	28:COM15	28:COM15
			-3.004	-8.941	-0.331	-3.931	-0.626	-1.539
			22:COM9	34:CVOL3	30:COM17	22:COM9	22:COM9	22:COM9
	4257	-ve	2.475	0.000	0.844	2.354	0.579	13.162
			28:COM15	-	20:COM7	28:COM15	20:COM7	34:CVOL3
			-3.004	-10.582	-0.331	-3.931	-0.152	0.000
			22:COM9	34:CVOL3	30:COM17	22:COM9	30:COM17	-
10054	4213	+ve	0.000	10.283	0.458	0.372	0.000	15.257
			-	35:CVOL4	34:CVOL3	28:COM15	-	20:COM7
			-11.501	0.000	0.000	-0.187	-0.360	0.000
			22:COM9	-	-	22:COM9	34:CVOL3	-
	4256	-ve	0.000	5.441	0.458	0.372	0.386	3.118
			-	35:CVOL4	34:CVOL3	28:COM15	34:CVOL3	20:COM7
			-11.501	0.000	0.000	-0.187	0.000	-0.084
			22:COM9	-	-	22:COM9	-	30:COM17
10055	4252	+ve	0.357	0.000	0.016	0.264	0.049	0.322
			28:COM15	-	28:COM15	20:COM7	20:COM7	20:COM7
			-0.445	-2.263	-0.043	-0.158	-0.015	-0.159
			22:COM9	34:CVOL3	22:COM9	30:COM17	30:COM17	30:COM17
	4255	-ve	0.357	0.000	0.016	0.264	0.021	7.398
			28:COM15	-	28:COM15	20:COM7	28:COM15	34:CVOL3
			-0.445	-4.177	-0.043	-0.158	-0.048	0.000
			22:COM9	34:CVOL3	22:COM9	30:COM17	22:COM9	-
10056	4251	+ve	0.401	5.165	0.034	0.201	0.060	4.083
			24:COM17	34:CVOL3	28:COM15	28:COM15	20:COM7	16:COM3
			-0.606	0.000	-0.048	-0.390	-0.044	0.000
			18:COM5	-	22:COM9	22:COM9	30:COM17	-
	4252	-ve	0.401	0.000	0.034	0.201	0.044	0.147
			24:COM17	-	28:COM15	28:COM15	28:COM15	20:COM7
			-0.606	-2.263	-0.048	-0.390	-0.062	-0.099
			18:COM5	34:CVOL3	22:COM9	22:COM9	22:COM9	30:COM17
10058	4253	+ve	4.665	1.619	0.034	1.052	0.040	3.853
			28:COM15	32:CVOL1	20:COM7	20:COM7	28:COM15	28:COM15
			-4.798	0.000	-0.024	-0.123	-0.067	-5.108
			22:COM9	-	30:COM17	30:COM17	22:COM9	22:COM9
	4251	-ve	4.665	0.000	0.034	1.052	0.061	5.772
			28:COM15	-	20:COM7	20:COM7	20:COM7	20:COM7
			-4.798	-4.051	-0.024	-0.123	-0.052	-1.567
			22:COM9	32:CVOL1	30:COM17	30:COM17	30:COM17	30:COM17
10059	4256	+ve	0.000	3.547	0.000	1.364	1.686	4.339
			-	35:CVOL4	-	28:COM15	34:CVOL3	20:COM7
			-16.181	0.000	-1.310	-2.132	0.000	-0.361
			34:CVOL3	-	34:CVOL3	22:COM9	-	30:COM17
	4294	-ve	0.000	0.000	0.000	1.364	0.000	2.560
			-	-	-	28:COM15	-	20:COM7
			-16.181	-1.746	-1.310	-2.132	-1.725	-1.996
			34:CVOL3	34:CVOL3	34:CVOL3	22:COM9	34:CVOL3	30:COM17

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
10060	4006	+ve	0.000	2.203	0.144	0.408	0.000	0.509
			-	20:COM7	34:CVOL3	20:COM7	-	34:CVOL3
			-0.861	0.000	0.000	0.000	-0.208	0.000
			22:COM9	-	-	-	34:CVOL3	-
	4256	-ve	0.000	0.000	0.144	0.408	0.177	2.290
			-	-	34:CVOL3	20:COM7	34:CVOL3	20:COM7
			-0.861	-2.499	0.000	0.000	0.000	-1.042
			22:COM9	22:COM9	-	-	-	30:COM1
10061	4254	+ve	0.000	6.873	0.000	0.047	0.018	6.817
			-	34:CVOL3	-	28:COM1	16:COM3	34:CVOL3
			-8.073	0.000	-0.015	-0.121	0.000	0.000
			22:COM9	-	22:COM9	22:COM9	-	-
	4077	-ve	0.000	0.736	0.000	0.047	0.000	0.000
			-	24:COM1	-	28:COM1	-	-
			-8.073	-0.691	-0.015	-0.121	-0.019	-1.437
			22:COM9	18:COM5	22:COM9	22:COM9	22:COM9	18:COM5
10062	4257	+ve	0.596	5.148	0.003	0.044	0.026	4.127
			28:COM1	34:CVOL3	28:COM1	28:COM1	20:COM7	20:COM7
			-3.807	0.000	-0.021	-0.126	-0.004	0.000
			22:COM9	-	22:COM9	22:COM9	30:COM1	-
	4255	-ve	0.596	0.021	0.003	0.044	0.004	0.206
			28:COM1	28:COM1	28:COM1	28:COM1	24:COM1	16:COM3
			-3.807	-2.023	-0.021	-0.126	-0.026	-0.401
			22:COM9	35:CVOL4	22:COM9	22:COM9	18:COM5	26:COM1
10063	4254	+ve	4.576	0.000	2.613	4.742	1.356	58.128
			16:COM3	-	16:COM3	20:COM7	24:COM1	34:CVOL3
			-2.541	-41.183	-1.510	-4.414	-2.212	0.000
			26:COM1	34:CVOL3	26:COM1	30:COM1	18:COM5	-
	3959	-ve	4.576	0.000	2.613	4.742	3.467	150.066
			16:COM3	-	16:COM3	20:COM7	16:COM3	34:CVOL3
			-2.541	-43.682	-1.510	-4.414	-1.932	0.000
			26:COM1	34:CVOL3	26:COM1	30:COM1	26:COM1	-
10064	4257	+ve	2.943	0.000	0.872	2.660	0.944	12.890
			20:COM7	-	24:COM1	28:COM1	16:COM3	34:CVOL3
			-2.930	-21.963	-1.081	-5.634	-0.738	0.000
			30:COM1	34:CVOL3	18:COM5	22:COM9	26:COM1	-
	4254	-ve	2.943	0.000	0.872	2.660	0.978	58.313
			20:COM7	-	24:COM1	28:COM1	24:COM1	34:CVOL3
			-2.930	-24.231	-1.081	-5.634	-1.183	0.000
			30:COM1	34:CVOL3	18:COM5	22:COM9	18:COM5	-
10065	4255	+ve	2.920	0.000	0.025	0.515	0.068	7.473
			20:COM7	-	24:COM1	20:COM7	16:COM3	34:CVOL3
			-2.760	-6.118	-0.071	-0.128	-0.022	0.000
			30:COM1	34:CVOL3	18:COM5	30:COM1	26:COM1	-
	4077	-ve	2.920	0.000	0.025	0.515	0.028	21.140
			20:COM7	-	24:COM1	20:COM7	24:COM1	34:CVOL3
			-2.760	-7.780	-0.071	-0.128	-0.072	0.000
			30:COM1	34:CVOL3	18:COM5	30:COM1	18:COM5	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
10067	4253	+ve	10.616	4.214	0.021	0.211	0.000	1.544
			20:COM7	35:CVOL4	20:COM7	20:COM7	-	20:COM7
			-4.502	0.000	0.000	-0.004	-0.041	-1.537
			30:COM1	-	-	30:COM1	22:COM9	30:COM1
	4257	-ve	10.616	0.000	0.021	0.211	0.034	4.302
			20:COM7	-	20:COM7	20:COM7	34:CVOL3	20:COM7
			-4.502	-6.233	0.000	-0.004	0.000	0.000
			30:COM1	34:CVOL3	-	30:COM1	-	-
10070	4260	+ve	10.699	7.138	3.561	11.916	4.290	14.872
			28:COM1	28:COM1	28:COM1	28:COM1	20:COM7	20:COM7
			-15.531	-42.869	-4.664	-26.684	-3.100	0.000
			22:COM9	22:COM9	22:COM9	22:COM9	30:COM1	-
	3946	-ve	10.699	5.224	3.561	11.916	4.783	112.563
			28:COM1	28:COM1	28:COM1	28:COM1	28:COM1	20:COM7
			-15.531	-45.421	-4.664	-26.684	-6.032	-11.262
			22:COM9	22:COM9	22:COM9	22:COM9	22:COM9	30:COM1
10075	4287	+ve	4.415	2.600	4.365	8.305	1.322	0.891
			16:COM3	28:COM1	16:COM3	16:COM3	28:COM1	24:COM1
			-3.334	-2.524	-2.937	-5.457	-1.924	-16.103
			26:COM1	22:COM9	26:COM1	26:COM1	22:COM9	18:COM5
	5869	-ve	4.415	1.470	4.365	8.305	2.267	2.933
			16:COM3	28:COM1	16:COM3	16:COM3	16:COM3	24:COM1
			-3.334	-4.032	-2.937	-5.457	-1.517	-16.968
			26:COM1	22:COM9	26:COM1	26:COM1	26:COM1	18:COM5
10076	4247	+ve	1.476	0.000	0.253	1.287	0.120	10.312
			16:COM3	-	20:COM7	16:COM3	28:COM1	33:CVOL2
			-0.983	-13.039	-0.206	-0.435	-0.261	0.000
			26:COM1	35:CVOL4	30:COM1	26:COM1	22:COM9	-
	4248	-ve	1.476	0.000	0.253	1.287	0.225	34.667
			16:COM3	-	20:COM7	16:COM3	28:COM1	35:CVOL4
			-0.983	-15.164	-0.206	-0.435	-0.279	0.000
			26:COM1	35:CVOL4	30:COM1	26:COM1	22:COM9	-
10077	4234	+ve	20.813	58.547	0.441	1.806	0.152	123.839
			20:COM7	20:COM7	16:COM3	28:COM1	24:COM1	20:COM7
			-11.163	0.000	-0.302	-43.260	-0.376	-1.450
			30:COM1	-	26:COM1	22:COM9	18:COM5	30:COM1
	4011	-ve	20.813	51.413	0.441	1.806	0.676	0.318
			20:COM7	20:COM7	16:COM3	28:COM1	16:COM3	28:COM1
			-11.163	0.000	-0.302	-43.260	-0.575	-21.382
			30:COM1	-	26:COM1	22:COM9	26:COM1	22:COM9
10078	3963	+ve	3.092	44.312	1.327	4.517	3.353	150.334
			20:COM7	34:CVOL3	24:COM1	28:COM1	16:COM3	34:CVOL3
			-1.984	0.000	-2.744	-4.076	-1.531	0.000
			30:COM1	-	18:COM5	22:COM9	26:COM1	-
	4275	-ve	3.092	41.944	1.327	4.517	1.207	61.763
			20:COM7	34:CVOL3	24:COM1	28:COM1	24:COM1	34:CVOL3
			-1.984	0.000	-2.744	-4.076	-2.293	0.000
			30:COM1	-	18:COM5	22:COM9	18:COM5	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
10079	4264	+ve	0.188	5.264	0.040	0.387	0.011	4.261
			28:COM15	34:CVOL3	20:COM7	20:COM7	28:COM15	16:COM3
			-0.533	0.000	-0.010	-0.272	-0.048	0.000
			22:COM9	-	30:COM17	30:COM17	22:COM9	-
	4263	-ve	0.188	0.000	0.040	0.387	0.055	0.127
			28:COM15	-	20:COM7	20:COM7	20:COM7	28:COM15
			-0.533	-2.272	-0.010	-0.272	-0.015	-0.112
			22:COM9	34:CVOL3	30:COM17	30:COM17	30:COM17	22:COM9
10082	4264	+ve	1.940	3.993	0.010	0.020	0.011	5.513
			28:COM15	32:CVOL1	20:COM7	28:COM15	28:COM15	20:COM7
			-4.450	0.000	-0.004	-1.219	-0.029	-2.462
			22:COM9	-	30:COM17	22:COM9	22:COM9	30:COM17
	5709	-ve	1.940	0.000	0.010	0.020	0.016	4.046
			28:COM15	-	20:COM7	28:COM15	20:COM7	28:COM15
			-4.450	-2.328	-0.004	-1.219	-0.011	-5.191
			22:COM9	32:CVOL1	30:COM17	22:COM9	30:COM17	22:COM9
10084	4267	+ve	6.923	0.000	0.200	1.519	0.172	6.208
			28:COM15	-	16:COM3	16:COM3	24:COM11	28:COM15
			-11.574	-9.519	-0.164	-0.436	-0.213	-15.808
			22:COM9	22:COM9	26:COM13	26:COM13	18:COM5	22:COM9
	4271	-ve	6.923	0.000	0.200	1.519	0.169	24.063
			28:COM15	-	16:COM3	16:COM3	16:COM3	20:COM7
			-11.574	-12.098	-0.164	-0.436	-0.143	-7.475
			22:COM9	22:COM9	26:COM13	26:COM13	26:COM13	30:COM17
10086	4099	+ve	0.453	4.242	0.037	0.196	0.000	7.638
			28:COM15	34:CVOL3	20:COM7	20:COM7	-	34:CVOL3
			-0.566	0.000	0.000	-0.251	-0.041	0.000
			22:COM9	-	-	30:COM17	22:COM9	-
	4263	-ve	0.453	2.272	0.037	0.196	0.045	0.322
			28:COM15	34:CVOL3	20:COM7	20:COM7	20:COM7	20:COM7
			-0.566	0.000	0.000	-0.251	0.000	-0.219
			22:COM9	-	-	30:COM17	-	30:COM17
10090	4271	+ve	3.495	10.704	0.082	0.000	0.062	19.288
			28:COM15	16:COM3	20:COM7	-	28:COM15	20:COM7
			-7.577	-2.823	-0.073	-1.752	-0.051	-6.314
			22:COM9	26:COM13	30:COM17	22:COM9	22:COM9	30:COM17
	4272	-ve	3.495	8.382	0.082	0.000	0.097	6.553
			28:COM15	16:COM3	20:COM7	-	16:COM3	20:COM7
			-7.577	-4.564	-0.073	-1.752	-0.071	-3.556
			22:COM9	26:COM13	30:COM17	22:COM9	26:COM13	30:COM17
10091	4272	+ve	1.491	5.567	0.086	1.033	0.078	6.341
			28:COM15	24:COM11	20:COM7	16:COM3	28:COM15	20:COM7
			-4.766	-7.028	-0.070	-0.356	-0.102	-3.554
			22:COM9	18:COM5	30:COM17	26:COM13	22:COM9	30:COM17
	5551	-ve	1.491	3.507	0.086	1.033	0.073	18.555
			28:COM15	24:COM11	20:COM7	16:COM3	20:COM7	16:COM3
			-4.766	-9.775	-0.070	-0.356	-0.064	-7.970
			22:COM9	18:COM5	30:COM17	26:COM13	30:COM17	26:COM13

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
10093	5486	+ve	7.313	0.000	0.609	10.424	0.223	0.000
			28:COM15	-	16:COM3	16:COM3	24:COM11	-
			-24.826	-23.048	-0.111	-3.686	-0.762	-14.948
			22:COM9	18:COM5	26:COM13	26:COM13	18:COM5	18:COM5
	5552	-ve	7.313	0.000	0.609	10.424	0.504	32.052
			28:COM15	-	16:COM3	16:COM3	16:COM3	16:COM3
			-24.826	-28.515	-0.111	-3.686	-0.147	0.000
			22:COM9	18:COM5	26:COM13	26:COM13	26:COM13	-
10094	5714	+ve	7.995	9.678	0.002	0.060	0.033	10.087
			20:COM7	35:CVOL4	24:COM11	28:COM15	16:COM3	20:COM7
			-8.611	0.000	-0.009	-0.318	-0.007	0.000
			30:COM17	-	18:COM5	22:COM9	26:COM13	-
	4275	-ve	7.995	0.000	0.002	0.060	0.004	11.606
			20:COM7	-	24:COM11	28:COM15	24:COM11	34:CVOL3
			-8.611	-10.161	-0.009	-0.318	-0.027	0.000
			30:COM17	34:CVOL3	18:COM5	22:COM9	18:COM5	-
10096	4274	+ve	1.673	10.549	0.217	4.915	0.460	13.731
			20:COM7	34:CVOL3	24:COM11	20:COM7	16:COM3	34:CVOL3
			-1.387	0.000	-0.499	-2.134	-0.151	0.000
			30:COM17	-	18:COM5	30:COM17	26:COM13	-
	4264	-ve	1.673	8.884	0.217	4.915	0.168	0.816
			20:COM7	34:CVOL3	24:COM11	20:COM7	24:COM11	20:COM7
			-1.387	0.000	-0.499	-2.134	-0.266	-1.183
			30:COM17	-	18:COM5	30:COM17	18:COM5	30:COM17
10097	4275	+ve	2.126	24.844	0.908	6.194	1.023	62.038
			20:COM7	34:CVOL3	16:COM3	20:COM7	16:COM3	34:CVOL3
			-1.738	0.000	-0.893	-2.329	-1.047	0.000
			30:COM17	-	26:COM13	30:COM17	26:COM13	-
	4274	-ve	2.126	22.477	0.908	6.194	0.826	13.459
			20:COM7	34:CVOL3	16:COM3	20:COM7	16:COM3	34:CVOL3
			-1.738	0.000	-0.893	-2.329	-0.819	0.000
			30:COM17	-	26:COM13	30:COM17	26:COM13	-
10100	4275	+ve	0.000	6.938	0.016	0.093	0.000	6.950
			-	34:CVOL3	20:COM7	20:COM7	-	34:CVOL3
			-8.589	0.000	0.000	-0.041	-0.019	0.000
			22:COM9	-	-	30:COM17	22:COM9	-
	4098	-ve	0.000	0.929	0.016	0.093	0.019	0.000
			-	28:COM15	20:COM7	20:COM7	20:COM7	-
			-8.589	-0.810	0.000	-0.041	0.000	-1.559
			22:COM9	22:COM9	-	30:COM17	-	22:COM9
10102	4274	+ve	1.203	5.174	0.026	0.121	0.010	4.447
			28:COM15	34:CVOL3	20:COM7	20:COM7	28:COM15	20:COM7
			-4.601	0.000	-0.007	-0.059	-0.032	0.000
			22:COM9	-	30:COM17	30:COM17	22:COM9	-
	4099	-ve	1.203	0.189	0.026	0.121	0.032	0.262
			28:COM15	28:COM15	20:COM7	20:COM7	20:COM7	16:COM3
			-4.601	-2.146	-0.007	-0.059	-0.008	-0.497
			22:COM9	22:COM9	30:COM17	30:COM17	30:COM17	26:COM13

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
10103	5709	+ve	12.235	5.004	0.000	0.000	0.042	1.914
			20:COM7	35:CVOL4	-	-	20:COM7	20:COM7
			-5.145	0.000	-0.020	-0.250	0.000	-1.256
			30:COM1	-	18:COM5	22:COM9	-	30:COM1
	4274	-ve	12.235	0.000	0.000	0.000	0.000	4.806
			20:COM7	-	-	-	-	20:COM7
			-5.145	-6.754	-0.020	-0.250	-0.038	0.000
			30:COM1	34:CVOL3	18:COM5	22:COM9	18:COM5	-
10107	4281	+ve	8.918	0.000	0.024	0.412	0.112	15.898
			16:COM3	-	24:COM1	20:COM7	16:COM3	16:COM3
			-4.672	-6.838	-0.104	0.000	-0.021	-10.798
			26:COM1	34:CVOL3	18:COM5	-	26:COM1	26:COM1
	4280	-ve	8.918	0.000	0.024	0.412	0.035	31.616
			16:COM3	-	24:COM1	20:COM7	24:COM1	16:COM3
			-4.672	-9.949	-0.104	0.000	-0.125	0.000
			26:COM1	34:CVOL3	18:COM5	-	18:COM5	-
10108	4282	+ve	4.535	3.578	0.000	1.093	0.028	0.000
			24:COM1	24:COM1	-	20:COM7	16:COM3	-
			-4.714	-6.911	-0.018	0.000	-0.001	-14.719
			18:COM5	18:COM5	22:COM9	-	26:COM1	18:COM5
	4281	-ve	4.535	0.094	0.000	1.093	0.000	16.802
			24:COM1	24:COM1	-	20:COM7	-	16:COM3
			-4.714	-11.556	-0.018	0.000	-0.037	-10.324
			18:COM5	18:COM5	22:COM9	-	22:COM9	26:COM1
10109	4280	+ve	2.750	10.201	0.017	0.408	0.042	31.837
			20:COM7	20:COM7	28:COM1	24:COM1	20:COM7	20:COM7
			-2.150	0.000	-0.021	-2.024	-0.028	0.000
			30:COM1	-	22:COM9	18:COM5	30:COM1	-
	4178	-ve	2.750	8.179	0.017	0.408	0.049	7.391
			20:COM7	20:COM7	28:COM1	24:COM1	28:COM1	28:COM1
			-2.150	0.000	-0.021	-2.024	-0.052	-18.141
			30:COM1	-	22:COM9	18:COM5	22:COM9	22:COM9
10110	4246	+ve	0.396	3.441	0.014	0.000	0.005	0.072
			28:COM1	33:CVOL2	20:COM7	-	28:COM1	28:COM1
			-2.954	0.000	-0.004	-0.555	-0.034	-1.461
			22:COM9	-	30:COM1	22:COM9	22:COM9	34:CVOL3
	4284	-ve	0.396	0.000	0.014	0.000	0.025	0.734
			28:COM1	-	20:COM7	-	20:COM7	24:COM1
			-2.954	-3.109	-0.004	-0.555	-0.012	-3.499
			22:COM9	32:CVOL1	30:COM1	22:COM9	30:COM1	18:COM5
10111	4283	+ve	5.108	5.255	0.042	0.000	0.062	14.265
			20:COM7	28:COM1	24:COM1	-	16:COM3	20:COM7
			-5.364	-6.018	-0.075	-1.014	-0.011	0.000
			30:COM1	22:COM9	18:COM5	22:COM9	26:COM1	-
	4285	-ve	5.108	3.824	0.042	0.000	0.051	14.221
			20:COM7	28:COM1	24:COM1	-	16:COM3	20:COM7
			-5.364	-7.925	-0.075	-1.014	-0.046	0.000
			30:COM1	22:COM9	18:COM5	22:COM9	26:COM1	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
10112	4284	+ve	3.210	0.000	0.019	0.000	0.044	0.436
			28:COM15	-	28:COM15	-	20:COM7	24:COM11
			-4.221	-6.770	-0.036	-1.054	-0.027	-4.154
			22:COM9	34:CVOL3	22:COM9	22:COM9	30:COM17	18:COM5
	4283	-ve	3.210	0.000	0.019	0.000	0.025	21.326
			28:COM15	-	28:COM15	-	28:COM15	16:COM3
			-4.221	-10.486	-0.036	-1.054	-0.054	0.000
			22:COM9	34:CVOL3	22:COM9	22:COM9	22:COM9	-
10113	4285	+ve	5.273	5.918	0.040	0.000	0.004	14.897
			28:COM15	28:COM15	16:COM3	-	24:COM11	20:COM7
			-7.580	-9.187	-0.000	-1.411	-0.062	0.000
			22:COM9	22:COM9	26:COM13	18:COM5	18:COM5	-
	4018	-ve	5.273	4.782	0.040	0.000	0.070	47.279
			28:COM15	28:COM15	16:COM3	-	16:COM3	20:COM7
			-7.580	-10.702	-0.000	-1.411	0.000	-13.126
			22:COM9	22:COM9	26:COM13	18:COM5	-	30:COM17
10114	4248	+ve	2.496	7.800	0.000	0.000	0.014	7.060
			16:COM3	35:CVOL4	-	-	20:COM7	35:CVOL4
			-0.598	0.000	-0.005	-0.135	0.000	0.000
			26:COM13	-	22:COM9	22:COM9	-	-
	4286	-ve	2.496	0.000	0.000	0.000	0.000	8.149
			16:COM3	-	-	-	-	34:CVOL3
			-0.598	-8.152	-0.005	-0.135	-0.014	0.000
			26:COM13	34:CVOL3	22:COM9	22:COM9	22:COM9	-
10115	4247	+ve	7.731	5.249	0.000	0.000	0.014	2.389
			34:CVOL3	35:CVOL4	-	-	20:COM7	35:CVOL4
			0.000	0.000	-0.008	-0.085	0.000	0.000
			-	-	22:COM9	18:COM5	-	-
	4284	-ve	7.731	0.000	0.000	0.000	0.000	0.836
			34:CVOL3	-	-	-	-	20:COM7
			0.000	-4.325	-0.008	-0.085	-0.015	-0.418
			-	34:CVOL3	22:COM9	18:COM5	22:COM9	30:COM17
10116	4283	+ve	1.031	0.000	2.225	11.039	0.304	5.620
			28:COM15	-	20:COM7	20:COM7	16:COM3	20:COM7
			-0.976	-15.000	-0.312	0.000	-0.029	0.000
			22:COM9	22:COM9	30:COM17	-	26:COM13	-
	4286	-ve	1.031	0.000	2.225	11.039	1.596	12.817
			28:COM15	-	20:COM7	20:COM7	20:COM7	20:COM7
			-0.976	-15.868	-0.312	0.000	-0.120	0.000
			22:COM9	22:COM9	30:COM17	-	30:COM17	-
10117	4286	+ve	0.718	4.897	0.000	0.000	0.168	3.711
			24:COM11	20:COM7	-	-	20:COM7	20:COM7
			-5.906	-0.025	-0.261	-0.334	0.000	-0.575
			18:COM5	30:COM17	22:COM9	22:COM9	-	30:COM17
	4285	-ve	0.718	2.267	0.000	0.000	0.000	0.445
			24:COM11	20:COM7	-	-	-	28:COM15
			-5.906	-1.434	-0.261	-0.334	-0.159	-0.881
			18:COM5	30:COM17	22:COM9	22:COM9	22:COM9	22:COM9

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
10118	4286	+ve	2.931	0.000	0.718	15.936	1.129	12.650
			16:COM3	-	28:COM15	20:COM7	20:COM7	20:COM7
			-0.278	-27.640	-1.277	0.000	-0.557	0.000
			26:COM13	22:COM9	22:COM9	-	30:COM17	-
	3956	-ve	2.931	0.000	0.718	15.936	0.743	64.532
			16:COM3	-	28:COM15	20:COM7	28:COM15	20:COM7
			-0.278	-30.128	-1.277	0.000	-1.175	0.000
			26:COM13	22:COM9	22:COM9	-	22:COM9	-
10119	4282	+ve	2.977	4.762	0.008	0.121	0.015	2.960
			28:COM15	20:COM7	28:COM15	20:COM7	20:COM7	20:COM7
			-12.853	0.000	-0.007	-0.082	-0.018	-1.064
			22:COM9	-	22:COM9	30:COM17	30:COM17	30:COM17
	4289	-ve	2.977	0.000	0.008	0.121	0.020	12.787
			28:COM15	-	28:COM15	20:COM7	28:COM15	20:COM7
			-12.853	-7.944	-0.007	-0.082	-0.018	0.000
			22:COM9	35:CVOL4	22:COM9	30:COM17	22:COM9	-
10120	4281	+ve	7.412	4.290	0.056	0.183	0.132	1.806
			24:COM17	24:COM11	24:COM11	24:COM17	16:COM3	24:COM17
			-23.416	-6.240	-0.138	-0.371	-0.053	-2.687
			18:COM5	18:COM5	18:COM5	18:COM5	26:COM13	18:COM5
	4288	-ve	7.412	2.381	0.056	0.183	0.055	13.130
			24:COM17	24:COM11	24:COM11	24:COM17	24:COM11	16:COM3
			-23.416	-10.314	-0.138	-0.371	-0.130	-4.568
			18:COM5	18:COM5	18:COM5	18:COM5	18:COM5	26:COM13
10121	4288	+ve	4.082	21.523	2.960	18.261	1.981	16.441
			24:COM17	34:CVOL3	28:COM15	16:COM3	28:COM15	20:COM7
			-7.283	0.000	-2.801	-3.947	-2.308	-6.636
			18:COM5	-	22:COM9	26:COM13	22:COM9	30:COM17
	4280	-ve	4.082	19.775	2.960	18.261	1.475	0.000
			24:COM17	34:CVOL3	28:COM15	16:COM3	28:COM15	-
			-7.283	0.000	-2.801	-3.947	-1.602	-26.154
			18:COM5	-	22:COM9	26:COM13	22:COM9	22:COM9
10122	4289	+ve	10.211	32.640	0.485	0.000	0.688	42.168
			20:COM7	24:COM11	24:COM11	-	16:COM3	28:COM15
			-10.159	-46.986	-0.846	-10.303	-0.384	-104.389
			30:COM17	18:COM5	18:COM5	22:COM9	26:COM13	22:COM9
	4288	-ve	10.211	30.679	0.485	0.000	0.569	121.797
			20:COM7	24:COM11	24:COM11	-	24:COM11	24:COM17
			-10.159	-49.602	-0.846	-10.303	-0.947	-152.576
			30:COM17	18:COM5	18:COM5	22:COM9	18:COM5	18:COM5
10123	4289	+ve	1.103	11.030	0.010	0.000	0.024	25.428
			24:COM17	16:COM3	28:COM15	-	20:COM7	20:COM7
			-1.868	0.000	-0.013	-0.266	-0.018	0.000
			18:COM5	-	22:COM9	18:COM5	30:COM17	-
	4287	-ve	1.103	2.354	0.010	0.000	0.022	7.644
			24:COM17	24:COM11	28:COM15	-	28:COM15	16:COM3
			-1.868	-3.271	-0.013	-0.266	-0.029	-7.429
			18:COM5	18:COM5	22:COM9	18:COM5	22:COM9	26:COM13

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
10124	4288	+ve	1.374	12.692	0.010	0.389	0.022	34.485
			28:COM15	20:COM7	28:COM15	28:COM15	20:COM7	20:COM7
			-1.934	0.000	-0.011	-0.883	-0.019	0.000
			22:COM9	-	22:COM9	22:COM9	30:COM17	-
	4178	-ve	1.374	3.346	0.010	0.389	0.025	5.730
			28:COM15	20:COM7	28:COM15	28:COM15	28:COM15	16:COM3
			-1.934	-0.522	-0.011	-0.883	-0.025	-4.215
			22:COM9	30:COM17	22:COM9	22:COM9	22:COM9	26:COM13
10463	4293	+ve	9.188	10.501	15.253	19.465	8.337	8.482
			24:COM17	28:COM15	28:COM15	28:COM15	20:COM7	20:COM7
			-13.084	-34.208	-21.439	-22.695	-6.650	-3.597
			18:COM5	22:COM9	22:COM9	22:COM9	30:COM17	30:COM17
	4260	-ve	9.188	10.063	15.253	19.465	1.204	14.976
			24:COM17	28:COM15	28:COM15	28:COM15	28:COM15	20:COM7
			-13.084	-34.792	-21.439	-22.695	-2.646	0.000
			18:COM5	22:COM9	22:COM9	22:COM9	22:COM9	-
10464	4253	+ve	16.383	0.000	0.042	2.306	0.018	5.615
			20:COM7	-	16:COM3	20:COM7	24:COM11	28:COM15
			-11.831	-5.029	-0.021	-0.838	-0.041	-7.633
			30:COM17	34:CVOL3	26:COM13	30:COM17	18:COM5	22:COM9
	4293	-ve	16.383	0.000	0.042	2.306	0.108	24.590
			20:COM7	-	16:COM3	20:COM7	16:COM3	20:COM7
			-11.831	-9.619	-0.021	-0.838	-0.059	0.000
			30:COM17	34:CVOL3	26:COM13	30:COM17	26:COM13	-
10466	4294	+ve	1.462	0.000	0.000	1.815	0.958	2.794
			20:COM7	-	-	20:COM7	34:CVOL3	20:COM7
			0.000	-1.746	-3.025	-1.504	0.000	-1.894
			-	34:CVOL3	34:CVOL3	30:COM17	-	30:COM17
	4296	-ve	1.462	0.000	0.000	1.815	0.000	4.244
			20:COM7	-	-	20:COM7	-	20:COM7
			0.000	-2.707	-3.025	-1.504	-1.178	-1.177
			-	34:CVOL3	34:CVOL3	30:COM17	34:CVOL3	30:COM17
10467	4295	+ve	2.926	0.000	1.042	3.257	0.443	34.785
			28:COM15	-	16:COM3	28:COM15	24:COM11	34:CVOL3
			-33.105	-21.259	-0.536	-3.613	-0.781	0.000
			22:COM9	22:COM9	26:COM13	22:COM9	18:COM5	-
	4017	-ve	2.926	0.000	1.042	3.257	1.121	75.253
			28:COM15	-	16:COM3	28:COM15	16:COM3	20:COM7
			-33.105	-23.741	-0.536	-3.613	-0.535	0.000
			22:COM9	22:COM9	26:COM13	22:COM9	26:COM13	-
10468	4073	+ve	4.132	9.890	0.000	0.376	0.063	24.090
			16:COM3	20:COM7	-	20:COM7	20:COM7	20:COM7
			-1.163	-0.036	-0.036	-0.209	0.000	-12.728
			26:COM13	30:COM17	22:COM9	30:COM17	-	30:COM17
	4295	-ve	4.132	1.934	0.000	0.376	0.002	2.268
			16:COM3	28:COM15	-	20:COM7	28:COM15	20:COM7
			-1.163	-6.346	-0.036	-0.209	-0.088	-2.148
			26:COM13	22:COM9	22:COM9	30:COM17	22:COM9	30:COM17

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
10469	4296	+ve	0.000	0.000	0.000	0.933	0.593	4.551
			-	-	-	20:COM7	34:CVOL3	20:COM7
			-8.303	-5.286	-0.641	-1.138	0.000	-1.478
			22:COM9	22:COM9	34:CVOL3	30:COM1	-	30:COM1
	4297	-ve	0.000	0.000	0.000	0.933	0.000	15.740
			-	-	-	20:COM7	-	34:CVOL3
			-8.303	-7.964	-0.641	-1.138	-0.668	0.000
			22:COM9	22:COM9	34:CVOL3	30:COM1	34:CVOL3	-
10470	4214	+ve	1.428	8.185	0.000	0.302	0.148	13.627
			20:COM7	35:CVOL4	-	28:COM1	34:CVOL3	20:COM7
			0.000	0.000	-0.078	-0.308	0.000	0.000
			-	-	34:CVOL3	22:COM9	-	-
	4296	-ve	1.428	0.033	0.000	0.302	0.000	0.365
			20:COM7	28:COM1	-	28:COM1	-	28:COM1
			0.000	-3.020	-0.078	-0.308	-0.168	-0.882
			-	22:COM9	34:CVOL3	22:COM9	34:CVOL3	22:COM9
10472	4297	+ve	0.000	0.000	0.000	1.012	0.610	15.707
			-	-	-	28:COM1	20:COM7	34:CVOL3
			-18.936	-12.696	-0.687	-1.490	0.000	0.000
			22:COM9	22:COM9	22:COM9	22:COM9	-	-
	4295	-ve	0.000	0.000	0.000	1.012	0.011	34.849
			-	-	-	28:COM1	28:COM1	34:CVOL3
			-18.936	-14.920	-0.687	-1.490	-0.513	0.000
			22:COM9	22:COM9	22:COM9	22:COM9	22:COM9	-
10475	4017	+ve	32.210	17.686	0.168	1.566	0.424	23.629
			20:COM7	28:COM1	24:COM1	20:COM7	16:COM3	20:COM7
			-25.761	-21.754	-0.319	-0.496	-0.231	-23.452
			30:COM1	22:COM9	18:COM5	30:COM1	26:COM1	30:COM1
	4293	-ve	32.210	14.401	0.168	1.566	0.235	43.575
			20:COM7	28:COM1	24:COM1	20:COM7	28:COM1	20:COM7
			-25.761	-27.110	-0.319	-0.496	-0.451	-20.658
			30:COM1	22:COM9	18:COM5	30:COM1	22:COM9	30:COM1
10493	4329	+ve	9.386	33.405	3.401	0.000	0.000	41.674
			20:COM7	34:CVOL3	34:CVOL3	-	-	34:CVOL3
			-3.560	0.000	0.000	-23.410	-3.999	0.000
			30:COM1	-	-	34:CVOL3	34:CVOL3	-
	4331	-ve	9.386	27.392	3.401	0.000	2.633	0.000
			20:COM7	20:COM7	34:CVOL3	-	34:CVOL3	-
			-3.560	0.000	0.000	-23.410	0.000	-18.275
			30:COM1	-	-	34:CVOL3	-	22:COM9
10494	4299	+ve	13.987	45.989	0.339	10.415	1.329	95.047
			16:COM3	34:CVOL3	28:COM1	34:CVOL3	20:COM7	34:CVOL3
			0.000	0.000	-0.863	0.000	0.000	0.000
			-	-	22:COM9	-	-	-
	4378	-ve	13.987	37.253	0.339	10.415	1.059	0.000
			16:COM3	34:CVOL3	28:COM1	34:CVOL3	20:COM7	-
			0.000	0.000	-0.863	0.000	-0.799	-2.763
			-	-	22:COM9	-	30:COM1	34:CVOL3

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
10495	4325	+ve	0.945	75.957	0.814	11.444	0.249	72.601
			28:COM15	20:COM7	20:COM7	20:COM7	28:COM15	20:COM7
			-17.872	-7.833	-0.120	-6.973	-0.623	0.000
			22:COM9	30:COM17	30:COM17	30:COM17	22:COM9	-
	4332	-ve	0.945	69.972	0.814	11.444	1.122	20.953
			28:COM15	20:COM7	20:COM7	20:COM7	20:COM7	28:COM15
			-17.872	-11.152	-0.120	-6.973	-0.142	-69.692
			22:COM9	30:COM17	30:COM17	30:COM17	30:COM17	22:COM9
10496	4326	+ve	5.228	56.479	0.306	4.758	0.495	45.968
			28:COM15	20:COM7	20:COM7	16:COM3	28:COM15	20:COM7
			-31.614	-31.614	-0.176	-4.694	-0.703	-24.085
			22:COM9	30:COM17	30:COM17	26:COM13	22:COM9	30:COM17
	4333	-ve	5.228	51.988	0.306	4.758	0.729	40.165
			28:COM15	20:COM7	20:COM7	16:COM3	20:COM7	28:COM15
			-31.614	-34.280	-0.176	-4.694	-0.682	-59.790
			22:COM9	30:COM17	30:COM17	26:COM13	30:COM17	22:COM9
10497	4327	+ve	4.457	50.029	0.578	10.739	0.299	40.825
			28:COM15	20:COM7	20:COM7	16:COM3	28:COM15	20:COM7
			-29.168	-36.922	-0.519	-8.906	-0.415	-28.141
			22:COM9	30:COM17	30:COM17	26:COM13	22:COM9	30:COM17
	4334	-ve	4.457	45.455	0.578	10.739	0.731	48.095
			28:COM15	28:COM15	20:COM7	16:COM3	20:COM7	20:COM7
			-29.168	-41.651	-0.519	-8.906	-0.730	-51.899
			22:COM9	22:COM9	30:COM17	26:COM13	30:COM17	30:COM17
10498	4328	+ve	12.086	83.609	0.546	8.102	0.527	69.366
			28:COM15	20:COM7	28:COM15	24:COM17	20:COM7	20:COM7
			-30.651	-50.470	-0.682	-9.156	-0.476	-38.752
			22:COM9	30:COM17	22:COM9	18:COM5	30:COM17	30:COM17
	4335	-ve	12.086	77.624	0.546	8.102	0.591	62.914
			28:COM15	20:COM7	28:COM15	24:COM17	28:COM15	28:COM15
			-30.651	-53.788	-0.682	-9.156	-0.805	-87.850
			22:COM9	30:COM17	22:COM9	18:COM5	22:COM9	22:COM9
10499	4312	+ve	9.759	0.000	4.767	0.000	0.389	1.425
			16:COM3	-	20:COM7	-	28:COM15	28:COM15
			-2.094	-31.046	-0.416	-15.407	-5.378	-21.634
			26:COM13	22:COM9	30:COM17	34:CVOL3	22:COM9	22:COM9
	4299	-ve	9.759	0.000	4.767	0.000	3.207	39.421
			16:COM3	-	20:COM7	-	20:COM7	20:COM7
			-2.094	-36.861	-0.416	-15.407	-0.378	0.000
			26:COM13	22:COM9	30:COM17	34:CVOL3	30:COM17	-
10500	4313	+ve	5.545	0.000	1.142	12.352	0.208	0.000
			28:COM15	-	20:COM7	20:COM7	28:COM15	-
			-16.686	-49.528	-0.106	-7.653	-0.921	-33.032
			22:COM9	22:COM9	30:COM17	30:COM17	22:COM9	22:COM9
	4300	-ve	5.545	0.000	1.142	12.352	1.370	61.230
			28:COM15	-	20:COM7	20:COM7	20:COM7	20:COM7
			-16.686	-55.343	-0.106	-7.653	-0.221	0.000
			22:COM9	22:COM9	30:COM17	30:COM17	30:COM17	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
10501	4314	+ve	5.060	0.000	0.162	4.934	0.168	0.000
			28:COM15	-	24:COM11	16:COM3	16:COM3	-
			-59.955	-75.475	-0.350	-4.089	-0.013	-53.946
			22:COM9	22:COM9	18:COM5	26:COM13	26:COM13	22:COM9
	4301	-ve	5.060	0.000	0.162	4.934	0.299	86.880
			28:COM15	-	24:COM11	16:COM3	24:COM11	20:COM7
			-59.955	-81.289	-0.350	-4.089	-0.482	0.000
			22:COM9	22:COM9	18:COM5	26:COM13	18:COM5	-
10502	4315	+ve	44.142	28.127	2.546	10.089	2.909	24.821
			28:COM15	28:COM15	28:COM15	24:COM17	20:COM7	28:COM15
			-89.861	-78.239	-2.975	-17.759	-2.501	-56.068
			22:COM9	22:COM9	22:COM9	18:COM5	30:COM17	22:COM9
	4302	-ve	44.142	24.844	2.546	10.089	2.085	89.715
			28:COM15	28:COM15	28:COM15	24:COM17	28:COM15	20:COM7
			-89.861	-84.053	-2.975	-17.759	-2.449	-22.785
			22:COM9	22:COM9	22:COM9	18:COM5	22:COM9	30:COM17
10503	4330	+ve	5.171	7.647	0.618	8.814	0.927	8.090
			28:COM15	20:COM7	24:COM11	24:COM17	16:COM3	16:COM3
			-12.009	0.000	-0.867	-13.134	-0.734	0.000
			22:COM9	-	18:COM5	18:COM5	26:COM13	-
	4336	-ve	5.171	2.289	0.618	8.814	0.472	2.383
			28:COM15	28:COM15	24:COM11	24:COM17	24:COM11	20:COM7
			-12.009	-1.229	-0.867	-13.134	-0.764	-2.930
			22:COM9	22:COM9	18:COM5	18:COM5	18:COM5	30:COM17
10504	4316	+ve	4.110	0.000	3.245	6.530	2.801	0.000
			28:COM15	-	16:COM3	16:COM3	24:COM11	-
			-12.387	-5.101	-3.094	-5.082	-3.082	-6.096
			22:COM9	18:COM5	26:COM13	26:COM13	18:COM5	22:COM9
	4303	-ve	4.110	0.000	3.245	6.530	2.781	9.683
			28:COM15	-	16:COM3	16:COM3	24:COM11	20:COM7
			-12.387	-11.482	-3.094	-5.082	-2.791	0.000
			22:COM9	34:CVOL3	26:COM13	26:COM13	18:COM5	-
10505	4313	+ve	72.026	60.140	2.888	5.595	1.726	174.107
			28:COM15	20:COM7	20:COM7	16:COM3	28:COM15	20:COM7
			-93.040	-1.780	-1.560	-1.575	-3.139	-40.183
			22:COM9	30:COM17	30:COM17	26:COM13	22:COM9	30:COM17
	4435	-ve	72.026	57.977	2.888	5.595	2.337	63.338
			28:COM15	20:COM7	20:COM7	16:COM3	20:COM7	20:COM7
			-93.040	-3.403	-1.560	-1.575	-1.260	-35.332
			22:COM9	30:COM17	30:COM17	26:COM13	30:COM17	30:COM17
10506	4317	+ve	21.724	15.896	0.665	5.331	1.201	17.951
			28:COM15	28:COM15	24:COM11	16:COM3	16:COM3	28:COM15
			-40.429	-51.462	-1.824	-1.149	-0.435	-39.868
			22:COM9	22:COM9	18:COM5	26:COM13	26:COM13	22:COM9
	4596	-ve	21.724	13.243	0.665	5.331	0.794	58.865
			28:COM15	28:COM15	24:COM11	16:COM3	24:COM11	20:COM7
			-40.429	-55.882	-1.824	-1.149	-2.160	-8.878
			22:COM9	22:COM9	18:COM5	26:COM13	18:COM5	30:COM17

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
10507	4329	+ve	38.044	48.675	0.000	2.994	3.167	156.338
			20:COM7	34:CVOL3	-	28:COM15	20:COM7	20:COM7
			0.000	0.000	-3.159	-9.559	-0.100	0.000
			-	-	22:COM9	22:COM9	30:COM17	-
	4492	-ve	38.044	46.389	0.000	2.994	0.000	71.044
			20:COM7	34:CVOL3	-	28:COM15	-	20:COM7
			0.000	0.000	-3.159	-9.559	-3.337	0.000
			-	-	22:COM9	22:COM9	22:COM9	-
10508	4325	+ve	15.723	44.786	2.424	0.642	1.098	138.379
			28:COM15	16:COM3	20:COM7	24:COM17	28:COM15	16:COM3
			-25.349	0.000	-0.847	-6.273	-2.759	0.000
			22:COM9	-	30:COM17	18:COM5	22:COM9	-
	4494	-ve	15.723	42.619	2.424	0.642	1.959	56.275
			28:COM15	16:COM3	20:COM7	24:COM17	20:COM7	16:COM3
			-25.349	0.000	-0.847	-6.273	-0.657	0.000
			22:COM9	-	30:COM17	18:COM5	30:COM17	-
10509	4326	+ve	48.121	42.577	0.904	10.354	0.699	141.373
			20:COM7	16:COM3	20:COM7	35:CVOL4	28:COM15	16:COM3
			-41.137	0.000	-0.213	0.000	-1.276	0.000
			30:COM17	-	30:COM17	-	22:COM9	-
	4500	-ve	48.121	40.299	0.904	10.354	0.855	59.516
			20:COM7	16:COM3	20:COM7	35:CVOL4	20:COM7	16:COM3
			-41.137	0.000	-0.213	0.000	-0.067	-17.990
			30:COM17	-	30:COM17	-	30:COM17	26:COM13
10510	4317	+ve	17.819	65.090	1.124	11.462	3.929	206.769
			24:COM17	34:CVOL3	28:COM15	32:CVOL1	20:COM7	16:COM3
			-36.032	0.000	-3.317	0.000	-1.452	0.000
			18:COM5	-	22:COM9	-	30:COM17	-
	4382	-ve	17.819	62.367	1.124	11.462	1.115	82.189
			24:COM17	34:CVOL3	28:COM15	32:CVOL1	28:COM15	16:COM3
			-36.032	0.000	-3.317	0.000	-2.953	-21.106
			18:COM5	-	22:COM9	-	22:COM9	26:COM13
10511	4314	+ve	22.087	73.316	0.299	19.250	0.871	239.946
			24:COM17	16:COM3	20:COM7	34:CVOL3	28:COM15	16:COM3
			-33.747	0.000	-0.716	0.000	-0.612	0.000
			18:COM5	-	30:COM17	-	22:COM9	-
	4388	-ve	22.087	70.586	0.299	19.250	0.437	98.023
			24:COM17	16:COM3	20:COM7	34:CVOL3	28:COM15	16:COM3
			-33.747	0.000	-0.716	0.000	-1.002	-25.479
			18:COM5	-	30:COM17	-	22:COM9	26:COM13
10512	4327	+ve	36.750	44.063	1.285	10.163	0.823	139.916
			28:COM15	16:COM3	20:COM7	16:COM3	28:COM15	16:COM3
			-43.121	0.000	-0.497	0.000	-1.683	-14.246
			22:COM9	-	30:COM17	-	22:COM9	26:COM13
	4506	-ve	36.750	41.786	1.285	10.163	0.907	55.208
			28:COM15	16:COM3	20:COM7	16:COM3	20:COM7	16:COM3
			-43.121	0.000	-0.497	0.000	-0.212	-26.712
			22:COM9	-	30:COM17	-	30:COM17	26:COM13

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
10513	4315	+ve	45.236	144.734	0.367	7.303	1.919	351.617
			24:COM1	16:COM3	28:COM1	20:COM7	20:COM7	16:COM3
			-57.959	-131.665	-1.434	0.000	-0.882	-345.672
			18:COM5	26:COM1	22:COM9	-	30:COM1	26:COM1
	4427	-ve	45.236	141.318	0.367	7.303	0.094	72.909
			24:COM1	16:COM3	28:COM1	20:COM7	24:COM1	24:COM1
			-57.959	-134.227	-1.434	0.000	-1.165	-86.870
			18:COM5	26:COM1	22:COM9	-	18:COM5	18:COM5
10514	4305	+ve	2.245	16.972	4.031	1.977	0.548	8.991
			24:COM1	16:COM3	20:COM7	28:COM1	28:COM1	16:COM3
			-24.371	-10.628	-0.046	-2.484	-0.940	-7.249
			18:COM5	26:COM1	30:COM1	22:COM9	22:COM9	26:COM1
	4429	-ve	2.245	15.779	4.031	1.977	1.983	0.868
			24:COM1	16:COM3	20:COM7	28:COM1	20:COM7	24:COM1
			-24.371	-11.523	-0.046	-2.484	0.000	-2.780
			18:COM5	26:COM1	30:COM1	22:COM9	-	18:COM5
10516	4306	+ve	14.873	14.044	2.436	1.545	2.443	26.640
			24:COM1	24:COM1	24:COM1	24:COM1	16:COM3	24:COM1
			-27.794	-25.894	-2.458	-11.559	-2.026	-32.432
			18:COM5	18:COM5	18:COM5	18:COM5	26:COM1	18:COM5
	4316	-ve	14.873	11.505	2.436	1.545	2.825	33.441
			24:COM1	24:COM1	24:COM1	24:COM1	16:COM3	16:COM3
			-27.794	-29.280	-2.458	-11.559	-2.452	-10.238
			18:COM5	18:COM5	18:COM5	18:COM5	26:COM1	26:COM1
10521	4312	+ve	0.000	77.906	1.718	6.084	3.441	116.616
			-	34:CVOL3	28:COM1	20:COM7	16:COM3	34:CVOL3
			-21.518	0.000	-2.310	0.000	-1.541	0.000
			18:COM5	-	22:COM9	-	26:COM1	-
	4414	-ve	0.000	75.088	1.718	6.084	2.137	0.000
			-	34:CVOL3	28:COM1	20:COM7	20:COM7	-
			-21.518	0.000	-2.310	0.000	-1.444	-39.164
			18:COM5	-	22:COM9	-	30:COM1	34:CVOL3
10522	4318	+ve	31.582	21.116	0.587	5.317	0.969	15.229
			28:COM1	28:COM1	28:COM1	20:COM7	20:COM7	28:COM1
			-33.774	-33.856	-0.867	0.000	-0.676	-23.340
			22:COM9	22:COM9	22:COM9	-	30:COM1	22:COM9
	4416	-ve	31.582	18.978	0.587	5.317	0.543	49.353
			28:COM1	28:COM1	28:COM1	20:COM7	28:COM1	20:COM7
			-33.774	-36.707	-0.867	0.000	-0.827	-26.086
			22:COM9	22:COM9	22:COM9	-	22:COM9	30:COM1
10523	4415	+ve	98.198	94.750	1.337	8.639	0.971	119.034
			28:COM1	20:COM7	20:COM7	28:COM1	28:COM1	20:COM7
			-106.547	-38.565	-0.541	-10.120	-1.735	-97.273
			22:COM9	30:COM1	30:COM1	22:COM9	22:COM9	30:COM1
	4418	-ve	98.198	92.000	1.337	8.639	1.182	0.000
			28:COM1	20:COM7	20:COM7	28:COM1	20:COM7	-
			-106.547	-40.628	-0.541	-10.120	-0.364	-66.561
			22:COM9	30:COM1	30:COM1	22:COM9	30:COM1	22:COM9

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
10524	4303	+ve	3.291	8.576	0.106	0.000	0.264	9.894
			16:COM3	15:COM2	24:COM11	33:CVOL2	16:COM3	15:COM2
			-0.073	0.000	-0.198	0.000	-0.075	0.000
			26:COM13	-	18:COM5	-	26:COM13	-
	4659	-ve	3.291	0.000	0.106	0.000	0.314	0.000
			16:COM3	33:CVOL2	24:COM11	33:CVOL2	24:COM11	34:CVOL3
			-0.073	0.000	-0.198	0.000	-0.337	-0.000
			26:COM13	-	18:COM5	-	18:COM5	33:CVOL2
10525	4328	+ve	18.623	38.971	0.953	5.445	0.411	106.489
			28:COM15	16:COM3	20:COM7	16:COM3	28:COM15	16:COM3
			-27.486	0.000	-0.292	-4.107	-1.176	-5.364
			22:COM9	-	30:COM17	26:COM13	22:COM9	26:COM13
	4512	-ve	18.623	36.697	0.953	5.445	0.741	31.929
			28:COM15	16:COM3	20:COM7	16:COM3	16:COM3	16:COM3
			-27.486	0.000	-0.292	-4.107	-0.202	-11.362
			22:COM9	-	30:COM17	26:COM13	26:COM13	26:COM13
10526	4331	+ve	2.465	12.642	0.000	1.675	1.490	14.898
			28:COM15	20:COM7	-	20:COM7	34:CVOL3	20:COM7
			-8.522	0.000	-0.349	-0.349	0.000	0.000
			22:COM9	-	22:COM9	30:COM17	-	-
	4337	-ve	2.465	4.969	0.000	1.675	0.785	0.390
			28:COM15	20:COM7	-	20:COM7	20:COM7	28:COM15
			-8.522	-0.527	-0.349	-0.349	0.000	-7.146
			22:COM9	30:COM17	22:COM9	30:COM17	-	22:COM9
10527	4332	+ve	26.951	47.674	0.327	3.672	0.176	59.755
			20:COM7	28:COM15	20:COM7	20:COM7	28:COM15	28:COM15
			0.000	-63.249	-0.219	-1.602	-0.669	-79.194
			-	22:COM9	30:COM17	30:COM17	22:COM9	22:COM9
	4338	-ve	26.951	43.419	0.327	3.672	0.380	88.521
			20:COM7	28:COM15	20:COM7	20:COM7	28:COM15	20:COM7
			0.000	-70.923	-0.219	-1.602	-0.603	-54.113
			-	22:COM9	30:COM17	30:COM17	22:COM9	30:COM17
10528	4333	+ve	17.503	59.391	0.393	1.388	0.093	73.205
			28:COM15	28:COM15	20:COM7	24:COM17	28:COM15	28:COM15
			-20.638	-82.580	-0.183	-1.427	-0.348	-107.073
			22:COM9	22:COM9	30:COM17	18:COM5	22:COM9	22:COM9
	4339	-ve	17.503	55.973	0.393	1.388	0.730	106.575
			28:COM15	28:COM15	20:COM7	24:COM17	20:COM7	20:COM7
			-20.638	-88.337	-0.183	-1.427	-0.458	-71.001
			22:COM9	22:COM9	30:COM17	18:COM5	30:COM17	30:COM17
10529	4334	+ve	16.248	70.533	0.248	1.004	0.382	86.265
			16:COM3	28:COM15	20:COM7	24:COM17	28:COM15	28:COM15
			0.000	-74.783	-0.177	-2.248	-0.415	-96.143
			-	22:COM9	30:COM17	18:COM5	22:COM9	22:COM9
	4340	-ve	16.248	66.278	0.248	1.004	0.347	100.408
			16:COM3	28:COM15	20:COM7	24:COM17	16:COM3	20:COM7
			0.000	-82.456	-0.177	-2.248	-0.202	-84.751
			-	22:COM9	30:COM17	18:COM5	26:COM13	30:COM17

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
10530	4335	+ve	27.204	95.177	0.144	1.522	0.368	116.512
			20:COM7	28:COM15	28:COM15	24:COM17	16:COM3	28:COM15
			-10.274	-122.312	-0.217	-2.269	-0.235	-154.027
			30:COM17	22:COM9	22:COM9	18:COM5	26:COM13	22:COM9
	4341	-ve	27.204	90.922	0.144	1.522	0.264	161.356
			20:COM7	28:COM15	28:COM15	24:COM17	28:COM15	20:COM7
			-10.274	-129.986	-0.217	-2.269	-0.313	-116.122
			30:COM17	22:COM9	22:COM9	18:COM5	22:COM9	30:COM17
10531	4336	+ve	0.000	5.385	0.109	0.603	0.261	3.966
			-	20:COM7	24:COM11	24:COM17	16:COM3	20:COM7
			-10.574	0.000	-0.192	-0.900	-0.146	0.000
			22:COM9	-	18:COM5	18:COM5	26:COM13	-
	4342	-ve	0.000	0.000	0.109	0.603	0.137	3.163
			-	-	24:COM11	24:COM17	24:COM11	20:COM7
			-10.574	-4.552	-0.192	-0.900	-0.230	-0.769
			22:COM9	22:COM9	18:COM5	18:COM5	18:COM5	30:COM17
10532	4337	+ve	5.984	16.476	0.000	16.359	3.449	13.806
			24:COM17	20:COM7	-	34:CVOL3	20:COM7	20:COM7
			-8.415	-4.556	-5.060	0.000	0.000	-1.785
			18:COM5	30:COM17	22:COM9	-	-	30:COM17
	4312	-ve	5.984	11.412	0.000	16.359	0.000	8.061
			24:COM17	20:COM7	-	34:CVOL3	-	28:COM15
			-8.415	-7.364	-5.060	0.000	-4.932	-9.213
			18:COM5	30:COM17	22:COM9	-	22:COM9	22:COM9
10533	4338	+ve	5.101	34.177	0.269	9.706	1.728	44.098
			28:COM15	20:COM7	24:COM11	28:COM15	16:COM3	20:COM7
			-6.176	-32.019	-1.800	-14.390	-0.207	-33.650
			22:COM9	30:COM17	18:COM5	22:COM9	26:COM13	30:COM17
	4313	-ve	5.101	30.976	0.269	9.706	0.286	24.983
			28:COM15	28:COM15	24:COM11	28:COM15	24:COM11	20:COM7
			-6.176	-36.691	-1.800	-14.390	-1.292	-11.600
			22:COM9	22:COM9	18:COM5	22:COM9	18:COM5	30:COM17
10534	4339	+ve	5.355	60.707	2.511	1.357	1.383	66.481
			28:COM15	20:COM7	20:COM7	24:COM17	28:COM15	20:COM7
			-35.289	-46.800	-1.870	-9.159	-2.049	-44.930
			22:COM9	30:COM17	30:COM17	18:COM5	22:COM9	30:COM17
	4317	-ve	5.355	56.907	2.511	1.357	2.116	34.975
			28:COM15	20:COM7	20:COM7	24:COM17	20:COM7	20:COM7
			-35.289	-49.056	-1.870	-9.159	-1.725	-31.373
			22:COM9	30:COM17	30:COM17	18:COM5	30:COM17	30:COM17
10535	4340	+ve	0.000	38.144	0.709	4.952	0.516	46.235
			-	28:COM15	16:COM3	24:COM17	24:COM11	28:COM15
			-24.425	-52.598	-0.523	-7.034	-0.668	-49.077
			22:COM9	22:COM9	26:COM13	18:COM5	18:COM5	22:COM9
	4314	-ve	0.000	35.336	0.709	4.952	0.514	41.891
			-	28:COM15	16:COM3	24:COM17	16:COM3	20:COM7
			-24.425	-57.663	-0.523	-7.034	-0.360	-14.388
			22:COM9	22:COM9	26:COM13	18:COM5	26:COM13	30:COM17

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
10536	4341	+ve	0.000	66.936	0.649	20.954	0.639	76.207
			-	20:COM7	24:COM11	16:COM3	24:COM11	20:COM7
			-24.402	-60.520	-0.791	-11.348	-0.617	-60.867
			18:COM5	30:COM17	18:COM5	26:COM13	18:COM5	30:COM17
	4315	-ve	0.000	62.207	0.649	20.954	0.558	44.233
			-	28:COM15	24:COM11	16:COM3	28:COM15	20:COM7
			-24.402	-63.664	-0.791	-11.348	-0.771	-32.984
			18:COM5	22:COM9	18:COM5	26:COM13	22:COM9	30:COM17
10537	4342	+ve	5.200	3.072	4.128	5.221	3.317	1.606
			24:COM17	24:COM11	24:COM11	24:COM17	16:COM3	24:COM17
			-14.711	-5.267	-4.533	-7.304	-3.234	-3.398
			18:COM5	18:COM5	18:COM5	18:COM5	26:COM13	18:COM5
	4316	-ve	5.200	0.264	4.128	5.221	3.587	9.642
			24:COM17	24:COM11	24:COM11	24:COM17	24:COM11	16:COM3
			-14.711	-10.331	-4.533	-7.304	-4.174	-1.318
			18:COM5	18:COM5	18:COM5	18:COM5	18:COM5	26:COM13
10548	4364	+ve	0.000	0.514	0.160	0.355	0.000	0.086
			-	32:CVOL1	34:CVOL3	35:CVOL4	-	28:COM15
			-6.035	-1.379	0.000	0.000	-0.234	-0.315
			34:CVOL3	35:CVOL4	-	-	34:CVOL3	22:COM9
	4365	-ve	0.000	0.000	0.160	0.355	0.257	10.217
			-	-	34:CVOL3	35:CVOL4	34:CVOL3	32:CVOL1
			-6.035	-7.198	0.000	0.000	0.000	0.000
			34:CVOL3	32:CVOL1	-	-	-	-
10549	4364	+ve	1.898	1.379	4.955	0.374	0.000	0.304
			34:CVOL3	35:CVOL4	34:CVOL3	35:CVOL4	-	20:COM7
			0.000	-0.514	0.000	-0.029	-0.198	0.000
			-	32:CVOL1	-	30:COM17	34:CVOL3	-
	4582	-ve	1.898	1.162	4.955	0.374	0.813	0.315
			34:CVOL3	35:CVOL4	34:CVOL3	35:CVOL4	34:CVOL3	32:CVOL1
			0.000	-0.767	0.000	-0.029	0.000	-0.002
			-	32:CVOL1	-	30:COM17	-	30:COM17
10550	4359	+ve	0.000	14.459	0.000	1.064	0.562	52.246
			-	34:CVOL3	-	20:COM7	34:CVOL3	20:COM7
			-17.595	0.000	-0.494	-0.176	0.000	0.000
			22:COM9	-	34:CVOL3	30:COM17	-	-
	4546	-ve	0.000	12.353	0.000	1.064	0.000	26.522
			-	34:CVOL3	-	20:COM7	-	20:COM7
			-17.595	0.000	-0.494	-0.176	-0.419	0.000
			22:COM9	-	34:CVOL3	30:COM17	34:CVOL3	-
10551	4358	+ve	6.615	11.338	0.152	1.206	0.024	28.759
			28:COM15	20:COM7	20:COM7	16:COM3	28:COM15	35:CVOL4
			-13.453	0.000	-0.003	0.000	-0.178	0.000
			22:COM9	-	30:COM17	-	22:COM9	-
	4552	-ve	6.615	9.341	0.152	1.206	0.111	15.965
			28:COM15	20:COM7	20:COM7	16:COM3	20:COM7	16:COM3
			-13.453	0.000	-0.003	0.000	0.000	0.000
			22:COM9	-	30:COM17	-	-	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
10552	4359	+ve	13.623	0.000	0.000	8.273	8.648	0.000
			20:COM7	-	-	20:COM7	34:CVOL3	-
			-0.606	-24.738	-5.032	-4.599	0.000	-1.809
			30:COM1	34:CVOL3	34:CVOL3	30:COM1	-	34:CVOL3
	4329	-ve	13.623	0.000	0.000	8.273	0.000	90.291
			20:COM7	-	-	20:COM7	-	34:CVOL3
			-0.606	-35.577	-5.032	-4.599	-6.719	0.000
			30:COM1	34:CVOL3	34:CVOL3	30:COM1	34:CVOL3	-
10553	4358	+ve	8.891	0.000	0.244	4.147	0.339	0.000
			20:COM7	-	28:COM1	28:COM1	20:COM7	-
			-1.951	-21.697	-0.262	-2.084	-0.299	-2.787
			30:COM1	35:CVOL4	22:COM9	22:COM9	30:COM1	35:CVOL4
	4325	-ve	8.891	0.000	0.244	4.147	0.452	80.026
			20:COM7	-	28:COM1	28:COM1	28:COM1	35:CVOL4
			-1.951	-32.536	-0.262	-2.084	-0.470	0.000
			30:COM1	35:CVOL4	22:COM9	22:COM9	22:COM9	-
10554	4365	+ve	1.490	10.636	0.007	0.107	0.000	12.424
			24:COM1	34:CVOL3	16:COM3	20:COM7	-	32:CVOL1
			-1.190	0.000	-0.003	-0.079	-0.031	0.000
			18:COM5	-	26:COM1	30:COM1	18:COM5	-
	4366	-ve	1.490	0.000	0.007	0.107	0.012	16.388
			24:COM1	-	16:COM3	20:COM7	24:COM1	34:CVOL3
			-1.190	-12.059	-0.003	-0.079	-0.019	0.000
			18:COM5	34:CVOL3	26:COM1	30:COM1	18:COM5	-
10555	4329	+ve	192.762	94.689	1.053	4.431	4.370	417.400
			34:CVOL3	34:CVOL3	24:COM1	28:COM1	16:COM3	34:CVOL3
			0.000	0.000	-3.373	-1.997	-0.560	0.000
			-	-	18:COM5	22:COM9	26:COM1	-
	4514	-ve	192.762	91.864	1.053	4.431	1.559	265.089
			34:CVOL3	34:CVOL3	24:COM1	28:COM1	16:COM3	34:CVOL3
			0.000	0.000	-3.373	-1.997	-1.538	0.000
			-	-	18:COM5	22:COM9	26:COM1	-
10556	4366	+ve	0.497	5.091	0.203	0.000	0.005	4.146
			24:COM1	34:CVOL3	20:COM7	-	28:COM1	34:CVOL3
			-0.556	0.000	0.000	-0.730	-0.074	0.000
			18:COM5	-	-	34:CVOL3	22:COM9	-
	4367	-ve	0.497	0.833	0.203	0.000	0.187	0.576
			24:COM1	33:CVOL2	20:COM7	-	34:CVOL3	34:CVOL3
			-0.556	0.000	0.000	-0.730	0.000	0.000
			18:COM5	-	-	34:CVOL3	-	-
10567	4366	+ve	7.992	0.000	0.000	11.258	3.560	0.000
			16:COM3	-	-	34:CVOL3	34:CVOL3	-
			0.000	-17.150	-3.001	0.000	0.000	-4.598
			-	34:CVOL3	34:CVOL3	-	-	34:CVOL3
	4575	-ve	7.992	0.000	0.000	11.258	0.000	32.899
			16:COM3	-	-	34:CVOL3	-	34:CVOL3
			0.000	-21.209	-3.001	0.000	-2.422	0.000
			-	34:CVOL3	34:CVOL3	-	22:COM9	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
10568	4360	+ve	27.864	8.858	0.102	0.876	0.053	37.886
			20:COM7	35:CVOL4	20:COM7	16:COM3	28:COM15	16:COM3
			-23.017	0.000	-0.024	0.000	-0.120	0.000
			30:COM17	-	30:COM17	-	22:COM9	-
	4520	-ve	27.864	7.014	0.102	0.876	0.089	22.961
			20:COM7	35:CVOL4	20:COM7	16:COM3	16:COM3	16:COM3
			-23.017	0.000	-0.024	0.000	-0.001	-5.046
			30:COM17	-	30:COM17	-	26:COM13	26:COM13
10569	4361	+ve	19.225	8.089	0.149	1.010	0.036	27.870
			28:COM15	16:COM3	20:COM7	16:COM3	28:COM15	16:COM3
			-24.121	0.000	-0.024	-0.198	-0.167	0.000
			22:COM9	-	30:COM17	26:COM13	22:COM9	-
	4526	-ve	19.225	6.256	0.149	1.010	0.132	19.095
			28:COM15	16:COM3	20:COM7	16:COM3	16:COM3	16:COM3
			-24.121	0.000	-0.024	-0.198	-0.016	-7.234
			22:COM9	-	30:COM17	26:COM13	26:COM13	26:COM13
10570	4362	+ve	8.373	11.363	0.110	0.255	0.044	23.524
			28:COM15	16:COM3	16:COM3	20:COM7	24:COM11	35:CVOL4
			-14.178	0.000	-0.048	-0.045	-0.115	0.000
			22:COM9	-	26:COM13	30:COM17	18:COM5	-
	4529	-ve	8.373	9.532	0.110	0.255	0.102	11.526
			28:COM15	16:COM3	16:COM3	20:COM7	16:COM3	16:COM3
			-14.178	0.000	-0.048	-0.045	-0.052	-1.508
			22:COM9	-	26:COM13	30:COM17	26:COM13	26:COM13
10571	4363	+ve	2.353	3.795	0.384	10.002	0.219	0.662
			24:COM17	24:COM11	16:COM3	24:COM17	16:COM3	24:COM17
			-1.876	-21.241	-0.330	-18.110	-0.024	-1.366
			18:COM5	18:COM5	26:COM13	18:COM5	26:COM13	18:COM5
	4330	-ve	2.353	1.667	0.384	10.002	0.567	27.627
			24:COM17	24:COM11	16:COM3	24:COM17	16:COM3	16:COM3
			-1.876	-25.079	-0.330	-18.110	-0.305	-2.784
			18:COM5	18:COM5	26:COM13	18:COM5	26:COM13	26:COM13
10572	4362	+ve	2.313	0.000	0.559	11.990	0.517	0.000
			20:COM7	-	28:COM15	16:COM3	16:COM3	-
			-1.237	-18.107	-0.701	-9.911	-0.394	-1.130
			30:COM17	18:COM5	22:COM9	26:COM13	26:COM13	22:COM9
	4328	-ve	2.313	0.000	0.559	11.990	0.504	24.555
			20:COM7	-	28:COM15	16:COM3	28:COM15	16:COM3
			-1.237	-21.944	-0.701	-9.911	-0.558	0.000
			30:COM17	18:COM5	22:COM9	26:COM13	22:COM9	-
10573	4361	+ve	3.235	0.000	0.500	16.830	0.375	0.000
			20:COM7	-	16:COM3	16:COM3	24:COM11	-
			-1.909	-15.119	-0.506	-13.801	-0.498	-1.535
			30:COM17	35:CVOL4	26:COM13	26:COM13	18:COM5	35:CVOL4
	4327	-ve	3.235	0.000	0.500	16.830	0.349	20.146
			20:COM7	-	16:COM3	16:COM3	28:COM15	35:CVOL4
			-1.909	-19.557	-0.506	-13.801	-0.479	0.000
			30:COM17	35:CVOL4	26:COM13	26:COM13	22:COM9	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
10574	4360	+ve	5.160	0.000	1.721	5.637	0.836	0.000
			28:COM15	-	20:COM7	24:COM11	28:COM15	-
			-6.784	-19.494	-1.302	-8.413	-1.028	-1.183
			22:COM9	18:COM5	30:COM17	18:COM5	22:COM9	22:COM9
	4326	-ve	5.160	0.000	1.721	5.637	1.133	26.043
			28:COM15	-	20:COM7	24:COM11	20:COM7	16:COM3
			-6.784	-23.332	-1.302	-8.413	-0.801	0.000
			22:COM9	18:COM5	30:COM17	18:COM5	30:COM17	-
10575	4368	+ve	0.296	3.123	0.000	0.026	0.130	0.217
			28:COM15	34:CVOL3	-	16:COM3	16:COM3	34:CVOL3
			-0.620	0.000	-0.159	-0.101	0.000	0.000
			22:COM9	-	22:COM9	26:COM13	-	-
	4369	-ve	0.296	0.000	0.000	0.026	0.000	0.166
			28:COM15	-	-	16:COM3	28:COM15	24:COM11
			-0.620	-1.575	-0.159	-0.101	-0.082	-1.067
			22:COM9	32:CVOL1	22:COM9	26:COM13	22:COM9	34:CVOL3
10576	4369	+ve	0.614	7.569	0.002	0.770	0.013	0.596
			28:COM15	34:CVOL3	24:COM11	34:CVOL3	20:COM7	32:CVOL1
			-2.667	0.000	-0.003	0.000	-0.006	-1.734
			22:COM9	-	18:COM5	-	30:COM17	35:CVOL4
	4370	-ve	0.614	0.000	0.002	0.770	0.009	19.130
			28:COM15	-	24:COM11	34:CVOL3	24:COM11	34:CVOL3
			-2.667	-13.659	-0.003	0.000	-0.010	0.000
			22:COM9	34:CVOL3	18:COM5	-	18:COM5	-
10577	4330	+ve	5.235	76.327	2.149	4.223	1.196	140.897
			28:COM15	16:COM3	16:COM3	16:COM3	24:COM11	16:COM3
			-7.168	-48.077	-1.172	0.000	-2.083	-80.590
			22:COM9	26:COM13	26:COM13	-	18:COM5	26:COM13
	4531	-ve	5.235	74.385	2.149	4.223	1.545	14.249
			28:COM15	16:COM3	16:COM3	16:COM3	16:COM3	16:COM3
			-7.168	-49.533	-1.172	0.000	-0.788	0.000
			22:COM9	26:COM13	26:COM13	-	26:COM13	-
10578	4363	+ve	2.576	12.137	0.097	0.625	0.070	28.223
			24:COM11	16:COM3	16:COM3	16:COM3	24:COM11	16:COM3
			-3.557	-6.839	-0.067	0.000	-0.090	-6.651
			18:COM5	26:COM13	26:COM13	-	18:COM5	26:COM13
	4573	-ve	2.576	10.574	0.097	0.625	0.074	11.014
			24:COM11	16:COM3	16:COM3	16:COM3	16:COM3	34:CVOL3
			-3.557	-8.011	-0.067	0.000	-0.043	0.000
			18:COM5	26:COM13	26:COM13	-	26:COM13	-
10579	4370	+ve	2.154	6.002	0.008	1.463	0.004	12.628
			24:COM11	32:CVOL1	20:COM7	34:CVOL3	24:COM11	34:CVOL3
			-3.802	0.000	0.000	0.000	-0.026	0.000
			18:COM5	-	-	-	18:COM5	-
	4661	-ve	2.154	0.000	0.008	1.463	0.020	5.690
			24:COM11	-	20:COM7	34:CVOL3	16:COM3	34:CVOL3
			-3.802	-3.153	0.000	0.000	-0.001	0.000
			18:COM5	32:CVOL1	-	-	26:COM13	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
10580	4316	+ve	34.959	113.276	0.798	8.255	1.497	196.249
			16:COM3	16:COM3	28:COM15	16:COM3	20:COM7	16:COM3
			-28.351	-76.332	-1.639	0.000	-0.565	-143.032
			26:COM13	26:COM13	22:COM9	-	30:COM17	26:COM13
	4431	-ve	34.959	110.948	0.798	8.255	0.802	9.806
			16:COM3	16:COM3	28:COM15	16:COM3	24:COM11	24:COM11
			-28.351	-78.078	-1.639	0.000	-1.285	-15.302
			26:COM13	26:COM13	22:COM9	-	18:COM5	18:COM5
10581	4372	+ve	18.873	19.547	0.048	1.515	0.055	47.638
			28:COM15	34:CVOL3	28:COM15	24:COM11	20:COM7	20:COM7
			-41.234	0.000	-0.096	-1.613	-0.044	0.000
			22:COM9	-	22:COM9	18:COM5	30:COM17	-
	4534	-ve	18.873	15.980	0.048	1.515	0.059	15.372
			28:COM15	34:CVOL3	28:COM15	24:COM11	28:COM15	20:COM7
			-41.234	0.000	-0.096	-1.613	-0.139	-9.164
			22:COM9	-	22:COM9	18:COM5	22:COM9	30:COM17
10587	4300	+ve	9.664	55.734	0.404	32.109	0.311	118.792
			28:COM15	34:CVOL3	20:COM7	20:COM7	28:COM15	34:CVOL3
			-10.916	0.000	-0.265	-25.377	-0.661	0.000
			22:COM9	-	30:COM17	30:COM17	22:COM9	-
	4371	-ve	9.664	46.990	0.404	32.109	0.344	0.000
			28:COM15	34:CVOL3	20:COM7	20:COM7	28:COM15	-
			-10.916	0.000	-0.265	-25.377	-0.369	-2.325
			22:COM9	-	30:COM17	30:COM17	22:COM9	22:COM9
10588	4301	+ve	6.875	60.975	0.144	10.886	0.391	129.990
			20:COM7	34:CVOL3	24:COM11	24:COM11	16:COM3	34:CVOL3
			-1.174	0.000	-0.212	-25.581	-0.221	0.000
			30:COM17	-	18:COM5	18:COM5	26:COM13	-
	4373	-ve	6.875	52.244	0.144	10.886	0.157	0.000
			20:COM7	34:CVOL3	24:COM11	24:COM11	20:COM7	-
			-1.174	0.000	-0.212	-25.581	-0.147	-2.976
			30:COM17	-	18:COM5	18:COM5	30:COM17	34:CVOL3
10590	4373	+ve	14.421	28.151	0.006	0.000	0.108	74.848
			28:COM15	34:CVOL3	24:COM11	-	16:COM3	34:CVOL3
			-21.783	0.000	-0.101	-1.149	-0.017	0.000
			22:COM9	-	18:COM5	18:COM5	26:COM13	-
	4536	-ve	14.421	24.529	0.006	0.000	0.000	28.054
			28:COM15	34:CVOL3	24:COM11	-	-	16:COM3
			-21.783	0.000	-0.101	-1.149	-0.097	0.000
			22:COM9	-	18:COM5	18:COM5	18:COM5	-
10592	4378	+ve	8.828	18.657	0.188	0.000	0.026	53.407
			28:COM15	34:CVOL3	16:COM3	-	24:COM11	34:CVOL3
			-28.152	0.000	0.000	-0.803	-0.142	0.000
			22:COM9	-	-	34:CVOL3	18:COM5	-
	4539	-ve	8.828	15.351	0.188	0.000	0.210	23.512
			28:COM15	34:CVOL3	16:COM3	-	20:COM7	20:COM7
			-28.152	0.000	0.000	-0.803	0.000	0.000
			22:COM9	-	-	34:CVOL3	-	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
10593	4382	+ve	19.369	46.316	0.710	6.961	2.272	82.082
			24:COM1	16:COM3	28:COM1	32:CVOL1	16:COM3	16:COM3
			-40.768	0.000	-1.827	0.000	-0.713	-21.057
			18:COM5	-	22:COM9	-	26:COM1	26:COM1
	4383	-ve	19.369	43.593	0.710	6.961	0.773	8.185
			24:COM1	16:COM3	28:COM1	32:CVOL1	28:COM1	24:COM1
			-40.768	0.000	-1.827	0.000	-1.412	-55.998
			18:COM5	-	22:COM9	-	22:COM9	18:COM5
10594	4371	+ve	36.886	18.622	0.066	0.000	0.052	46.343
			28:COM1	34:CVOL3	20:COM7	-	28:COM1	34:CVOL3
			-41.727	0.000	-0.034	-2.280	-0.088	0.000
			22:COM9	-	30:COM1	22:COM9	22:COM9	-
	4542	-ve	36.886	15.168	0.066	0.000	0.057	19.079
			28:COM1	34:CVOL3	20:COM7	-	16:COM3	16:COM3
			-41.727	0.000	-0.034	-2.280	-0.033	-0.195
			22:COM9	-	30:COM1	22:COM9	26:COM1	26:COM1
10595	4379	+ve	24.590	13.488	16.239	12.510	7.789	20.423
			28:COM1	24:COM11	24:COM11	16:COM3	20:COM7	20:COM7
			-62.824	-20.585	-41.094	-10.946	-3.128	-12.021
			22:COM9	18:COM5	18:COM5	26:COM1	30:COM1	30:COM1
	4372	-ve	24.590	13.167	16.239	12.510	3.229	26.815
			28:COM1	24:COM11	24:COM11	16:COM3	24:COM11	20:COM7
			-62.824	-21.012	-41.094	-10.946	-6.370	-16.068
			22:COM9	18:COM5	18:COM5	26:COM1	18:COM5	30:COM1
10597	4559	+ve	11.316	0.000	0.078	0.602	0.001	23.219
			24:COM1	-	16:COM3	16:COM3	24:COM11	16:COM3
			-17.740	-28.130	-0.001	-0.258	-0.076	0.000
			18:COM5	34:CVOL3	26:COM1	26:COM1	18:COM5	-
	4594	-ve	11.316	0.000	0.078	0.602	0.081	77.718
			24:COM1	-	16:COM3	16:COM3	16:COM3	34:CVOL3
			-17.740	-31.753	-0.001	-0.258	-0.005	0.000
			18:COM5	34:CVOL3	26:COM1	26:COM1	26:COM1	-
10598	4383	+ve	20.372	28.052	0.246	2.565	0.818	8.258
			24:COM1	16:COM3	24:COM11	32:CVOL1	16:COM3	24:COM1
			-41.872	0.000	-0.526	-0.678	-0.377	-55.955
			18:COM5	-	18:COM5	22:COM9	26:COM1	18:COM5
	4384	-ve	20.372	25.329	0.246	2.565	0.447	0.000
			24:COM1	16:COM3	24:COM11	32:CVOL1	20:COM7	-
			-41.872	0.000	-0.526	-0.678	-0.557	-79.909
			18:COM5	-	18:COM5	22:COM9	30:COM1	34:CVOL3
10599	4384	+ve	21.017	10.571	0.189	1.337	0.675	0.000
			24:COM1	16:COM3	24:COM11	24:COM1	20:COM7	-
			-42.065	-6.907	-0.406	-3.294	-0.353	-79.706
			18:COM5	26:COM1	18:COM5	18:COM5	30:COM1	34:CVOL3
	4385	-ve	21.017	7.849	0.189	1.337	0.401	0.000
			24:COM1	16:COM3	24:COM11	24:COM1	28:COM1	-
			-42.065	-8.949	-0.406	-3.294	-0.506	-81.389
			18:COM5	26:COM1	18:COM5	18:COM5	22:COM9	34:CVOL3

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
10600	4385	+ve	21.619	0.904	0.225	0.001	0.663	0.000
			24:COM1	24:COM11	24:COM11	24:COM1	20:COM7	-
			-41.816	-23.485	-0.433	-4.074	-0.356	-81.345
			18:COM5	18:COM5	18:COM5	18:COM5	30:COM1	34:CVOL3
	4386	-ve	21.619	0.000	0.225	0.001	0.445	5.775
			24:COM1	-	24:COM11	24:COM1	28:COM15	24:COM1
			-41.816	-26.208	-0.433	-4.074	-0.548	-61.652
			18:COM5	18:COM5	18:COM5	18:COM5	22:COM9	18:COM5
10601	4386	+ve	22.419	0.000	0.749	0.000	0.922	5.716
			24:COM1	-	24:COM11	-	16:COM3	24:COM1
			-41.434	-41.132	-0.898	-6.078	-0.687	-61.645
			18:COM5	18:COM5	18:COM5	32:CVOL1	26:COM13	18:COM5
	4387	-ve	22.419	0.000	0.749	0.000	0.850	72.539
			24:COM1	-	24:COM11	-	24:COM11	16:COM3
			-41.434	-43.855	-0.898	-6.078	-0.909	-27.923
			18:COM5	18:COM5	18:COM5	32:CVOL1	18:COM5	26:COM13
10602	4387	+ve	24.924	0.000	1.192	0.000	2.751	72.467
			24:COM1	-	28:COM15	-	20:COM7	16:COM3
			-37.941	-58.980	-2.894	-8.939	-1.461	-28.030
			18:COM5	18:COM5	22:COM9	32:CVOL1	30:COM1	26:COM13
	4314	-ve	24.924	0.000	1.192	0.000	0.972	191.142
			24:COM1	-	28:COM15	-	24:COM11	16:COM3
			-37.941	-61.703	-2.894	-8.939	-3.032	0.000
			18:COM5	18:COM5	22:COM9	32:CVOL1	18:COM5	-
10603	4388	+ve	21.771	54.694	0.009	14.723	1.290	97.772
			24:COM1	16:COM3	24:COM11	34:CVOL3	20:COM7	16:COM3
			-38.526	0.000	-0.931	0.000	-0.123	-25.501
			18:COM5	-	18:COM5	-	30:COM1	26:COM13
	4389	-ve	21.771	51.964	0.009	14.723	0.115	10.285
			24:COM1	16:COM3	24:COM11	34:CVOL3	28:COM15	24:COM1
			-38.526	0.000	-0.931	0.000	-0.767	-69.145
			18:COM5	-	18:COM5	-	22:COM9	18:COM5
10604	4389	+ve	22.623	35.620	0.234	9.310	0.661	10.229
			24:COM1	16:COM3	28:COM15	34:CVOL3	20:COM7	24:COM1
			-39.287	0.000	-0.393	0.000	-0.516	-69.377
			18:COM5	-	22:COM9	-	30:COM1	18:COM5
	4390	-ve	22.623	32.890	0.234	9.310	0.147	0.000
			24:COM1	16:COM3	28:COM15	34:CVOL3	28:COM15	-
			-39.287	0.000	-0.393	0.000	-0.316	-102.761
			18:COM5	-	22:COM9	-	22:COM9	34:CVOL3
10605	4390	+ve	23.076	16.403	0.820	2.288	0.487	0.000
			24:COM1	16:COM3	16:COM3	16:COM3	28:COM15	-
			-39.512	-4.969	-0.353	-2.105	-0.965	-102.972
			18:COM5	26:COM13	26:COM13	26:COM13	22:COM9	34:CVOL3
	4391	-ve	23.076	13.672	0.820	2.288	0.759	0.000
			24:COM1	16:COM3	16:COM3	16:COM3	16:COM3	-
			-39.512	-7.016	-0.353	-2.105	-0.316	-115.322
			18:COM5	26:COM13	26:COM13	26:COM13	26:COM13	34:CVOL3

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
10606	4391	+ve	26.512	0.000	0.436	0.000	1.286	0.000
			24:COM1	-	24:COM1	-	20:COM7	-
			-42.395	-34.286	-0.925	-8.002	-0.784	-116.201
			18:COM5	18:COM5	18:COM5	22:COM9	30:COM1	34:CVOL3
	4392	-ve	26.512	0.000	0.436	0.000	0.145	0.000
			24:COM1	-	24:COM1	-	24:COM1	-
			-42.395	-37.016	-0.925	-8.002	-0.607	-70.631
			18:COM5	18:COM5	18:COM5	22:COM9	18:COM5	18:COM5
10607	4392	+ve	28.052	0.000	1.357	0.000	0.860	0.000
			24:COM1	-	20:COM7	-	28:COM1	-
			-42.990	-53.767	-0.886	-16.770	-1.222	-70.361
			18:COM5	18:COM5	30:COM1	34:CVOL3	22:COM9	18:COM5
	4393	-ve	28.052	0.000	1.357	0.000	1.466	85.379
			24:COM1	-	20:COM7	-	20:COM7	16:COM3
			-42.990	-56.497	-0.886	-16.770	-0.899	-19.643
			18:COM5	18:COM5	30:COM1	34:CVOL3	30:COM1	26:COM1
10608	4393	+ve	32.537	0.000	5.364	0.000	4.292	85.652
			24:COM1	-	28:COM1	-	20:COM7	16:COM3
			-42.629	-73.676	-5.568	-22.631	-4.362	-19.499
			18:COM5	34:CVOL3	22:COM9	34:CVOL3	30:COM1	26:COM1
	4315	-ve	32.537	0.000	5.364	0.000	6.241	231.723
			24:COM1	-	28:COM1	-	28:COM1	16:COM3
			-42.629	-76.406	-5.568	-22.631	-6.715	0.000
			18:COM5	34:CVOL3	22:COM9	34:CVOL3	22:COM9	-
10629	4414	+ve	21.701	5.700	2.106	3.287	0.000	6.398
			20:COM7	20:COM7	20:COM7	20:COM7	-	16:COM3
			-20.227	-0.060	-0.017	0.000	-2.870	0.000
			30:COM1	30:COM1	30:COM1	-	22:COM9	-
	4318	-ve	21.701	3.061	2.106	3.287	1.179	4.843
			20:COM7	20:COM7	20:COM7	20:COM7	20:COM7	20:COM7
			-20.227	-2.040	-0.017	0.000	-0.528	-4.022
			30:COM1	30:COM1	30:COM1	-	30:COM1	30:COM1
10631	4416	+ve	56.880	125.339	0.000	4.338	1.139	52.370
			28:COM1	28:COM1	-	20:COM7	20:COM7	20:COM7
			-60.132	-237.125	-1.830	0.000	-0.401	-25.614
			22:COM9	22:COM9	22:COM9	-	30:COM1	30:COM1
	5734	-ve	56.880	124.581	0.000	4.338	0.718	225.835
			28:COM1	28:COM1	-	20:COM7	28:COM1	20:COM7
			-60.132	-238.135	-1.830	0.000	-1.356	-116.831
			22:COM9	22:COM9	22:COM9	-	22:COM9	30:COM1
10632	4417	+ve	79.047	33.245	0.733	3.371	0.609	70.157
			28:COM1	28:COM1	28:COM1	28:COM1	20:COM7	28:COM1
			-87.924	-69.574	-1.130	-21.275	-0.558	-110.214
			22:COM9	22:COM9	22:COM9	22:COM9	30:COM1	22:COM9
	4313	-ve	79.047	31.177	0.733	3.371	0.939	200.475
			28:COM1	28:COM1	28:COM1	28:COM1	28:COM1	20:COM7
			-87.924	-72.332	-1.130	-21.275	-1.680	-163.329
			22:COM9	22:COM9	22:COM9	22:COM9	22:COM9	30:COM1

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
10633	4418	+ve	85.726	42.544	0.323	4.207	1.146	0.000
			28:COM15	28:COM15	28:COM15	28:COM15	20:COM7	-
			-94.087	-50.802	-1.041	-9.011	-0.153	-46.060
			22:COM9	22:COM9	22:COM9	22:COM9	30:COM17	34:CVOL3
	4417	-ve	85.726	40.476	0.323	4.207	0.541	70.927
			28:COM15	28:COM15	28:COM15	28:COM15	28:COM15	28:COM15
			-94.087	-53.559	-1.041	-9.011	-0.980	-110.638
			22:COM9	22:COM9	22:COM9	22:COM9	22:COM9	22:COM9
10640	4425	+ve	11.717	74.816	2.209	0.000	0.000	81.300
			24:COM17	16:COM3	16:COM3	-	-	16:COM3
			-36.203	-58.924	-0.176	-6.160	-1.685	-63.876
			18:COM5	26:COM13	26:COM13	22:COM9	18:COM5	26:COM13
	4305	-ve	11.717	72.595	2.209	0.000	1.204	13.015
			24:COM17	16:COM3	16:COM3	-	16:COM3	24:COM17
			-36.203	-60.590	-0.176	-6.160	-0.292	-13.500
			18:COM5	26:COM13	26:COM13	22:COM9	26:COM13	18:COM5
10641	4426	+ve	65.527	124.726	0.003	1.616	2.029	206.263
			24:COM17	24:COM11	28:COM15	28:COM15	20:COM7	16:COM3
			-85.347	-173.744	-2.621	-13.631	-0.499	-183.849
			18:COM5	18:COM5	22:COM9	22:COM9	30:COM17	26:COM13
	5382	-ve	65.527	123.559	0.003	1.616	0.000	363.320
			24:COM17	24:COM11	28:COM15	28:COM15	-	16:COM3
			-85.347	-175.301	-2.621	-13.631	-0.792	-295.566
			18:COM5	18:COM5	22:COM9	22:COM9	22:COM9	26:COM13
10642	4427	+ve	50.698	131.728	0.396	6.852	1.997	73.594
			24:COM17	24:COM11	28:COM15	20:COM7	20:COM7	24:COM17
			-69.356	-147.092	-1.429	-4.010	-0.643	-87.809
			18:COM5	18:COM5	22:COM9	30:COM17	30:COM17	18:COM5
	4426	-ve	50.698	129.166	0.396	6.852	0.255	206.095
			24:COM17	24:COM11	28:COM15	20:COM7	24:COM11	16:COM3
			-69.356	-150.508	-1.429	-4.010	-0.941	-184.065
			18:COM5	18:COM5	22:COM9	30:COM17	18:COM5	26:COM13
10643	4428	+ve	42.831	10.396	2.779	1.582	2.148	3.825
			24:COM17	16:COM3	16:COM3	28:COM15	24:COM11	24:COM17
			-61.720	-7.563	-1.948	-3.013	-3.469	-6.889
			18:COM5	26:COM13	26:COM13	22:COM9	18:COM5	18:COM5
	4306	-ve	42.831	7.303	2.779	1.582	2.194	12.126
			24:COM17	24:COM11	16:COM3	28:COM15	16:COM3	24:COM17
			-61.720	-10.636	-1.948	-3.013	-1.822	-14.680
			18:COM5	18:COM5	26:COM13	22:COM9	26:COM13	18:COM5
10644	4429	+ve	4.935	6.450	0.173	4.672	1.312	4.497
			24:COM17	16:COM3	24:COM11	20:COM7	20:COM7	16:COM3
			-27.991	-2.471	-1.503	-0.023	0.000	-1.485
			18:COM5	26:COM13	18:COM5	30:COM17	-	26:COM13
	4428	-ve	4.935	3.202	0.173	4.672	0.482	6.233
			24:COM17	24:COM11	24:COM11	20:COM7	24:COM11	16:COM3
			-27.991	-5.190	-1.503	-0.023	-1.696	-5.183
			18:COM5	18:COM5	18:COM5	30:COM17	18:COM5	26:COM13

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
10646	4435	+ve	72.943	43.154	4.581	2.724	2.878	63.395
			28:COM1	20:COM7	20:COM7	28:COM1	28:COM1	20:COM7
			-97.098	-9.316	-4.181	-3.401	-3.503	-35.380
			22:COM9	30:COM1	30:COM1	22:COM9	22:COM9	30:COM1
	4436	-ve	72.943	40.558	4.581	2.724	5.182	0.000
			28:COM1	20:COM7	20:COM7	28:COM1	20:COM7	-
			-97.098	-11.262	-4.181	-3.401	-5.055	-27.277
			22:COM9	30:COM1	30:COM1	22:COM9	30:COM1	18:COM5
10647	4436	+ve	67.793	26.193	2.180	1.857	3.629	0.000
			28:COM1	20:COM7	28:COM1	28:COM1	20:COM7	-
			-93.858	-18.454	-2.342	-5.905	-3.509	-27.505
			22:COM9	30:COM1	22:COM9	22:COM9	30:COM1	18:COM5
	4437	-ve	67.793	23.597	2.180	1.857	0.627	20.171
			28:COM1	20:COM7	28:COM1	28:COM1	28:COM1	28:COM1
			-93.858	-20.401	-2.342	-5.905	-0.811	-61.817
			22:COM9	30:COM1	22:COM9	22:COM9	22:COM9	22:COM9
10649	4500	+ve	0.487	7.387	0.001	0.000	0.013	6.053
			16:COM3	35:CVOL4	28:COM1	-	20:COM7	35:CVOL4
			-2.463	0.000	-0.004	-0.102	-0.004	0.000
			32:CVOL1	-	22:COM9	22:COM9	30:COM1	-
	4382	-ve	0.487	0.000	0.001	0.000	0.003	10.238
			16:COM3	-	28:COM1	-	28:COM1	34:CVOL3
			-2.463	-8.695	-0.004	-0.102	-0.013	0.000
			32:CVOL1	34:CVOL3	22:COM9	22:COM9	22:COM9	-
10650	4499	+ve	3.231	7.293	0.003	0.000	0.012	5.362
			35:CVOL4	35:CVOL4	28:COM1	-	20:COM7	35:CVOL4
			-1.736	0.000	-0.004	-0.093	-0.009	0.000
			30:COM1	-	22:COM9	18:COM5	30:COM1	-
	4383	-ve	3.231	0.000	0.003	0.000	0.009	10.403
			35:CVOL4	-	28:COM1	-	28:COM1	34:CVOL3
			-1.736	-8.837	-0.004	-0.093	-0.012	0.000
			30:COM1	34:CVOL3	22:COM9	18:COM5	22:COM9	-
10651	4498	+ve	5.105	7.317	0.004	0.010	0.007	5.156
			35:CVOL4	35:CVOL4	20:COM7	28:COM1	28:COM1	35:CVOL4
			-1.456	0.000	-0.002	-0.044	-0.014	0.000
			30:COM1	-	30:COM1	22:COM9	22:COM9	-
	4384	-ve	5.105	0.000	0.004	0.010	0.013	10.178
			35:CVOL4	-	20:COM7	28:COM1	20:COM7	34:CVOL3
			-1.456	-8.830	-0.002	-0.044	-0.007	0.000
			30:COM1	34:CVOL3	30:COM1	22:COM9	30:COM1	-
10652	4497	+ve	5.415	7.320	0.006	0.062	0.004	5.123
			35:CVOL4	35:CVOL4	20:COM7	20:COM7	28:COM1	35:CVOL4
			-1.672	0.000	-0.001	-0.003	-0.019	0.000
			30:COM1	-	30:COM1	30:COM1	22:COM9	-
	4385	-ve	5.415	0.000	0.006	0.062	0.019	10.116
			35:CVOL4	-	20:COM7	20:COM7	20:COM7	34:CVOL3
			-1.672	-8.825	-0.001	-0.003	-0.004	0.000
			30:COM1	34:CVOL3	30:COM1	30:COM1	30:COM1	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
10653	4496	+ve	4.222	7.293	0.008	0.100	0.001	5.267
			20:COM7	35:CVOL4	16:COM3	20:COM7	24:COM11	35:CVOL4
			-2.332	0.000	-0.000	0.000	-0.023	0.000
			30:COM17	-	26:COM13	-	18:COM5	-
	4386	-ve	4.222	0.000	0.008	0.100	0.023	10.292
			20:COM7	-	16:COM3	20:COM7	20:COM7	34:CVOL3
			-2.332	-8.833	-0.000	0.000	-0.001	0.000
			30:COM17	34:CVOL3	26:COM13	-	30:COM17	-
10654	4495	+ve	1.860	7.370	0.006	0.090	0.000	5.950
			20:COM7	35:CVOL4	16:COM3	16:COM3	-	35:CVOL4
			-2.804	0.000	0.000	0.000	-0.018	0.000
			30:COM17	-	-	-	18:COM5	-
	4387	-ve	1.860	0.000	0.006	0.090	0.018	10.229
			20:COM7	-	16:COM3	16:COM3	16:COM3	34:CVOL3
			-2.804	-8.708	0.000	0.000	0.000	0.000
			30:COM17	34:CVOL3	-	-	-	-
10655	4506	+ve	0.000	7.173	0.000	0.000	0.022	5.949
			-	35:CVOL4	-	-	20:COM7	35:CVOL4
			-4.021	0.000	-0.007	-0.153	0.000	0.000
			18:COM5	-	22:COM9	34:CVOL3	-	-
	4388	-ve	0.000	0.000	0.000	0.000	0.000	11.238
			-	-	-	-	-	34:CVOL3
			-4.021	-8.862	-0.007	-0.153	-0.021	0.000
			18:COM5	34:CVOL3	22:COM9	34:CVOL3	22:COM9	-
10656	4505	+ve	0.000	7.101	0.001	0.000	0.023	5.788
			-	35:CVOL4	28:COM15	-	20:COM7	35:CVOL4
			-3.919	0.000	-0.007	-0.168	-0.002	0.000
			32:CVOL1	-	22:COM9	34:CVOL3	30:COM17	-
	4389	-ve	0.000	0.000	0.001	0.000	0.002	11.602
			-	-	28:COM15	-	28:COM15	34:CVOL3
			-3.919	-8.937	-0.007	-0.168	-0.022	0.000
			32:CVOL1	34:CVOL3	22:COM9	34:CVOL3	22:COM9	-
10657	4504	+ve	0.000	7.246	0.003	0.000	0.017	6.369
			-	35:CVOL4	28:COM15	-	20:COM7	35:CVOL4
			-4.589	0.000	-0.006	-0.088	-0.009	0.000
			32:CVOL1	-	22:COM9	22:COM9	30:COM17	-
	4390	-ve	0.000	0.000	0.003	0.000	0.008	11.275
			-	-	28:COM15	-	28:COM15	34:CVOL3
			-4.589	-8.773	-0.006	-0.088	-0.017	0.000
			32:CVOL1	34:CVOL3	22:COM9	22:COM9	22:COM9	-
10658	4503	+ve	4.319	3.613	0.215	3.673	0.581	1.952
			20:COM7	35:CVOL4	20:COM7	20:COM7	28:COM15	24:COM11
			-0.838	0.000	-0.191	0.000	-0.661	-2.159
			30:COM17	-	30:COM17	-	22:COM9	35:CVOL4
	4391	-ve	4.319	0.000	0.215	3.673	0.649	47.883
			20:COM7	-	20:COM7	20:COM7	20:COM7	34:CVOL3
			-0.838	-18.951	-0.191	0.000	-0.584	0.000
			30:COM17	34:CVOL3	30:COM17	-	30:COM17	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
10659	4502	+ve	0.000	7.166	0.011	0.192	0.008	6.175
			-	35:CVOL4	20:COM7	34:CVOL3	28:COM15	35:CVOL4
			-5.098	0.000	-0.003	0.000	-0.034	0.000
			22:COM9	-	30:COM17	-	22:COM9	-
	4392	-ve	0.000	0.000	0.011	0.192	0.034	11.549
			-	-	20:COM7	34:CVOL3	20:COM7	34:CVOL3
			-5.098	-8.861	-0.003	0.000	-0.008	0.000
			22:COM9	34:CVOL3	30:COM17	-	30:COM17	-
10660	4501	+ve	0.000	7.155	0.010	0.191	0.003	5.999
			-	35:CVOL4	20:COM7	34:CVOL3	28:COM15	35:CVOL4
			-4.646	0.000	-0.001	0.000	-0.032	0.000
			18:COM5	-	30:COM17	-	22:COM9	-
	4393	-ve	0.000	0.000	0.010	0.191	0.032	11.395
			-	-	20:COM7	34:CVOL3	20:COM7	34:CVOL3
			-4.646	-8.881	-0.001	0.000	-0.004	0.000
			18:COM5	34:CVOL3	30:COM17	-	30:COM17	-
10681	4492	+ve	0.000	7.709	0.010	0.248	0.004	8.631
			-	34:CVOL3	20:COM7	20:COM7	28:COM15	34:CVOL3
			-4.669	0.000	-0.000	-0.040	-0.024	0.000
			22:COM9	-	30:COM17	30:COM17	22:COM9	-
	4414	-ve	0.000	0.000	0.010	0.248	0.035	6.868
			-	-	20:COM7	20:COM7	20:COM7	35:CVOL4
			-4.669	-7.090	-0.000	-0.040	0.000	0.000
			22:COM9	35:CVOL4	30:COM17	30:COM17	-	-
10682	4491	+ve	1.225	6.587	0.012	0.372	0.000	5.814
			28:COM15	34:CVOL3	16:COM3	20:COM7	-	34:CVOL3
			-9.024	0.000	0.000	-0.073	-0.031	0.000
			22:COM9	-	-	30:COM17	18:COM5	-
	4318	-ve	1.225	0.000	0.012	0.372	0.035	10.572
			28:COM15	-	16:COM3	20:COM7	16:COM3	20:COM7
			-9.024	-8.204	0.000	-0.073	0.000	0.000
			22:COM9	35:CVOL4	-	30:COM17	-	-
10683	4490	+ve	1.987	5.887	0.010	0.341	0.002	5.560
			28:COM15	20:COM7	16:COM3	20:COM7	24:COM11	20:COM7
			-13.193	0.000	-0.001	-0.150	-0.028	-2.399
			22:COM9	-	26:COM13	30:COM17	18:COM5	30:COM17
	4416	-ve	1.987	0.000	0.010	0.341	0.030	17.112
			28:COM15	-	16:COM3	20:COM7	16:COM3	20:COM7
			-13.193	-9.364	-0.001	-0.150	-0.004	0.000
			22:COM9	34:CVOL3	26:COM13	30:COM17	26:COM13	-
10684	4489	+ve	0.194	5.888	0.006	0.026	0.033	6.094
			28:COM15	20:COM7	28:COM15	24:COM11	20:COM7	20:COM7
			-18.016	-0.307	-0.012	-0.201	-0.019	-3.894
			22:COM9	30:COM17	22:COM9	18:COM5	30:COM17	30:COM17
	4415	-ve	0.194	0.000	0.006	0.026	0.017	20.027
			28:COM15	-	28:COM15	24:COM11	28:COM15	20:COM7
			-18.016	-10.070	-0.012	-0.201	-0.033	0.000
			22:COM9	22:COM9	22:COM9	18:COM5	22:COM9	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
10685	4488	+ve	5.799	8.217	0.240	5.000	0.384	19.919
			20:COM7	28:COM15	20:COM7	28:COM15	28:COM15	28:COM15
			-0.772	-12.183	-0.159	-14.988	-0.656	-17.445
			30:COM17	22:COM9	30:COM17	22:COM9	22:COM9	22:COM9
	4418	-ve	5.799	0.000	0.240	5.000	0.722	102.752
			20:COM7	-	20:COM7	28:COM15	20:COM7	20:COM7
			-0.772	-29.769	-0.159	-14.988	-0.529	0.000
			30:COM17	22:COM9	30:COM17	22:COM9	30:COM17	-
10686	4487	+ve	0.000	7.400	0.005	0.097	0.024	7.924
			-	35:CVOL4	28:COM15	28:COM15	20:COM7	35:CVOL4
			-10.156	0.000	-0.008	-0.234	-0.014	0.000
			22:COM9	-	22:COM9	22:COM9	30:COM17	-
	4417	-ve	0.000	0.000	0.005	0.097	0.016	10.265
			-	-	28:COM15	28:COM15	28:COM15	34:CVOL3
			-10.156	-8.151	-0.008	-0.234	-0.025	0.000
			22:COM9	34:CVOL3	22:COM9	22:COM9	22:COM9	-
10687	4414	+ve	0.891	10.336	0.047	0.000	0.009	19.071
			28:COM15	34:CVOL3	20:COM7	-	28:COM15	34:CVOL3
			-3.254	0.000	-0.005	-0.408	-0.103	0.000
			22:COM9	-	30:COM17	34:CVOL3	22:COM9	-
	4539	-ve	0.891	0.000	0.047	0.000	0.113	2.346
			28:COM15	-	20:COM7	-	20:COM7	34:CVOL3
			-3.254	-3.489	-0.005	-0.408	-0.013	0.000
			22:COM9	35:CVOL4	30:COM17	34:CVOL3	30:COM17	-
10688	4318	+ve	0.800	13.433	0.041	0.000	0.055	31.228
			28:COM15	34:CVOL3	20:COM7	-	28:COM15	34:CVOL3
			-2.206	0.000	-0.026	-0.625	-0.086	0.000
			22:COM9	-	30:COM17	22:COM9	22:COM9	-
	4538	-ve	0.800	0.822	0.041	0.000	0.104	0.629
			28:COM15	32:CVOL1	20:COM7	-	20:COM7	20:COM7
			-2.206	-0.859	-0.026	-0.625	-0.066	-0.325
			22:COM9	35:CVOL4	30:COM17	22:COM9	30:COM17	30:COM17
10689	4416	+ve	2.487	16.380	0.046	0.062	0.075	43.232
			28:COM15	34:CVOL3	20:COM7	28:COM15	28:COM15	34:CVOL3
			-3.097	0.000	-0.037	-0.688	-0.094	0.000
			22:COM9	-	30:COM17	22:COM9	22:COM9	-
	4537	-ve	2.487	3.844	0.046	0.062	0.119	0.000
			28:COM15	20:COM7	20:COM7	28:COM15	20:COM7	-
			-3.097	-0.085	-0.037	-0.688	-0.096	-1.627
			22:COM9	30:COM17	30:COM17	22:COM9	30:COM17	22:COM9
10690	4415	+ve	3.403	15.192	0.024	0.303	0.040	40.824
			28:COM15	34:CVOL3	20:COM7	20:COM7	28:COM15	20:COM7
			-4.247	0.000	-0.019	-0.150	-0.049	0.000
			22:COM9	-	30:COM17	30:COM17	22:COM9	-
	4545	-ve	3.403	3.461	0.024	0.303	0.060	0.742
			28:COM15	20:COM7	20:COM7	20:COM7	20:COM7	28:COM15
			-4.247	-1.237	-0.019	-0.150	-0.048	-1.312
			22:COM9	30:COM17	30:COM17	30:COM17	30:COM17	22:COM9

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
10691	4418	+ve	8.180	22.486	0.315	16.619	0.425	89.040
			20:COM7	20:COM7	20:COM7	20:COM7	28:COM15	20:COM7
			-5.650	0.000	-0.197	-1.995	-0.664	0.000
			30:COM17	-	30:COM17	30:COM17	22:COM9	-
	4544	-ve	8.180	7.868	0.315	16.619	0.773	24.600
			20:COM7	20:COM7	20:COM7	20:COM7	20:COM7	34:CVOL3
			-5.650	-2.415	-0.197	-1.995	-0.479	0.000
			30:COM17	30:COM17	30:COM17	30:COM17	30:COM17	-
10692	4417	+ve	2.265	10.717	0.012	0.630	0.008	21.540
			28:COM15	34:CVOL3	20:COM7	34:CVOL3	28:COM15	34:CVOL3
			-2.919	0.000	-0.003	0.000	-0.026	0.000
			22:COM9	-	30:COM17	-	22:COM9	-
	4543	-ve	2.265	0.079	0.012	0.630	0.026	2.882
			28:COM15	24:COM11	20:COM7	34:CVOL3	20:COM7	20:COM7
			-2.919	-2.389	-0.003	0.000	-0.007	0.000
			22:COM9	18:COM5	30:COM17	-	30:COM17	-
10693	4546	+ve	0.000	0.937	0.000	0.113	0.090	0.000
			-	20:COM7	-	28:COM15	34:CVOL3	-
			-10.067	-0.291	-0.058	-0.155	0.000	-1.215
			22:COM9	30:COM17	34:CVOL3	22:COM9	-	22:COM9
	4492	-ve	0.000	0.000	0.000	0.113	0.000	8.288
			-	-	-	28:COM15	-	34:CVOL3
			-10.067	-7.048	-0.058	-0.155	-0.088	0.000
			22:COM9	35:CVOL4	34:CVOL3	22:COM9	34:CVOL3	-
10694	4547	+ve	0.000	1.791	0.000	0.088	0.046	0.000
			-	34:CVOL3	-	28:COM15	16:COM3	-
			-5.347	0.000	-0.030	-0.126	0.000	-0.854
			22:COM9	-	18:COM5	22:COM9	-	22:COM9
	4491	-ve	0.000	0.000	0.000	0.088	0.000	6.186
			-	-	-	28:COM15	-	35:CVOL4
			-5.347	-6.198	-0.030	-0.126	-0.045	0.000
			22:COM9	35:CVOL4	18:COM5	22:COM9	18:COM5	-
10695	4548	+ve	0.000	2.450	0.010	0.041	0.029	0.157
			-	35:CVOL4	28:COM15	28:COM15	20:COM7	20:COM7
			-2.157	0.000	-0.019	-0.053	-0.014	-0.470
			32:CVOL1	-	22:COM9	22:COM9	30:COM17	30:COM17
	4490	-ve	0.000	0.000	0.010	0.041	0.016	4.617
			-	-	28:COM15	28:COM15	28:COM15	35:CVOL4
			-2.157	-5.529	-0.019	-0.053	-0.030	0.000
			32:CVOL1	34:CVOL3	22:COM9	22:COM9	22:COM9	-
10696	4549	+ve	0.029	2.781	0.013	0.045	0.021	0.339
			20:COM7	35:CVOL4	20:COM7	16:COM3	28:COM15	20:COM7
			-1.670	0.000	-0.014	-0.049	-0.021	-0.258
			30:COM17	-	30:COM17	26:COM13	22:COM9	30:COM17
	4489	-ve	0.029	0.000	0.013	0.045	0.020	3.885
			20:COM7	-	20:COM7	16:COM3	20:COM7	34:CVOL3
			-1.670	-5.207	-0.014	-0.049	-0.021	0.000
			30:COM17	34:CVOL3	30:COM17	26:COM13	30:COM17	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
10697	4550	+ve	3.032	5.494	0.240	5.786	0.202	0.180
			20:COM7	20:COM7	20:COM7	20:COM7	28:COM15	28:COM15
			-0.580	-3.243	-0.119	-6.404	-0.394	-0.456
			30:COM17	30:COM17	30:COM17	30:COM17	22:COM9	22:COM9
	4488	-ve	3.032	0.000	0.240	5.786	0.339	20.838
			20:COM7	-	20:COM7	20:COM7	20:COM7	20:COM7
			-0.580	-11.501	-0.119	-6.404	-0.161	-5.741
			30:COM17	22:COM9	30:COM17	30:COM17	30:COM17	30:COM17
10698	4551	+ve	0.000	2.077	0.028	0.191	0.032	0.463
			-	20:COM7	20:COM7	20:COM7	28:COM15	28:COM15
			-7.498	-0.076	-0.021	-0.166	-0.043	-0.771
			22:COM9	30:COM17	30:COM17	30:COM17	22:COM9	22:COM9
	4487	-ve	0.000	0.000	0.028	0.191	0.043	6.649
			-	-	20:COM7	20:COM7	20:COM7	20:COM7
			-7.498	-6.128	-0.021	-0.166	-0.032	0.000
			22:COM9	35:CVOL4	30:COM17	30:COM17	30:COM17	-
10699	4389	+ve	0.884	10.215	0.007	0.000	0.011	17.490
			16:COM3	34:CVOL3	20:COM7	-	28:COM15	34:CVOL3
			-0.924	0.000	-0.006	-0.395	-0.012	0.000
			26:COM13	-	30:COM17	34:CVOL3	22:COM9	-
	4535	-ve	0.884	0.000	0.007	0.000	0.017	0.314
			16:COM3	-	20:COM7	-	20:COM7	16:COM3
			-0.924	-2.276	-0.006	-0.395	-0.014	-0.136
			26:COM13	35:CVOL4	30:COM17	34:CVOL3	30:COM17	26:COM13
10700	4390	+ve	1.008	10.993	0.008	0.000	0.015	20.721
			16:COM3	34:CVOL3	20:COM7	-	28:COM15	34:CVOL3
			-0.974	0.000	-0.008	-0.312	-0.015	0.000
			26:COM13	-	30:COM17	18:COM5	22:COM9	-
	4556	-ve	1.008	0.000	0.008	0.000	0.019	0.243
			16:COM3	-	20:COM7	-	20:COM7	35:CVOL4
			-0.974	-1.568	-0.008	-0.312	-0.018	-0.025
			26:COM13	35:CVOL4	30:COM17	18:COM5	30:COM17	30:COM17
10701	4391	+ve	3.611	15.421	0.344	3.523	0.544	56.319
			20:COM7	34:CVOL3	20:COM7	16:COM3	28:COM15	34:CVOL3
			-1.692	0.000	-0.329	-0.790	-0.575	0.000
			30:COM17	-	30:COM17	26:COM13	22:COM9	-
	4557	-ve	3.611	0.956	0.344	3.523	0.849	24.423
			20:COM7	32:CVOL1	20:COM7	16:COM3	20:COM7	35:CVOL4
			-1.692	-1.622	-0.329	-0.790	-0.816	0.000
			30:COM17	35:CVOL4	30:COM17	26:COM13	30:COM17	-
10702	4392	+ve	0.870	11.037	0.012	0.458	0.022	21.019
			24:COM11	34:CVOL3	20:COM7	34:CVOL3	28:COM15	34:CVOL3
			-1.132	0.000	-0.011	0.000	-0.024	0.000
			18:COM5	-	30:COM17	-	22:COM9	-
	4558	-ve	0.870	0.046	0.012	0.458	0.026	0.376
			24:COM11	24:COM11	20:COM7	34:CVOL3	20:COM7	16:COM3
			-1.132	-1.413	-0.011	0.000	-0.025	-0.053
			18:COM5	35:CVOL4	30:COM17	-	30:COM17	26:COM13

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
10703	4393	+ve	1.907	9.959	0.008	0.543	0.010	17.790
			28:COM1	34:CVOL3	20:COM7	34:CVOL3	28:COM1	34:CVOL3
			-3.634	0.000	-0.005	0.000	-0.016	0.000
			22:COM9	-	30:COM1	-	22:COM9	-
	4559	-ve	1.907	0.000	0.008	0.543	0.015	1.637
			28:COM1	-	20:COM7	34:CVOL3	20:COM7	20:COM7
			-3.634	-2.303	-0.005	0.000	-0.010	0.000
			22:COM9	35:CVOL4	30:COM1	-	30:COM1	-
10704	4382	+ve	0.646	9.660	0.011	0.061	0.015	15.153
			28:COM1	34:CVOL3	20:COM7	24:COM1	28:COM1	34:CVOL3
			-1.954	0.000	-0.007	-0.302	-0.022	0.000
			22:COM9	-	30:COM1	18:COM5	22:COM9	-
	4534	-ve	0.646	0.000	0.011	0.061	0.025	1.396
			28:COM1	-	20:COM7	24:COM1	20:COM7	16:COM3
			-1.954	-2.927	-0.007	-0.302	-0.016	-1.141
			22:COM9	18:COM5	30:COM1	18:COM5	30:COM1	26:COM1
10705	4383	+ve	0.915	9.566	0.016	0.070	0.012	14.306
			16:COM3	34:CVOL3	20:COM7	35:CVOL4	28:COM1	34:CVOL3
			-0.645	0.000	-0.006	-0.103	-0.031	0.000
			26:COM1	-	30:COM1	32:CVOL1	22:COM9	-
	4533	-ve	0.915	0.000	0.016	0.070	0.037	0.235
			16:COM3	-	20:COM7	35:CVOL4	20:COM7	24:COM1
			-0.645	-3.298	-0.006	-0.103	-0.014	-0.572
			26:COM1	35:CVOL4	30:COM1	32:CVOL1	30:COM1	18:COM5
10706	4384	+ve	1.341	9.117	0.015	0.140	0.011	12.615
			16:COM3	34:CVOL3	20:COM7	16:COM3	28:COM1	34:CVOL3
			-0.725	0.000	-0.006	-0.077	-0.029	0.000
			26:COM1	-	30:COM1	26:COM1	22:COM9	-
	4532	-ve	1.341	0.000	0.015	0.140	0.035	0.086
			16:COM3	-	20:COM7	16:COM3	20:COM7	35:CVOL4
			-0.725	-3.869	-0.006	-0.077	-0.013	-0.231
			26:COM1	35:CVOL4	30:COM1	26:COM1	30:COM1	32:CVOL1
10707	4388	+ve	0.260	9.526	0.003	0.000	0.015	16.235
			28:COM1	34:CVOL3	28:COM1	-	20:COM7	34:CVOL3
			-2.103	0.000	-0.007	-0.375	-0.005	0.000
			22:COM9	-	22:COM9	22:COM9	30:COM1	-
	4536	-ve	0.260	0.000	0.003	0.000	0.009	1.798
			28:COM1	-	28:COM1	-	28:COM1	16:COM3
			-2.103	-2.873	-0.007	-0.375	-0.015	0.000
			22:COM9	18:COM5	22:COM9	22:COM9	22:COM9	-
10708	4512	+ve	1.482	6.766	0.014	0.377	0.019	6.933
			24:COM1	35:CVOL4	16:COM3	16:COM3	24:COM1	20:COM7
			-4.901	0.000	-0.007	-0.146	-0.042	-1.433
			18:COM5	-	26:COM1	26:COM1	18:COM5	30:COM1
	4427	-ve	1.482	0.000	0.014	0.377	0.043	13.447
			24:COM1	-	16:COM3	16:COM3	16:COM3	16:COM3
			-4.901	-8.964	-0.007	-0.146	-0.020	0.000
			18:COM5	34:CVOL3	26:COM1	26:COM1	26:COM1	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
10709	4511	+ve	3.726	6.540	0.013	0.268	0.013	6.428
			16:COM3	16:COM3	16:COM3	16:COM3	24:COM11	16:COM3
			-6.737	-0.296	-0.004	-0.048	-0.038	-5.427
			26:COM13	26:COM13	26:COM13	26:COM13	18:COM5	26:COM13
	4426	-ve	3.726	0.000	0.013	0.268	0.038	19.283
			16:COM3	-	16:COM3	16:COM3	16:COM3	16:COM3
			-6.737	-10.353	-0.004	-0.048	-0.012	-1.175
			26:COM13	18:COM5	26:COM13	26:COM13	26:COM13	26:COM13
10710	4510	+ve	4.754	5.580	0.005	0.181	0.013	3.901
			16:COM3	16:COM3	16:COM3	16:COM3	24:COM11	24:COM11
			-6.168	-0.276	-0.004	-0.124	-0.014	-5.319
			26:COM13	26:COM13	26:COM13	26:COM13	18:COM5	18:COM5
	4425	-ve	4.754	0.000	0.005	0.181	0.013	19.227
			16:COM3	-	16:COM3	16:COM3	16:COM3	16:COM3
			-6.168	-10.393	-0.004	-0.124	-0.013	0.000
			26:COM13	18:COM5	26:COM13	26:COM13	26:COM13	-
10711	4509	+ve	3.527	4.761	0.003	0.122	0.026	1.711
			16:COM3	16:COM3	24:COM11	24:COM11	16:COM3	24:COM11
			-5.640	0.000	-0.009	-0.227	-0.008	-2.896
			26:COM13	-	18:COM5	18:COM5	26:COM13	18:COM5
	4429	-ve	3.527	0.000	0.003	0.122	0.008	16.103
			16:COM3	-	24:COM11	24:COM11	24:COM11	16:COM3
			-5.640	-10.154	-0.009	-0.227	-0.026	0.000
			26:COM13	34:CVOL3	18:COM5	18:COM5	18:COM5	-
10712	4508	+ve	2.476	5.317	0.002	0.055	0.037	1.536
			16:COM3	35:CVOL4	24:COM11	24:COM11	16:COM3	16:COM3
			-4.301	0.000	-0.013	-0.283	-0.006	-0.292
			26:COM13	-	18:COM5	18:COM5	26:COM13	26:COM13
	4428	-ve	2.476	0.000	0.002	0.055	0.006	13.238
			16:COM3	-	24:COM11	24:COM11	24:COM11	34:CVOL3
			-4.301	-9.518	-0.013	-0.283	-0.037	0.000
			26:COM13	34:CVOL3	18:COM5	18:COM5	18:COM5	-
10713	4507	+ve	0.000	6.433	0.000	0.021	0.035	4.436
			-	35:CVOL4	-	24:COM11	20:COM7	35:CVOL4
			-2.387	0.000	-0.012	-0.251	0.000	0.000
			32:CVOL1	-	22:COM9	18:COM5	-	-
	4306	-ve	0.000	0.000	0.000	0.021	0.000	10.041
			-	-	-	24:COM11	-	34:CVOL3
			-2.387	-8.390	-0.012	-0.251	-0.034	0.000
			32:CVOL1	34:CVOL3	22:COM9	18:COM5	22:COM9	-
10714	4553	+ve	1.607	1.930	0.036	0.057	0.024	0.455
			16:COM3	16:COM3	20:COM7	20:COM7	28:COM15	16:COM3
			-0.474	-0.049	-0.039	-0.049	-0.024	-0.269
			26:COM13	26:COM13	30:COM17	30:COM17	22:COM9	26:COM13
	4509	-ve	1.607	0.000	0.036	0.057	0.022	0.576
			16:COM3	-	20:COM7	20:COM7	20:COM7	24:COM11
			-0.474	-1.758	-0.039	-0.049	-0.025	-0.295
			26:COM13	18:COM5	30:COM17	30:COM17	30:COM17	18:COM5

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
10715	4554	+ve	0.377	1.550	0.094	0.103	0.038	0.273
			24:COM1	16:COM3	16:COM3	16:COM3	24:COM11	16:COM3
			-1.843	-0.785	-0.071	-0.077	-0.057	-0.382
			18:COM5	26:COM1	26:COM1	26:COM1	18:COM5	26:COM1
	4508	-ve	0.377	0.000	0.094	0.103	0.061	1.638
			24:COM1	-	16:COM3	16:COM3	16:COM3	16:COM3
			-1.843	-2.905	-0.071	-0.077	-0.050	-0.254
			18:COM5	18:COM5	26:COM1	26:COM1	26:COM1	26:COM1
10716	4555	+ve	0.000	0.760	0.057	0.160	0.038	0.260
			-	24:COM11	16:COM3	16:COM3	24:COM11	24:COM1
			-4.624	-2.506	-0.055	-0.116	-0.041	-1.152
			18:COM5	18:COM5	26:COM1	26:COM1	18:COM5	18:COM5
	4507	-ve	0.000	0.000	0.057	0.160	0.032	3.650
			-	-	16:COM3	16:COM3	20:COM7	16:COM3
			-4.624	-5.172	-0.055	-0.116	-0.034	0.000
			18:COM5	18:COM5	26:COM1	26:COM1	30:COM1	-
10717	4427	+ve	1.825	9.267	0.011	0.211	0.030	15.743
			28:COM1	34:CVOL3	28:COM1	24:COM1	20:COM7	34:CVOL3
			-3.403	0.000	-0.014	-0.567	-0.023	0.000
			22:COM9	-	22:COM9	18:COM5	30:COM1	-
	4666	-ve	1.825	0.000	0.011	0.211	0.024	2.607
			28:COM1	-	28:COM1	24:COM1	28:COM1	34:CVOL3
			-3.403	-3.525	-0.014	-0.567	-0.028	0.000
			22:COM9	35:CVOL4	22:COM9	18:COM5	22:COM9	-
10718	4426	+ve	1.109	12.900	0.014	0.000	0.020	31.898
			24:COM1	16:COM3	16:COM3	-	24:COM11	16:COM3
			-1.185	0.000	-0.010	-0.589	-0.027	0.000
			18:COM5	-	26:COM1	18:COM5	18:COM5	-
	4665	-ve	1.109	2.926	0.014	0.000	0.034	1.484
			24:COM1	24:COM11	16:COM3	-	16:COM3	16:COM3
			-1.185	-3.276	-0.010	-0.589	-0.024	-1.318
			18:COM5	18:COM5	26:COM1	18:COM5	26:COM1	26:COM1
10719	4425	+ve	1.278	15.657	0.014	0.107	0.030	40.642
			20:COM7	34:CVOL3	16:COM3	24:COM1	16:COM3	16:COM3
			-0.494	0.000	-0.014	-0.575	-0.027	0.000
			30:COM1	-	26:COM1	18:COM5	26:COM1	-
	4667	-ve	1.278	4.039	0.014	0.107	0.038	0.000
			20:COM7	16:COM3	16:COM3	24:COM1	16:COM3	-
			-0.494	-0.648	-0.014	-0.575	-0.035	-1.933
			30:COM1	26:COM1	26:COM1	18:COM5	26:COM1	18:COM5
10721	4428	+ve	0.944	17.033	0.011	0.245	0.024	45.689
			16:COM3	34:CVOL3	16:COM3	16:COM3	24:COM11	34:CVOL3
			0.000	0.000	-0.010	-0.142	-0.027	0.000
			-	-	26:COM1	26:COM1	18:COM5	-
	4663	-ve	0.944	4.486	0.011	0.245	0.023	0.000
			16:COM3	32:CVOL1	16:COM3	16:COM3	24:COM11	-
			0.000	0.000	-0.010	-0.142	-0.024	-1.754
			-	-	26:COM1	26:COM1	18:COM5	34:CVOL3

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
10722	4306	+ve	1.508	15.758	0.014	0.382	0.034	40.893
			16:COM3	34:CVOL3	24:COM11	16:COM3	16:COM3	34:CVOL3
			-1.379	0.000	-0.017	-0.029	-0.027	0.000
			26:COM13	-	18:COM5	26:COM13	26:COM13	-
	4662	-ve	1.508	3.446	0.014	0.382	0.035	0.242
			16:COM3	32:CVOL1	24:COM11	16:COM3	24:COM11	24:COM11
			-1.379	0.000	-0.017	-0.029	-0.042	-1.178
			26:COM13	-	18:COM5	26:COM13	18:COM5	18:COM5
10725	4429	+ve	0.000	10.390	0.002	0.091	0.020	17.256
			-	34:CVOL3	24:COM11	24:COM11	16:COM3	34:CVOL3
			-18.172	0.000	-0.009	-0.209	-0.003	0.000
			34:CVOL3	-	18:COM5	18:COM5	26:COM13	-
	4664	-ve	0.000	0.000	0.002	0.091	0.004	0.000
			-	-	24:COM11	24:COM11	24:COM11	-
			-18.172	-3.032	-0.009	-0.209	-0.020	-1.507
			34:CVOL3	35:CVOL4	18:COM5	18:COM5	18:COM5	32:CVOL1
10730	4531	+ve	0.000	7.726	0.004	0.022	0.014	7.413
			-	35:CVOL4	24:COM11	28:COM15	16:COM3	35:CVOL4
			-2.369	0.000	-0.005	-0.022	-0.013	0.000
			18:COM5	-	18:COM5	22:COM9	26:COM13	-
	4431	-ve	0.000	0.000	0.004	0.022	0.011	9.161
			-	-	24:COM11	28:COM15	24:COM11	34:CVOL3
			-2.369	-8.277	-0.005	-0.022	-0.013	0.000
			18:COM5	34:CVOL3	18:COM5	22:COM9	18:COM5	-
10731	5473	+ve	3.738	10.683	0.539	15.352	0.626	11.508
			28:COM15	16:COM3	24:COM11	16:COM3	16:COM3	16:COM3
			-14.676	-0.639	-0.618	-3.227	-0.506	-2.925
			22:COM9	26:COM13	18:COM5	26:COM13	26:COM13	26:COM13
	5514	-ve	3.738	5.505	0.539	15.352	0.547	2.343
			28:COM15	24:COM11	24:COM11	16:COM3	24:COM11	16:COM3
			-14.676	-4.765	-0.618	-3.227	-0.580	-4.275
			22:COM9	18:COM5	18:COM5	26:COM13	18:COM5	26:COM13
10732	4513	+ve	4.203	10.724	0.011	0.027	0.000	12.737
			20:COM7	35:CVOL4	16:COM3	28:COM15	-	35:CVOL4
			0.000	0.000	-0.002	-0.063	-0.046	0.000
			-	-	26:COM13	22:COM9	18:COM5	-
	4433	-ve	4.203	0.000	0.011	0.027	0.022	16.390
			20:COM7	-	16:COM3	28:COM15	16:COM3	34:CVOL3
			0.000	-11.743	-0.002	-0.063	-0.013	0.000
			-	34:CVOL3	26:COM13	22:COM9	26:COM13	-
10733	4514	+ve	0.000	7.989	0.005	0.006	0.001	8.689
			-	35:CVOL4	16:COM3	28:COM15	24:COM11	35:CVOL4
			-3.594	0.000	-0.001	-0.051	-0.018	0.000
			22:COM9	-	26:COM13	22:COM9	18:COM5	-
	4434	-ve	0.000	0.000	0.005	0.006	0.012	8.781
			-	-	16:COM3	28:COM15	16:COM3	34:CVOL3
			-3.594	-7.990	-0.001	-0.051	-0.005	0.000
			22:COM9	34:CVOL3	26:COM13	22:COM9	26:COM13	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
10734	4552	+ve	0.000	1.106	0.012	0.052	0.063	0.000
			-	35:CVOL4	24:COM11	24:COM11	16:COM3	-
			-5.709	-0.306	-0.041	-0.209	-0.019	-1.948
			22:COM9	26:COM13	18:COM5	18:COM5	26:COM13	18:COM5
	4494	-ve	0.000	0.000	0.012	0.052	0.018	7.414
			-	-	24:COM11	24:COM11	24:COM11	34:CVOL3
			-5.709	-6.885	-0.041	-0.209	-0.061	0.000
			22:COM9	34:CVOL3	18:COM5	18:COM5	18:COM5	-
10735	4494	+ve	0.000	7.780	0.007	0.173	0.016	8.231
			-	35:CVOL4	20:COM7	20:COM7	28:COM15	35:CVOL4
			-5.576	0.000	-0.006	-0.066	-0.019	0.000
			22:COM9	-	30:COM17	30:COM17	22:COM9	-
	4435	-ve	0.000	0.000	0.007	0.173	0.021	9.306
			-	-	20:COM7	20:COM7	20:COM7	34:CVOL3
			-5.576	-8.097	-0.006	-0.066	-0.017	0.000
			22:COM9	34:CVOL3	30:COM17	30:COM17	30:COM17	-
10736	4493	+ve	0.000	7.370	0.009	0.253	0.018	7.248
			-	35:CVOL4	16:COM3	20:COM7	24:COM11	35:CVOL4
			-6.812	0.000	-0.006	-0.065	-0.027	0.000
			22:COM9	-	26:COM13	30:COM17	18:COM5	-
	4436	-ve	0.000	0.000	0.009	0.253	0.029	10.176
			-	-	16:COM3	20:COM7	16:COM3	34:CVOL3
			-6.812	-8.303	-0.006	-0.065	-0.021	0.000
			22:COM9	34:CVOL3	26:COM13	30:COM17	26:COM13	-
10738	4435	+ve	3.053	8.802	0.010	0.152	0.024	13.182
			20:COM7	34:CVOL3	28:COM15	20:COM7	20:COM7	34:CVOL3
			-2.535	0.000	-0.013	-0.040	-0.017	0.000
			30:COM17	-	22:COM9	30:COM17	30:COM17	-
	4542	-ve	3.053	0.000	0.010	0.152	0.025	2.099
			20:COM7	-	28:COM15	20:COM7	28:COM15	20:COM7
			-2.535	-3.599	-0.013	-0.040	-0.031	0.000
			30:COM17	35:CVOL4	22:COM9	30:COM17	22:COM9	-
10739	4436	+ve	2.788	9.200	0.011	0.032	0.046	13.412
			20:COM7	34:CVOL3	24:COM11	28:COM15	20:COM7	34:CVOL3
			-2.311	0.000	-0.022	-0.040	-0.025	0.000
			30:COM17	-	18:COM5	22:COM9	30:COM17	-
	4541	-ve	2.788	0.000	0.011	0.032	0.024	0.445
			20:COM7	-	24:COM11	28:COM15	24:COM11	16:COM3
			-2.311	-3.434	-0.022	-0.040	-0.048	0.000
			30:COM17	35:CVOL4	18:COM5	22:COM9	18:COM5	-
10792	4487	+ve	13.868	4.500	0.523	12.079	1.071	46.646
			28:COM15	28:COM15	28:COM15	20:COM7	20:COM7	20:COM7
			-18.540	-47.701	-1.203	-3.343	-0.580	-37.375
			22:COM9	22:COM9	22:COM9	30:COM17	30:COM17	30:COM17
	4325	-ve	13.868	2.785	0.523	12.079	0.500	143.489
			28:COM15	28:COM15	28:COM15	20:COM7	28:COM15	20:COM7
			-18.540	-49.988	-1.203	-3.343	-1.358	-44.588
			22:COM9	22:COM9	22:COM9	30:COM17	22:COM9	30:COM17

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
10793	4488	+ve	12.625	10.583	0.431	14.980	0.317	0.000
			28:COM15	28:COM15	20:COM7	20:COM7	28:COM15	-
			-18.269	-33.428	-0.298	-4.241	-0.481	-28.859
			22:COM9	22:COM9	30:COM17	30:COM17	22:COM9	35:CVOL4
	4487	-ve	12.625	8.867	0.431	14.980	0.424	46.785
			28:COM15	28:COM15	20:COM7	20:COM7	20:COM7	20:COM7
			-18.269	-35.715	-0.298	-4.241	-0.324	-37.341
			22:COM9	22:COM9	30:COM17	30:COM17	30:COM17	30:COM17
10794	4489	+ve	12.561	2.382	0.409	1.612	1.271	0.000
			28:COM15	28:COM15	28:COM15	24:COM17	20:COM7	-
			-16.059	-12.870	-1.317	-3.535	-0.392	-45.849
			22:COM9	22:COM9	22:COM9	18:COM5	30:COM17	22:COM9
	4488	-ve	12.561	0.666	0.409	1.612	0.439	0.000
			28:COM15	28:COM15	28:COM15	24:COM17	28:COM15	-
			-16.059	-15.157	-1.317	-3.535	-1.361	-21.446
			22:COM9	22:COM9	22:COM9	18:COM5	22:COM9	35:CVOL4
10795	4490	+ve	11.825	6.770	1.650	0.914	1.732	0.646
			20:COM7	20:COM7	20:COM7	28:COM15	28:COM15	28:COM15
			-13.298	-1.256	-1.526	-3.284	-1.756	-48.794
			30:COM17	30:COM17	30:COM17	22:COM9	22:COM9	22:COM9
	4489	-ve	11.825	4.482	1.650	0.914	1.522	0.000
			20:COM7	20:COM7	20:COM7	28:COM15	20:COM7	-
			-13.298	-2.972	-1.526	-3.284	-1.298	-45.758
			30:COM17	30:COM17	30:COM17	22:COM9	30:COM17	22:COM9
10796	4491	+ve	12.681	16.671	1.460	2.873	2.259	19.642
			20:COM7	20:COM7	28:COM15	28:COM15	20:COM7	28:COM15
			-9.911	0.000	-2.358	-7.028	-1.037	-26.981
			30:COM17	-	22:COM9	22:COM9	30:COM17	22:COM9
	4490	-ve	12.681	14.384	1.460	2.873	1.860	0.375
			20:COM7	20:COM7	28:COM15	28:COM15	28:COM15	28:COM15
			-9.911	0.000	-2.358	-7.028	-2.419	-48.737
			30:COM17	-	22:COM9	22:COM9	22:COM9	22:COM9
10797	4492	+ve	20.875	31.633	0.178	3.367	3.512	71.210
			20:COM7	34:CVOL3	28:COM15	28:COM15	20:COM7	20:COM7
			-2.902	0.000	-3.284	-8.417	0.000	0.000
			30:COM17	-	22:COM9	22:COM9	-	-
	4491	-ve	20.875	29.345	0.178	3.367	0.431	19.396
			20:COM7	34:CVOL3	28:COM15	28:COM15	28:COM15	28:COM15
			-2.902	0.000	-3.284	-8.417	-3.016	-27.197
			30:COM17	-	22:COM9	22:COM9	22:COM9	22:COM9
10798	4493	+ve	12.030	15.259	3.217	2.025	0.639	4.008
			28:COM15	16:COM3	20:COM7	24:COM17	28:COM15	24:COM17
			-18.339	-1.116	-1.926	-10.114	-1.043	-9.449
			22:COM9	26:COM13	30:COM17	18:COM5	22:COM9	18:COM5
	4607	-ve	12.030	13.961	3.217	2.025	2.735	0.000
			28:COM15	16:COM3	20:COM7	24:COM17	20:COM7	-
			-18.339	-2.090	-1.926	-10.114	-1.686	-15.110
			22:COM9	26:COM13	30:COM17	18:COM5	30:COM17	22:COM9

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
10799	4494	+ve	12.889	30.359	1.739	2.003	0.663	56.491
			28:COM15	16:COM3	20:COM7	24:COM11	28:COM15	16:COM3
			-21.809	0.000	-0.712	-7.315	-1.623	0.000
			22:COM9	-	30:COM17	18:COM5	22:COM9	-
	4493	-ve	12.889	28.193	1.739	2.003	1.679	3.817
			28:COM15	16:COM3	20:COM7	24:COM11	20:COM7	24:COM11
			-21.809	0.000	-0.712	-7.315	-0.709	-9.564
			22:COM9	-	30:COM17	18:COM5	30:COM17	18:COM5
10800	4495	+ve	41.845	0.000	0.222	0.000	1.453	42.269
			28:COM15	-	24:COM11	-	16:COM3	16:COM3
			-47.285	-38.402	-1.614	-11.494	-0.255	-25.585
			22:COM9	18:COM5	18:COM5	18:COM5	26:COM13	26:COM13
	4327	-ve	41.845	0.000	0.222	0.000	0.203	119.517
			28:COM15	-	24:COM11	-	24:COM11	16:COM3
			-47.285	-40.656	-1.614	-11.494	-1.724	-14.627
			22:COM9	18:COM5	18:COM5	18:COM5	18:COM5	26:COM13
10801	4496	+ve	43.933	0.000	0.201	0.000	0.778	4.586
			28:COM15	-	28:COM15	-	20:COM7	24:COM11
			-48.294	-23.625	-0.739	-8.442	-0.286	-40.045
			22:COM9	18:COM5	22:COM9	35:CVOL4	30:COM17	18:COM5
	4495	-ve	43.933	0.000	0.201	0.000	0.139	42.424
			28:COM15	-	28:COM15	-	28:COM15	16:COM3
			-48.294	-25.880	-0.739	-8.442	-0.699	-25.501
			22:COM9	18:COM5	22:COM9	35:CVOL4	22:COM9	26:COM13
10802	4497	+ve	45.432	3.116	0.112	0.000	0.394	0.000
			20:COM7	24:COM11	28:COM15	-	20:COM7	-
			-46.696	-12.675	-0.209	-5.005	-0.264	-44.000
			30:COM17	18:COM5	22:COM9	18:COM5	30:COM17	35:CVOL4
	4496	-ve	45.432	1.424	0.112	0.000	0.183	4.670
			20:COM7	24:COM11	28:COM15	-	24:COM11	24:COM11
			-46.696	-14.930	-0.209	-5.005	-0.243	-39.996
			30:COM17	18:COM5	22:COM9	18:COM5	18:COM5	18:COM5
10803	4498	+ve	47.175	8.884	0.138	1.288	0.307	0.000
			20:COM7	16:COM3	16:COM3	24:COM11	28:COM15	-
			-45.815	-4.374	-0.115	-1.504	-0.271	-41.726
			30:COM17	26:COM13	26:COM13	18:COM5	22:COM9	18:COM5
	4497	-ve	47.175	6.630	0.138	1.288	0.291	0.000
			20:COM7	16:COM3	16:COM3	24:COM11	16:COM3	-
			-45.815	-6.066	-0.115	-1.504	-0.209	-43.974
			30:COM17	26:COM13	26:COM13	18:COM5	26:COM13	35:CVOL4
10804	4499	+ve	48.309	18.091	0.246	4.965	0.279	12.780
			20:COM7	16:COM3	16:COM3	16:COM3	28:COM15	24:COM11
			-44.814	0.000	-0.098	0.000	-0.330	-33.258
			30:COM17	-	26:COM13	-	22:COM9	18:COM5
	4498	-ve	48.309	15.836	0.246	4.965	0.444	0.000
			20:COM7	16:COM3	16:COM3	16:COM3	16:COM3	-
			-44.814	-1.195	-0.098	0.000	-0.205	-41.746
			30:COM17	26:COM13	26:COM13	-	26:COM13	18:COM5

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
10805	4500	+ve	48.708	28.671	0.411	8.357	0.125	59.714
			20:COM7	16:COM3	20:COM7	35:CVOL4	20:COM7	16:COM3
			-44.107	0.000	-0.074	0.000	-0.257	-17.915
			30:COM17	-	30:COM17	-	30:COM17	26:COM13
	4499	-ve	48.708	26.416	0.411	8.357	0.710	12.697
			20:COM7	16:COM3	20:COM7	35:CVOL4	16:COM3	24:COM17
			-44.107	0.000	-0.074	0.000	-0.183	-33.352
			30:COM17	-	30:COM17	-	26:COM13	18:COM5
10806	4501	+ve	22.194	0.000	0.599	0.000	1.274	53.377
			28:COM15	-	28:COM15	-	20:COM7	16:COM3
			-31.774	-39.051	-1.547	-10.466	-0.402	-29.147
			22:COM9	18:COM5	22:COM9	22:COM9	30:COM17	26:COM13
	4328	-ve	22.194	0.000	0.599	0.000	0.807	132.612
			28:COM15	-	28:COM15	-	28:COM15	16:COM3
			-31.774	-41.325	-1.547	-10.466	-1.805	-16.982
			22:COM9	18:COM5	22:COM9	22:COM9	22:COM9	26:COM13
10807	4502	+ve	25.303	0.000	0.361	0.000	0.801	10.678
			28:COM15	-	28:COM15	-	20:COM7	24:COM17
			-35.656	-24.844	-0.852	-7.650	-0.268	-41.263
			22:COM9	18:COM5	22:COM9	18:COM5	30:COM17	18:COM5
	4501	-ve	25.303	0.000	0.361	0.000	0.452	53.423
			28:COM15	-	28:COM15	-	28:COM15	16:COM3
			-35.656	-27.120	-0.852	-7.650	-0.889	-29.106
			22:COM9	18:COM5	22:COM9	18:COM5	22:COM9	26:COM13
10808	4503	+ve	28.301	3.907	0.509	0.663	0.437	0.000
			28:COM15	24:COM11	20:COM7	24:COM17	28:COM15	-
			-37.569	-13.810	-0.260	-4.007	-0.671	-40.645
			22:COM9	18:COM5	30:COM17	18:COM5	22:COM9	18:COM5
	4502	-ve	28.301	2.200	0.509	0.663	0.392	10.716
			28:COM15	24:COM11	20:COM7	24:COM17	16:COM3	24:COM17
			-37.569	-16.085	-0.260	-4.007	-0.134	-41.315
			22:COM9	18:COM5	30:COM17	18:COM5	26:COM13	18:COM5
10809	4504	+ve	30.839	7.809	0.003	0.818	0.521	0.000
			28:COM15	24:COM11	28:COM15	28:COM15	20:COM7	-
			-39.547	-7.271	-0.442	-3.625	-0.083	-43.777
			22:COM9	18:COM5	22:COM9	22:COM9	30:COM17	18:COM5
	4503	-ve	30.839	6.103	0.003	0.818	0.000	0.000
			28:COM15	24:COM11	28:COM15	28:COM15	-	-
			-39.547	-9.546	-0.442	-3.625	-0.405	-41.946
			22:COM9	18:COM5	22:COM9	22:COM9	22:COM9	18:COM5
10810	4505	+ve	33.373	17.131	0.259	4.210	0.160	10.304
			28:COM15	16:COM3	16:COM3	20:COM7	28:COM15	24:COM17
			-41.836	-1.217	-0.096	-0.147	-0.268	-40.704
			22:COM9	26:COM13	26:COM13	30:COM17	22:COM9	18:COM5
	4504	-ve	33.373	14.855	0.259	4.210	0.393	0.000
			28:COM15	16:COM3	16:COM3	20:COM7	16:COM3	-
			-41.836	-2.923	-0.096	-0.147	-0.180	-43.679
			22:COM9	26:COM13	26:COM13	30:COM17	26:COM13	18:COM5

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
10811	4506	+ve	35.240	28.572	0.511	7.347	0.097	55.324
			28:COM15	16:COM3	16:COM3	34:CVOL3	28:COM15	16:COM3
			-43.974	0.000	-0.054	0.000	-0.440	-26.690
			22:COM9	-	26:COM13	-	22:COM9	26:COM13
	4505	-ve	35.240	26.297	0.511	7.347	0.686	10.237
			28:COM15	16:COM3	16:COM3	34:CVOL3	16:COM3	24:COM11
			-43.974	0.000	-0.054	0.000	-0.130	-40.646
			22:COM9	-	26:COM13	-	26:COM13	18:COM5
10812	4507	+ve	7.531	0.000	0.762	5.898	1.648	25.922
			28:COM15	-	24:COM11	24:COM11	16:COM3	20:COM7
			-11.296	-30.186	-1.199	-6.316	-0.933	-4.069
			22:COM9	35:CVOL4	18:COM5	18:COM5	26:COM13	30:COM17
	4330	-ve	7.531	0.000	0.762	5.898	0.690	84.815
			28:COM15	-	24:COM11	24:COM11	20:COM7	16:COM3
			-11.296	-32.460	-1.199	-6.316	-0.838	0.000
			22:COM9	35:CVOL4	18:COM5	18:COM5	30:COM17	-
10813	4508	+ve	9.692	0.000	0.327	5.232	0.487	0.000
			28:COM15	-	24:COM11	24:COM11	16:COM3	-
			-14.167	-17.043	-0.902	-4.366	-0.020	-25.980
			22:COM9	35:CVOL4	18:COM5	18:COM5	26:COM13	22:COM9
	4507	-ve	9.692	0.000	0.327	5.232	0.805	26.130
			28:COM15	-	24:COM11	24:COM11	24:COM11	20:COM7
			-14.167	-19.316	-0.902	-4.366	-1.470	-3.942
			22:COM9	35:CVOL4	18:COM5	18:COM5	18:COM5	30:COM17
10814	4509	+ve	11.600	0.000	0.726	4.007	0.413	0.000
			28:COM15	-	16:COM3	24:COM11	24:COM11	-
			-18.187	-7.608	-0.571	-3.227	-0.514	-37.267
			22:COM9	22:COM9	26:COM13	18:COM5	18:COM5	22:COM9
	4508	-ve	11.600	0.000	0.726	4.007	0.949	0.000
			28:COM15	-	16:COM3	24:COM11	16:COM3	-
			-18.187	-9.881	-0.571	-3.227	-0.744	-25.834
			22:COM9	22:COM9	26:COM13	18:COM5	26:COM13	22:COM9
10815	4510	+ve	13.487	3.112	0.600	1.611	1.050	0.000
			28:COM15	20:COM7	24:COM11	28:COM15	16:COM3	-
			-21.360	-1.126	-0.930	-1.811	-0.704	-36.087
			22:COM9	30:COM17	18:COM5	22:COM9	26:COM13	35:CVOL4
	4509	-ve	13.487	1.137	0.600	1.611	0.490	0.000
			28:COM15	28:COM15	24:COM11	28:COM15	24:COM11	-
			-21.360	-3.130	-0.930	-1.811	-0.795	-37.275
			22:COM9	22:COM9	18:COM5	22:COM9	18:COM5	22:COM9
10816	4511	+ve	15.496	11.902	0.932	1.400	0.528	0.000
			28:COM15	16:COM3	16:COM3	24:COM11	24:COM11	-
			-23.778	0.000	-0.695	-2.778	-0.882	-22.128
			22:COM9	-	26:COM13	18:COM5	18:COM5	18:COM5
	4510	-ve	15.496	9.628	0.932	1.400	0.960	0.000
			28:COM15	16:COM3	16:COM3	24:COM11	16:COM3	-
			-23.778	-0.429	-0.695	-2.778	-0.847	-36.129
			22:COM9	26:COM13	26:COM13	18:COM5	26:COM13	35:CVOL4

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
10817	4512	+ve	16.640	23.657	0.738	4.691	0.198	32.057
			28:COM15	16:COM3	20:COM7	16:COM3	28:COM15	16:COM3
			-26.701	0.000	-0.191	-5.688	-0.652	-11.185
			22:COM9	-	30:COM17	26:COM13	22:COM9	26:COM13
	4511	-ve	16.640	21.384	0.738	4.691	0.854	0.000
			28:COM15	16:COM3	20:COM7	16:COM3	20:COM7	-
			-26.701	0.000	-0.191	-5.688	-0.229	-22.262
			22:COM9	-	30:COM17	26:COM13	30:COM17	18:COM5
10818	4513	+ve	94.617	54.007	8.428	1.974	0.000	161.394
			34:CVOL3	34:CVOL3	34:CVOL3	28:COM15	-	34:CVOL3
			0.000	0.000	0.000	-2.973	-8.651	0.000
			-	-	-	22:COM9	34:CVOL3	-
	4577	-ve	94.617	50.660	8.428	1.974	7.656	60.142
			34:CVOL3	34:CVOL3	34:CVOL3	28:COM15	34:CVOL3	34:CVOL3
			0.000	0.000	0.000	-2.973	0.000	0.000
			-	-	-	22:COM9	-	-
10819	4514	+ve	147.108	77.121	5.074	4.911	0.000	274.347
			34:CVOL3	34:CVOL3	16:COM3	20:COM7	-	34:CVOL3
			0.000	0.000	0.000	-1.706	-3.457	0.000
			-	-	-	30:COM17	18:COM5	-
	4513	-ve	147.108	74.296	5.074	4.911	4.833	150.722
			34:CVOL3	34:CVOL3	16:COM3	20:COM7	16:COM3	34:CVOL3
			0.000	0.000	0.000	-1.706	0.000	0.000
			-	-	-	30:COM17	-	-
10820	4434	+ve	268.026	0.000	9.281	0.000	0.000	341.251
			34:CVOL3	-	20:COM7	-	-	34:CVOL3
			0.000	-112.163	0.000	-11.022	-6.486	0.000
			-	34:CVOL3	-	22:COM9	22:COM9	-
	4312	-ve	268.026	0.000	9.281	0.000	8.713	527.648
			34:CVOL3	-	20:COM7	-	20:COM7	34:CVOL3
			0.000	-115.562	0.000	-11.022	0.000	0.000
			-	34:CVOL3	-	22:COM9	-	-
10821	4433	+ve	193.112	0.000	0.000	0.000	4.331	205.174
			34:CVOL3	-	-	-	20:COM7	34:CVOL3
			0.000	-91.106	-3.746	-7.225	0.000	0.000
			-	34:CVOL3	22:COM9	22:COM9	-	-
	4434	-ve	193.112	0.000	0.000	0.000	0.848	356.707
			34:CVOL3	-	-	-	28:COM15	34:CVOL3
			0.000	-94.496	-3.746	-7.225	-1.806	0.000
			-	34:CVOL3	22:COM9	22:COM9	22:COM9	-
10822	4515	+ve	19.913	0.000	0.018	0.140	0.107	14.221
			28:COM15	-	24:COM11	24:COM11	16:COM3	16:COM3
			-24.405	-6.897	-0.124	-1.195	-0.012	-6.408
			22:COM9	18:COM5	18:COM5	18:COM5	26:COM13	26:COM13
	4361	-ve	19.913	0.000	0.018	0.140	0.024	23.233
			28:COM15	-	24:COM11	24:COM11	24:COM11	16:COM3
			-24.405	-8.714	-0.124	-1.195	-0.137	0.000
			22:COM9	18:COM5	18:COM5	18:COM5	18:COM5	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
10823	4516	+ve	21.664	0.000	0.035	0.000	0.012	3.306
			28:COM15	-	16:COM3	-	24:COM11	24:COM11
			-22.855	-5.869	-0.006	-0.950	-0.049	-12.929
			22:COM9	18:COM5	26:COM13	35:CVOL4	18:COM5	18:COM5
	4515	-ve	21.664	0.000	0.035	0.000	0.032	13.995
			28:COM15	-	16:COM3	-	20:COM7	16:COM3
			-22.855	-7.685	-0.006	-0.950	-0.011	-6.537
			22:COM9	18:COM5	26:COM13	35:CVOL4	30:COM17	26:COM13
10824	4517	+ve	23.512	1.478	0.061	0.000	0.018	0.000
			20:COM7	24:COM11	16:COM3	-	24:COM11	-
			-22.649	-4.337	-0.012	-0.602	-0.059	-14.028
			30:COM17	18:COM5	26:COM13	18:COM5	18:COM5	18:COM5
	4516	-ve	23.512	0.116	0.061	0.000	0.065	3.175
			20:COM7	24:COM11	16:COM3	-	16:COM3	24:COM11
			-22.649	-6.152	-0.012	-0.602	-0.010	-13.060
			30:COM17	18:COM5	26:COM13	18:COM5	26:COM13	18:COM5
10825	4518	+ve	25.023	4.185	0.028	0.150	0.021	0.000
			20:COM7	16:COM3	16:COM3	24:COM11	16:COM3	-
			-22.544	-1.540	-0.015	-0.168	-0.024	-13.643
			30:COM17	26:COM13	26:COM13	18:COM5	26:COM13	18:COM5
	4517	-ve	25.023	2.370	0.028	0.150	0.039	0.000
			20:COM7	16:COM3	16:COM3	24:COM11	20:COM7	-
			-22.544	-2.902	-0.015	-0.168	-0.016	-14.049
			30:COM17	26:COM13	26:COM13	18:COM5	30:COM17	18:COM5
10826	4519	+ve	26.369	7.596	0.012	0.573	0.051	6.615
			20:COM7	16:COM3	24:COM11	16:COM3	16:COM3	24:COM11
			-22.305	0.000	-0.039	0.000	-0.012	-10.351
			30:COM17	-	18:COM5	-	26:COM13	18:COM5
	4518	-ve	26.369	5.780	0.012	0.573	0.024	0.000
			20:COM7	16:COM3	24:COM11	16:COM3	28:COM15	-
			-22.305	-0.821	-0.039	0.000	-0.038	-13.628
			30:COM17	26:COM13	18:COM5	-	22:COM9	18:COM5
10827	4520	+ve	27.316	9.596	0.007	0.959	0.044	22.706
			20:COM7	16:COM3	24:COM11	35:CVOL4	20:COM7	16:COM3
			-22.143	0.000	-0.031	0.000	-0.017	-5.143
			30:COM17	-	18:COM5	-	30:COM17	26:COM13
	4519	-ve	27.316	7.781	0.007	0.959	0.016	6.734
			20:COM7	16:COM3	24:COM11	35:CVOL4	24:COM11	24:COM11
			-22.143	0.000	-0.031	0.000	-0.035	-10.222
			30:COM17	-	18:COM5	-	18:COM5	18:COM5
10828	4521	+ve	9.143	0.000	0.000	0.000	0.097	19.805
			28:COM15	-	-	-	16:COM3	16:COM3
			-14.599	-6.042	-0.110	-0.945	0.000	-8.584
			22:COM9	35:CVOL4	22:COM9	22:COM9	-	26:COM13
	4362	-ve	9.143	0.000	0.000	0.000	0.010	31.299
			28:COM15	-	-	-	28:COM15	16:COM3
			-14.599	-7.876	-0.110	-0.945	-0.128	0.000
			22:COM9	35:CVOL4	22:COM9	22:COM9	22:COM9	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
10829	4522	+ve	11.599	0.000	0.022	0.000	0.016	6.239
			28:COM15	-	16:COM3	-	24:COM11	24:COM1
			-14.828	-6.684	-0.009	-0.901	-0.034	-13.508
			22:COM9	18:COM5	26:COM13	18:COM5	18:COM5	18:COM5
	4521	-ve	11.599	0.000	0.022	0.000	0.014	19.559
			28:COM15	-	16:COM3	-	20:COM7	16:COM3
			-14.828	-8.517	-0.009	-0.901	-0.007	-8.670
			22:COM9	18:COM5	26:COM13	18:COM5	30:COM17	26:COM13
10830	4523	+ve	13.901	1.214	0.066	0.045	0.024	0.000
			28:COM15	24:COM11	20:COM7	24:COM1	28:COM15	-
			-16.912	-5.201	-0.007	-0.545	-0.074	-15.848
			22:COM9	18:COM5	30:COM17	18:COM5	22:COM9	18:COM5
	4522	-ve	13.901	0.000	0.066	0.045	0.059	6.092
			28:COM15	-	20:COM7	24:COM1	16:COM3	24:COM1
			-16.912	-7.035	-0.007	-0.545	0.000	-13.578
			22:COM9	18:COM5	30:COM17	18:COM5	-	18:COM5
10831	4524	+ve	15.844	4.830	0.000	0.144	0.053	0.000
			28:COM15	16:COM3	-	24:COM1	16:COM3	-
			-18.521	-1.726	-0.046	-0.255	0.000	-14.612
			22:COM9	26:COM13	18:COM5	18:COM5	-	18:COM5
	4523	-ve	15.844	2.996	0.000	0.144	0.000	0.000
			28:COM15	16:COM3	-	24:COM1	-	-
			-18.521	-3.102	-0.046	-0.255	-0.040	-16.261
			22:COM9	26:COM13	18:COM5	18:COM5	22:COM9	18:COM5
10832	4525	+ve	17.472	7.298	0.017	0.504	0.061	5.798
			28:COM15	16:COM3	28:COM15	20:COM7	16:COM3	24:COM1
			-19.301	0.000	-0.056	-0.053	-0.014	-12.719
			22:COM9	-	22:COM9	30:COM17	26:COM13	18:COM5
	4524	-ve	17.472	5.465	0.017	0.504	0.026	0.000
			28:COM15	16:COM3	28:COM15	20:COM7	28:COM15	-
			-19.301	-1.286	-0.056	-0.053	-0.058	-14.647
			22:COM9	26:COM13	22:COM9	30:COM17	22:COM9	18:COM5
10833	4526	+ve	18.413	8.293	0.010	0.861	0.018	18.887
			28:COM15	16:COM3	28:COM15	20:COM7	16:COM3	16:COM3
			-20.905	0.000	-0.022	0.000	-0.012	-7.348
			22:COM9	-	22:COM9	-	26:COM13	26:COM13
	4525	-ve	18.413	6.460	0.010	0.861	0.021	5.934
			28:COM15	16:COM3	28:COM15	20:COM7	28:COM15	24:COM1
			-20.905	0.000	-0.022	0.000	-0.038	-12.630
			22:COM9	-	22:COM9	-	22:COM9	18:COM5
10834	4529	+ve	8.175	7.875	0.011	0.661	0.048	11.345
			28:COM15	35:CVOL4	28:COM15	16:COM3	20:COM7	16:COM3
			-12.105	0.000	-0.057	-0.512	-0.008	-1.394
			22:COM9	-	22:COM9	26:COM13	30:COM17	26:COM13
	4528	-ve	8.175	6.043	0.011	0.661	0.017	1.353
			28:COM15	35:CVOL4	28:COM15	16:COM3	28:COM15	24:COM1
			-12.105	0.000	-0.057	-0.512	-0.068	-10.361
			22:COM9	-	22:COM9	26:COM13	22:COM9	18:COM5

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
10836	4531	+ve	3.622	66.779	1.306	0.017	1.181	14.479
			28:COM15	16:COM3	24:COM11	24:COM11	24:COM11	16:COM3
			-4.273	-52.404	-1.428	-3.799	-1.091	0.000
			22:COM9	26:COM13	18:COM5	18:COM5	18:COM5	-
	5473	-ve	3.622	64.454	1.306	0.017	1.558	108.901
			28:COM15	16:COM3	24:COM11	24:COM11	24:COM11	24:COM11
			-4.273	-54.148	-1.428	-3.799	-1.713	-118.075
			22:COM9	26:COM13	18:COM5	18:COM5	18:COM5	18:COM5
10838	4431	+ve	19.930	93.282	1.626	0.000	1.138	10.484
			16:COM3	16:COM3	20:COM7	-	28:COM15	24:COM11
			-15.851	-84.421	-1.207	-7.165	-1.442	-15.222
			26:COM13	26:COM13	30:COM17	18:COM5	22:COM9	18:COM5
	5487	-ve	19.930	90.491	1.626	0.000	1.840	159.078
			16:COM3	16:COM3	20:COM7	-	20:COM7	24:COM11
			-15.851	-86.514	-1.207	-7.165	-1.300	-176.761
			26:COM13	26:COM13	30:COM17	18:COM5	30:COM17	18:COM5
10840	4596	+ve	40.283	65.223	30.538	27.343	7.666	106.507
			28:COM15	20:COM7	20:COM7	24:COM11	28:COM15	20:COM7
			-59.671	-16.318	-13.418	-46.811	-16.434	-26.078
			22:COM9	30:COM17	30:COM17	18:COM5	22:COM9	30:COM17
	4641	-ve	40.283	62.842	30.538	27.343	13.994	43.116
			28:COM15	20:COM7	20:COM7	24:COM11	16:COM3	20:COM7
			-59.671	-17.747	-13.418	-46.811	-5.807	-9.235
			22:COM9	30:COM17	30:COM17	18:COM5	26:COM13	30:COM17
10841	4535	+ve	13.904	16.557	0.058	0.973	0.037	0.000
			24:COM11	34:CVOL3	20:COM7	16:COM3	28:COM15	-
			-17.804	0.000	-0.049	0.000	-0.050	-20.072
			18:COM5	-	30:COM17	-	22:COM9	18:COM5
	4556	-ve	13.904	13.052	0.058	0.973	0.066	0.000
			24:COM11	35:CVOL4	20:COM7	16:COM3	20:COM7	-
			-17.804	0.000	-0.049	0.000	-0.060	-45.267
			18:COM5	-	30:COM17	-	30:COM17	34:CVOL3
10842	4536	+ve	14.416	22.005	0.015	0.808	0.069	28.403
			24:COM11	34:CVOL3	28:COM15	34:CVOL3	16:COM3	16:COM3
			-18.611	0.000	-0.067	0.000	-0.012	0.000
			18:COM5	-	22:COM9	-	26:COM13	-
	4535	-ve	14.416	18.382	0.015	0.808	0.026	0.000
			24:COM11	34:CVOL3	28:COM15	34:CVOL3	28:COM15	-
			-18.611	0.000	-0.067	0.000	-0.072	-20.436
			18:COM5	-	22:COM9	-	22:COM9	18:COM5
10843	4537	+ve	26.638	7.921	0.328	0.524	0.340	8.699
			28:COM15	34:CVOL3	20:COM7	20:COM7	28:COM15	28:COM15
			-34.448	0.000	-0.287	-0.081	-0.389	-21.316
			22:COM9	-	30:COM17	30:COM17	22:COM9	22:COM9
	4545	-ve	26.638	5.188	0.328	0.524	0.262	4.073
			28:COM15	35:CVOL4	20:COM7	20:COM7	20:COM7	28:COM15
			-34.448	0.000	-0.287	-0.081	-0.228	-32.257
			22:COM9	-	30:COM17	30:COM17	30:COM17	22:COM9

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
10844	4538	+ve	20.071	9.020	0.388	2.143	0.309	12.061
			28:COM15	20:COM7	20:COM7	20:COM7	28:COM15	20:COM7
			-30.518	0.000	-0.332	0.000	-0.375	-7.479
			22:COM9	-	30:COM17	-	22:COM9	30:COM17
	4537	-ve	20.071	6.280	0.388	2.143	0.406	8.201
			28:COM15	20:COM7	20:COM7	20:COM7	20:COM7	28:COM15
			-30.518	0.000	-0.332	0.000	-0.359	-21.435
			22:COM9	-	30:COM17	-	30:COM17	22:COM9
10845	4539	+ve	13.180	12.271	0.287	1.541	0.057	23.889
			28:COM15	34:CVOL3	20:COM7	34:CVOL3	28:COM15	20:COM7
			-29.525	0.000	-0.101	0.000	-0.284	0.000
			22:COM9	-	30:COM17	-	22:COM9	-
	4538	-ve	13.180	9.372	0.287	1.541	0.279	11.429
			28:COM15	20:COM7	20:COM7	34:CVOL3	20:COM7	20:COM7
			-29.525	0.000	-0.101	0.000	-0.141	-7.603
			22:COM9	-	30:COM17	-	30:COM17	30:COM17
10847	4542	+ve	33.763	11.867	0.090	0.000	0.044	19.068
			28:COM15	34:CVOL3	28:COM15	-	28:COM15	16:COM3
			-40.453	0.000	-0.087	-0.274	-0.068	-0.286
			22:COM9	-	22:COM9	35:CVOL4	22:COM9	26:COM13
	4541	-ve	33.763	8.424	0.090	0.000	0.107	2.684
			28:COM15	34:CVOL3	28:COM15	-	28:COM15	24:COM17
			-40.453	0.000	-0.087	-0.274	-0.126	-8.216
			22:COM9	-	22:COM9	35:CVOL4	22:COM9	18:COM5
10848	4543	+ve	36.136	0.000	0.113	0.304	0.067	9.419
			28:COM15	-	20:COM7	24:COM17	28:COM15	28:COM15
			-40.443	-25.998	-0.093	-0.129	-0.106	-10.409
			22:COM9	22:COM9	30:COM17	18:COM5	22:COM9	22:COM9
	4371	-ve	36.136	0.000	0.113	0.304	0.119	62.915
			28:COM15	-	20:COM7	24:COM17	20:COM7	20:COM7
			-40.443	-28.690	-0.093	-0.129	-0.118	0.000
			22:COM9	22:COM9	30:COM17	18:COM5	30:COM17	-
10849	4544	+ve	31.950	0.000	0.106	0.000	0.080	0.000
			28:COM15	-	20:COM7	-	28:COM15	-
			-37.402	-22.460	-0.070	-2.686	-0.105	-42.027
			22:COM9	22:COM9	30:COM17	22:COM9	22:COM9	34:CVOL3
	4543	-ve	31.950	0.000	0.106	0.000	0.108	9.594
			28:COM15	-	20:COM7	-	20:COM7	28:COM15
			-37.402	-25.160	-0.070	-2.686	-0.061	-9.809
			22:COM9	22:COM9	30:COM17	22:COM9	30:COM17	22:COM9
10850	4545	+ve	30.847	6.914	0.079	0.732	0.062	3.798
			28:COM15	20:COM7	16:COM3	20:COM7	28:COM15	28:COM15
			-37.400	0.000	-0.058	-0.858	-0.085	-32.137
			22:COM9	-	26:COM13	30:COM17	22:COM9	22:COM9
	4544	-ve	30.847	4.244	0.079	0.732	0.102	0.000
			28:COM15	35:CVOL4	16:COM3	20:COM7	16:COM3	-
			-37.400	-1.229	-0.058	-0.858	-0.083	-35.905
			22:COM9	30:COM17	26:COM13	30:COM17	26:COM13	22:COM9

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
10871	4520	+ve	0.053	0.910	0.000	0.000	0.124	0.289
			24:COM1	24:COM1	-	-	35:CVOL4	24:COM1
			-6.121	-3.000	-0.200	-0.269	0.000	-1.248
			18:COM5	18:COM5	35:CVOL4	35:CVOL4	-	18:COM5
	4500	-ve	0.053	0.000	0.000	0.000	0.000	4.174
			24:COM1	-	-	-	-	16:COM3
			-6.121	-5.666	-0.200	-0.269	-0.125	-0.071
			18:COM5	18:COM5	35:CVOL4	35:CVOL4	35:CVOL4	26:COM1
10872	4519	+ve	0.348	1.430	0.000	0.000	0.098	0.373
			24:COM1	16:COM3	-	-	16:COM3	16:COM3
			-2.566	-0.380	-0.152	-0.198	0.000	-0.179
			18:COM5	26:COM1	18:COM5	18:COM5	-	26:COM1
	4499	-ve	0.348	0.000	0.000	0.000	0.000	1.404
			24:COM1	-	-	-	-	16:COM3
			-2.566	-2.482	-0.152	-0.198	-0.092	-0.075
			18:COM5	18:COM5	18:COM5	18:COM5	18:COM5	26:COM1
10873	4518	+ve	0.779	2.272	0.032	0.018	0.041	0.599
			20:COM7	35:CVOL4	24:COM1	24:COM1	16:COM3	35:CVOL4
			-0.911	0.000	-0.063	-0.090	-0.021	0.000
			30:COM1	-	18:COM5	18:COM5	26:COM1	-
	4498	-ve	0.779	0.000	0.032	0.018	0.019	0.294
			20:COM7	-	24:COM1	24:COM1	24:COM1	32:CVOL1
			-0.911	-1.082	-0.063	-0.090	-0.038	-0.200
			30:COM1	18:COM5	18:COM5	18:COM5	18:COM5	35:CVOL4
10874	4517	+ve	1.088	2.292	0.108	0.097	0.006	0.605
			20:COM7	35:CVOL4	16:COM3	16:COM3	24:COM1	35:CVOL4
			-1.103	0.000	-0.009	-0.016	-0.070	0.000
			30:COM1	-	26:COM1	26:COM1	18:COM5	-
	4497	-ve	1.088	0.000	0.108	0.097	0.065	0.415
			20:COM7	-	16:COM3	16:COM3	16:COM3	24:COM1
			-1.103	-1.192	-0.009	-0.016	-0.005	-0.280
			30:COM1	18:COM5	26:COM1	26:COM1	26:COM1	18:COM5
10875	4516	+ve	1.121	2.021	0.196	0.204	0.000	0.548
			24:COM1	16:COM3	16:COM3	16:COM3	-	16:COM3
			-3.005	-0.903	0.000	0.000	-0.127	-0.331
			18:COM5	26:COM1	-	-	18:COM5	26:COM1
	4496	-ve	1.121	0.152	0.196	0.204	0.118	1.843
			24:COM1	24:COM1	16:COM3	16:COM3	16:COM3	16:COM3
			-3.005	-2.950	0.000	0.000	0.000	-0.576
			18:COM5	18:COM5	-	-	-	26:COM1
10876	4515	+ve	1.481	2.161	0.221	0.267	0.000	0.776
			24:COM1	24:COM1	35:CVOL4	35:CVOL4	-	24:COM1
			-6.835	-3.989	0.000	0.000	-0.139	-1.642
			18:COM5	18:COM5	-	-	34:CVOL3	18:COM5
	4495	-ve	1.481	0.912	0.221	0.267	0.137	5.016
			24:COM1	24:COM1	35:CVOL4	35:CVOL4	35:CVOL4	16:COM3
			-6.835	-6.655	0.000	0.000	0.000	-1.149
			18:COM5	18:COM5	-	-	-	26:COM1

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
10877	4526	+ve	0.969	1.804	0.000	0.000	0.122	0.644
			24:COM1	24:COM11	-	-	20:COM7	24:COM1
			-7.859	-4.764	-0.198	-0.238	0.000	-1.883
			18:COM5	18:COM5	22:COM9	34:CVOL3	-	18:COM5
	4506	-ve	0.969	0.554	0.000	0.000	0.000	5.743
			24:COM1	24:COM11	-	-	-	16:COM3
			-7.859	-7.431	-0.198	-0.238	-0.125	-0.832
			18:COM5	18:COM5	22:COM9	34:CVOL3	22:COM9	26:COM1
10878	4524	+ve	0.000	1.061	0.052	0.034	0.051	0.294
			-	35:CVOL4	28:COM1	28:COM1	20:COM7	20:COM7
			-1.998	0.000	-0.077	-0.062	-0.034	-0.055
			18:COM5	-	22:COM9	22:COM9	30:COM1	30:COM1
	4504	-ve	0.000	0.000	0.052	0.034	0.032	1.032
			-	-	28:COM1	28:COM1	28:COM1	16:COM3
			-1.998	-2.247	-0.077	-0.062	-0.045	0.000
			18:COM5	34:CVOL3	22:COM9	22:COM9	22:COM9	-
10879	4523	+ve	1.933	3.879	0.656	3.416	0.346	0.328
			20:COM7	35:CVOL4	20:COM7	16:COM3	28:COM1	20:COM7
			-1.452	0.000	-0.561	-0.612	-0.437	0.000
			30:COM1	-	30:COM1	26:COM1	22:COM9	-
	4503	-ve	1.933	0.000	0.656	3.416	0.387	0.732
			20:COM7	-	20:COM7	16:COM3	20:COM7	24:COM1
			-1.452	-1.873	-0.561	-0.612	-0.358	-1.838
			30:COM1	32:CVOL1	30:COM1	26:COM1	30:COM1	35:CVOL4
10880	4522	+ve	0.228	1.020	0.168	0.194	0.001	0.266
			24:COM1	16:COM3	20:COM7	16:COM3	28:COM1	20:COM7
			-3.468	-0.616	-0.001	0.000	-0.109	-0.237
			18:COM5	26:COM1	30:COM1	-	22:COM9	30:COM1
	4502	-ve	0.228	0.000	0.168	0.194	0.102	1.935
			24:COM1	-	20:COM7	16:COM3	20:COM7	16:COM3
			-3.468	-3.023	-0.001	0.000	-0.001	0.000
			18:COM5	18:COM5	30:COM1	-	30:COM1	-
10881	4521	+ve	0.564	1.407	0.187	0.238	0.000	0.509
			24:COM1	24:COM11	34:CVOL3	34:CVOL3	-	24:COM1
			-6.617	-3.614	0.000	0.000	-0.116	-1.437
			18:COM5	18:COM5	-	-	34:CVOL3	18:COM5
	4501	-ve	0.564	0.158	0.187	0.238	0.117	4.751
			24:COM1	24:COM11	34:CVOL3	34:CVOL3	34:CVOL3	16:COM3
			-6.617	-6.280	0.000	0.000	0.000	-0.472
			18:COM5	18:COM5	-	-	-	26:COM1
10882	4525	+ve	0.511	1.433	0.015	0.000	0.118	0.409
			24:COM1	16:COM3	28:COM1	-	20:COM7	16:COM3
			-4.129	-1.182	-0.182	-0.190	-0.010	-0.383
			18:COM5	26:COM1	22:COM9	22:COM9	30:COM1	26:COM1
	4505	-ve	0.511	0.000	0.015	0.000	0.009	2.425
			24:COM1	-	28:COM1	-	28:COM1	16:COM3
			-4.129	-3.505	-0.182	-0.190	-0.109	-0.264
			18:COM5	18:COM5	22:COM9	22:COM9	22:COM9	26:COM1

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
10883	4529	+ve	2.817	2.817	0.075	0.114	0.083	0.935
			24:COM1	24:COM1	24:COM1	24:COM1	16:COM3	24:COM1
			-6.728	-3.751	-0.134	-0.172	-0.045	-1.461
			18:COM5	18:COM5	18:COM5	18:COM5	26:COM1	18:COM5
	4512	-ve	2.817	1.568	0.075	0.114	0.049	4.898
			24:COM1	24:COM1	24:COM1	24:COM1	24:COM1	16:COM3
			-6.728	-6.418	-0.134	-0.172	-0.084	-1.807
			18:COM5	18:COM5	18:COM5	18:COM5	18:COM5	26:COM1
10884	4528	+ve	2.622	2.194	0.121	0.125	0.094	0.277
			16:COM3	16:COM3	24:COM1	24:COM1	16:COM3	16:COM3
			-3.215	-0.967	-0.143	-0.134	-0.074	-0.210
			26:COM1	26:COM1	18:COM5	18:COM5	26:COM1	26:COM1
	4511	-ve	2.622	0.289	0.121	0.125	0.077	1.947
			16:COM3	24:COM1	24:COM1	24:COM1	24:COM1	16:COM3
			-3.215	-2.977	-0.143	-0.134	-0.084	-0.965
			26:COM1	18:COM5	18:COM5	18:COM5	18:COM5	26:COM1
10885	4527	+ve	1.812	2.001	0.076	0.036	0.055	0.383
			16:COM3	35:CVOL4	24:COM1	24:COM1	16:COM3	16:COM3
			-0.771	0.000	-0.088	-0.024	-0.047	-0.194
			26:COM1	-	18:COM5	18:COM5	26:COM1	26:COM1
	4510	-ve	1.812	0.000	0.076	0.036	0.048	0.376
			16:COM3	-	24:COM1	24:COM1	24:COM1	24:COM1
			-0.771	-1.291	-0.088	-0.024	-0.055	-0.247
			26:COM1	34:CVOL3	18:COM5	18:COM5	18:COM5	18:COM5
10886	4433	+ve	3.592	10.327	0.000	0.090	0.151	17.299
			34:CVOL3	34:CVOL3	-	20:COM7	34:CVOL3	34:CVOL3
			0.000	0.000	-0.081	0.000	0.000	0.000
			-	-	34:CVOL3	-	-	-
	4672	-ve	3.592	0.000	0.000	0.090	0.000	0.000
			34:CVOL3	-	-	20:COM7	-	-
			0.000	-2.257	-0.081	0.000	-0.182	-0.540
			-	35:CVOL4	34:CVOL3	-	34:CVOL3	34:CVOL3
10887	4434	+ve	3.846	9.678	0.000	0.088	0.080	16.269
			16:COM3	34:CVOL3	-	20:COM7	20:COM7	34:CVOL3
			0.000	0.000	-0.042	0.000	-0.001	0.000
			-	-	22:COM9	-	30:COM1	-
	4673	-ve	3.846	0.000	0.000	0.088	0.000	1.129
			16:COM3	-	-	20:COM7	-	34:CVOL3
			0.000	-2.825	-0.042	0.000	-0.095	0.000
			-	35:CVOL4	22:COM9	-	22:COM9	-
10888	4431	+ve	0.315	11.154	0.013	0.857	0.018	23.459
			28:COM1	34:CVOL3	16:COM3	16:COM3	24:COM1	16:COM3
			-1.600	0.000	-0.010	-0.087	-0.027	0.000
			22:COM9	-	26:COM1	26:COM1	18:COM5	-
	4668	-ve	0.315	1.554	0.013	0.857	0.028	1.247
			28:COM1	24:COM1	16:COM3	16:COM3	16:COM3	16:COM3
			-1.600	-2.512	-0.010	-0.087	-0.021	-0.586
			22:COM9	18:COM5	26:COM1	26:COM1	26:COM1	26:COM1

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
10889	4546	+ve	0.723	11.644	0.000	0.673	0.269	26.607
			28:COM1	20:COM7	-	20:COM7	20:COM7	20:COM7
			-12.668	0.000	-0.254	-0.318	0.000	0.000
			22:COM9	-	22:COM9	30:COM1	-	-
	4547	-ve	0.723	9.539	0.000	0.673	0.007	5.956
			28:COM1	20:COM7	-	20:COM7	28:COM1	28:COM1
			-12.668	0.000	-0.254	-0.318	-0.235	-6.371
			22:COM9	-	22:COM9	30:COM1	22:COM9	22:COM9
10890	4547	+ve	2.828	8.549	0.083	0.392	0.182	6.043
			28:COM1	20:COM7	28:COM1	20:COM7	20:COM7	28:COM1
			-10.109	0.000	-0.183	-0.196	-0.065	-6.501
			22:COM9	-	22:COM9	30:COM1	30:COM1	22:COM9
	4548	-ve	2.828	6.444	0.083	0.392	0.100	0.000
			28:COM1	20:COM7	28:COM1	20:COM7	28:COM1	-
			-10.109	0.000	-0.183	-0.196	-0.181	-13.711
			22:COM9	-	22:COM9	30:COM1	22:COM9	35:CVOL4
10891	4548	+ve	5.148	4.760	0.094	0.110	0.135	0.000
			28:COM1	20:COM7	28:COM1	24:COM1	20:COM7	-
			-10.104	-0.658	-0.124	-0.049	-0.096	-13.721
			22:COM9	30:COM1	22:COM9	18:COM5	30:COM1	35:CVOL4
	4549	-ve	5.148	2.655	0.094	0.110	0.090	0.000
			28:COM1	20:COM7	28:COM1	24:COM1	28:COM1	-
			-10.104	-2.236	-0.124	-0.049	-0.111	-16.565
			22:COM9	30:COM1	22:COM9	18:COM5	22:COM9	35:CVOL4
10892	4549	+ve	6.300	1.387	0.021	0.313	0.048	0.000
			28:COM1	28:COM1	28:COM1	28:COM1	20:COM7	-
			-11.817	-4.115	-0.046	-0.579	-0.025	-16.559
			22:COM9	22:COM9	22:COM9	22:COM9	30:COM1	35:CVOL4
	4550	-ve	6.300	0.000	0.021	0.313	0.020	2.514
			28:COM1	-	28:COM1	28:COM1	28:COM1	28:COM1
			-11.817	-6.220	-0.046	-0.579	-0.047	-15.465
			22:COM9	22:COM9	22:COM9	22:COM9	22:COM9	22:COM9
10893	4550	+ve	7.291	0.000	0.059	0.664	0.000	8.151
			28:COM1	-	20:COM7	20:COM7	-	28:COM1
			-13.727	-7.133	0.000	-0.651	-0.062	-21.719
			22:COM9	22:COM9	-	30:COM1	22:COM9	22:COM9
	4551	-ve	7.291	0.000	0.059	0.664	0.061	14.394
			28:COM1	-	20:COM7	20:COM7	20:COM7	20:COM7
			-13.727	-9.238	0.000	-0.651	0.000	-7.126
			22:COM9	22:COM9	-	30:COM1	-	30:COM1
10894	4551	+ve	7.617	0.000	0.013	0.026	0.098	14.585
			28:COM1	-	28:COM1	28:COM1	20:COM7	20:COM7
			-15.348	-11.305	-0.099	-0.986	-0.026	-7.295
			22:COM9	22:COM9	22:COM9	22:COM9	30:COM1	30:COM1
	4358	-ve	7.617	0.000	0.013	0.026	0.006	30.624
			28:COM1	-	28:COM1	28:COM1	28:COM1	20:COM7
			-15.348	-13.408	-0.099	-0.986	-0.104	0.000
			22:COM9	22:COM9	22:COM9	22:COM9	22:COM9	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
10900	4556	+ve	12.809	11.900	0.094	1.131	0.066	0.000
			24:COM1	34:CVOL3	16:COM3	16:COM3	24:COM1	-
			-16.951	0.000	-0.084	0.000	-0.079	-44.993
			18:COM5	-	26:COM1	-	18:COM5	34:CVOL3
	4557	-ve	12.809	9.735	0.094	1.131	0.108	0.000
			24:COM1	35:CVOL4	16:COM3	16:COM3	16:COM3	-
			-16.951	0.000	-0.084	0.000	-0.099	-64.895
			18:COM5	-	26:COM1	-	26:COM1	34:CVOL3
10901	4557	+ve	14.871	0.000	0.098	0.000	0.121	0.000
			24:COM1	-	24:COM1	-	16:COM3	-
			-18.834	-18.114	-0.103	-1.473	-0.118	-67.108
			18:COM5	35:CVOL4	18:COM5	34:CVOL3	26:COM1	34:CVOL3
	4558	-ve	14.871	0.000	0.098	0.000	0.076	0.000
			24:COM1	-	24:COM1	-	24:COM1	-
			-18.834	-21.503	-0.103	-1.473	-0.083	-28.833
			18:COM5	34:CVOL3	18:COM5	34:CVOL3	18:COM5	18:COM5
10902	4558	+ve	13.302	0.000	0.067	0.000	0.035	0.000
			24:COM1	-	16:COM3	-	28:COM1	-
			-17.002	-22.472	-0.027	-1.222	-0.074	-29.248
			18:COM5	34:CVOL3	26:COM1	34:CVOL3	22:COM9	18:COM5
	4559	-ve	13.302	0.000	0.067	0.000	0.062	23.693
			24:COM1	-	16:COM3	-	16:COM3	16:COM3
			-17.002	-26.095	-0.027	-1.222	-0.022	0.000
			18:COM5	34:CVOL3	26:COM1	34:CVOL3	26:COM1	-
10904	4560	+ve	0.000	0.000	1.146	0.103	0.000	19.750
			-	-	34:CVOL3	28:COM1	-	34:CVOL3
			-12.033	-5.747	0.000	-0.506	-0.970	0.000
			22:COM9	22:COM9	-	22:COM9	34:CVOL3	-
	4561	-ve	0.000	0.000	1.146	0.103	0.902	30.372
			-	-	34:CVOL3	28:COM1	34:CVOL3	34:CVOL3
			-12.033	-7.480	0.000	-0.506	0.000	0.000
			22:COM9	22:COM9	-	22:COM9	-	-
10905	4561	+ve	0.188	0.000	0.000	0.000	0.171	30.458
			28:COM1	-	-	-	34:CVOL3	34:CVOL3
			-15.517	-8.551	-0.518	-1.252	0.000	0.000
			22:COM9	34:CVOL3	34:CVOL3	22:COM9	-	-
	4359	-ve	0.188	0.000	0.000	0.000	0.000	45.791
			28:COM1	-	-	-	-	34:CVOL3
			-15.517	-10.279	-0.518	-1.252	-0.673	0.000
			22:COM9	34:CVOL3	34:CVOL3	22:COM9	34:CVOL3	-
10906	4560	+ve	3.969	0.000	0.154	0.191	0.000	0.075
			34:CVOL3	-	34:CVOL3	20:COM7	-	28:COM1
			0.000	-1.842	0.000	0.000	-0.249	-0.337
			-	32:CVOL1	-	-	34:CVOL3	22:COM9
	4513	-ve	3.969	0.000	0.154	0.191	0.219	16.853
			34:CVOL3	-	34:CVOL3	20:COM7	34:CVOL3	34:CVOL3
			0.000	-9.778	0.000	0.000	0.000	0.000
			-	34:CVOL3	-	-	-	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
10907	4561	+ve	0.000	1.272	0.062	0.144	0.000	0.000
			-	35:CVOL4	20:COM7	20:COM7	-	-
			-6.265	0.000	0.000	-0.031	-0.104	-0.497
			35:CVOL4	-	-	30:COM1	22:COM9	22:COM9
	4514	-ve	0.000	0.000	0.062	0.144	0.085	8.257
			-	-	20:COM7	20:COM7	20:COM7	34:CVOL3
			-6.265	-6.785	0.000	-0.031	0.000	0.000
			35:CVOL4	34:CVOL3	-	30:COM1	-	-
10931	4573	+ve	1.662	9.365	0.057	0.119	0.051	10.935
			28:COM1	24:COM11	24:COM11	24:COM1	16:COM3	34:CVOL3
			-2.449	-9.407	-0.062	-0.575	-0.044	0.000
			22:COM9	18:COM5	18:COM5	18:COM5	26:COM1	-
	5506	-ve	1.662	7.959	0.057	0.119	0.071	30.834
			28:COM1	24:COM11	24:COM11	24:COM1	24:COM11	16:COM3
			-2.449	-11.281	-0.062	-0.575	-0.074	-12.591
			22:COM9	18:COM5	18:COM5	18:COM5	18:COM5	26:COM1
10933	4573	+ve	0.322	2.169	0.133	0.124	0.128	0.810
			28:COM1	16:COM3	24:COM11	24:COM1	16:COM3	20:COM7
			-1.494	0.000	-0.203	-0.217	-0.083	0.000
			22:COM9	-	18:COM5	18:COM5	26:COM1	-
	4531	-ve	0.322	0.238	0.133	0.124	0.082	0.649
			28:COM1	24:COM11	24:COM11	24:COM1	24:COM11	16:COM3
			-1.494	-1.541	-0.203	-0.217	-0.126	-0.489
			22:COM9	18:COM5	18:COM5	18:COM5	18:COM5	26:COM1
10934	5506	+ve	2.115	7.932	0.589	24.716	0.000	0.726
			24:COM1	24:COM11	16:COM3	16:COM3	-	24:COM1
			-2.320	-18.417	-0.160	-4.153	-0.263	-0.982
			18:COM5	18:COM5	26:COM1	26:COM1	18:COM5	18:COM5
	5473	-ve	2.115	5.814	0.589	24.716	0.499	24.316
			24:COM1	24:COM11	16:COM3	16:COM3	16:COM3	16:COM3
			-2.320	-22.236	-0.160	-4.153	-0.302	-7.829
			18:COM5	18:COM5	26:COM1	26:COM1	26:COM1	26:COM1
10935	4575	+ve	53.972	0.000	0.000	0.728	8.522	17.642
			34:CVOL3	-	-	34:CVOL3	34:CVOL3	32:CVOL1
			0.000	-41.515	-8.999	-3.177	0.000	0.000
			-	34:CVOL3	34:CVOL3	33:CVOL2	-	-
	4576	-ve	53.972	0.000	0.000	0.728	0.000	102.396
			34:CVOL3	-	-	34:CVOL3	-	34:CVOL3
			0.000	-45.573	-8.999	-3.177	-9.073	0.000
			-	34:CVOL3	34:CVOL3	33:CVOL2	34:CVOL3	-
10936	4576	+ve	125.069	0.000	0.000	1.221	8.679	87.655
			34:CVOL3	-	-	20:COM7	34:CVOL3	34:CVOL3
			0.000	-64.977	-9.236	-3.510	0.000	0.000
			-	34:CVOL3	34:CVOL3	33:CVOL2	-	-
	4433	-ve	125.069	0.000	0.000	1.221	0.000	218.694
			34:CVOL3	-	-	20:COM7	-	34:CVOL3
			0.000	-69.037	-9.236	-3.510	-9.383	0.000
			-	34:CVOL3	34:CVOL3	33:CVOL2	34:CVOL3	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
10937	4577	+ve	41.380	35.037	8.564	0.000	0.000	70.936
			34:CVOL3	34:CVOL3	34:CVOL3	-	-	34:CVOL3
			0.000	0.000	0.000	-4.954	-8.937	0.000
			-	-	-	22:COM9	34:CVOL3	-
	4578	-ve	41.380	31.655	8.564	0.000	7.805	6.877
			34:CVOL3	34:CVOL3	34:CVOL3	-	34:CVOL3	32:CVOL1
			0.000	0.000	0.000	-4.954	0.000	0.000
			-	-	-	22:COM9	-	-
10938	4577	+ve	2.309	7.726	0.009	0.042	0.000	9.014
			20:COM7	35:CVOL4	16:COM3	28:COM1	-	35:CVOL4
			-0.072	0.000	-0.001	-0.037	-0.035	0.000
			30:COM1	-	26:COM1	22:COM9	18:COM5	-
	4576	-ve	2.309	0.000	0.009	0.042	0.018	14.840
			20:COM7	-	16:COM3	28:COM1	16:COM3	34:CVOL3
			-0.072	-9.447	-0.001	-0.037	-0.008	0.000
			30:COM1	34:CVOL3	26:COM1	22:COM9	26:COM1	-
10939	4578	+ve	9.933	18.728	11.282	1.404	0.000	12.397
			34:CVOL3	32:CVOL1	34:CVOL3	20:COM7	-	32:CVOL1
			0.000	0.000	0.000	-1.289	-5.173	0.000
			-	-	-	30:COM1	34:CVOL3	-
	4365	-ve	9.933	17.336	11.282	1.404	3.679	0.000
			34:CVOL3	34:CVOL3	34:CVOL3	20:COM7	34:CVOL3	-
			0.000	0.000	0.000	-1.289	0.000	-2.004
			-	-	-	30:COM1	-	34:CVOL3
10940	4578	+ve	0.000	7.808	0.004	0.030	0.000	8.012
			-	35:CVOL4	20:COM7	20:COM7	-	35:CVOL4
			-7.356	0.000	0.000	-0.014	-0.014	0.000
			22:COM9	-	-	30:COM1	22:COM9	-
	4575	-ve	0.000	0.000	0.004	0.030	0.008	10.121
			-	-	20:COM7	20:COM7	20:COM7	34:CVOL3
			-7.356	-8.460	0.000	-0.014	-0.001	0.000
			22:COM9	34:CVOL3	-	30:COM1	30:COM1	-
10941	4579	+ve	0.740	24.692	0.132	3.019	0.310	64.704
			28:COM1	34:CVOL3	24:COM1	16:COM3	16:COM3	34:CVOL3
			-1.909	0.000	-0.315	-0.533	-0.098	0.000
			22:COM9	-	18:COM5	26:COM1	26:COM1	-
	4580	-ve	0.740	22.417	0.132	3.019	0.172	18.230
			28:COM1	34:CVOL3	24:COM1	16:COM3	24:COM1	34:CVOL3
			-1.909	0.000	-0.315	-0.533	-0.321	0.000
			22:COM9	-	18:COM5	26:COM1	18:COM5	-
10942	4580	+ve	0.949	11.036	0.274	0.561	0.034	18.677
			16:COM3	34:CVOL3	20:COM7	32:CVOL1	28:COM1	34:CVOL3
			-0.965	0.000	-0.070	-1.023	-0.286	0.000
			26:COM1	-	30:COM1	35:CVOL4	22:COM9	-
	4369	-ve	0.949	8.761	0.274	0.561	0.256	0.000
			16:COM3	34:CVOL3	20:COM7	32:CVOL1	20:COM7	-
			-0.965	0.000	-0.070	-1.023	-0.105	-1.006
			26:COM1	-	30:COM1	35:CVOL4	30:COM1	32:CVOL1

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
10943	4581	+ve	3.812	29.887	0.824	0.000	0.254	51.448
			16:COM3	34:CVOL3	20:COM7	-	28:COM15	34:CVOL3
			-2.995	0.000	-0.182	-13.680	-0.583	0.000
			26:COM13	-	30:COM17	34:CVOL3	22:COM9	-
	4370	-ve	3.812	27.503	0.824	0.000	0.864	2.037
			16:COM3	34:CVOL3	20:COM7	-	20:COM7	32:CVOL1
			-2.995	0.000	-0.182	-13.680	-0.089	0.000
			26:COM13	-	30:COM17	34:CVOL3	30:COM17	-
10944	4579	+ve	0.000	8.238	0.001	0.173	0.007	6.440
			-	35:CVOL4	24:COM11	16:COM3	16:COM3	35:CVOL4
			-1.785	0.000	-0.003	0.000	-0.003	0.000
			18:COM5	-	18:COM5	-	26:COM13	-
	4581	-ve	0.000	0.000	0.001	0.173	0.005	7.468
			-	-	24:COM11	16:COM3	24:COM11	35:CVOL4
			-1.785	-8.575	-0.003	0.000	-0.009	0.000
			18:COM5	34:CVOL3	18:COM5	-	18:COM5	-
10945	4580	+ve	5.518	7.758	0.005	0.157	0.000	6.528
			34:CVOL3	35:CVOL4	34:CVOL3	16:COM3	-	35:CVOL4
			0.000	0.000	0.000	0.000	-0.016	0.000
			-	-	-	-	22:COM9	-
	4370	-ve	5.518	0.000	0.005	0.157	0.017	8.196
			34:CVOL3	-	34:CVOL3	16:COM3	34:CVOL3	35:CVOL4
			0.000	-8.324	0.000	0.000	0.000	0.000
			-	34:CVOL3	-	-	-	-
10946	4582	+ve	0.000	0.000	0.480	0.000	0.000	0.393
			-	-	34:CVOL3	-	-	32:CVOL1
			-4.007	-2.790	0.000	-0.623	-0.403	0.000
			34:CVOL3	34:CVOL3	-	35:CVOL4	34:CVOL3	-
	4583	-ve	0.000	0.000	0.480	0.000	0.535	7.826
			-	-	34:CVOL3	-	34:CVOL3	34:CVOL3
			-4.007	-4.865	0.000	-0.623	0.000	0.000
			34:CVOL3	34:CVOL3	-	35:CVOL4	-	-
10947	4583	+ve	0.000	0.000	0.776	0.000	0.000	7.958
			-	-	34:CVOL3	-	-	34:CVOL3
			-9.804	-5.027	0.000	-0.534	-0.712	0.000
			34:CVOL3	34:CVOL3	-	35:CVOL4	34:CVOL3	-
	4560	-ve	0.000	0.000	0.776	0.000	0.782	19.609
			-	-	34:CVOL3	-	34:CVOL3	34:CVOL3
			-9.804	-7.071	0.000	-0.534	0.000	0.000
			34:CVOL3	34:CVOL3	-	35:CVOL4	-	-
10948	4582	+ve	0.000	2.859	0.072	0.101	0.000	0.649
			-	35:CVOL4	34:CVOL3	35:CVOL4	-	35:CVOL4
			-3.125	0.000	0.000	0.000	-0.109	0.000
			22:COM9	-	-	-	34:CVOL3	-
	4578	-ve	0.000	0.000	0.072	0.101	0.109	4.401
			-	-	34:CVOL3	35:CVOL4	34:CVOL3	34:CVOL3
			-3.125	-5.255	0.000	0.000	0.000	0.000
			22:COM9	34:CVOL3	-	-	-	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
10949	4583	+ve	0.854	0.398	0.141	0.161	0.000	0.000
			34:CVOL3	35:CVOL4	34:CVOL3	35:CVOL4	-	-
			0.000	-0.653	0.000	0.000	-0.226	-0.141
			-	30:COM17	-	-	34:CVOL3	22:COM9
	4577	-ve	0.854	0.000	0.141	0.161	0.202	12.053
			34:CVOL3	-	34:CVOL3	35:CVOL4	34:CVOL3	34:CVOL3
			0.000	-8.167	0.000	0.000	0.000	0.000
			-	34:CVOL3	-	-	-	-
10950	4584	+ve	1.101	7.094	0.000	0.435	0.027	21.960
			24:COM11	16:COM3	-	34:CVOL3	16:COM3	34:CVOL3
			-1.427	0.000	-0.043	0.000	0.000	0.000
			18:COM5	-	34:CVOL3	-	-	-
	4585	-ve	1.101	5.229	0.000	0.435	0.000	10.185
			24:COM11	16:COM3	-	34:CVOL3	-	34:CVOL3
			-1.427	0.000	-0.043	0.000	-0.061	0.000
			18:COM5	-	34:CVOL3	-	34:CVOL3	-
10951	4585	+ve	0.414	5.342	0.000	0.221	0.085	10.076
			24:COM11	34:CVOL3	-	34:CVOL3	16:COM3	34:CVOL3
			-0.653	0.000	-0.078	0.000	0.000	0.000
			18:COM5	-	18:COM5	-	-	-
	4368	-ve	0.414	3.123	0.000	0.221	0.000	0.057
			24:COM11	34:CVOL3	-	34:CVOL3	-	24:COM11
			-0.653	0.000	-0.078	0.000	-0.100	-0.073
			18:COM5	-	18:COM5	-	18:COM5	18:COM5
10952	4584	+ve	0.000	0.000	0.049	0.043	0.062	0.000
			-	-	24:COM11	24:COM11	16:COM3	-
			-7.399	-4.862	-0.102	-0.124	-0.032	-2.023
			18:COM5	18:COM5	18:COM5	18:COM5	26:COM13	18:COM5
	4579	-ve	0.000	0.000	0.049	0.043	0.028	5.659
			-	-	24:COM11	24:COM11	24:COM11	16:COM3
			-7.399	-7.510	-0.102	-0.124	-0.065	0.000
			18:COM5	18:COM5	18:COM5	18:COM5	18:COM5	-
10953	4585	+ve	0.000	0.525	0.000	0.000	0.069	0.154
			-	16:COM3	-	-	34:CVOL3	24:COM11
			-4.321	-1.457	-0.104	-0.100	0.000	-0.547
			18:COM5	26:COM13	34:CVOL3	34:CVOL3	-	18:COM5
	4580	-ve	0.000	0.000	0.000	0.000	0.000	2.885
			-	-	-	-	-	16:COM3
			-4.321	-4.091	-0.104	-0.100	-0.060	0.000
			18:COM5	18:COM5	34:CVOL3	34:CVOL3	34:CVOL3	-
10954	4581	+ve	0.009	8.908	0.003	0.595	0.005	9.633
			28:COM15	34:CVOL3	20:COM7	34:CVOL3	24:COM11	34:CVOL3
			-1.172	0.000	-0.002	0.000	-0.009	0.000
			22:COM9	-	30:COM17	-	18:COM5	-
	4669	-ve	0.009	0.000	0.003	0.595	0.005	0.000
			28:COM15	-	20:COM7	34:CVOL3	20:COM7	-
			-1.172	-3.391	-0.002	0.000	-0.003	-2.469
			22:COM9	35:CVOL4	30:COM17	-	30:COM17	34:CVOL3

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
10955	4576	+ve	1.347	9.957	0.000	0.025	0.157	16.327
			20:COM7	34:CVOL3	-	33:CVOL2	34:CVOL3	34:CVOL3
			0.000	0.000	-0.083	-0.087	0.000	0.000
			-	-	34:CVOL3	34:CVOL3	-	-
	4660	-ve	1.347	0.000	0.000	0.025	0.000	0.000
			20:COM7	-	-	33:CVOL2	-	-
			0.000	-2.241	-0.083	-0.087	-0.177	-0.225
			-	35:CVOL4	34:CVOL3	34:CVOL3	34:CVOL3	32:CVOL1
10966	4385	+ve	1.533	8.759	0.014	0.169	0.010	11.305
			16:COM3	34:CVOL3	16:COM3	16:COM3	24:COM11	34:CVOL3
			-0.828	0.000	-0.005	-0.058	-0.027	0.000
			26:COM13	-	26:COM13	26:COM13	18:COM5	-
	4591	-ve	1.533	0.000	0.014	0.169	0.032	0.230
			16:COM3	-	16:COM3	16:COM3	16:COM3	35:CVOL4
			-0.828	-4.178	-0.005	-0.058	-0.012	-0.100
			26:COM13	35:CVOL4	26:COM13	26:COM13	26:COM13	32:CVOL1
10967	4386	+ve	1.331	8.646	0.014	0.125	0.009	11.211
			16:COM3	34:CVOL3	16:COM3	32:CVOL1	24:COM11	20:COM7
			-0.970	0.000	-0.005	-0.043	-0.026	0.000
			26:COM13	-	26:COM13	35:CVOL4	18:COM5	-
	4592	-ve	1.331	0.000	0.014	0.125	0.030	0.512
			16:COM3	-	16:COM3	32:CVOL1	16:COM3	16:COM3
			-0.970	-4.077	-0.005	-0.043	-0.011	-0.061
			26:COM13	35:CVOL4	26:COM13	35:CVOL4	26:COM13	26:COM13
10968	4387	+ve	0.613	8.698	0.009	0.059	0.001	13.295
			28:COM15	34:CVOL3	16:COM3	32:CVOL1	24:COM11	20:COM7
			-2.296	0.000	-0.001	-0.153	-0.018	0.000
			22:COM9	-	26:COM13	35:CVOL4	18:COM5	-
	4593	-ve	0.613	0.000	0.009	0.059	0.020	1.989
			28:COM15	-	16:COM3	32:CVOL1	16:COM3	16:COM3
			-2.296	-3.706	-0.001	-0.153	-0.003	0.000
			22:COM9	35:CVOL4	26:COM13	35:CVOL4	26:COM13	-
10969	4594	+ve	10.199	18.226	0.049	0.000	0.129	53.783
			24:COM11	16:COM3	28:COM15	-	20:COM7	34:CVOL3
			-16.311	0.000	-0.143	-1.836	-0.035	0.000
			18:COM5	-	22:COM9	18:COM5	30:COM17	-
	4666	-ve	10.199	15.543	0.049	0.000	0.063	21.972
			24:COM11	16:COM3	28:COM15	-	28:COM15	34:CVOL3
			-16.311	0.000	-0.143	-1.836	-0.154	0.000
			18:COM5	-	22:COM9	18:COM5	22:COM9	-
10970	4302	+ve	6.004	58.332	0.746	39.785	1.238	123.747
			16:COM3	34:CVOL3	28:COM15	16:COM3	20:COM7	34:CVOL3
			0.000	0.000	-0.870	-8.882	-1.042	0.000
			-	-	22:COM9	26:COM13	30:COM17	-
	4594	-ve	6.004	49.702	0.746	39.785	0.694	0.246
			16:COM3	34:CVOL3	28:COM15	16:COM3	28:COM15	24:COM11
			0.000	0.000	-0.870	-8.882	-0.786	-2.435
			-	-	22:COM9	26:COM13	22:COM9	18:COM5

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
10971	4534	+ve	17.926	13.470	0.015	0.407	0.089	15.419
			28:COM1	34:CVOL3	24:COM1	28:COM1	16:COM3	20:COM7
			-35.853	0.000	-0.061	-0.247	-0.022	-8.973
			22:COM9	-	18:COM5	22:COM9	26:COM1	30:COM1
	4533	-ve	17.926	10.256	0.015	0.407	0.014	0.000
			28:COM1	20:COM7	24:COM1	28:COM1	24:COM1	-
			-35.853	0.000	-0.061	-0.247	-0.037	-21.748
			22:COM9	-	18:COM5	22:COM9	18:COM5	22:COM9
10972	4533	+ve	17.103	7.787	0.062	0.156	0.023	0.000
			28:COM1	20:COM7	20:COM7	24:COM1	24:COM1	-
			-31.891	0.000	-0.023	-0.331	-0.055	-21.692
			22:COM9	-	30:COM1	18:COM5	18:COM5	22:COM9
	4532	-ve	17.103	5.148	0.062	0.156	0.070	0.000
			28:COM1	20:COM7	20:COM7	24:COM1	20:COM7	-
			-31.891	-0.350	-0.023	-0.331	-0.028	-28.898
			22:COM9	30:COM1	30:COM1	18:COM5	30:COM1	34:CVOL3
10973	4532	+ve	16.729	2.269	0.066	0.173	0.025	0.000
			28:COM1	28:COM1	16:COM3	24:COM1	24:COM1	-
			-29.148	-1.324	-0.024	-0.471	-0.065	-28.943
			22:COM9	22:COM9	26:COM1	18:COM5	18:COM5	34:CVOL3
	4591	-ve	16.729	0.214	0.066	0.173	0.073	0.000
			28:COM1	28:COM1	16:COM3	24:COM1	20:COM7	-
			-29.148	-4.064	-0.024	-0.471	-0.028	-26.590
			22:COM9	22:COM9	26:COM1	18:COM5	30:COM1	34:CVOL3
10974	4591	+ve	16.373	0.000	0.061	0.150	0.024	0.000
			28:COM1	-	16:COM3	16:COM3	24:COM1	-
			-26.450	-6.662	-0.023	-0.359	-0.062	-26.677
			22:COM9	22:COM9	26:COM1	26:COM1	18:COM5	34:CVOL3
	4592	-ve	16.373	0.000	0.061	0.150	0.064	0.000
			28:COM1	-	16:COM3	16:COM3	20:COM7	-
			-26.450	-10.002	-0.023	-0.359	-0.027	-13.188
			22:COM9	34:CVOL3	26:COM1	26:COM1	30:COM1	18:COM5
10975	4592	+ve	15.945	0.000	0.066	0.426	0.006	0.000
			28:COM1	-	16:COM3	35:CVOL4	24:COM1	-
			-23.886	-13.453	-0.006	-0.092	-0.068	-13.276
			22:COM9	34:CVOL3	26:COM1	32:CVOL1	18:COM5	18:COM5
	4593	-ve	15.945	0.000	0.066	0.426	0.072	22.168
			28:COM1	-	16:COM3	35:CVOL4	20:COM7	16:COM3
			-23.886	-17.082	-0.006	-0.092	-0.015	0.000
			22:COM9	34:CVOL3	26:COM1	32:CVOL1	30:COM1	-
10976	4593	+ve	15.021	0.000	0.079	2.167	0.012	22.178
			28:COM1	-	16:COM3	20:COM7	24:COM1	16:COM3
			-23.790	-20.464	-0.016	0.000	-0.082	0.000
			22:COM9	34:CVOL3	26:COM1	-	18:COM5	-
	4373	-ve	15.021	0.000	0.079	2.167	0.080	63.679
			28:COM1	-	16:COM3	20:COM7	20:COM7	34:CVOL3
			-23.790	-24.093	-0.016	0.000	-0.024	0.000
			22:COM9	34:CVOL3	26:COM1	-	30:COM1	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
10977	4528	+ve	7.747	5.629	0.047	0.308	0.091	1.225
			28:COM15	16:COM3	24:COM11	16:COM3	16:COM3	24:COM11
			-10.805	0.000	-0.095	-0.315	-0.039	-10.245
			22:COM9	-	18:COM5	26:COM13	26:COM13	18:COM5
	4527	-ve	7.747	3.797	0.047	0.308	0.054	0.000
			28:COM15	16:COM3	24:COM11	16:COM3	24:COM11	-
			-10.805	-0.214	-0.095	-0.315	-0.095	-14.055
			22:COM9	26:COM13	18:COM5	26:COM13	18:COM5	18:COM5
10978	4527	+ve	6.920	2.308	0.061	0.084	0.075	0.000
			28:COM15	16:COM3	24:COM11	28:COM15	16:COM3	-
			-9.513	-0.730	-0.069	-0.125	-0.059	-14.018
			22:COM9	26:COM13	18:COM5	22:COM9	26:COM13	18:COM5
	4553	-ve	6.920	0.704	0.061	0.084	0.062	0.000
			28:COM15	24:COM11	24:COM11	28:COM15	16:COM3	-
			-9.513	-2.332	-0.069	-0.125	-0.062	-14.015
			22:COM9	18:COM5	18:COM5	22:COM9	26:COM13	35:CVOL4
10979	4553	+ve	5.949	0.000	0.079	0.249	0.035	0.000
			28:COM15	-	16:COM3	24:COM11	24:COM11	-
			-7.729	-3.324	-0.025	-0.306	-0.080	-14.000
			22:COM9	22:COM9	26:COM13	18:COM5	18:COM5	35:CVOL4
	4554	-ve	5.949	0.000	0.079	0.249	0.076	0.000
			28:COM15	-	16:COM3	24:COM11	16:COM3	-
			-7.729	-5.155	-0.025	-0.306	-0.016	-9.078
			22:COM9	22:COM9	26:COM13	18:COM5	26:COM13	22:COM9
10980	4554	+ve	4.991	0.000	0.062	0.362	0.018	0.000
			28:COM15	-	16:COM3	24:COM11	24:COM11	-
			-6.059	-5.633	-0.027	-0.530	-0.061	-8.972
			22:COM9	34:CVOL3	26:COM13	18:COM5	18:COM5	22:COM9
	4555	-ve	4.991	0.000	0.062	0.362	0.062	9.901
			28:COM15	-	16:COM3	24:COM11	16:COM3	20:COM7
			-6.059	-7.465	-0.027	-0.530	-0.037	-1.071
			22:COM9	34:CVOL3	26:COM13	18:COM5	26:COM13	30:COM17
10981	4555	+ve	3.539	0.000	0.000	0.755	0.071	9.858
			28:COM15	-	-	24:COM11	16:COM3	20:COM7
			-4.574	-7.303	-0.066	-0.736	0.000	-0.984
			22:COM9	18:COM5	18:COM5	18:COM5	-	30:COM17
	4363	-ve	3.539	0.000	0.000	0.755	0.000	23.635
			28:COM15	-	-	24:COM11	-	20:COM7
			-4.574	-9.137	-0.066	-0.736	-0.063	0.000
			22:COM9	18:COM5	18:COM5	18:COM5	22:COM9	-
10984	4605	+ve	0.396	2.645	0.091	0.303	0.098	0.342
			20:COM7	20:COM7	24:COM11	24:COM11	16:COM3	16:COM3
			-0.392	-0.996	-0.118	-0.418	-0.082	-0.317
			30:COM17	30:COM17	18:COM5	18:COM5	26:COM13	26:COM13
	4609	-ve	0.396	0.845	0.091	0.303	0.040	1.921
			20:COM7	20:COM7	24:COM11	24:COM11	24:COM11	28:COM15
			-0.392	-2.346	-0.118	-0.418	-0.058	-1.994
			30:COM17	30:COM17	18:COM5	18:COM5	18:COM5	22:COM9

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
10985	4605	+ve	0.916	0.996	0.095	0.431	0.100	0.183
			20:COM7	28:COM15	28:COM15	24:COM17	16:COM3	24:COM17
			-0.656	-2.645	-0.105	-0.418	-0.094	-0.300
			30:COM17	22:COM9	22:COM9	18:COM5	26:COM13	18:COM5
	4612	-ve	0.916	0.000	0.095	0.431	0.127	8.523
			20:COM7	-	28:COM15	24:COM17	28:COM15	20:COM7
			-0.656	-4.755	-0.105	-0.418	-0.143	-0.703
			30:COM17	22:COM9	22:COM9	18:COM5	22:COM9	30:COM17
10986	4552	+ve	4.753	8.267	0.504	1.641	0.159	15.923
			28:COM15	20:COM7	20:COM7	16:COM3	28:COM15	16:COM3
			-7.187	0.000	-0.373	-0.283	-0.196	0.000
			22:COM9	-	30:COM17	26:COM13	22:COM9	-
	4606	-ve	4.753	7.213	0.504	1.641	0.305	13.564
			28:COM15	20:COM7	20:COM7	16:COM3	20:COM7	16:COM3
			-7.187	0.000	-0.373	-0.283	-0.211	-2.407
			22:COM9	-	30:COM17	26:COM13	30:COM17	26:COM13
10987	4606	+ve	7.205	7.213	0.312	1.706	0.604	9.742
			28:COM15	20:COM7	28:COM15	24:COM17	20:COM7	16:COM3
			-11.110	0.000	-0.877	-9.580	-0.258	-1.722
			22:COM9	-	22:COM9	18:COM5	30:COM17	26:COM13
	4608	-ve	7.205	3.870	0.312	1.706	0.267	9.486
			28:COM15	20:COM7	28:COM15	24:COM17	28:COM15	16:COM3
			-11.110	-2.348	-0.877	-9.580	-0.841	-8.707
			22:COM9	30:COM17	22:COM9	18:COM5	22:COM9	26:COM13
10989	4608	+ve	0.175	0.000	0.035	0.073	0.112	0.000
			24:COM17	-	24:COM17	24:COM17	16:COM3	-
			-2.743	-3.418	-0.140	-0.281	-0.026	-3.768
			18:COM5	18:COM5	18:COM5	18:COM5	26:COM13	18:COM5
	4493	-ve	0.175	0.000	0.035	0.073	0.034	4.914
			24:COM17	-	24:COM17	24:COM17	24:COM17	20:COM7
			-2.743	-6.973	-0.140	-0.281	-0.122	0.000
			18:COM5	18:COM5	18:COM5	18:COM5	18:COM5	-
10990	4608	+ve	11.769	5.117	0.528	1.704	0.411	12.455
			28:COM15	20:COM7	20:COM7	24:COM17	28:COM15	16:COM3
			-17.526	0.000	-0.420	-7.251	-0.407	-8.516
			22:COM9	-	30:COM17	18:COM5	22:COM9	26:COM13
	4607	-ve	11.769	0.914	0.528	1.704	1.169	13.463
			28:COM15	20:COM7	20:COM7	24:COM17	20:COM7	28:COM15
			-17.526	-2.878	-0.420	-7.251	-0.945	-13.034
			22:COM9	30:COM17	30:COM17	18:COM5	30:COM17	22:COM9
10991	4609	+ve	0.978	5.472	0.133	0.274	0.192	1.258
			16:COM3	16:COM3	28:COM15	24:COM17	20:COM7	24:COM17
			-0.564	-2.847	-0.187	-0.788	-0.144	-2.352
			26:COM13	26:COM13	22:COM9	18:COM5	30:COM17	18:COM5
	4626	-ve	0.978	1.841	0.133	0.274	0.111	6.275
			16:COM3	24:COM11	28:COM15	24:COM17	28:COM15	28:COM15
			-0.564	-6.029	-0.187	-0.788	-0.166	-5.871
			26:COM13	18:COM5	22:COM9	18:COM5	22:COM9	22:COM9

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
10992	4609	+ve	1.197	0.580	0.717	3.706	0.745	1.258
			28:COM15	24:COM11	28:COM15	24:COM17	20:COM7	24:COM17
			-1.760	-4.706	-1.176	-2.605	-0.484	-1.143
			22:COM9	18:COM5	22:COM9	18:COM5	30:COM17	18:COM5
	4610	-ve	1.197	0.000	0.717	3.706	0.840	9.492
			28:COM15	-	28:COM15	24:COM17	28:COM15	16:COM3
			-1.760	-6.831	-1.176	-2.605	-1.426	0.000
			22:COM9	18:COM5	22:COM9	18:COM5	22:COM9	-
10993	4611	+ve	25.276	0.000	2.507	5.770	0.724	49.194
			20:COM7	-	20:COM7	28:COM15	28:COM15	16:COM3
			-19.648	-23.651	-1.940	-5.411	-0.986	0.000
			30:COM17	35:CVOL4	30:COM17	22:COM9	22:COM9	-
	4326	-ve	25.276	0.000	2.507	5.770	3.640	92.517
			20:COM7	-	20:COM7	28:COM15	20:COM7	16:COM3
			-19.648	-25.776	-1.940	-5.411	-2.858	0.000
			30:COM17	35:CVOL4	30:COM17	22:COM9	30:COM17	-
10994	4612	+ve	5.094	0.000	0.113	0.414	0.135	8.727
			20:COM7	-	20:COM7	28:COM15	28:COM15	20:COM7
			-3.535	-5.312	-0.097	-0.721	-0.154	-0.872
			30:COM17	18:COM5	30:COM17	22:COM9	22:COM9	30:COM17
	4613	-ve	5.094	0.000	0.113	0.414	0.057	17.738
			20:COM7	-	20:COM7	28:COM15	20:COM7	20:COM7
			-3.535	-7.022	-0.097	-0.721	-0.047	0.000
			30:COM17	18:COM5	30:COM17	22:COM9	30:COM17	-
10995	4613	+ve	21.451	0.000	0.205	0.288	0.117	17.937
			20:COM7	-	20:COM7	28:COM15	28:COM15	20:COM7
			-17.696	-9.338	-0.196	-0.507	-0.111	0.000
			30:COM17	18:COM5	30:COM17	22:COM9	22:COM9	-
	4360	-ve	21.451	0.000	0.205	0.288	0.267	32.354
			20:COM7	-	20:COM7	28:COM15	20:COM7	16:COM3
			-17.696	-11.050	-0.196	-0.507	-0.245	0.000
			30:COM17	18:COM5	30:COM17	22:COM9	30:COM17	-
10996	4612	+ve	4.853	3.524	0.175	0.190	0.125	0.872
			16:COM3	16:COM3	20:COM7	16:COM3	28:COM15	16:COM3
			-5.251	-1.948	-0.189	-0.153	-0.118	-0.611
			26:COM13	26:COM13	30:COM17	26:COM13	22:COM9	26:COM13
	4610	-ve	4.853	1.645	0.175	0.190	0.101	2.814
			16:COM3	24:COM11	20:COM7	16:COM3	16:COM3	16:COM3
			-5.251	-3.984	-0.189	-0.153	-0.112	-2.076
			26:COM13	18:COM5	30:COM17	26:COM13	26:COM13	26:COM13
10997	4613	+ve	1.716	2.348	0.282	0.167	0.152	0.627
			24:COM17	16:COM3	20:COM7	20:COM7	28:COM15	24:COM17
			-3.976	-2.445	-0.247	-0.085	-0.173	-1.055
			18:COM5	26:COM13	30:COM17	30:COM17	22:COM9	18:COM5
	4611	-ve	1.716	0.868	0.282	0.167	0.179	3.385
			24:COM17	24:COM11	20:COM7	20:COM7	20:COM7	16:COM3
			-3.976	-4.880	-0.247	-0.085	-0.157	-1.243
			18:COM5	18:COM5	30:COM17	30:COM17	30:COM17	26:COM13

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
10999	4575	+ve	0.000	11.846	0.410	0.039	0.000	21.340
			-	34:CVOL3	34:CVOL3	28:COM1!	-	34:CVOL3
			-11.451	0.000	0.000	-0.146	-0.317	0.000
			22:COM9	-	-	22:COM9	34:CVOL3	-
	4619	-ve	0.000	7.003	0.410	0.039	0.351	5.988
			-	34:CVOL3	34:CVOL3	28:COM1!	34:CVOL3	34:CVOL3
			-11.451	0.000	0.000	-0.146	0.000	0.000
			22:COM9	-	-	22:COM9	-	-
11004	4619	+ve	0.000	6.302	0.000	0.039	1.586	6.925
			-	34:CVOL3	-	33:CVOL2	34:CVOL3	34:CVOL3
			-16.639	0.000	-1.239	-0.724	0.000	0.000
			22:COM9	-	34:CVOL3	34:CVOL3	-	-
	4671	-ve	0.000	0.000	0.000	0.039	0.000	0.739
			-	-	-	33:CVOL2	-	34:CVOL3
			-16.639	-2.120	-1.239	-0.724	-1.641	0.000
			22:COM9	35:CVOL4	34:CVOL3	34:CVOL3	34:CVOL3	-
11005	4367	+ve	0.146	0.833	0.134	0.632	0.000	0.682
			28:COM1!	33:CVOL2	34:CVOL3	34:CVOL3	-	34:CVOL3
			-1.028	0.000	0.000	0.000	-0.193	0.000
			22:COM9	-	-	-	34:CVOL3	-
	4619	-ve	0.146	0.000	0.134	0.632	0.166	0.903
			28:COM1!	-	34:CVOL3	34:CVOL3	34:CVOL3	34:CVOL3
			-1.028	-0.763	0.000	0.000	0.000	0.000
			22:COM9	32:CVOL1	-	-	-	-
11020	4540	+ve	25.593	0.000	0.111	0.740	0.139	0.000
			28:COM1!	-	20:COM7	16:COM3	20:COM7	-
			-42.540	-4.849	-0.119	-0.718	-0.114	-9.480
			22:COM9	18:COM5	30:COM1	26:COM1	30:COM1	18:COM5
	5336	-ve	25.593	0.000	0.111	0.740	0.109	4.511
			28:COM1!	-	20:COM7	16:COM3	20:COM7	20:COM7
			-42.540	-7.777	-0.119	-0.718	-0.099	-0.307
			22:COM9	34:CVOL3	30:COM1	26:COM1	30:COM1	30:COM1
11022	4437	+ve	67.160	17.076	3.144	0.000	1.561	20.179
			28:COM1!	28:COM1!	20:COM7	-	28:COM1!	28:COM1!
			-95.131	-34.143	-1.268	-11.699	-3.157	-61.893
			22:COM9	22:COM9	30:COM1	22:COM9	22:COM9	22:COM9
	5331	-ve	67.160	15.136	3.144	0.000	2.933	75.910
			28:COM1!	28:COM1!	20:COM7	-	20:COM7	20:COM7
			-95.131	-36.730	-1.268	-11.699	-1.021	-81.479
			22:COM9	22:COM9	30:COM1	22:COM9	30:COM1	30:COM1
11024	4541	+ve	30.632	5.490	0.072	0.303	0.114	2.704
			28:COM1!	34:CVOL3	24:COM1	16:COM3	16:COM3	24:COM1
			-40.052	0.000	-0.129	-0.092	-0.069	-8.226
			22:COM9	-	18:COM5	26:COM1	26:COM1	18:COM5
	5338	-ve	30.632	3.033	0.072	0.303	0.070	0.000
			28:COM1!	20:COM7	24:COM1	16:COM3	28:COM1!	-
			-40.052	-0.158	-0.129	-0.092	-0.125	-12.194
			22:COM9	30:COM1	18:COM5	26:COM1	22:COM9	18:COM5

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
11027	4610	+ve	45.052	0.000	2.587	6.094	3.711	18.876
			20:COM7	-	20:COM7	28:COM1	28:COM1	16:COM3
			-36.892	-18.475	-2.718	-8.216	-3.565	-10.286
			30:COM1	34:CVOL3	30:COM1	22:COM9	22:COM9	26:COM1
	4611	-ve	45.052	0.000	2.587	6.094	1.203	49.358
			20:COM7	-	20:COM7	28:COM1	20:COM7	16:COM3
			-36.892	-20.600	-2.718	-8.216	-1.298	0.000
			30:COM1	34:CVOL3	30:COM1	22:COM9	30:COM1	-
11028	4626	+ve	40.922	0.000	1.247	3.702	1.469	7.953
			20:COM7	-	28:COM1	20:COM7	20:COM7	24:COM1
			-32.450	-12.509	-2.008	-3.459	-0.819	-35.933
			30:COM1	18:COM5	22:COM9	30:COM1	30:COM1	18:COM5
	4610	-ve	40.922	0.000	1.247	3.702	1.652	12.874
			20:COM7	-	28:COM1	20:COM7	28:COM1	16:COM3
			-32.450	-14.788	-2.008	-3.459	-2.507	-10.176
			30:COM1	18:COM5	22:COM9	30:COM1	22:COM9	26:COM1
11029	5337	+ve	53.606	7.701	2.092	0.000	2.594	7.735
			28:COM1	35:CVOL4	28:COM1	-	20:COM7	16:COM3
			-60.299	0.000	-2.222	-7.913	-2.485	-0.932
			22:COM9	-	22:COM9	18:COM5	30:COM1	26:COM1
	5339	-ve	53.606	5.648	2.092	0.000	1.307	0.000
			28:COM1	35:CVOL4	28:COM1	-	28:COM1	-
			-60.299	0.000	-2.222	-7.913	-1.429	-8.141
			22:COM9	-	22:COM9	18:COM5	22:COM9	18:COM5
11030	4630	+ve	63.159	7.230	0.208	0.482	0.521	0.000
			20:COM7	16:COM3	28:COM1	24:COM1	16:COM3	-
			-58.044	0.000	-0.317	-3.268	-0.269	-16.562
			30:COM1	-	22:COM9	18:COM5	26:COM1	18:COM5
	4631	-ve	63.159	5.041	0.208	0.482	0.338	0.000
			20:COM7	16:COM3	28:COM1	24:COM1	20:COM7	-
			-58.044	0.000	-0.317	-3.268	-0.294	-24.914
			30:COM1	-	22:COM9	18:COM5	30:COM1	35:CVOL4
11031	4631	+ve	70.562	6.768	0.151	2.028	0.850	0.000
			20:COM7	16:COM3	28:COM1	16:COM3	20:COM7	-
			-59.859	-0.568	-0.297	-2.515	-0.396	-24.803
			30:COM1	26:COM1	22:COM9	26:COM1	30:COM1	35:CVOL4
	4632	-ve	70.562	4.578	0.151	2.028	0.527	0.000
			20:COM7	16:COM3	28:COM1	16:COM3	20:COM7	-
			-59.859	-2.210	-0.297	-2.515	-0.349	-30.474
			30:COM1	26:COM1	22:COM9	26:COM1	30:COM1	18:COM5
11032	4632	+ve	72.851	4.251	0.144	1.274	0.800	0.000
			20:COM7	24:COM1	28:COM1	16:COM3	20:COM7	-
			-59.197	-3.256	-0.219	-0.915	-0.390	-30.548
			30:COM1	18:COM5	22:COM9	26:COM1	30:COM1	18:COM5
	4633	-ve	72.851	2.609	0.144	1.274	0.791	0.000
			20:COM7	24:COM1	28:COM1	16:COM3	20:COM7	-
			-59.197	-5.446	-0.219	-0.915	-0.523	-36.115
			30:COM1	18:COM5	22:COM9	26:COM1	30:COM1	18:COM5

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
11033	4633	+ve	66.737	1.765	0.679	3.563	0.530	0.000
			20:COM7	28:COM15	20:COM7	20:COM7	20:COM7	-
			-53.059	-6.177	-0.595	-2.540	-0.251	-36.114
			30:COM17	22:COM9	30:COM17	30:COM17	30:COM17	18:COM5
	4626	-ve	66.737	0.123	0.679	3.563	1.681	5.752
			20:COM7	28:COM15	20:COM7	20:COM7	20:COM7	24:COM17
			-53.059	-8.366	-0.595	-2.540	-1.242	-33.748
			30:COM17	22:COM9	30:COM17	30:COM17	30:COM17	18:COM5
11035	4630	+ve	1.690	0.779	0.019	0.259	0.076	1.129
			28:COM15	24:COM17	28:COM15	16:COM3	20:COM7	24:COM17
			-2.205	-3.387	-0.039	0.000	-0.038	-5.461
			22:COM9	18:COM5	22:COM9	-	30:COM17	18:COM5
	6315	-ve	1.690	0.000	0.019	0.259	0.037	24.605
			28:COM15	-	28:COM15	16:COM3	28:COM15	16:COM3
			-2.205	-12.139	-0.039	0.000	-0.075	0.000
			22:COM9	18:COM5	22:COM9	-	22:COM9	-
11036	4631	+ve	2.812	1.849	0.020	0.224	0.071	0.000
			28:COM15	16:COM3	28:COM15	16:COM3	20:COM7	-
			-4.008	-2.237	-0.038	-0.116	-0.038	-2.197
			22:COM9	26:COM13	22:COM9	26:COM13	30:COM17	18:COM5
	6316	-ve	2.812	0.000	0.020	0.224	0.037	20.126
			28:COM15	-	28:COM15	16:COM3	28:COM15	20:COM7
			-4.008	-10.188	-0.038	-0.116	-0.070	0.000
			22:COM9	18:COM5	22:COM9	26:COM13	22:COM9	-
11037	4632	+ve	4.043	1.962	0.015	0.099	0.045	1.306
			28:COM15	20:COM7	28:COM15	24:COM17	20:COM7	24:COM17
			-5.598	-0.588	-0.024	-0.067	-0.027	-2.154
			22:COM9	30:COM17	22:COM9	18:COM5	30:COM17	18:COM5
	6312	-ve	4.043	0.000	0.015	0.099	0.026	14.111
			28:COM15	-	28:COM15	24:COM17	28:COM15	20:COM7
			-5.598	-8.197	-0.024	-0.067	-0.042	0.000
			22:COM9	34:CVOL3	22:COM9	18:COM5	22:COM9	-
11038	4633	+ve	4.222	2.034	0.021	0.061	0.039	2.799
			28:COM15	16:COM3	28:COM15	28:COM15	20:COM7	24:COM17
			-5.586	-0.459	-0.021	-0.106	-0.039	-3.461
			22:COM9	26:COM13	22:COM9	22:COM9	30:COM17	18:COM5
	6313	-ve	4.222	0.000	0.021	0.061	0.034	9.522
			28:COM15	-	28:COM15	28:COM15	28:COM15	20:COM7
			-5.586	-7.653	-0.021	-0.106	-0.034	0.000
			22:COM9	35:CVOL4	22:COM9	22:COM9	22:COM9	-
11044	4626	+ve	4.523	4.307	0.066	0.083	0.095	5.619
			28:COM15	20:COM7	20:COM7	24:COM17	28:COM15	24:COM17
			-5.427	-3.206	-0.055	-0.258	-0.114	-5.285
			22:COM9	30:COM17	30:COM17	18:COM5	22:COM9	18:COM5
	6314	-ve	4.523	0.000	0.066	0.083	0.104	15.147
			28:COM15	-	20:COM7	24:COM17	20:COM7	20:COM7
			-5.427	-9.882	-0.055	-0.258	-0.087	0.000
			22:COM9	22:COM9	30:COM17	18:COM5	30:COM17	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
11045	4610	+ve	6.169	1.662	0.061	0.113	0.088	5.639
			28:COM15	16:COM3	20:COM7	24:COM17	28:COM15	16:COM3
			-7.974	-2.595	-0.056	-0.432	-0.095	-1.194
			22:COM9	26:COM13	30:COM17	18:COM5	22:COM9	26:COM13
	6317	-ve	6.169	0.000	0.061	0.113	0.105	18.865
			28:COM15	-	20:COM7	24:COM17	20:COM7	16:COM3
			-7.974	-9.458	-0.056	-0.432	-0.095	0.000
			22:COM9	18:COM5	30:COM17	18:COM5	30:COM17	-
11046	5331	+ve	4.156	11.498	0.017	0.547	0.054	22.396
			20:COM7	34:CVOL3	28:COM15	16:COM3	20:COM7	34:CVOL3
			-2.527	0.000	-0.028	-0.506	-0.033	0.000
			30:COM17	-	22:COM9	26:COM13	30:COM17	-
	4540	-ve	4.156	1.038	0.017	0.547	0.039	0.012
			20:COM7	24:COM17	28:COM15	16:COM3	28:COM15	24:COM17
			-2.527	-1.761	-0.028	-0.506	-0.065	-0.318
			30:COM17	18:COM5	22:COM9	26:COM13	22:COM9	18:COM5
11048	5332	+ve	3.563	9.985	0.020	0.480	0.052	21.472
			20:COM7	16:COM3	28:COM15	16:COM3	20:COM7	16:COM3
			-1.744	0.000	-0.029	-0.152	-0.036	0.000
			30:COM17	-	22:COM9	26:COM13	30:COM17	-
	5336	-ve	3.563	1.833	0.020	0.480	0.038	4.190
			20:COM7	24:COM17	28:COM15	16:COM3	28:COM15	20:COM7
			-1.744	-3.092	-0.029	-0.152	-0.057	-0.231
			30:COM17	18:COM5	22:COM9	26:COM13	22:COM9	30:COM17
11049	4640	+ve	25.830	13.984	34.583	11.650	4.719	10.144
			24:COM17	24:COM17	20:COM7	20:COM7	28:COM15	28:COM15
			-67.343	-19.923	-15.709	-3.726	-9.241	-10.117
			18:COM5	18:COM5	30:COM17	30:COM17	22:COM9	22:COM9
	4379	-ve	25.830	13.488	34.583	11.650	7.789	19.769
			24:COM17	24:COM17	20:COM7	20:COM7	20:COM7	20:COM7
			-67.343	-20.585	-15.709	-3.726	-3.128	-16.571
			18:COM5	18:COM5	30:COM17	30:COM17	30:COM17	30:COM17
11050	5333	+ve	5.888	11.381	0.040	0.390	0.124	22.247
			28:COM15	20:COM7	28:COM15	16:COM3	20:COM7	20:COM7
			-10.515	-0.561	-0.079	-0.132	-0.066	0.000
			22:COM9	30:COM17	22:COM9	26:COM13	30:COM17	-
	4640	-ve	5.888	4.290	0.040	0.390	0.062	12.000
			28:COM15	28:COM15	28:COM15	16:COM3	28:COM15	20:COM7
			-10.515	-5.159	-0.079	-0.132	-0.130	-3.908
			22:COM9	22:COM9	22:COM9	26:COM13	22:COM9	30:COM17
11051	4641	+ve	11.502	41.861	11.973	0.000	15.192	63.580
			24:COM17	20:COM7	28:COM15	-	20:COM7	20:COM7
			-26.758	-3.633	-17.981	-39.503	-9.325	-16.989
			18:COM5	30:COM17	22:COM9	18:COM5	30:COM17	30:COM17
	4372	-ve	11.502	38.595	11.973	0.000	7.043	9.525
			24:COM17	20:COM7	28:COM15	-	28:COM15	28:COM15
			-26.758	-5.593	-17.981	-39.503	-9.338	-11.313
			18:COM5	30:COM17	22:COM9	18:COM5	22:COM9	22:COM9

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
11052	5334	+ve	14.360	17.481	0.036	0.685	0.061	22.760
			28:COM15	20:COM7	28:COM15	16:COM3	20:COM7	20:COM7
			-18.410	-16.296	-0.055	-0.317	-0.036	-5.024
			22:COM9	30:COM17	22:COM9	26:COM13	30:COM17	30:COM17
	4641	-ve	14.360	14.118	0.036	0.685	0.046	40.049
			28:COM15	28:COM15	28:COM15	16:COM3	28:COM15	20:COM7
			-18.410	-20.986	-0.055	-0.317	-0.062	-16.047
			22:COM9	22:COM9	22:COM9	26:COM13	22:COM9	30:COM17
11069	5487	+ve	1.690	0.000	0.464	10.498	0.176	0.000
			28:COM15	-	20:COM7	16:COM3	24:COM11	-
			-14.943	-21.106	-0.082	-3.152	-0.648	-13.606
			22:COM9	18:COM5	30:COM17	26:COM13	18:COM5	18:COM5
	5555	-ve	1.690	0.000	0.464	10.498	0.423	30.080
			28:COM15	-	20:COM7	16:COM3	16:COM3	16:COM3
			-14.943	-26.933	-0.082	-3.152	-0.206	0.000
			22:COM9	18:COM5	30:COM17	26:COM13	26:COM13	-
11405	4669	+ve	0.152	3.603	0.723	0.000	0.189	3.867
			28:COM15	32:CVOL1	24:COM11	-	16:COM3	34:CVOL3
			-0.604	0.000	-1.501	-4.835	-0.049	0.000
			22:COM9	-	18:COM5	34:CVOL3	26:COM13	-
	4661	-ve	0.152	3.153	0.723	0.000	0.110	3.337
			28:COM15	32:CVOL1	24:COM11	-	24:COM11	34:CVOL3
			-0.604	0.000	-1.501	-4.835	-0.134	0.000
			22:COM9	-	18:COM5	34:CVOL3	18:COM5	-
11407	4668	+ve	1.071	0.000	0.042	0.538	0.061	5.466
			24:COM11	-	24:COM11	24:COM11	16:COM3	16:COM3
			-4.067	-8.819	-0.047	-1.514	-0.055	-0.188
			18:COM5	18:COM5	18:COM5	18:COM5	26:COM13	26:COM13
	5554	-ve	1.071	0.000	0.042	0.538	0.032	25.996
			24:COM11	-	24:COM11	24:COM11	28:COM15	16:COM3
			-4.067	-11.917	-0.047	-1.514	-0.035	0.000
			18:COM5	34:CVOL3	18:COM5	18:COM5	22:COM9	-
11408	4662	+ve	1.492	0.581	0.033	0.000	0.075	0.000
			24:COM11	24:COM11	24:COM11	-	16:COM3	-
			-5.529	-1.422	-0.033	-1.292	-0.065	-9.864
			18:COM5	35:CVOL4	18:COM5	34:CVOL3	26:COM13	34:CVOL3
	4668	-ve	1.492	0.000	0.033	0.000	0.054	5.572
			24:COM11	-	24:COM11	-	16:COM3	16:COM3
			-5.529	-7.493	-0.033	-1.292	-0.047	0.000
			18:COM5	32:CVOL1	18:COM5	34:CVOL3	26:COM13	-
11409	4663	+ve	4.446	1.342	0.090	0.257	0.055	0.000
			24:COM11	24:COM11	16:COM3	24:COM11	24:COM11	-
			-7.712	-0.554	-0.073	-0.955	-0.074	-12.325
			18:COM5	18:COM5	26:COM13	18:COM5	18:COM5	34:CVOL3
	4662	-ve	4.446	0.000	0.090	0.257	0.111	0.000
			24:COM11	-	16:COM3	24:COM11	16:COM3	-
			-7.712	-3.334	-0.073	-0.955	-0.095	-9.585
			18:COM5	18:COM5	26:COM13	18:COM5	26:COM13	34:CVOL3

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
11410	4664	+ve	6.974	1.782	0.171	1.612	0.000	0.000
			24:COM1	24:COM1	16:COM3	16:COM3	-	-
			-7.095	-1.138	0.000	-0.112	-0.182	-16.322
			18:COM5	18:COM5	-	26:COM1	18:COM5	18:COM5
	4663	-ve	6.974	0.000	0.171	1.612	0.157	0.000
			24:COM1	-	16:COM3	16:COM3	16:COM3	-
			-7.095	-3.826	0.000	-0.112	0.000	-12.252
			18:COM5	18:COM5	-	26:COM1	-	34:CVOL3
11411	4667	+ve	9.059	6.346	0.053	0.781	0.223	4.244
			16:COM3	34:CVOL3	24:COM1	24:COM1	16:COM3	24:COM1
			-8.970	0.000	-0.225	-1.180	-0.065	-11.815
			26:COM1	-	18:COM5	18:COM5	26:COM1	18:COM5
	4664	-ve	9.059	3.536	0.053	0.781	0.039	0.000
			16:COM3	16:COM3	24:COM1	24:COM1	24:COM1	-
			-8.970	-0.172	-0.225	-1.180	-0.220	-16.522
			26:COM1	26:COM1	18:COM5	18:COM5	18:COM5	18:COM5
11412	4665	+ve	9.752	7.368	0.125	1.329	0.107	9.303
			24:COM1	34:CVOL3	16:COM3	16:COM3	24:COM1	16:COM3
			-12.005	0.000	-0.121	0.000	-0.118	-3.497
			18:COM5	-	26:COM1	-	18:COM5	26:COM1
	4667	-ve	9.752	4.087	0.125	1.329	0.129	4.337
			24:COM1	16:COM3	16:COM3	16:COM3	24:COM1	24:COM1
			-12.005	0.000	-0.121	0.000	-0.131	-12.393
			18:COM5	-	26:COM1	-	18:COM5	18:COM5
11413	4666	+ve	10.725	12.676	0.072	2.014	0.121	22.256
			24:COM1	16:COM3	28:COM1	16:COM3	20:COM7	34:CVOL3
			-13.541	0.000	-0.116	-0.517	-0.069	0.000
			18:COM5	-	22:COM9	26:COM1	30:COM1	-
	4665	-ve	10.725	10.047	0.072	2.014	0.074	8.706
			24:COM1	16:COM3	28:COM1	16:COM3	28:COM1	16:COM3
			-13.541	-0.322	-0.116	-0.517	-0.106	-3.523
			18:COM5	26:COM1	22:COM9	26:COM1	22:COM9	26:COM1
11415	4671	+ve	1.582	0.000	0.000	0.491	0.915	0.910
			20:COM7	-	-	34:CVOL3	34:CVOL3	34:CVOL3
			0.000	-2.120	-2.455	0.000	0.000	-0.021
			-	35:CVOL4	34:CVOL3	-	-	33:CVOL2
	4675	-ve	1.582	0.000	0.000	0.491	0.000	2.464
			20:COM7	-	-	34:CVOL3	-	34:CVOL3
			0.000	-2.848	-2.455	0.000	-0.819	0.000
			-	34:CVOL3	34:CVOL3	-	34:CVOL3	-
11418	4673	+ve	3.399	0.000	0.055	1.088	0.092	35.417
			28:COM1	-	28:COM1	34:CVOL3	20:COM7	34:CVOL3
			-24.554	-15.517	-0.062	0.000	-0.000	0.000
			22:COM9	34:CVOL3	22:COM9	-	30:COM1	-
	4378	-ve	3.399	0.000	0.055	1.088	0.121	64.015
			28:COM1	-	28:COM1	34:CVOL3	20:COM7	34:CVOL3
			-24.554	-18.596	-0.062	0.000	-0.041	0.000
			22:COM9	34:CVOL3	22:COM9	-	30:COM1	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
11419	4672	+ve	1.394	0.000	0.000	0.000	0.613	14.910
			28:COM1	-	-	-	34:CVOL3	34:CVOL3
			-17.493	-9.891	-0.596	-0.144	0.000	0.000
			22:COM9	34:CVOL3	34:CVOL3	30:COM1	-	-
	4673	-ve	1.394	0.000	0.000	0.000	0.000	35.438
			28:COM1	-	-	-	-	34:CVOL3
			-17.493	-13.161	-0.596	-0.144	-0.448	0.000
			22:COM9	34:CVOL3	34:CVOL3	30:COM1	34:CVOL3	-
11420	4660	+ve	0.379	0.000	0.000	0.038	0.693	2.869
			28:COM1	-	-	20:COM7	34:CVOL3	34:CVOL3
			-8.819	-5.096	-0.788	-0.168	0.000	0.000
			22:COM9	35:CVOL4	34:CVOL3	33:CVOL2	-	-
	4672	-ve	0.379	0.000	0.000	0.038	0.000	14.964
			28:COM1	-	-	20:COM7	-	34:CVOL3
			-8.819	-8.212	-0.788	-0.168	-0.773	0.000
			22:COM9	34:CVOL3	34:CVOL3	33:CVOL2	34:CVOL3	-
11436	4675	+ve	0.439	0.000	0.000	1.588	0.000	1.947
			16:COM3	-	-	34:CVOL3	-	34:CVOL3
			-0.261	-2.848	-2.846	0.000	-0.819	0.000
			26:COM1	34:CVOL3	34:CVOL3	-	34:CVOL3	-
	4660	-ve	0.439	0.000	0.000	1.588	0.000	2.311
			16:COM3	-	-	34:CVOL3	-	34:CVOL3
			-0.261	-3.074	-2.846	0.000	-1.169	0.000
			26:COM1	34:CVOL3	34:CVOL3	-	34:CVOL3	-
11437	4696	+ve	0.000	38.844	0.000	0.000	15.118	61.218
			-	34:CVOL3	-	-	34:CVOL3	34:CVOL3
			-61.807	0.000	-12.738	-38.737	0.000	0.000
			34:CVOL3	-	34:CVOL3	34:CVOL3	-	-
	4698	-ve	0.000	30.550	0.000	0.000	0.000	0.000
			-	34:CVOL3	-	-	-	-
			-61.807	0.000	-12.738	-38.737	-9.722	-8.226
			34:CVOL3	-	34:CVOL3	34:CVOL3	34:CVOL3	22:COM9
11438	4676	+ve	16.372	44.586	0.000	11.607	1.998	89.699
			20:COM7	34:CVOL3	-	34:CVOL3	34:CVOL3	34:CVOL3
			0.000	0.000	-1.280	0.000	0.000	0.000
			-	-	22:COM9	-	-	-
	4726	-ve	16.372	34.816	0.000	11.607	0.000	0.000
			20:COM7	34:CVOL3	-	34:CVOL3	-	-
			0.000	0.000	-1.280	0.000	-1.111	-3.599
			-	-	22:COM9	-	22:COM9	34:CVOL3
11439	4692	+ve	0.529	68.997	1.608	12.274	2.262	66.751
			28:COM1	20:COM7	28:COM1	20:COM7	20:COM7	20:COM7
			-23.559	-7.488	-1.744	-7.826	-2.520	0.000
			22:COM9	30:COM1	22:COM9	30:COM1	30:COM1	-
	4699	-ve	0.529	62.622	1.608	12.274	0.618	22.434
			28:COM1	20:COM7	28:COM1	20:COM7	28:COM1	28:COM1
			-23.559	-10.806	-1.744	-7.826	-1.141	-61.596
			22:COM9	30:COM1	22:COM9	30:COM1	22:COM9	22:COM9

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
11440	4693	+ve	8.465	64.999	0.398	4.906	0.586	53.136
			28:COM15	20:COM7	24:COM11	16:COM3	20:COM7	20:COM7
			-30.980	-37.311	-0.264	-4.707	-0.495	-27.985
			22:COM9	30:COM17	18:COM5	26:COM13	30:COM17	30:COM17
	4700	-ve	8.465	59.014	0.398	4.906	0.529	48.009
			28:COM15	20:COM7	24:COM11	16:COM3	33:CVOL2	28:COM15
			-30.980	-40.630	-0.264	-4.707	-0.129	-67.776
			22:COM9	30:COM17	18:COM5	26:COM13	18:COM5	22:COM9
11441	4694	+ve	0.000	49.836	0.653	10.239	0.872	40.578
			-	20:COM7	16:COM3	16:COM3	24:COM11	20:COM7
			-22.980	-36.487	-0.776	-8.566	-0.751	-27.281
			22:COM9	30:COM17	26:COM13	26:COM13	18:COM5	30:COM17
	4701	-ve	0.000	45.032	0.653	10.239	0.523	47.974
			-	28:COM15	16:COM3	16:COM3	16:COM3	20:COM7
			-22.980	-40.987	-0.776	-8.566	-0.642	-51.635
			22:COM9	22:COM9	26:COM13	26:COM13	26:COM13	30:COM17
11442	4695	+ve	2.674	82.915	0.618	7.523	0.909	68.490
			28:COM15	20:COM7	24:COM11	24:COM11	16:COM3	20:COM7
			-21.015	-48.801	-0.848	-9.005	-0.589	-36.890
			22:COM9	30:COM17	18:COM5	18:COM5	26:COM13	30:COM17
	4702	-ve	2.674	76.930	0.618	7.523	0.617	61.524
			28:COM15	20:COM7	24:COM11	24:COM11	24:COM11	28:COM15
			-21.015	-52.120	-0.848	-9.005	-0.745	-87.375
			22:COM9	30:COM17	18:COM5	18:COM5	18:COM5	22:COM9
11443	4684	+ve	0.000	0.000	3.057	0.000	0.000	0.000
			-	-	20:COM7	-	-	-
			-22.940	-37.885	-0.335	-20.297	-3.717	-15.433
			22:COM9	34:CVOL3	30:COM17	34:CVOL3	22:COM9	34:CVOL3
	4676	-ve	0.000	0.000	3.057	0.000	1.776	61.128
			-	-	20:COM7	-	20:COM7	34:CVOL3
			-22.940	-47.357	-0.335	-20.297	-0.730	0.000
			22:COM9	34:CVOL3	30:COM17	34:CVOL3	30:COM17	-
11444	4685	+ve	3.140	0.000	0.937	14.149	0.621	0.000
			28:COM15	-	16:COM3	20:COM7	24:COM11	-
			-13.913	-44.843	-0.428	-8.223	-1.117	-29.395
			22:COM9	22:COM9	26:COM13	30:COM17	18:COM5	22:COM9
	4677	-ve	3.140	0.000	0.937	14.149	0.576	59.239
			28:COM15	-	16:COM3	20:COM7	16:COM3	34:CVOL3
			-13.913	-51.232	-0.428	-8.223	-0.159	0.000
			22:COM9	22:COM9	26:COM13	30:COM17	26:COM13	-
11445	4686	+ve	0.986	0.000	0.000	4.583	0.247	0.000
			28:COM15	-	-	16:COM3	24:COM11	-
			-21.027	-78.393	-0.296	-4.150	-0.176	-55.252
			22:COM9	22:COM9	18:COM5	26:COM13	18:COM5	22:COM9
	4678	-ve	0.986	0.000	0.000	4.583	0.000	96.320
			28:COM15	-	-	16:COM3	-	34:CVOL3
			-21.027	-84.091	-0.296	-4.150	-0.399	0.000
			22:COM9	34:CVOL3	18:COM5	26:COM13	18:COM5	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
11446	4687	+ve	12.663	5.671	1.816	7.331	0.890	11.558
			28:COM15	28:COM15	16:COM3	24:COM17	24:COM11	28:COM15
			-28.824	-62.536	-1.441	-15.588	-1.065	-46.326
			22:COM9	22:COM9	26:COM13	18:COM5	18:COM5	22:COM9
	4679	-ve	12.663	2.387	1.816	7.331	2.198	70.977
			28:COM15	28:COM15	16:COM3	24:COM17	16:COM3	20:COM7
			-28.824	-67.991	-1.441	-15.588	-1.699	0.000
			22:COM9	22:COM9	26:COM13	18:COM5	26:COM13	-
11447	4697	+ve	3.061	7.695	0.617	8.005	0.832	8.534
			28:COM15	16:COM3	28:COM15	24:COM17	20:COM7	16:COM3
			-6.447	0.000	-0.733	-12.327	-0.748	0.000
			22:COM9	-	22:COM9	18:COM5	30:COM17	-
	4703	-ve	3.061	2.311	0.617	8.005	0.457	1.523
			28:COM15	24:COM11	28:COM15	24:COM17	28:COM15	20:COM7
			-6.447	-0.992	-0.733	-12.327	-0.599	-2.457
			22:COM9	18:COM5	22:COM9	18:COM5	22:COM9	30:COM17
11448	4688	+ve	3.177	0.000	2.398	5.594	2.344	0.000
			24:COM17	-	24:COM11	16:COM3	16:COM3	-
			-9.282	-6.030	-2.554	-4.251	-2.355	-6.040
			18:COM5	18:COM5	18:COM5	26:COM13	26:COM13	22:COM9
	4680	-ve	3.177	0.000	2.398	5.594	1.967	10.184
			24:COM17	-	24:COM11	16:COM3	24:COM11	16:COM3
			-9.282	-11.841	-2.554	-4.251	-2.257	0.000
			18:COM5	34:CVOL3	18:COM5	26:COM13	18:COM5	-
11449	4685	+ve	9.349	62.815	0.179	6.678	3.741	165.587
			20:COM7	16:COM3	28:COM15	34:CVOL3	20:COM7	16:COM3
			-4.092	0.000	-3.437	0.000	-0.317	-16.725
			30:COM17	-	22:COM9	-	30:COM17	26:COM13
	4760	-ve	9.349	60.219	0.179	6.678	0.026	50.204
			20:COM7	16:COM3	28:COM15	34:CVOL3	28:COM15	16:COM3
			-4.092	0.000	-3.437	0.000	-2.712	-22.465
			30:COM17	-	22:COM9	-	22:COM9	26:COM13
11450	4689	+ve	11.198	7.706	0.423	4.274	0.270	12.837
			28:COM15	28:COM15	28:COM15	16:COM3	16:COM3	28:COM15
			-30.180	-41.201	-0.308	-1.058	-0.169	-33.962
			22:COM9	22:COM9	22:COM9	26:COM13	26:COM13	22:COM9
	4856	-ve	11.198	4.345	0.423	4.274	0.724	47.038
			28:COM15	28:COM15	28:COM15	16:COM3	28:COM15	20:COM7
			-30.180	-46.786	-0.308	-1.058	-0.411	0.000
			22:COM9	22:COM9	22:COM9	26:COM13	22:COM9	-
11451	4696	+ve	4.193	60.463	0.000	4.169	12.734	203.627
			28:COM15	34:CVOL3	-	28:COM15	34:CVOL3	34:CVOL3
			-12.168	0.000	-10.274	-6.367	0.000	0.000
			22:COM9	-	34:CVOL3	22:COM9	-	-
	4768	-ve	4.193	58.177	0.000	4.169	0.000	89.970
			28:COM15	34:CVOL3	-	28:COM15	-	20:COM7
			-12.168	0.000	-10.274	-6.367	-7.866	0.000
			22:COM9	-	34:CVOL3	22:COM9	22:COM9	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
11452	4692	+ve	3.670	38.438	4.988	4.465	2.346	114.420
			28:COM15	35:CVOL4	20:COM7	16:COM3	28:COM15	16:COM3
			-9.317	0.000	-1.791	-2.529	-5.921	0.000
			22:COM9	-	30:COM17	26:COM13	22:COM9	-
	4770	-ve	3.670	36.271	4.988	4.465	3.452	44.482
			28:COM15	35:CVOL4	20:COM7	16:COM3	20:COM7	16:COM3
			-9.317	0.000	-1.791	-2.529	-1.021	0.000
			22:COM9	-	30:COM17	26:COM13	30:COM17	-
11453	4693	+ve	7.947	41.417	1.836	10.155	1.915	135.362
			28:COM15	16:COM3	20:COM7	35:CVOL4	20:COM7	16:COM3
			-12.417	0.000	-1.487	0.000	-2.144	-3.580
			22:COM9	-	30:COM17	-	30:COM17	26:COM13
	4776	-ve	7.947	39.138	1.836	10.155	1.524	55.840
			28:COM15	16:COM3	20:COM7	35:CVOL4	20:COM7	16:COM3
			-12.417	0.000	-1.487	0.000	-1.063	-20.877
			22:COM9	-	30:COM17	-	30:COM17	26:COM13
11454	4689	+ve	7.128	64.057	3.140	13.640	4.033	205.825
			28:COM15	16:COM3	28:COM15	32:CVOL1	20:COM7	16:COM3
			-19.067	0.000	-3.572	0.000	-3.565	0.000
			22:COM9	-	22:COM9	-	30:COM17	-
	4728	-ve	7.128	61.334	3.140	13.640	2.615	82.542
			28:COM15	16:COM3	28:COM15	32:CVOL1	28:COM15	16:COM3
			-19.067	0.000	-3.572	0.000	-2.997	-21.696
			22:COM9	-	22:COM9	-	22:COM9	26:COM13
11455	4686	+ve	20.590	65.275	0.647	13.356	0.848	208.791
			16:COM3	16:COM3	28:COM15	20:COM7	20:COM7	16:COM3
			-21.185	0.000	-1.140	0.000	-0.565	0.000
			26:COM13	-	22:COM9	-	30:COM17	-
	4734	-ve	20.590	62.545	0.647	13.356	0.759	82.743
			16:COM3	16:COM3	28:COM15	20:COM7	28:COM15	16:COM3
			-21.185	0.000	-1.140	0.000	-1.448	-31.553
			26:COM13	-	22:COM9	-	22:COM9	26:COM13
11456	4694	+ve	25.227	44.127	0.911	9.966	0.028	140.072
			28:COM15	16:COM3	20:COM7	16:COM3	24:COM11	16:COM3
			-30.371	0.000	0.000	0.000	-1.049	-14.569
			22:COM9	-	-	-	18:COM5	26:COM13
	4782	-ve	25.227	41.851	0.911	9.966	0.893	55.235
			28:COM15	16:COM3	20:COM7	16:COM3	20:COM7	16:COM3
			-30.371	0.000	0.000	0.000	0.000	-26.376
			22:COM9	-	-	-	-	26:COM13
11457	4687	+ve	22.598	88.385	0.971	15.338	2.145	204.825
			24:COM11	16:COM3	28:COM15	34:CVOL3	20:COM7	16:COM3
			-35.859	-74.429	-2.029	0.000	-1.124	-204.319
			18:COM5	26:COM13	22:COM9	-	30:COM17	26:COM13
	4753	-ve	22.598	85.652	0.971	15.338	0.818	39.032
			24:COM11	16:COM3	28:COM15	34:CVOL3	28:COM15	24:COM11
			-35.859	-76.479	-2.029	0.000	-1.887	-61.364
			18:COM5	26:COM13	22:COM9	-	22:COM9	18:COM5

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
11458	4682	+ve	0.000	8.526	2.583	1.014	1.301	3.472
			-	16:COM3	16:COM3	28:COM1	16:COM3	16:COM3
			-13.864	-3.107	-0.334	-2.218	-0.269	-3.190
			18:COM5	26:COM1	26:COM1	22:COM9	26:COM1	26:COM1
	4755	-ve	0.000	7.572	2.583	1.014	1.985	0.000
			-	16:COM3	16:COM3	28:COM1	34:CVOL3	-
			-13.864	-3.823	-0.334	-2.218	0.000	-2.509
			18:COM5	26:COM1	26:COM1	22:COM9	-	18:COM5
11459	4683	+ve	9.793	7.587	1.617	0.000	2.152	8.873
			24:COM1	24:COM1	24:COM1	-	16:COM3	24:COM1
			-18.845	-19.696	-2.361	-8.681	-1.216	-19.038
			18:COM5	18:COM5	18:COM5	18:COM5	26:COM1	18:COM5
	4688	-ve	9.793	5.555	1.617	0.000	1.952	28.794
			24:COM1	24:COM1	24:COM1	-	24:COM1	16:COM3
			-18.845	-22.405	-2.361	-8.681	-2.472	-10.615
			18:COM5	18:COM5	18:COM5	18:COM5	18:COM5	26:COM1
11463	4684	+ve	0.000	118.404	3.485	10.953	0.428	181.276
			-	34:CVOL3	20:COM7	34:CVOL3	28:COM1	34:CVOL3
			-115.362	0.000	-0.271	0.000	-4.247	0.000
			34:CVOL3	-	30:COM1	-	22:COM9	-
	4740	-ve	0.000	115.586	3.485	10.953	2.862	0.000
			-	34:CVOL3	20:COM7	34:CVOL3	20:COM7	-
			-115.362	0.000	-0.271	0.000	-0.136	-56.976
			34:CVOL3	-	30:COM1	-	30:COM1	34:CVOL3
11464	4690	+ve	46.867	21.423	2.177	4.297	0.000	10.030
			28:COM1	28:COM1	34:CVOL3	16:COM3	-	28:COM1
			-78.094	-34.106	0.000	-0.772	-2.210	-15.824
			22:COM9	22:COM9	-	26:COM1	34:CVOL3	22:COM9
	4742	-ve	46.867	19.285	2.177	4.297	2.275	57.395
			28:COM1	28:COM1	34:CVOL3	16:COM3	34:CVOL3	20:COM7
			-78.094	-36.956	0.000	-0.772	0.000	-31.929
			22:COM9	22:COM9	-	26:COM1	-	30:COM1
11465	4741	+ve	30.756	57.596	0.427	3.025	0.000	95.631
			16:COM3	20:COM7	34:CVOL3	28:COM1	-	20:COM7
			-29.371	-28.493	0.000	-3.735	-0.612	-81.555
			26:COM1	30:COM1	-	22:COM9	34:CVOL3	30:COM1
	4744	-ve	30.756	54.846	0.427	3.025	0.254	0.000
			16:COM3	20:COM7	34:CVOL3	28:COM1	20:COM7	-
			-29.371	-30.556	0.000	-3.735	0.000	-36.318
			26:COM1	30:COM1	-	22:COM9	-	22:COM9
11466	4680	+ve	3.388	7.838	0.091	0.000	0.336	9.042
			20:COM7	15:COM2	24:COM1	35:CVOL4	16:COM3	15:COM2
			-1.555	0.000	-0.203	0.000	-0.090	0.000
			30:COM1	-	18:COM5	-	26:COM1	-
	4892	-ve	3.388	0.000	0.091	0.000	0.317	0.000
			20:COM7	33:CVOL2	24:COM1	35:CVOL4	16:COM3	-
			-1.555	0.000	-0.203	0.000	-0.329	-0.000
			30:COM1	-	18:COM5	-	26:COM1	33:CVOL2

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
11467	4695	+ve	18.171	37.868	1.041	5.171	0.134	103.511
			28:COM1	16:COM3	16:COM3	16:COM3	28:COM1	16:COM3
			-24.767	0.000	-0.116	-4.215	-1.082	-4.855
			22:COM9	-	26:COM1	26:COM1	22:COM9	26:COM1
	4788	-ve	18.171	35.594	1.041	5.171	1.091	31.141
			28:COM1	16:COM3	16:COM3	16:COM3	16:COM3	16:COM3
			-24.767	0.000	-0.116	-4.215	-0.214	-10.713
			22:COM9	-	26:COM1	26:COM1	26:COM1	26:COM1
11468	4698	+ve	0.000	10.554	0.000	0.728	4.762	11.946
			-	34:CVOL	-	28:COM1	20:COM7	34:CVOL
			-25.214	0.000	-2.678	-2.679	0.000	0.000
			34:CVOL	-	22:COM9	22:COM9	-	-
	4704	-ve	0.000	1.296	0.000	0.728	0.615	0.971
			-	28:COM1	-	28:COM1	28:COM1	28:COM1
			-25.214	-1.275	-2.678	-2.679	-1.933	-2.716
			34:CVOL	22:COM9	22:COM9	22:COM9	22:COM9	22:COM9
11469	4699	+ve	0.000	40.121	0.000	1.314	0.579	49.801
			-	20:COM7	-	28:COM1	35:CVOL	20:COM7
			-27.715	-41.688	-0.533	-4.410	0.000	-50.962
			22:COM9	30:COM1	22:COM9	22:COM9	-	30:COM1
	4705	-ve	0.000	34.888	0.000	1.314	0.000	62.168
			-	28:COM1	-	28:COM1	-	20:COM7
			-27.715	-48.883	-0.533	-4.410	-0.776	-43.876
			22:COM9	22:COM9	22:COM9	22:COM9	22:COM9	30:COM1
11470	4700	+ve	9.609	83.713	0.148	2.837	0.333	103.499
			28:COM1	28:COM1	24:COM1	20:COM7	16:COM3	28:COM1
			-8.184	-102.624	-0.213	-1.605	-0.347	-133.033
			22:COM9	22:COM9	18:COM5	30:COM1	26:COM1	22:COM9
	4706	-ve	9.609	79.458	0.148	2.837	0.212	133.121
			28:COM1	28:COM1	24:COM1	20:COM7	28:COM1	20:COM7
			-8.184	-110.298	-0.213	-1.605	-0.387	-100.466
			22:COM9	22:COM9	18:COM5	30:COM1	22:COM9	30:COM1
11471	4701	+ve	6.966	70.269	0.292	1.986	0.413	86.552
			28:COM1	28:COM1	16:COM3	24:COM1	24:COM1	28:COM1
			-5.405	-75.566	-0.250	-2.359	-0.335	-96.485
			22:COM9	22:COM9	26:COM1	18:COM5	18:COM5	22:COM9
	4707	-ve	6.966	66.014	0.292	1.986	0.399	102.025
			28:COM1	28:COM1	16:COM3	24:COM1	16:COM3	20:COM7
			-5.405	-83.239	-0.250	-2.359	-0.216	-83.804
			22:COM9	22:COM9	26:COM1	18:COM5	26:COM1	30:COM1
11472	4702	+ve	12.585	90.094	0.260	0.890	0.599	110.334
			28:COM1	28:COM1	24:COM1	28:COM1	16:COM3	28:COM1
			-9.837	-118.299	-0.326	-2.994	-0.576	-149.193
			22:COM9	22:COM9	18:COM5	22:COM9	26:COM1	22:COM9
	4708	-ve	12.585	85.839	0.260	0.890	0.154	156.154
			28:COM1	28:COM1	24:COM1	28:COM1	28:COM1	20:COM7
			-9.837	-125.972	-0.326	-2.994	-0.294	-109.589
			22:COM9	22:COM9	18:COM5	22:COM9	22:COM9	30:COM1

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
11473	4703	+ve	0.705	5.092	0.144	0.675	0.298	3.769
			24:COM1	20:COM7	28:COM1	24:COM1	16:COM3	16:COM3
			-7.178	0.000	-0.188	-1.024	-0.239	0.000
			18:COM5	-	22:COM9	18:COM5	26:COM1	-
	4709	-ve	0.705	0.000	0.144	0.675	0.138	2.480
			24:COM1	-	28:COM1	24:COM1	28:COM1	20:COM7
			-7.178	-4.028	-0.188	-1.024	-0.189	-0.336
			18:COM5	22:COM9	22:COM9	18:COM5	22:COM9	30:COM1
11474	4704	+ve	16.138	28.705	1.128	23.048	1.792	20.167
			20:COM7	34:CVOL3	28:COM1	34:CVOL3	20:COM7	34:CVOL3
			-2.873	0.000	-2.786	0.000	-1.165	0.000
			30:COM1	-	22:COM9	-	30:COM1	-
	4684	-ve	16.138	21.687	1.128	23.048	0.703	0.000
			20:COM7	34:CVOL3	28:COM1	34:CVOL3	28:COM1	-
			-2.873	0.000	-2.786	0.000	-2.811	-21.407
			30:COM1	-	22:COM9	-	22:COM9	34:CVOL3
11475	4705	+ve	0.000	32.035	0.565	10.383	2.333	43.431
			-	20:COM7	28:COM1	28:COM1	20:COM7	20:COM7
			-19.178	-28.167	-3.172	-18.253	-0.338	-31.061
			22:COM9	30:COM1	22:COM9	22:COM9	30:COM1	30:COM1
	4685	-ve	0.000	28.116	0.565	10.383	0.596	20.956
			-	28:COM1	28:COM1	28:COM1	28:COM1	20:COM7
			-19.178	-32.451	-3.172	-18.253	-2.903	-8.201
			22:COM9	22:COM9	22:COM9	22:COM9	22:COM9	30:COM1
11476	4706	+ve	2.487	62.275	1.180	0.985	1.338	69.503
			24:COM1	20:COM7	20:COM7	24:COM1	28:COM1	20:COM7
			-16.674	-45.917	-1.313	-7.050	-1.125	-46.847
			18:COM5	30:COM1	30:COM1	18:COM5	22:COM9	30:COM1
	4689	-ve	2.487	57.211	1.180	0.985	0.825	31.416
			24:COM1	20:COM7	20:COM7	24:COM1	20:COM7	20:COM7
			-16.674	-48.725	-1.313	-7.050	-0.832	-29.256
			18:COM5	30:COM1	30:COM1	18:COM5	30:COM1	30:COM1
11477	4707	+ve	0.000	35.225	1.173	5.406	0.000	44.537
			-	28:COM1	16:COM3	24:COM1	-	28:COM1
			-18.050	-55.401	0.000	-6.104	-1.036	-50.806
			22:COM9	22:COM9	-	18:COM5	18:COM5	22:COM9
	4686	-ve	0.000	32.417	1.173	5.406	0.902	44.785
			-	28:COM1	16:COM3	24:COM1	16:COM3	20:COM7
			-18.050	-60.465	0.000	-6.104	-0.009	-11.269
			22:COM9	22:COM9	-	18:COM5	26:COM1	30:COM1
11478	4708	+ve	0.000	64.186	1.358	17.393	2.389	75.314
			-	20:COM7	24:COM1	16:COM3	16:COM3	20:COM7
			-16.751	-58.187	-2.241	-9.174	-1.502	-59.450
			18:COM5	30:COM1	18:COM5	26:COM1	26:COM1	30:COM1
	4687	-ve	0.000	59.352	1.358	17.393	0.781	41.760
			-	28:COM1	24:COM1	16:COM3	24:COM1	20:COM7
			-16.751	-61.226	-2.241	-9.174	-1.351	-29.299
			18:COM5	22:COM9	18:COM5	26:COM1	18:COM5	30:COM1

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
11479	4709	+ve	4.638	1.926	3.255	4.436	2.245	1.312
			24:COM1	24:COM11	16:COM3	24:COM1	24:COM11	24:COM1
			-14.045	-3.411	-3.225	-6.506	-2.451	-2.402
			18:COM5	18:COM5	26:COM1	18:COM5	18:COM5	18:COM5
	4688	-ve	4.638	0.000	3.255	4.436	2.944	7.707
			24:COM1	-	16:COM3	24:COM1	24:COM11	16:COM3
			-14.045	-8.476	-3.225	-6.506	-3.101	0.000
			18:COM5	18:COM5	26:COM1	18:COM5	18:COM5	-
11480	4716	+ve	0.000	0.434	0.173	0.296	0.000	0.071
			-	32:CVOL1	34:CVOL3	20:COM7	-	28:COM1
			-6.763	-1.551	0.000	-0.009	-0.251	-0.718
			34:CVOL3	35:CVOL4	-	30:COM1	34:CVOL3	22:COM9
	4717	-ve	0.000	0.000	0.173	0.296	0.280	7.810
			-	-	34:CVOL3	20:COM7	34:CVOL3	34:CVOL3
			-6.763	-5.428	0.000	-0.009	0.000	0.000
			34:CVOL3	32:CVOL1	-	30:COM1	-	-
11481	4716	+ve	1.615	1.551	4.760	0.735	0.000	0.218
			34:CVOL3	35:CVOL4	34:CVOL3	34:CVOL3	-	28:COM1
			0.000	-0.434	0.000	-0.014	-0.161	-0.112
			-	32:CVOL1	-	30:COM1	34:CVOL3	22:COM9
	4847	-ve	1.615	1.457	4.760	0.735	0.811	0.231
			34:CVOL3	35:CVOL4	34:CVOL3	34:CVOL3	34:CVOL3	28:COM1
			0.000	-0.544	0.000	-0.014	0.000	-0.286
			-	32:CVOL1	-	30:COM1	-	22:COM9
11482	4711	+ve	0.000	14.234	0.000	1.010	0.745	55.156
			-	34:CVOL3	-	20:COM7	34:CVOL3	34:CVOL3
			-27.922	0.000	-0.666	-0.123	0.000	0.000
			22:COM9	-	34:CVOL3	30:COM1	-	-
	4822	-ve	0.000	12.557	0.000	1.010	0.000	29.571
			-	34:CVOL3	-	20:COM7	-	20:COM7
			-27.922	0.000	-0.666	-0.123	-0.577	0.000
			22:COM9	-	34:CVOL3	30:COM1	34:CVOL3	-
11483	4710	+ve	1.691	7.165	0.157	1.583	0.051	18.724
			28:COM1	20:COM7	20:COM7	35:CVOL4	28:COM1	35:CVOL4
			-7.783	0.000	-0.037	0.000	-0.183	0.000
			22:COM9	-	30:COM1	-	22:COM9	-
	4828	-ve	1.691	5.574	0.157	1.583	0.112	7.447
			28:COM1	20:COM7	20:COM7	35:CVOL4	20:COM7	35:CVOL4
			-7.783	0.000	-0.037	0.000	-0.019	0.000
			22:COM9	-	30:COM1	-	30:COM1	-
11484	4711	+ve	25.519	0.000	0.000	10.377	14.535	0.000
			20:COM7	-	-	20:COM7	34:CVOL3	-
			0.000	-25.216	-9.989	-2.120	0.000	-2.152
			-	34:CVOL3	34:CVOL3	30:COM1	-	34:CVOL3
	4696	-ve	25.519	0.000	0.000	10.377	0.000	92.900
			20:COM7	-	-	20:COM7	-	34:CVOL3
			0.000	-37.033	-9.989	-2.120	-15.971	0.000
			-	34:CVOL3	34:CVOL3	30:COM1	34:CVOL3	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
11485	4710	+ve	10.570	0.000	1.151	2.413	1.041	0.000
			20:COM7	-	28:COM15	28:COM15	20:COM7	-
			-2.072	-17.698	-0.838	-4.231	-1.299	-2.884
			30:COM17	35:CVOL4	22:COM9	22:COM9	30:COM17	35:CVOL4
	4692	-ve	10.570	0.000	1.151	2.413	2.245	69.208
			20:COM7	-	28:COM15	28:COM15	20:COM7	35:CVOL4
			-2.072	-29.514	-0.838	-4.231	-1.548	0.000
			30:COM17	35:CVOL4	22:COM9	22:COM9	30:COM17	-
11486	4717	+ve	0.818	8.517	0.009	0.091	0.000	7.407
			28:COM15	34:CVOL3	16:COM3	28:COM15	-	32:CVOL1
			-1.361	0.000	-0.002	-0.174	-0.040	0.000
			22:COM9	-	26:COM13	22:COM9	34:CVOL3	-
	4718	-ve	0.818	0.000	0.009	0.091	0.018	18.124
			28:COM15	-	16:COM3	28:COM15	16:COM3	34:CVOL3
			-1.361	-12.129	-0.002	-0.174	-0.017	0.000
			22:COM9	34:CVOL3	26:COM13	22:COM9	26:COM13	-
11487	4696	+ve	214.429	97.683	0.000	2.720	26.732	406.791
			34:CVOL3	34:CVOL3	-	28:COM15	34:CVOL3	34:CVOL3
			0.000	0.000	-21.126	-6.547	0.000	0.000
			-	-	34:CVOL3	22:COM9	-	-
	4790	-ve	214.429	94.231	0.000	2.720	0.000	250.103
			34:CVOL3	34:CVOL3	-	28:COM15	-	34:CVOL3
			0.000	0.000	-21.126	-6.547	-7.765	0.000
			-	-	34:CVOL3	22:COM9	34:CVOL3	-
11488	4718	+ve	0.608	4.930	0.245	0.000	0.000	4.184
			24:COM17	34:CVOL3	34:CVOL3	-	-	34:CVOL3
			-0.753	0.000	0.000	-0.749	-0.095	0.000
			18:COM5	-	-	34:CVOL3	34:CVOL3	-
	4719	-ve	0.608	1.232	0.245	0.000	0.216	0.557
			24:COM17	33:CVOL2	34:CVOL3	-	20:COM7	34:CVOL3
			-0.753	0.000	0.000	-0.749	0.000	0.000
			18:COM5	-	-	34:CVOL3	-	-
11489	4718	+ve	7.813	0.000	0.000	13.038	3.160	0.000
			16:COM3	-	-	34:CVOL3	34:CVOL3	-
			0.000	-17.060	-2.532	0.000	0.000	-4.811
			-	34:CVOL3	34:CVOL3	-	-	34:CVOL3
	4840	-ve	7.813	0.000	0.000	13.038	0.000	32.509
			16:COM3	-	-	34:CVOL3	-	34:CVOL3
			0.000	-21.118	-2.532	0.000	-1.791	0.000
			-	34:CVOL3	34:CVOL3	-	34:CVOL3	-
11490	4712	+ve	1.356	8.620	0.101	0.910	0.028	36.073
			24:COM17	35:CVOL4	16:COM3	16:COM3	24:COM11	16:COM3
			-2.804	0.000	-0.015	0.000	-0.110	0.000
			18:COM5	-	26:COM13	-	18:COM5	-
	4796	-ve	1.356	6.777	0.101	0.910	0.094	21.363
			24:COM17	35:CVOL4	16:COM3	16:COM3	16:COM3	16:COM3
			-2.804	0.000	-0.015	0.000	-0.005	-6.123
			18:COM5	-	26:COM13	-	26:COM13	26:COM13

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
11491	4713	+ve	12.409	8.340	0.130	1.009	0.012	28.263
			28:COM15	16:COM3	16:COM3	16:COM3	28:COM15	16:COM3
			-16.247	0.000	-0.012	-0.188	-0.133	0.000
			22:COM9	-	26:COM13	26:COM13	22:COM9	-
	4802	-ve	12.409	6.507	0.130	1.009	0.129	18.868
			28:COM15	16:COM3	16:COM3	16:COM3	16:COM3	16:COM3
			-16.247	0.000	-0.012	-0.188	-0.017	-7.156
			22:COM9	-	26:COM13	26:COM13	26:COM13	26:COM13
11492	4714	+ve	8.217	11.388	0.127	0.256	0.046	23.591
			28:COM15	16:COM3	16:COM3	20:COM7	24:COM11	35:CVOL4
			-11.807	0.000	-0.050	-0.058	-0.129	0.000
			22:COM9	-	26:COM13	30:COM17	18:COM5	-
	4805	-ve	8.217	9.557	0.127	0.256	0.121	11.217
			28:COM15	16:COM3	16:COM3	20:COM7	16:COM3	16:COM3
			-11.807	0.000	-0.050	-0.058	-0.052	-1.236
			22:COM9	-	26:COM13	30:COM17	26:COM13	26:COM13
11493	4715	+ve	2.716	2.998	0.255	9.107	0.241	0.625
			16:COM3	24:COM11	24:COM11	24:COM11	16:COM3	24:COM11
			-1.783	-20.281	-0.382	-17.076	-0.047	-1.302
			26:COM13	18:COM5	18:COM5	18:COM5	26:COM13	18:COM5
	4697	-ve	2.716	0.870	0.255	9.107	0.385	26.492
			16:COM3	24:COM11	24:COM11	24:COM11	28:COM15	16:COM3
			-1.783	-24.119	-0.382	-17.076	-0.350	-1.827
			26:COM13	18:COM5	18:COM5	18:COM5	22:COM9	26:COM13
11494	4714	+ve	1.877	0.000	0.240	11.570	0.551	0.007
			20:COM7	-	28:COM15	16:COM3	16:COM3	24:COM11
			-0.666	-18.590	-0.634	-9.932	-0.307	-1.174
			30:COM17	18:COM5	22:COM9	26:COM13	26:COM13	18:COM5
	4695	-ve	1.877	0.000	0.240	11.570	0.157	25.170
			20:COM7	-	28:COM15	16:COM3	28:COM15	16:COM3
			-0.666	-22.428	-0.634	-9.932	-0.406	0.000
			30:COM17	18:COM5	22:COM9	26:COM13	22:COM9	-
11495	4713	+ve	2.246	0.000	0.230	16.382	0.282	0.000
			20:COM7	-	20:COM7	16:COM3	24:COM11	-
			-1.122	-15.566	-0.220	-13.734	-0.349	-1.543
			30:COM17	35:CVOL4	30:COM17	26:COM13	18:COM5	35:CVOL4
	4694	-ve	2.246	0.000	0.230	16.382	0.320	20.697
			20:COM7	-	20:COM7	16:COM3	20:COM7	35:CVOL4
			-1.122	-20.004	-0.220	-13.734	-0.375	0.000
			30:COM17	35:CVOL4	30:COM17	26:COM13	30:COM17	-
11496	4712	+ve	2.126	0.000	0.673	5.919	0.168	0.000
			28:COM15	-	28:COM15	24:COM17	24:COM11	-
			-2.166	-17.231	-0.819	-8.735	-0.233	-1.144
			22:COM9	18:COM5	22:COM9	18:COM5	18:COM5	22:COM9
	4693	-ve	2.126	0.000	0.673	5.919	0.792	23.068
			28:COM15	-	28:COM15	24:COM17	28:COM15	16:COM3
			-2.166	-21.069	-0.819	-8.735	-1.040	0.000
			22:COM9	18:COM5	22:COM9	18:COM5	22:COM9	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
11497	4720	+ve	0.367	3.134	0.000	0.026	0.136	0.216
			28:COM15	34:CVOL3	-	16:COM3	20:COM7	34:CVOL3
			-0.723	0.000	-0.169	-0.097	0.000	0.000
			22:COM9	-	22:COM9	26:COM13	-	-
	4721	-ve	0.367	0.000	0.000	0.026	0.006	0.139
			28:COM15	-	-	16:COM3	28:COM15	24:COM11
			-0.723	-1.568	-0.169	-0.097	-0.088	-1.083
			22:COM9	32:CVOL1	22:COM9	26:COM13	22:COM9	34:CVOL3
11498	4721	+ve	0.746	7.599	0.002	0.787	0.014	0.601
			28:COM15	34:CVOL3	28:COM15	34:CVOL3	20:COM7	32:CVOL1
			-3.106	0.000	-0.004	0.000	-0.008	-1.780
			22:COM9	-	22:COM9	-	30:COM17	35:CVOL4
	4722	-ve	0.746	0.000	0.002	0.787	0.008	18.897
			28:COM15	-	28:COM15	34:CVOL3	24:COM11	34:CVOL3
			-3.106	-13.629	-0.004	0.000	-0.011	0.000
			22:COM9	34:CVOL3	22:COM9	-	18:COM5	-
11499	4697	+ve	2.403	71.499	1.815	4.076	0.991	133.183
			28:COM15	16:COM3	16:COM3	16:COM3	24:COM11	16:COM3
			-7.432	-43.973	-1.008	0.000	-1.701	-73.275
			22:COM9	26:COM13	26:COM13	-	18:COM5	26:COM13
	4807	-ve	2.403	69.558	1.815	4.076	1.364	14.680
			28:COM15	16:COM3	16:COM3	16:COM3	16:COM3	16:COM3
			-7.432	-45.429	-1.008	0.000	-0.714	0.000
			22:COM9	26:COM13	26:COM13	-	26:COM13	-
11500	4715	+ve	1.652	11.367	0.099	0.597	0.060	27.204
			28:COM15	16:COM3	16:COM3	16:COM3	24:COM11	16:COM3
			-3.900	-6.199	-0.059	0.000	-0.091	-5.611
			22:COM9	26:COM13	26:COM13	-	18:COM5	26:COM13
	4838	-ve	1.652	9.804	0.099	0.597	0.076	11.264
			28:COM15	16:COM3	16:COM3	16:COM3	16:COM3	34:CVOL3
			-3.900	-7.372	-0.059	0.000	-0.040	0.000
			22:COM9	26:COM13	26:COM13	-	26:COM13	-
11501	4722	+ve	2.155	5.843	0.006	1.521	0.004	12.008
			24:COM11	32:CVOL1	20:COM7	34:CVOL3	24:COM11	34:CVOL3
			-3.210	0.000	0.000	0.000	-0.020	0.000
			18:COM5	-	-	-	18:COM5	-
	4894	-ve	2.155	0.000	0.006	1.521	0.019	6.049
			24:COM11	-	20:COM7	34:CVOL3	16:COM3	34:CVOL3
			-3.210	-3.312	0.000	0.000	-0.003	0.000
			18:COM5	32:CVOL1	-	-	26:COM13	-
11502	4688	+ve	31.872	103.811	0.870	8.090	1.543	180.597
			24:COM11	16:COM3	24:COM11	16:COM3	16:COM3	16:COM3
			-30.595	-69.321	-1.955	0.000	-0.598	-130.692
			18:COM5	26:COM13	18:COM5	-	26:COM13	26:COM13
	4756	-ve	31.872	101.484	0.870	8.090	0.879	9.548
			24:COM11	16:COM3	24:COM11	16:COM3	24:COM11	24:COM11
			-30.595	-71.067	-1.955	0.000	-1.761	-14.229
			18:COM5	26:COM13	18:COM5	-	18:COM5	18:COM5

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
11503	4724	+ve	0.463	18.106	0.032	0.582	0.038	40.296
			28:COM15	34:CVOL3	24:COM11	16:COM3	20:COM7	16:COM3
			-1.993	0.000	-0.043	-0.022	-0.028	0.000
			22:COM9	-	18:COM5	26:COM13	30:COM17	-
	4810	-ve	0.463	14.539	0.032	0.582	0.039	12.563
			28:COM15	34:CVOL3	24:COM11	16:COM3	24:COM11	16:COM3
			-1.993	0.000	-0.043	-0.022	-0.049	-7.088
			22:COM9	-	18:COM5	26:COM13	18:COM5	26:COM13
11504	4677	+ve	7.482	41.120	0.582	14.290	0.242	83.261
			20:COM7	34:CVOL3	16:COM3	28:COM15	24:COM11	34:CVOL3
			-0.614	0.000	-0.289	-21.156	-0.493	0.000
			30:COM17	-	26:COM13	22:COM9	18:COM5	-
	4723	-ve	7.482	31.340	0.582	14.290	0.882	0.000
			20:COM7	34:CVOL3	16:COM3	28:COM15	16:COM3	-
			-0.614	0.000	-0.289	-21.156	-0.445	-2.111
			30:COM17	-	26:COM13	22:COM9	26:COM13	22:COM9
11505	4678	+ve	7.604	93.188	1.869	16.740	1.277	253.746
			20:COM7	34:CVOL3	16:COM3	16:COM3	24:COM11	34:CVOL3
			-3.529	0.000	-1.759	-15.390	-1.324	0.000
			30:COM17	-	26:COM13	26:COM13	18:COM5	-
	4725	-ve	7.604	85.209	1.869	16.740	3.067	44.463
			20:COM7	34:CVOL3	16:COM3	16:COM3	16:COM3	35:CVOL4
			-3.529	0.000	-1.759	-15.390	-2.856	0.000
			30:COM17	-	26:COM13	26:COM13	26:COM13	-
11506	4725	+ve	15.180	17.281	0.216	0.000	0.328	41.557
			24:COM11	32:CVOL1	24:COM11	-	16:COM3	16:COM3
			-18.157	0.000	-0.272	-4.041	-0.276	0.000
			18:COM5	-	18:COM5	34:CVOL3	26:COM13	-
	4812	-ve	15.180	13.245	0.216	0.000	0.149	16.239
			24:COM11	34:CVOL3	24:COM11	-	24:COM11	16:COM3
			-18.157	0.000	-0.272	-4.041	-0.209	-3.177
			18:COM5	-	18:COM5	34:CVOL3	18:COM5	26:COM13
11507	4726	+ve	0.000	18.019	0.212	0.000	0.053	49.501
			-	34:CVOL3	16:COM3	-	24:COM11	34:CVOL3
			-24.320	0.000	-0.040	-1.310	-0.134	0.000
			18:COM5	-	26:COM13	34:CVOL3	18:COM5	-
	4815	-ve	0.000	15.641	0.212	0.000	0.252	21.033
			-	34:CVOL3	16:COM3	-	16:COM3	20:COM7
			-24.320	0.000	-0.040	-1.310	-0.022	0.000
			18:COM5	-	26:COM13	34:CVOL3	26:COM13	-
11508	4728	+ve	4.772	46.070	0.870	9.289	1.134	82.436
			28:COM15	16:COM3	20:COM7	32:CVOL1	20:COM7	16:COM3
			-17.108	0.000	-0.956	0.000	-0.991	-21.782
			22:COM9	-	30:COM17	-	30:COM17	26:COM13
	4729	-ve	4.772	43.347	0.870	9.289	0.746	8.739
			28:COM15	16:COM3	20:COM7	32:CVOL1	20:COM7	24:COM11
			-17.108	0.000	-0.956	0.000	-0.772	-58.271
			22:COM9	-	30:COM17	-	30:COM17	18:COM5

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
11509	4723	+ve	0.914	15.889	0.000	0.000	0.079	37.181
			24:COM1	34:CVOL3	-	-	20:COM7	34:CVOL3
			-9.326	0.000	-0.068	-1.175	0.000	0.000
			18:COM5	-	18:COM5	22:COM9	-	-
	4818	-ve	0.914	13.405	0.000	0.000	0.001	10.495
			24:COM1	34:CVOL3	-	-	24:COM11	16:COM3
			-9.326	0.000	-0.068	-1.175	-0.053	0.000
			18:COM5	-	18:COM5	22:COM9	18:COM5	-
11510	4727	+ve	0.166	0.000	1.479	9.364	0.018	6.587
			28:COM1	-	20:COM7	16:COM3	28:COM1	16:COM3
			-1.159	-3.439	-0.147	0.000	-0.362	0.000
			22:COM9	22:COM9	30:COM1	-	22:COM9	-
	4724	-ve	0.166	0.000	1.479	9.364	0.109	7.586
			28:COM1	-	20:COM7	16:COM3	16:COM3	16:COM3
			-1.159	-3.866	-0.147	0.000	-0.035	0.000
			22:COM9	22:COM9	30:COM1	-	26:COM1	-
11511	4835	+ve	10.264	0.000	0.091	2.103	0.055	24.333
			24:COM1	-	16:COM3	16:COM3	24:COM11	16:COM3
			-13.818	-18.618	-0.047	0.000	-0.101	0.000
			18:COM5	34:CVOL3	26:COM1	-	18:COM5	-
	4854	-ve	10.264	0.000	0.091	2.103	0.080	60.216
			24:COM1	-	16:COM3	16:COM3	16:COM3	34:CVOL3
			-13.818	-22.241	-0.047	0.000	-0.038	0.000
			18:COM5	34:CVOL3	26:COM1	-	26:COM1	-
11512	4729	+ve	4.976	28.231	0.252	5.235	0.058	8.791
			28:COM1	16:COM3	20:COM7	16:COM3	28:COM1	24:COM1
			-17.287	0.000	-0.111	0.000	-0.224	-58.332
			22:COM9	-	30:COM1	-	22:COM9	18:COM5
	4730	-ve	4.976	25.508	0.252	5.235	0.408	0.000
			28:COM1	16:COM3	20:COM7	16:COM3	20:COM7	-
			-17.287	0.000	-0.111	0.000	-0.296	-80.770
			22:COM9	-	30:COM1	-	30:COM1	34:CVOL3
11513	4730	+ve	5.189	10.949	0.187	3.578	0.083	0.000
			28:COM1	16:COM3	28:COM1	16:COM3	20:COM7	-
			-17.231	-6.668	-0.204	-1.447	-0.094	-80.683
			22:COM9	26:COM1	22:COM9	26:COM1	30:COM1	34:CVOL3
	4731	-ve	5.189	8.226	0.187	3.578	0.375	0.000
			28:COM1	16:COM3	28:COM1	16:COM3	28:COM1	-
			-17.231	-8.710	-0.204	-1.447	-0.419	-83.399
			22:COM9	26:COM1	22:COM9	26:COM1	22:COM9	34:CVOL3
11514	4731	+ve	7.016	0.663	0.186	1.063	0.158	0.000
			24:COM1	24:COM11	28:COM1	35:CVOL4	35:CVOL4	-
			-18.629	-23.435	-0.321	-2.984	-0.052	-83.509
			18:COM5	18:COM5	22:COM9	32:CVOL1	30:COM1	34:CVOL3
	4732	-ve	7.016	0.000	0.186	1.063	0.404	1.899
			24:COM1	-	28:COM1	35:CVOL4	28:COM1	24:COM1
			-18.629	-26.158	-0.321	-2.984	-0.566	-62.364
			18:COM5	18:COM5	22:COM9	32:CVOL1	22:COM9	18:COM5

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
11515	4732	+ve	9.628	0.000	0.424	0.000	0.000	1.800
			24:COM1	-	20:COM7	-	-	24:COM1
			-20.346	-42.089	-0.105	-7.839	-0.223	-62.504
			18:COM5	18:COM5	30:COM1	32:CVOL1	32:CVOL1	18:COM5
	4733	-ve	9.628	0.000	0.424	0.000	0.762	69.699
			24:COM1	-	20:COM7	-	20:COM7	16:COM3
			-20.346	-44.812	-0.105	-7.839	-0.356	-25.923
			18:COM5	18:COM5	30:COM1	32:CVOL1	30:COM1	26:COM1
11516	4733	+ve	12.612	0.000	1.345	0.000	0.082	69.583
			24:COM1	-	20:COM7	-	28:COM1	16:COM3
			-21.261	-61.402	-0.167	-16.423	-1.170	-26.062
			18:COM5	18:COM5	30:COM1	34:CVOL3	22:COM9	26:COM1
	4686	-ve	12.612	0.000	1.345	0.000	1.629	193.044
			24:COM1	-	20:COM7	-	16:COM3	16:COM3
			-21.261	-64.125	-0.167	-16.423	-0.399	0.000
			18:COM5	18:COM5	30:COM1	34:CVOL3	26:COM1	-
11517	4734	+ve	22.455	46.043	0.153	4.949	0.373	82.897
			16:COM3	16:COM3	20:COM7	32:CVOL1	24:COM1	16:COM3
			-25.093	0.000	-0.406	-0.466	-0.068	-31.392
			26:COM1	-	30:COM1	35:CVOL4	18:COM5	26:COM1
	4735	-ve	22.455	43.312	0.153	4.949	0.337	10.363
			16:COM3	16:COM3	20:COM7	32:CVOL1	20:COM7	24:COM1
			-25.093	0.000	-0.406	-0.466	-0.531	-64.318
			26:COM1	-	30:COM1	35:CVOL4	30:COM1	18:COM5
11518	4735	+ve	24.455	27.692	0.216	1.302	0.303	10.518
			16:COM3	16:COM3	16:COM3	24:COM1	28:COM1	24:COM1
			-27.424	0.000	-0.065	-3.911	-0.474	-64.112
			26:COM1	-	26:COM1	35:CVOL4	22:COM9	18:COM5
	4736	-ve	24.455	24.962	0.216	1.302	0.313	0.000
			16:COM3	16:COM3	16:COM3	24:COM1	20:COM7	-
			-27.424	-1.446	-0.065	-3.911	-0.184	-79.430
			26:COM1	26:COM1	26:COM1	35:CVOL4	30:COM1	34:CVOL3
11519	4736	+ve	26.581	10.671	0.208	0.586	0.309	0.000
			16:COM3	16:COM3	16:COM3	24:COM1	28:COM1	-
			-29.539	-8.577	-0.106	-5.285	-0.424	-79.217
			26:COM1	26:COM1	26:COM1	18:COM5	22:COM9	34:CVOL3
	4737	-ve	26.581	8.415	0.208	0.586	0.252	0.000
			16:COM3	24:COM11	16:COM3	24:COM1	20:COM7	-
			-29.539	-11.100	-0.106	-5.285	-0.165	-78.510
			26:COM1	18:COM5	26:COM1	18:COM5	30:COM1	34:CVOL3
11520	4737	+ve	28.923	1.535	0.241	0.000	0.402	0.000
			16:COM3	24:COM11	24:COM11	-	16:COM3	-
			-31.511	-24.970	-0.232	-4.832	-0.408	-78.420
			26:COM1	18:COM5	18:COM5	18:COM5	26:COM1	34:CVOL3
	4738	-ve	28.923	0.000	0.241	0.000	0.229	8.563
			16:COM3	-	24:COM11	-	28:COM1	24:COM1
			-31.511	-27.701	-0.232	-4.832	-0.216	-61.358
			26:COM1	18:COM5	18:COM5	18:COM5	22:COM9	18:COM5

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
11521	4738	+ve	31.124	0.000	0.664	0.000	0.546	8.483
			16:COM3	-	24:COM11	-	16:COM3	24:COM1
			-33.202	-42.007	-0.441	-6.280	-0.686	-61.320
			26:COM1	18:COM5	18:COM5	32:CVOL1	26:COM1	18:COM5
	4739	-ve	31.124	0.000	0.664	0.000	0.626	79.002
			16:COM3	-	24:COM11	-	24:COM11	16:COM3
			-33.202	-44.738	-0.441	-6.280	-0.327	-30.663
			26:COM1	18:COM5	18:COM5	32:CVOL1	18:COM5	26:COM1
11522	4739	+ve	35.382	0.000	1.917	0.000	1.473	78.890
			16:COM3	-	20:COM7	-	28:COM15	16:COM3
			-35.486	-59.418	-1.540	-9.036	-1.929	-30.734
			26:COM1	18:COM5	30:COM17	32:CVOL1	22:COM9	26:COM1
	4687	-ve	35.382	0.000	1.917	0.000	1.868	198.787
			16:COM3	-	20:COM7	-	28:COM15	16:COM3
			-35.486	-62.148	-1.540	-9.036	-1.580	0.000
			26:COM1	18:COM5	30:COM17	32:CVOL1	22:COM9	-
11523	4740	+ve	12.718	7.144	1.837	4.183	0.277	7.212
			28:COM15	20:COM7	16:COM3	16:COM3	24:COM11	20:COM7
			-59.169	-1.092	-0.077	0.000	-1.444	0.000
			22:COM9	30:COM17	26:COM1	-	18:COM5	-
	4690	-ve	12.718	4.505	1.837	4.183	2.074	5.372
			28:COM15	20:COM7	16:COM3	16:COM3	16:COM3	20:COM7
			-59.169	-3.072	-0.077	0.000	0.000	-4.109
			22:COM9	30:COM17	26:COM1	-	-	30:COM17
11525	4742	+ve	66.108	90.088	6.639	3.804	0.000	69.675
			28:COM15	28:COM15	20:COM7	16:COM3	-	20:COM7
			-90.780	-164.163	0.000	-1.051	-2.291	-38.910
			22:COM9	22:COM9	-	26:COM1	22:COM9	30:COM17
	5735	-ve	66.108	89.331	6.639	3.804	2.576	189.877
			28:COM15	28:COM15	20:COM7	16:COM3	20:COM7	20:COM7
			-90.780	-165.173	0.000	-1.051	0.000	-104.393
			22:COM9	22:COM9	-	26:COM1	-	30:COM17
11526	4743	+ve	30.110	26.246	2.552	0.000	0.525	49.998
			24:COM1	28:COM15	20:COM7	-	28:COM15	28:COM15
			-47.670	-56.416	-0.746	-8.492	-2.333	-79.769
			18:COM5	22:COM9	30:COM17	22:COM9	22:COM9	22:COM9
	4685	-ve	30.110	24.178	2.552	0.000	2.759	156.361
			24:COM1	28:COM15	20:COM7	-	20:COM7	20:COM7
			-47.670	-59.174	-0.746	-8.492	-0.968	-121.202
			18:COM5	22:COM9	30:COM17	22:COM9	30:COM17	30:COM17
11527	4744	+ve	28.118	35.965	0.896	0.000	0.204	0.000
			24:COM1	28:COM15	20:COM7	-	28:COM15	-
			-37.394	-38.077	-0.298	-5.140	-0.819	-36.824
			18:COM5	22:COM9	30:COM17	22:COM9	22:COM9	22:COM9
	4743	-ve	28.118	33.897	0.896	0.000	0.974	50.743
			24:COM1	28:COM15	20:COM7	-	20:COM7	28:COM15
			-37.394	-40.835	-0.298	-5.140	-0.396	-80.627
			18:COM5	22:COM9	30:COM17	22:COM9	30:COM17	22:COM9

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
11534	4751	+ve	5.813	42.406	2.177	0.000	0.000	40.192
			24:COM1	16:COM3	16:COM3	-	-	16:COM3
			-22.654	-30.183	0.000	-10.151	-1.667	-29.102
			18:COM5	26:COM1	-	34:CVOL	22:COM9	26:COM1
	4682	-ve	5.813	40.630	2.177	0.000	1.271	10.579
			24:COM1	16:COM3	16:COM3	-	16:COM3	24:COM1
			-22.654	-31.515	0.000	-10.151	-0.307	-13.188
			18:COM5	26:COM1	-	34:CVOL	26:COM1	18:COM5
11535	4752	+ve	43.617	68.499	0.109	0.000	0.318	119.752
			24:COM1	24:COM1	24:COM1	-	24:COM1	16:COM3
			-61.290	-115.105	-0.639	-18.350	-0.213	-105.128
			18:COM5	18:COM5	18:COM5	34:CVOL	18:COM5	26:COM1
	5383	-ve	43.617	67.565	0.109	0.000	0.366	223.902
			24:COM1	24:COM1	24:COM1	-	24:COM1	16:COM3
			-61.290	-116.350	-0.639	-18.350	-0.738	-166.353
			18:COM5	18:COM5	18:COM5	34:CVOL	18:COM5	26:COM1
11536	4753	+ve	28.372	74.577	0.000	5.219	0.606	39.703
			24:COM1	24:COM1	-	16:COM3	20:COM7	24:COM1
			-43.637	-90.629	-0.502	-1.207	-0.009	-62.473
			18:COM5	18:COM5	18:COM5	26:COM1	30:COM1	18:COM5
	4752	-ve	28.372	72.528	0.000	5.219	0.004	119.209
			24:COM1	24:COM1	-	16:COM3	28:COM1	16:COM3
			-43.637	-93.362	-0.502	-1.207	-0.585	-105.557
			18:COM5	18:COM5	18:COM5	26:COM1	22:COM9	26:COM1
11537	4754	+ve	25.396	5.025	1.570	0.547	1.134	2.225
			24:COM1	16:COM3	16:COM3	28:COM1	24:COM1	24:COM1
			-34.219	-1.647	-1.143	-2.749	-2.046	-2.480
			18:COM5	26:COM1	26:COM1	22:COM9	18:COM5	18:COM5
	4683	-ve	25.396	2.328	1.570	0.547	1.182	3.253
			24:COM1	24:COM1	16:COM3	28:COM1	24:COM1	24:COM1
			-34.219	-3.883	-1.143	-2.749	-1.225	-5.364
			18:COM5	18:COM5	26:COM1	22:COM9	18:COM5	18:COM5
11538	4755	+ve	0.279	3.538	0.000	3.028	1.890	2.472
			24:COM1	16:COM3	-	20:COM7	20:COM7	16:COM3
			-15.471	-0.112	-1.695	0.000	0.000	-0.224
			18:COM5	26:COM1	18:COM5	-	-	26:COM1
	4754	-ve	0.279	0.889	0.000	3.028	0.000	2.210
			24:COM1	24:COM1	-	20:COM7	-	24:COM1
			-15.471	-2.237	-1.695	0.000	-1.741	-2.010
			18:COM5	18:COM5	18:COM5	-	18:COM5	18:COM5
11539	4760	+ve	8.047	44.778	0.000	4.198	1.014	50.330
			16:COM3	16:COM3	-	20:COM7	20:COM7	16:COM3
			-9.318	-4.767	-0.977	-0.229	-0.068	-22.626
			26:COM1	26:COM1	22:COM9	30:COM1	30:COM1	26:COM1
	4761	-ve	8.047	42.182	0.000	4.198	0.050	0.000
			16:COM3	16:COM3	-	20:COM7	24:COM1	-
			-9.318	-6.714	-0.977	-0.229	-0.979	-35.200
			26:COM1	26:COM1	22:COM9	30:COM1	18:COM5	34:CVOL

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
11540	4761	+ve	10.041	27.483	0.112	2.673	0.115	0.000
			24:COM1	16:COM3	28:COM1	20:COM7	20:COM7	-
			-16.944	-14.708	-0.195	-1.955	-0.099	-35.375
			18:COM5	26:COM1	22:COM9	30:COM1	30:COM1	34:CVOL
	4917	-ve	10.041	24.915	0.112	2.673	0.145	16.939
			24:COM1	16:COM3	28:COM1	20:COM7	28:COM1	24:COM1
			-16.944	-16.634	-0.195	-1.955	-0.283	-79.772
			18:COM5	26:COM1	22:COM9	30:COM1	22:COM9	18:COM5
11541	4776	+ve	0.508	7.332	0.001	0.000	0.017	5.970
			35:CVOL	35:CVOL	28:COM1	-	20:COM7	35:CVOL
			-2.267	0.000	-0.006	-0.097	-0.003	0.000
			32:CVOL1	-	22:COM9	34:CVOL	30:COM1	-
	4728	-ve	0.508	0.000	0.001	0.000	0.005	10.511
			35:CVOL	-	28:COM1	-	28:COM1	34:CVOL
			-2.267	-8.757	-0.006	-0.097	-0.018	0.000
			32:CVOL1	34:CVOL	22:COM9	34:CVOL	22:COM9	-
11542	4775	+ve	2.744	7.170	0.003	0.000	0.022	5.174
			35:CVOL	35:CVOL	28:COM1	-	20:COM7	35:CVOL
			-2.195	0.000	-0.007	-0.097	-0.009	0.000
			32:CVOL1	-	22:COM9	34:CVOL	30:COM1	-
	4729	-ve	2.744	0.000	0.003	0.000	0.010	10.975
			35:CVOL	-	28:COM1	-	28:COM1	34:CVOL
			-2.195	-8.964	-0.007	-0.097	-0.022	0.000
			32:CVOL1	34:CVOL	22:COM9	34:CVOL	22:COM9	-
11543	4774	+ve	3.785	7.131	0.003	0.006	0.015	4.899
			35:CVOL	35:CVOL	28:COM1	28:COM1	20:COM7	35:CVOL
			-2.244	0.000	-0.005	-0.056	-0.010	0.000
			32:CVOL1	-	22:COM9	22:COM9	30:COM1	-
	4730	-ve	3.785	0.000	0.003	0.006	0.010	11.057
			35:CVOL	-	28:COM1	28:COM1	28:COM1	34:CVOL
			-2.244	-9.018	-0.005	-0.056	-0.015	0.000
			32:CVOL1	34:CVOL	22:COM9	22:COM9	22:COM9	-
11544	4773	+ve	3.303	7.064	0.004	0.058	0.007	4.774
			35:CVOL	35:CVOL	20:COM7	20:COM7	28:COM1	35:CVOL
			-2.523	0.000	-0.002	-0.008	-0.013	0.000
			32:CVOL1	-	30:COM1	30:COM1	22:COM9	-
	4731	-ve	3.303	0.000	0.004	0.058	0.012	11.335
			35:CVOL	-	20:COM7	20:COM7	16:COM3	34:CVOL
			-2.523	-9.084	-0.002	-0.008	-0.007	0.000
			32:CVOL1	34:CVOL	30:COM1	30:COM1	26:COM1	-
11545	4772	+ve	1.360	6.974	0.005	0.102	0.002	4.807
			20:COM7	35:CVOL	16:COM3	20:COM7	24:COM1	35:CVOL
			-3.071	0.000	-0.001	0.000	-0.016	0.000
			32:CVOL1	-	26:COM1	-	18:COM5	-
	4732	-ve	1.360	0.000	0.005	0.102	0.015	11.781
			20:COM7	-	16:COM3	20:COM7	16:COM3	34:CVOL
			-3.071	-9.155	-0.001	0.000	-0.002	0.000
			32:CVOL1	34:CVOL	26:COM1	-	26:COM1	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
11546	4771	+ve	0.000	7.077	0.005	0.095	0.000	5.492
			-	35:CVOL4	16:COM3	34:CVOL3	-	35:CVOL4
			-3.902	0.000	0.000	0.000	-0.015	0.000
			18:COM5	-	-	-	18:COM5	-
	4733	-ve	0.000	0.000	0.005	0.095	0.014	11.578
			-	-	16:COM3	34:CVOL3	16:COM3	34:CVOL3
			-3.902	-9.008	0.000	0.000	0.000	0.000
			18:COM5	34:CVOL3	-	-	-	-
11547	4782	+ve	0.000	7.143	0.000	0.000	0.009	5.644
			-	35:CVOL4	-	-	20:COM7	35:CVOL4
			-3.532	0.000	-0.003	-0.073	0.000	0.000
			32:CVOL1	-	22:COM9	34:CVOL3	-	-
	4734	-ve	0.000	0.000	0.000	0.000	0.000	11.258
			-	-	-	-	-	34:CVOL3
			-3.532	-8.925	-0.003	-0.073	-0.009	0.000
			32:CVOL1	34:CVOL3	22:COM9	34:CVOL3	22:COM9	-
11548	4781	+ve	1.869	7.066	0.000	0.000	0.009	4.941
			35:CVOL4	35:CVOL4	-	-	20:COM7	35:CVOL4
			-2.550	0.000	-0.003	-0.075	0.000	0.000
			32:CVOL1	-	22:COM9	22:COM9	-	-
	4735	-ve	1.869	0.000	0.000	0.000	0.000	11.256
			35:CVOL4	-	-	-	-	34:CVOL3
			-2.550	-9.041	-0.003	-0.075	-0.009	0.000
			32:CVOL1	34:CVOL3	22:COM9	22:COM9	22:COM9	-
11549	4780	+ve	4.378	7.178	0.001	0.016	0.007	4.880
			35:CVOL4	35:CVOL4	28:COM15	28:COM15	20:COM7	35:CVOL4
			-1.570	0.000	-0.002	-0.042	-0.004	0.000
			32:CVOL1	-	22:COM9	22:COM9	30:COM17	-
	4736	-ve	4.378	0.000	0.001	0.016	0.004	10.629
			35:CVOL4	-	28:COM15	28:COM15	28:COM15	34:CVOL3
			-1.570	-8.946	-0.002	-0.042	-0.007	0.000
			32:CVOL1	34:CVOL3	22:COM9	22:COM9	22:COM9	-
11550	4779	+ve	5.146	7.269	0.004	0.066	0.005	5.020
			35:CVOL4	35:CVOL4	20:COM7	20:COM7	28:COM15	35:CVOL4
			-1.339	0.000	-0.002	-0.009	-0.011	0.000
			30:COM17	-	30:COM17	30:COM17	22:COM9	-
	4737	-ve	5.146	0.000	0.004	0.066	0.012	10.228
			35:CVOL4	-	20:COM7	20:COM7	20:COM7	34:CVOL3
			-1.339	-8.859	-0.002	-0.009	-0.006	0.000
			30:COM17	34:CVOL3	30:COM17	30:COM17	30:COM17	-
11551	4778	+ve	3.914	7.306	0.006	0.102	0.004	5.318
			35:CVOL4	35:CVOL4	20:COM7	20:COM7	28:COM15	35:CVOL4
			-2.099	0.000	-0.002	0.000	-0.017	0.000
			30:COM17	-	30:COM17	-	22:COM9	-
	4738	-ve	3.914	0.000	0.006	0.102	0.017	10.201
			35:CVOL4	-	20:COM7	20:COM7	20:COM7	34:CVOL3
			-2.099	-8.810	-0.002	0.000	-0.005	0.000
			30:COM17	34:CVOL3	30:COM17	-	30:COM17	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
11552	4777	+ve	1.729	7.402	0.005	0.090	0.002	6.058
			16:COM3	35:CVOL4	20:COM7	20:COM7	28:COM15	35:CVOL4
			-2.813	0.000	-0.001	0.000	-0.014	0.000
			26:COM13	-	30:COM17	-	22:COM9	-
	4739	-ve	1.729	0.000	0.005	0.090	0.016	10.125
			16:COM3	-	20:COM7	20:COM7	20:COM7	34:CVOL3
			-2.813	-8.677	-0.001	0.000	-0.003	0.000
			26:COM13	34:CVOL3	30:COM17	-	30:COM17	-
11553	4768	+ve	0.000	9.186	0.003	0.233	0.059	11.262
			-	34:CVOL3	28:COM15	20:COM7	20:COM7	34:CVOL3
			-7.795	0.000	-0.018	-0.075	-0.006	0.000
			22:COM9	-	22:COM9	30:COM17	30:COM17	-
	4740	-ve	0.000	0.000	0.003	0.233	0.013	6.484
			-	-	28:COM15	20:COM7	28:COM15	35:CVOL4
			-7.795	-7.505	-0.018	-0.075	-0.042	0.000
			22:COM9	35:CVOL4	22:COM9	30:COM17	22:COM9	-
11554	4767	+ve	0.061	7.803	0.011	0.401	0.031	7.740
			28:COM15	34:CVOL3	20:COM7	20:COM7	28:COM15	20:COM7
			-9.188	0.000	-0.010	-0.073	-0.028	0.000
			22:COM9	-	30:COM17	30:COM17	22:COM9	-
	4690	-ve	0.061	0.000	0.011	0.401	0.034	11.265
			28:COM15	-	20:COM7	20:COM7	20:COM7	20:COM7
			-9.188	-8.857	-0.010	-0.073	-0.025	0.000
			22:COM9	35:CVOL4	30:COM17	30:COM17	30:COM17	-
11555	4766	+ve	0.827	6.834	0.009	0.359	0.025	7.004
			28:COM15	20:COM7	28:COM15	20:COM7	20:COM7	20:COM7
			-11.214	0.000	-0.008	-0.113	-0.022	-3.266
			22:COM9	-	22:COM9	30:COM17	30:COM17	30:COM17
	4742	-ve	0.827	0.000	0.009	0.359	0.027	18.412
			28:COM15	-	28:COM15	20:COM7	20:COM7	20:COM7
			-11.214	-10.320	-0.008	-0.113	-0.023	-1.101
			22:COM9	34:CVOL3	22:COM9	30:COM17	30:COM17	30:COM17
11556	4765	+ve	0.895	6.871	0.000	0.044	0.028	7.196
			28:COM15	20:COM7	-	24:COM17	16:COM3	20:COM7
			-12.884	-0.824	-0.010	-0.118	0.000	-5.592
			22:COM9	30:COM17	18:COM5	18:COM5	-	30:COM17
	4741	-ve	0.895	0.000	0.000	0.044	0.000	21.972
			28:COM15	-	-	24:COM17	24:COM11	20:COM7
			-12.884	-11.322	-0.010	-0.118	-0.026	-1.875
			22:COM9	22:COM9	18:COM5	18:COM5	18:COM5	30:COM17
11557	4764	+ve	0.000	6.957	0.003	0.114	0.044	7.463
			-	20:COM7	28:COM15	28:COM15	20:COM7	20:COM7
			-10.787	0.000	-0.016	-0.330	-0.008	-2.774
			22:COM9	-	22:COM9	22:COM9	30:COM17	30:COM17
	4744	-ve	0.000	0.000	0.003	0.114	0.008	17.644
			-	-	28:COM15	28:COM15	28:COM15	20:COM7
			-10.787	-10.316	-0.016	-0.330	-0.047	-0.352
			22:COM9	34:CVOL3	22:COM9	22:COM9	22:COM9	30:COM17

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
11558	4763	+ve	0.000	8.184	0.003	0.103	0.037	8.077
			-	35:CVOL4	28:COM15	28:COM15	20:COM7	20:COM7
			-7.778	0.000	-0.013	-0.294	-0.009	0.000
			22:COM9	-	22:COM9	22:COM9	30:COM17	-
	4743	-ve	0.000	0.000	0.003	0.103	0.009	11.734
			-	-	28:COM15	28:COM15	28:COM15	20:COM7
			-7.778	-9.344	-0.013	-0.294	-0.041	0.000
			22:COM9	34:CVOL3	22:COM9	22:COM9	22:COM9	-
11559	4740	+ve	1.010	11.145	0.035	0.000	0.001	18.003
			24:COM17	34:CVOL3	20:COM7	-	28:COM15	34:CVOL3
			-1.613	0.000	-0.000	-0.265	-0.070	0.000
			18:COM5	-	30:COM17	22:COM9	22:COM9	-
	4815	-ve	1.010	0.000	0.035	0.000	0.091	2.225
			24:COM17	-	20:COM7	-	20:COM7	34:CVOL3
			-1.613	-4.762	-0.000	-0.265	-0.000	0.000
			18:COM5	35:CVOL4	30:COM17	22:COM9	30:COM17	-
11560	4690	+ve	1.544	13.168	0.037	0.037	0.000	25.235
			20:COM7	34:CVOL3	20:COM7	28:COM15	-	34:CVOL3
			-0.763	0.000	0.000	-0.490	-0.076	0.000
			30:COM17	-	-	22:COM9	22:COM9	-
	4814	-ve	1.544	0.000	0.037	0.037	0.095	0.502
			20:COM7	-	20:COM7	28:COM15	20:COM7	20:COM7
			-0.763	-3.194	0.000	-0.490	0.000	-0.309
			30:COM17	35:CVOL4	-	22:COM9	-	30:COM17
11561	4742	+ve	2.122	15.037	0.028	0.183	0.000	34.452
			20:COM7	34:CVOL3	34:CVOL3	28:COM15	-	20:COM7
			-1.094	0.000	0.000	-0.483	-0.058	0.000
			30:COM17	-	-	22:COM9	34:CVOL3	-
	4813	-ve	2.122	2.068	0.028	0.183	0.071	0.105
			20:COM7	28:COM15	34:CVOL3	28:COM15	34:CVOL3	28:COM15
			-1.094	-2.817	0.000	-0.483	0.000	-1.474
			30:COM17	22:COM9	-	22:COM9	-	22:COM9
11562	4741	+ve	1.056	14.055	0.019	0.300	0.002	32.056
			24:COM17	34:CVOL3	20:COM7	20:COM7	28:COM15	20:COM7
			-1.831	0.000	-0.001	-0.051	-0.040	0.000
			18:COM5	-	30:COM17	30:COM17	22:COM9	-
	4821	-ve	1.056	1.872	0.019	0.300	0.047	0.632
			24:COM17	28:COM15	20:COM7	20:COM7	20:COM7	28:COM15
			-1.831	-3.839	-0.001	-0.051	-0.003	-1.553
			18:COM5	22:COM9	30:COM17	30:COM17	30:COM17	22:COM9
11563	4744	+ve	0.975	12.225	0.011	0.594	0.009	21.149
			24:COM17	34:CVOL3	20:COM7	20:COM7	28:COM15	34:CVOL3
			-1.958	0.000	-0.004	-0.159	-0.025	0.000
			18:COM5	-	30:COM17	30:COM17	22:COM9	-
	4820	-ve	0.975	0.000	0.011	0.594	0.026	0.211
			24:COM17	-	20:COM7	20:COM7	20:COM7	20:COM7
			-1.958	-3.610	-0.004	-0.159	-0.009	-0.060
			18:COM5	22:COM9	30:COM17	30:COM17	30:COM17	30:COM17

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
11564	4743	+ve	0.928	10.535	0.010	0.410	0.012	15.801
			24:COM1	34:CVOL3	20:COM7	20:COM7	28:COM1	34:CVOL3
			-2.278	0.000	-0.005	-0.094	-0.021	0.000
			18:COM5	-	30:COM1	30:COM1	22:COM9	-
	4819	-ve	0.928	0.000	0.010	0.410	0.020	1.869
			24:COM1	-	20:COM7	20:COM7	20:COM7	20:COM7
			-2.278	-4.323	-0.005	-0.094	-0.011	0.000
			18:COM5	35:CVOL4	30:COM1	30:COM1	30:COM1	-
11565	4822	+ve	0.000	0.652	0.000	0.073	0.147	0.000
			-	35:CVOL4	-	28:COM1	34:CVOL3	-
			-12.854	-0.374	-0.095	-0.181	0.000	-1.746
			34:CVOL3	30:COM1	34:CVOL3	22:COM9	-	34:CVOL3
	4768	-ve	0.000	0.000	0.000	0.073	0.000	10.244
			-	-	-	28:COM1	-	34:CVOL3
			-12.854	-8.404	-0.095	-0.181	-0.144	0.000
			34:CVOL3	34:CVOL3	34:CVOL3	22:COM9	34:CVOL3	-
11566	4823	+ve	0.000	1.841	0.000	0.025	0.089	0.000
			-	35:CVOL4	-	28:COM1	20:COM7	-
			-5.971	0.000	-0.057	-0.171	0.000	-0.900
			34:CVOL3	-	22:COM9	22:COM9	-	22:COM9
	4767	-ve	0.000	0.000	0.000	0.025	0.000	7.453
			-	-	-	28:COM1	-	34:CVOL3
			-5.971	-7.171	-0.057	-0.171	-0.086	0.000
			34:CVOL3	34:CVOL3	22:COM9	22:COM9	22:COM9	-
11567	4824	+ve	0.000	2.865	0.000	0.000	0.052	0.094
			-	35:CVOL4	-	-	34:CVOL3	34:CVOL3
			-2.906	0.000	-0.033	-0.081	0.000	-0.200
			22:COM9	-	34:CVOL3	34:CVOL3	-	33:CVOL2
	4766	-ve	0.000	0.000	0.000	0.000	0.000	5.037
			-	-	-	-	-	34:CVOL3
			-2.906	-6.096	-0.033	-0.081	-0.050	0.000
			22:COM9	34:CVOL3	34:CVOL3	34:CVOL3	34:CVOL3	-
11568	4825	+ve	2.093	3.187	0.006	0.058	0.033	0.350
			20:COM7	34:CVOL3	28:COM1	28:COM1	20:COM7	20:COM7
			-3.399	0.000	-0.021	-0.078	-0.007	-0.195
			30:COM1	-	22:COM9	22:COM9	30:COM1	30:COM1
	4765	-ve	2.093	0.000	0.006	0.058	0.009	4.744
			20:COM7	-	28:COM1	28:COM1	28:COM1	20:COM7
			-3.399	-5.815	-0.021	-0.078	-0.032	0.000
			30:COM1	35:CVOL4	22:COM9	22:COM9	22:COM9	-
11569	4826	+ve	1.656	2.731	0.015	0.146	0.022	0.326
			28:COM1	34:CVOL3	20:COM7	20:COM7	28:COM1	20:COM7
			-5.172	0.000	-0.014	-0.105	-0.022	-0.576
			22:COM9	-	30:COM1	30:COM1	22:COM9	30:COM1
	4764	-ve	1.656	0.000	0.015	0.146	0.024	6.018
			28:COM1	-	20:COM7	20:COM7	20:COM7	20:COM7
			-5.172	-6.319	-0.014	-0.105	-0.022	0.000
			22:COM9	35:CVOL4	30:COM1	30:COM1	30:COM1	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
11570	4827	+ve	0.000	2.160	0.017	0.133	0.015	0.382
			-	20:COM7	16:COM3	20:COM7	24:COM11	28:COM15
			-8.231	-0.304	-0.010	-0.072	-0.026	-1.211
			22:COM9	30:COM17	26:COM13	30:COM17	18:COM5	22:COM9
	4763	-ve	0.000	0.000	0.017	0.133	0.027	7.696
			-	-	16:COM3	20:COM7	16:COM3	20:COM7
			-8.231	-7.137	-0.010	-0.072	-0.015	0.000
			22:COM9	35:CVOL4	26:COM13	30:COM17	26:COM13	-
11571	4735	+ve	0.541	9.112	0.002	0.318	0.003	15.877
			24:COM17	34:CVOL3	28:COM15	35:CVOL4	20:COM7	34:CVOL3
			-0.955	0.000	-0.002	0.000	-0.003	0.000
			18:COM5	-	22:COM9	-	30:COM17	-
	4811	-ve	0.541	0.000	0.002	0.318	0.004	0.514
			24:COM17	-	28:COM15	35:CVOL4	28:COM15	16:COM3
			-0.955	-2.164	-0.002	0.000	-0.004	-0.076
			18:COM5	35:CVOL4	22:COM9	-	22:COM9	26:COM13
11572	4736	+ve	0.891	8.143	0.003	0.271	0.006	11.752
			16:COM3	34:CVOL3	28:COM15	16:COM3	20:COM7	34:CVOL3
			-0.898	0.000	-0.003	-0.031	-0.005	0.000
			26:COM13	-	22:COM9	26:COM13	30:COM17	-
	4832	-ve	0.891	0.000	0.003	0.271	0.006	0.376
			16:COM3	-	28:COM15	16:COM3	28:COM15	35:CVOL4
			-0.898	-3.303	-0.003	-0.031	-0.007	-0.030
			26:COM13	35:CVOL4	22:COM9	26:COM13	22:COM9	30:COM17
11573	4737	+ve	1.104	7.685	0.004	0.212	0.009	9.898
			16:COM3	34:CVOL3	28:COM15	16:COM3	20:COM7	34:CVOL3
			-1.039	0.000	-0.005	-0.040	-0.008	0.000
			26:COM13	-	22:COM9	26:COM13	30:COM17	-
	4833	-ve	1.104	0.000	0.004	0.212	0.009	0.410
			16:COM3	-	28:COM15	16:COM3	28:COM15	35:CVOL4
			-1.039	-3.766	-0.005	-0.040	-0.011	-0.007
			26:COM13	35:CVOL4	22:COM9	26:COM13	22:COM9	26:COM13
11574	4738	+ve	1.170	7.653	0.006	0.125	0.013	10.101
			24:COM17	34:CVOL3	28:COM15	32:CVOL1	20:COM7	16:COM3
			-1.352	0.000	-0.007	-0.039	-0.011	0.000
			18:COM5	-	22:COM9	18:COM5	30:COM17	-
	4834	-ve	1.170	0.000	0.006	0.125	0.013	0.563
			24:COM17	-	28:COM15	32:CVOL1	28:COM15	16:COM3
			-1.352	-3.630	-0.007	-0.039	-0.015	-0.063
			18:COM5	35:CVOL4	22:COM9	18:COM5	22:COM9	26:COM13
11575	4739	+ve	1.232	7.838	0.007	0.066	0.009	12.539
			24:COM17	34:CVOL3	20:COM7	32:CVOL1	28:COM15	20:COM7
			-2.301	0.000	-0.005	-0.163	-0.011	0.000
			18:COM5	-	30:COM17	35:CVOL4	22:COM9	-
	4835	-ve	1.232	0.000	0.007	0.066	0.016	1.921
			24:COM17	-	20:COM7	32:CVOL1	20:COM7	16:COM3
			-2.301	-3.292	-0.005	-0.163	-0.014	0.000
			18:COM5	18:COM5	30:COM17	35:CVOL4	30:COM17	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
11576	4728	+ve	1.084	8.897	0.008	0.000	0.017	14.496
			28:COM15	34:CVOL3	28:COM15	-	20:COM7	34:CVOL3
			-1.505	0.000	-0.009	-0.332	-0.013	0.000
			22:COM9	-	22:COM9	32:CVOL1	30:COM17	-
	4810	-ve	1.084	0.000	0.008	0.000	0.020	0.338
			28:COM15	-	28:COM15	-	28:COM15	24:COM17
			-1.505	-2.388	-0.009	-0.332	-0.021	-0.390
			22:COM9	18:COM5	22:COM9	32:CVOL1	22:COM9	18:COM5
11577	4729	+ve	0.599	8.872	0.011	0.000	0.023	14.249
			20:COM7	34:CVOL3	28:COM15	-	20:COM7	34:CVOL3
			-0.338	0.000	-0.012	-0.183	-0.022	0.000
			30:COM17	-	22:COM9	32:CVOL1	30:COM17	-
	4809	-ve	0.599	0.000	0.011	0.000	0.026	0.014
			20:COM7	-	28:COM15	-	28:COM15	24:COM17
			-0.338	-2.660	-0.012	-0.183	-0.026	-0.309
			30:COM17	35:CVOL4	22:COM9	32:CVOL1	22:COM9	18:COM5
11578	4730	+ve	0.644	8.617	0.010	0.054	0.019	13.414
			20:COM7	34:CVOL3	28:COM15	24:COM17	20:COM7	34:CVOL3
			-0.214	0.000	-0.010	-0.159	-0.018	0.000
			30:COM17	-	22:COM9	18:COM5	30:COM17	-
	4808	-ve	0.644	0.000	0.010	0.054	0.022	0.192
			20:COM7	-	28:COM15	24:COM17	28:COM15	35:CVOL4
			-0.214	-3.039	-0.010	-0.159	-0.023	-0.197
			30:COM17	35:CVOL4	22:COM9	18:COM5	22:COM9	32:CVOL1
11579	4734	+ve	0.000	10.023	0.001	0.293	0.005	22.327
			-	34:CVOL3	28:COM15	35:CVOL4	20:COM7	34:CVOL3
			-1.452	0.000	-0.003	-0.009	-0.002	0.000
			18:COM5	-	22:COM9	30:COM17	30:COM17	-
	4812	-ve	0.000	0.295	0.001	0.293	0.003	3.028
			-	24:COM11	28:COM15	35:CVOL4	28:COM15	34:CVOL3
			-1.452	-1.513	-0.003	-0.009	-0.008	0.000
			18:COM5	18:COM5	22:COM9	30:COM17	22:COM9	-
11580	4788	+ve	0.059	6.433	0.015	0.380	0.023	6.300
			24:COM17	35:CVOL4	16:COM3	16:COM3	24:COM11	20:COM7
			-6.770	0.000	-0.008	-0.159	-0.043	-1.546
			18:COM5	-	26:COM13	26:COM13	18:COM5	30:COM17
	4753	-ve	0.059	0.000	0.015	0.380	0.047	14.495
			24:COM17	-	16:COM3	16:COM3	16:COM3	16:COM3
			-6.770	-9.312	-0.008	-0.159	-0.024	0.000
			18:COM5	34:CVOL3	26:COM13	26:COM13	26:COM13	-
11581	4787	+ve	2.051	6.141	0.015	0.279	0.019	5.732
			24:COM17	16:COM3	16:COM3	16:COM3	24:COM11	16:COM3
			-9.012	-0.486	-0.006	-0.050	-0.042	-5.732
			18:COM5	26:COM13	26:COM13	26:COM13	18:COM5	26:COM13
	4752	-ve	2.051	0.000	0.015	0.279	0.043	20.811
			24:COM17	-	16:COM3	16:COM3	16:COM3	16:COM3
			-9.012	-10.715	-0.006	-0.050	-0.019	-0.255
			18:COM5	18:COM5	26:COM13	26:COM13	26:COM13	26:COM13

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
11582	4786	+ve	2.887	5.308	0.003	0.174	0.008	3.554
			24:COM1	16:COM3	20:COM7	16:COM3	28:COM1	24:COM1
			-6.903	-0.311	-0.003	-0.123	-0.008	-5.438
			18:COM5	26:COM1	30:COM1	26:COM1	22:COM9	18:COM5
	4751	-ve	2.887	0.000	0.003	0.174	0.007	19.856
			24:COM1	-	20:COM7	16:COM3	20:COM7	16:COM3
			-6.903	-10.611	-0.003	-0.123	-0.008	0.000
			18:COM5	34:CVOL	30:COM1	26:COM1	30:COM1	-
11583	4785	+ve	2.122	4.677	0.002	0.113	0.018	1.630
			24:COM1	16:COM3	24:COM1	24:COM1	16:COM3	24:COM1
			-6.248	0.000	-0.007	-0.217	-0.004	-2.889
			18:COM5	-	18:COM5	18:COM5	26:COM1	18:COM5
	4755	-ve	2.122	0.000	0.002	0.113	0.005	16.299
			24:COM1	-	24:COM1	24:COM1	24:COM1	16:COM3
			-6.248	-10.216	-0.007	-0.217	-0.019	0.000
			18:COM5	34:CVOL	18:COM5	18:COM5	18:COM5	-
11584	4784	+ve	1.506	5.235	0.002	0.048	0.030	1.529
			24:COM1	35:CVOL	24:COM1	24:COM1	16:COM3	16:COM3
			-4.401	0.000	-0.011	-0.274	-0.005	-0.413
			18:COM5	-	18:COM5	18:COM5	26:COM1	26:COM1
	4754	-ve	1.506	0.000	0.002	0.048	0.005	13.552
			24:COM1	-	24:COM1	24:COM1	24:COM1	34:CVOL
			-4.401	-9.590	-0.011	-0.274	-0.030	0.000
			18:COM5	34:CVOL	18:COM5	18:COM5	18:COM5	-
11585	4783	+ve	0.000	6.384	0.000	0.019	0.031	4.368
			-	35:CVOL	-	24:COM1	20:COM7	35:CVOL
			-2.647	0.000	-0.011	-0.247	-0.000	0.000
			22:COM9	-	22:COM9	18:COM5	30:COM1	-
	4683	-ve	0.000	0.000	0.000	0.019	0.000	10.245
			-	-	-	24:COM1	-	34:CVOL
			-2.647	-8.440	-0.011	-0.247	-0.031	0.000
			22:COM9	34:CVOL	22:COM9	18:COM5	22:COM9	-
11586	4829	+ve	1.378	1.853	0.035	0.051	0.019	0.423
			16:COM3	16:COM3	20:COM7	20:COM7	28:COM1	16:COM3
			-0.335	-0.055	-0.031	-0.049	-0.024	-0.257
			26:COM1	26:COM1	30:COM1	30:COM1	22:COM9	26:COM1
	4785	-ve	1.378	0.000	0.035	0.051	0.020	0.594
			16:COM3	-	20:COM7	20:COM7	20:COM7	24:COM1
			-0.335	-1.788	-0.031	-0.049	-0.020	-0.228
			26:COM1	18:COM5	30:COM1	30:COM1	30:COM1	18:COM5
11587	4830	+ve	0.232	1.472	0.091	0.099	0.029	0.249
			24:COM1	16:COM3	16:COM3	16:COM3	24:COM1	16:COM3
			-1.802	-0.722	-0.054	-0.077	-0.056	-0.367
			18:COM5	26:COM1	26:COM1	26:COM1	18:COM5	26:COM1
	4784	-ve	0.232	0.000	0.091	0.099	0.058	1.570
			24:COM1	-	16:COM3	16:COM3	16:COM3	16:COM3
			-1.802	-2.840	-0.054	-0.077	-0.039	-0.178
			18:COM5	18:COM5	26:COM1	26:COM1	26:COM1	26:COM1

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
11588	4831	+ve	0.000	0.618	0.081	0.154	0.040	0.198
			-	24:COM11	16:COM3	16:COM3	24:COM11	24:COM1
			-4.316	-2.303	-0.061	-0.115	-0.055	-1.070
			18:COM5	18:COM5	26:COM1	26:COM1	18:COM5	18:COM5
	4783	-ve	0.000	0.000	0.081	0.154	0.047	3.478
			-	-	16:COM3	16:COM3	16:COM3	16:COM3
			-4.316	-4.969	-0.061	-0.115	-0.037	0.000
			18:COM5	18:COM5	26:COM1	26:COM1	26:COM1	-
11589	4753	+ve	0.627	10.734	0.003	0.000	0.008	25.878
			28:COM1	34:CVOL3	20:COM7	-	20:COM7	34:CVOL3
			-1.232	0.000	-0.004	-1.169	-0.006	0.000
			22:COM9	-	30:COM1	18:COM5	30:COM1	-
	4899	-ve	0.627	0.064	0.003	0.000	0.011	3.646
			28:COM1	28:COM1	20:COM7	-	16:COM3	34:CVOL3
			-1.232	-0.725	-0.004	-1.169	-0.010	0.000
			22:COM9	22:COM9	30:COM1	18:COM5	26:COM1	-
11590	4752	+ve	1.107	11.040	0.006	0.000	0.011	42.530
			20:COM7	16:COM3	20:COM7	-	28:COM1	16:COM3
			-1.091	0.000	-0.005	-0.840	-0.012	0.000
			30:COM1	-	30:COM1	18:COM5	22:COM9	-
	4898	-ve	1.107	2.385	0.006	0.000	0.017	20.673
			20:COM7	24:COM11	20:COM7	-	20:COM7	35:CVOL4
			-1.091	-4.355	-0.005	-0.840	-0.012	0.000
			30:COM1	18:COM5	30:COM1	18:COM5	30:COM1	-
11591	4751	+ve	2.088	20.121	0.011	0.180	0.027	62.814
			16:COM3	34:CVOL3	24:COM11	24:COM1	16:COM3	34:CVOL3
			0.000	0.000	-0.012	-0.414	-0.021	0.000
			-	-	18:COM5	18:COM5	26:COM1	-
	4900	-ve	2.088	8.857	0.011	0.180	0.030	0.000
			16:COM3	16:COM3	24:COM11	24:COM1	16:COM3	-
			0.000	0.000	-0.012	-0.414	-0.027	-1.687
			-	-	18:COM5	18:COM5	26:COM1	18:COM5
11592	4755	+ve	0.000	10.986	0.009	0.213	0.002	21.873
			-	34:CVOL3	20:COM7	16:COM3	28:COM1	34:CVOL3
			-30.107	0.000	-0.001	-0.098	-0.020	0.000
			34:CVOL3	-	30:COM1	26:COM1	22:COM9	-
	4897	-ve	0.000	0.383	0.009	0.213	0.020	0.000
			-	32:CVOL1	20:COM7	16:COM3	20:COM7	-
			-30.107	-0.988	-0.001	-0.098	-0.001	-2.643
			34:CVOL3	35:CVOL4	30:COM1	26:COM1	30:COM1	34:CVOL3
11593	4754	+ve	1.642	18.546	0.012	0.499	0.022	55.960
			34:CVOL3	34:CVOL3	16:COM3	16:COM3	24:COM11	34:CVOL3
			0.000	0.000	-0.010	-0.004	-0.030	0.000
			-	-	26:COM1	26:COM1	18:COM5	-
	4896	-ve	1.642	6.718	0.012	0.499	0.024	0.000
			34:CVOL3	34:CVOL3	16:COM3	16:COM3	16:COM3	-
			0.000	0.000	-0.010	-0.004	-0.023	-1.728
			-	-	26:COM1	26:COM1	26:COM1	34:CVOL3

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
11594	4683	+ve	1.133	15.806	0.012	0.565	0.033	44.884
			16:COM3	34:CVOL3	24:COM11	16:COM3	16:COM3	34:CVOL3
			-0.827	0.000	-0.016	0.000	-0.026	0.000
			26:COM13	-	18:COM5	-	26:COM13	-
	4895	-ve	1.133	4.330	0.012	0.565	0.030	0.354
			16:COM3	16:COM3	24:COM11	16:COM3	24:COM11	24:COM11
			-0.827	0.000	-0.016	0.000	-0.040	-0.774
			26:COM13	-	18:COM5	-	18:COM5	18:COM5
11601	4807	+ve	0.000	7.731	0.004	0.023	0.012	7.428
			-	35:CVOL4	24:COM11	20:COM7	16:COM3	35:CVOL4
			-2.073	0.000	-0.004	-0.021	-0.012	0.000
			18:COM5	-	18:COM5	30:COM17	26:COM13	-
	4756	-ve	0.000	0.000	0.004	0.023	0.010	9.150
			-	-	24:COM11	20:COM7	24:COM11	34:CVOL3
			-2.073	-8.273	-0.004	-0.021	-0.012	0.000
			18:COM5	34:CVOL3	18:COM5	30:COM17	18:COM5	-
11602	5474	+ve	0.797	10.376	0.547	14.408	1.088	11.069
			24:COM11	16:COM3	24:COM11	16:COM3	16:COM3	16:COM3
			-9.000	-0.137	-1.139	-2.579	-0.638	-2.260
			18:COM5	26:COM13	18:COM5	26:COM13	26:COM13	26:COM13
	5516	-ve	0.797	5.145	0.547	14.408	0.429	1.790
			24:COM11	24:COM11	24:COM11	16:COM3	24:COM11	16:COM3
			-9.000	-4.210	-1.139	-2.579	-1.133	-3.876
			18:COM5	18:COM5	18:COM5	26:COM13	18:COM5	26:COM13
11603	4789	+ve	2.179	12.572	0.012	0.016	0.000	13.898
			34:CVOL3	35:CVOL4	20:COM7	28:COM15	-	35:CVOL4
			0.000	0.000	-0.001	-0.145	-0.050	0.000
			-	-	30:COM17	22:COM9	22:COM9	-
	4758	-ve	2.179	0.000	0.012	0.016	0.022	19.831
			34:CVOL3	-	20:COM7	28:COM15	20:COM7	34:CVOL3
			0.000	-14.336	-0.001	-0.145	-0.011	0.000
			-	34:CVOL3	30:COM17	22:COM9	30:COM17	-
11604	4790	+ve	0.000	8.982	0.004	0.000	0.007	9.792
			-	35:CVOL4	20:COM7	-	28:COM15	35:CVOL4
			-6.397	0.000	-0.004	-0.118	-0.018	0.000
			34:CVOL3	-	30:COM17	22:COM9	22:COM9	-
	4759	-ve	0.000	0.000	0.004	0.000	0.009	9.863
			-	-	20:COM7	-	28:COM15	34:CVOL3
			-6.397	-8.976	-0.004	-0.118	-0.017	0.000
			34:CVOL3	34:CVOL3	30:COM17	22:COM9	22:COM9	-
11605	4828	+ve	0.000	1.537	0.000	0.000	0.079	0.000
			-	34:CVOL3	-	-	16:COM3	-
			-3.680	-0.164	-0.051	-0.298	0.000	-2.108
			18:COM5	26:COM13	18:COM5	18:COM5	-	18:COM5
	4770	-ve	0.000	0.000	0.000	0.000	0.000	7.362
			-	-	-	-	-	34:CVOL3
			-3.680	-7.420	-0.051	-0.298	-0.077	0.000
			18:COM5	35:CVOL4	18:COM5	18:COM5	18:COM5	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
11606	4770	+ve	0.000	8.767	0.005	0.090	0.021	9.155
			-	35:CVOL4	28:COM15	16:COM3	20:COM7	35:CVOL4
			-5.936	0.000	-0.007	-0.090	-0.013	0.000
			18:COM5	-	22:COM9	26:COM13	30:COM17	-
	4760	-ve	0.000	0.000	0.005	0.090	0.016	10.011
			-	-	28:COM15	16:COM3	28:COM15	34:CVOL3
			-5.936	-9.014	-0.007	-0.090	-0.023	0.000
			18:COM5	34:CVOL3	22:COM9	26:COM13	22:COM9	-
11607	4769	+ve	0.000	8.359	0.007	0.150	0.018	8.096
			-	35:CVOL4	20:COM7	16:COM3	28:COM15	35:CVOL4
			-6.189	0.000	-0.007	-0.069	-0.020	0.000
			18:COM5	-	30:COM17	26:COM13	22:COM9	-
	4761	-ve	0.000	0.000	0.007	0.150	0.023	10.710
			-	-	20:COM7	16:COM3	20:COM7	34:CVOL3
			-6.189	-9.182	-0.007	-0.069	-0.021	0.000
			18:COM5	34:CVOL3	30:COM17	26:COM13	30:COM17	-
11608	4760	+ve	0.181	10.030	0.010	0.045	0.006	14.014
			28:COM15	34:CVOL3	16:COM3	24:COM17	24:COM11	34:CVOL3
			-1.746	0.000	-0.002	-0.083	-0.020	0.000
			22:COM9	-	26:COM13	18:COM5	18:COM5	-
	4818	-ve	0.181	0.000	0.010	0.045	0.020	1.496
			28:COM15	-	16:COM3	24:COM17	16:COM3	20:COM7
			-1.746	-4.227	-0.002	-0.083	-0.004	0.000
			22:COM9	35:CVOL4	26:COM13	18:COM5	26:COM13	-
11609	4761	+ve	0.115	10.250	0.007	0.084	0.004	14.092
			28:COM15	34:CVOL3	16:COM3	24:COM17	24:COM11	34:CVOL3
			-1.024	0.000	-0.002	-0.216	-0.015	0.000
			22:COM9	-	26:COM13	18:COM5	18:COM5	-
	4817	-ve	0.115	0.000	0.007	0.084	0.016	0.478
			28:COM15	-	16:COM3	24:COM17	20:COM7	16:COM3
			-1.024	-4.165	-0.002	-0.216	-0.003	0.000
			22:COM9	35:CVOL4	26:COM13	18:COM5	30:COM17	-
11610	4763	+ve	10.502	0.000	1.660	6.390	1.533	29.386
			28:COM15	-	24:COM11	20:COM7	16:COM3	20:COM7
			-25.863	-42.133	-2.078	-3.222	-0.822	-25.507
			22:COM9	22:COM9	18:COM5	30:COM17	26:COM13	30:COM17
	4692	-ve	10.502	0.000	1.660	6.390	2.487	115.171
			28:COM15	-	24:COM11	20:COM7	24:COM11	20:COM7
			-25.863	-44.420	-2.078	-3.222	-2.606	-16.423
			22:COM9	22:COM9	18:COM5	30:COM17	18:COM5	30:COM17
11611	4764	+ve	7.387	1.805	0.123	7.067	0.588	0.000
			28:COM15	28:COM15	28:COM15	20:COM7	20:COM7	-
			-26.694	-26.180	-0.562	-3.736	-0.051	-39.874
			22:COM9	22:COM9	22:COM9	30:COM17	30:COM17	22:COM9
	4763	-ve	7.387	0.089	0.123	7.067	0.202	29.486
			28:COM15	28:COM15	28:COM15	20:COM7	28:COM15	20:COM7
			-26.694	-28.468	-0.562	-3.736	-0.536	-25.349
			22:COM9	22:COM9	22:COM9	30:COM17	22:COM9	30:COM17

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
11612	4765	+ve	5.494	5.572	0.063	5.042	0.715	0.000
			28:COM15	28:COM15	28:COM15	20:COM7	20:COM7	-
			-27.949	-11.226	-0.410	-2.580	-0.129	-52.966
			22:COM9	22:COM9	22:COM9	30:COM17	30:COM17	35:CVOL4
	4764	-ve	5.494	3.856	0.063	5.042	0.057	0.000
			28:COM15	28:COM15	28:COM15	20:COM7	28:COM15	-
			-27.949	-13.514	-0.410	-2.580	-0.159	-39.638
			22:COM9	22:COM9	22:COM9	30:COM17	22:COM9	22:COM9
11613	4766	+ve	3.232	11.258	0.000	1.070	1.189	0.663
			28:COM15	20:COM7	-	20:COM7	20:COM7	28:COM15
			-28.779	-0.013	-0.840	-0.939	0.000	-45.390
			22:COM9	30:COM17	22:COM9	30:COM17	-	22:COM9
	4765	-ve	3.232	8.970	0.000	1.070	0.000	0.000
			28:COM15	20:COM7	-	20:COM7	-	-
			-28.779	-1.728	-0.840	-0.939	-0.488	-52.907
			22:COM9	30:COM17	22:COM9	30:COM17	22:COM9	35:CVOL4
11614	4767	+ve	1.160	23.325	0.000	2.875	2.363	23.668
			28:COM15	34:CVOL3	-	28:COM15	20:COM7	20:COM7
			-28.963	0.000	-1.992	-4.389	0.000	-14.301
			22:COM9	-	22:COM9	22:COM9	-	30:COM17
	4766	-ve	1.160	21.038	0.000	2.875	0.000	0.338
			28:COM15	34:CVOL3	-	28:COM15	-	28:COM15
			-28.963	0.000	-1.992	-4.389	-1.591	-45.414
			22:COM9	-	22:COM9	22:COM9	22:COM9	22:COM9
11615	4768	+ve	0.162	40.587	0.000	3.999	5.582	90.188
			28:COM15	34:CVOL3	-	28:COM15	20:COM7	20:COM7
			-24.997	0.000	-4.795	-5.727	0.000	0.000
			22:COM9	-	22:COM9	22:COM9	-	-
	4767	-ve	0.162	38.299	0.000	3.999	0.176	23.143
			28:COM15	34:CVOL3	-	28:COM15	28:COM15	20:COM7
			-24.997	0.000	-4.795	-5.727	-3.933	-14.400
			22:COM9	-	22:COM9	22:COM9	22:COM9	30:COM17
11616	4769	+ve	2.751	7.823	0.894	1.453	0.342	6.170
			28:COM15	16:COM3	20:COM7	24:COM17	28:COM15	24:COM17
			-5.367	-1.318	-0.534	-6.750	-0.511	-8.444
			22:COM9	26:COM13	30:COM17	18:COM5	22:COM9	18:COM5
	4867	-ve	2.751	6.525	0.894	1.453	0.497	0.000
			28:COM15	16:COM3	20:COM7	24:COM17	20:COM7	-
			-5.367	-2.292	-0.534	-6.750	-0.261	-7.178
			22:COM9	26:COM13	30:COM17	18:COM5	30:COM17	18:COM5
11617	4770	+ve	2.817	22.674	1.281	3.578	0.337	44.664
			28:COM15	16:COM3	20:COM7	16:COM3	28:COM15	16:COM3
			-6.747	0.000	-0.291	-3.410	-1.188	0.000
			22:COM9	-	30:COM17	26:COM13	22:COM9	-
	4769	-ve	2.817	20.508	1.281	3.578	1.220	6.123
			28:COM15	16:COM3	20:COM7	16:COM3	20:COM7	24:COM17
			-6.747	0.000	-0.291	-3.410	-0.210	-8.490
			22:COM9	-	30:COM17	26:COM13	30:COM17	18:COM5

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
11618	4771	+ve	22.290	0.000	0.183	0.000	0.869	43.211
			28:COM15	-	28:COM15	-	20:COM7	16:COM3
			-27.416	-38.527	-1.259	-10.994	0.000	-24.283
			22:COM9	18:COM5	22:COM9	18:COM5	-	26:COM13
	4694	-ve	22.290	0.000	0.183	0.000	0.419	120.688
			28:COM15	-	28:COM15	-	28:COM15	16:COM3
			-27.416	-40.782	-1.259	-10.994	-1.594	-13.371
			22:COM9	18:COM5	22:COM9	18:COM5	22:COM9	26:COM13
11619	4772	+ve	20.855	0.000	0.076	0.000	0.359	4.497
			28:COM15	-	16:COM3	-	20:COM7	24:COM11
			-26.950	-23.926	-0.245	-8.199	-0.098	-38.537
			22:COM9	18:COM5	26:COM13	35:CVOL4	30:COM17	18:COM5
	4771	-ve	20.855	0.000	0.076	0.000	0.198	43.350
			28:COM15	-	16:COM3	-	16:COM3	16:COM3
			-26.950	-26.181	-0.245	-8.199	-0.267	-24.210
			22:COM9	18:COM5	26:COM13	35:CVOL4	26:COM13	26:COM13
11620	4773	+ve	19.114	2.872	0.134	0.000	0.228	0.000
			28:COM15	24:COM11	16:COM3	-	28:COM15	-
			-24.865	-13.156	-0.122	-5.009	-0.209	-43.975
			22:COM9	18:COM5	26:COM13	18:COM5	22:COM9	35:CVOL4
	4772	-ve	19.114	1.181	0.134	0.000	0.182	4.576
			28:COM15	24:COM11	16:COM3	-	16:COM3	24:COM11
			-24.865	-15.411	-0.122	-5.009	-0.138	-38.498
			22:COM9	18:COM5	26:COM13	18:COM5	26:COM13	18:COM5
11621	4774	+ve	16.709	8.276	0.119	1.278	0.153	0.000
			28:COM15	16:COM3	16:COM3	24:COM11	28:COM15	-
			-22.300	-4.715	-0.101	-1.472	-0.156	-43.582
			22:COM9	26:COM13	26:COM13	18:COM5	22:COM9	18:COM5
	4773	-ve	16.709	6.021	0.119	1.278	0.170	0.000
			28:COM15	16:COM3	16:COM3	24:COM11	16:COM3	-
			-22.300	-6.406	-0.101	-1.472	-0.138	-43.945
			22:COM9	26:COM13	26:COM13	18:COM5	26:COM13	35:CVOL4
11622	4775	+ve	13.880	17.358	0.183	4.973	0.158	11.936
			28:COM15	16:COM3	16:COM3	20:COM7	24:COM11	24:COM11
			-19.423	0.000	-0.182	0.000	-0.140	-36.455
			22:COM9	-	26:COM13	-	18:COM5	18:COM5
	4774	-ve	13.880	15.103	0.183	4.973	0.227	0.000
			28:COM15	16:COM3	16:COM3	20:COM7	24:COM11	-
			-19.423	-1.581	-0.182	0.000	-0.208	-43.593
			22:COM9	26:COM13	26:COM13	-	18:COM5	18:COM5
11623	4776	+ve	11.003	27.790	0.825	8.145	0.909	56.025
			28:COM15	16:COM3	20:COM7	35:CVOL4	28:COM15	16:COM3
			-16.841	0.000	-0.709	0.000	-0.958	-20.802
			22:COM9	-	30:COM17	-	22:COM9	26:COM13
	4775	-ve	11.003	25.535	0.825	8.145	0.656	11.862
			28:COM15	16:COM3	20:COM7	35:CVOL4	20:COM7	24:COM11
			-16.841	0.000	-0.709	0.000	-0.477	-36.539
			22:COM9	-	30:COM17	-	30:COM17	18:COM5

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
11624	4777	+ve	20.232	0.000	0.278	0.000	1.062	53.354
			28:COM15	-	28:COM15	-	20:COM7	16:COM3
			-25.088	-39.745	-1.165	-10.916	-0.303	-28.278
			22:COM9	18:COM5	22:COM9	22:COM9	30:COM17	26:COM13
	4695	-ve	20.232	0.000	0.278	0.000	0.258	133.956
			28:COM15	-	28:COM15	-	28:COM15	16:COM3
			-25.088	-42.019	-1.165	-10.916	-1.249	-14.446
			22:COM9	18:COM5	22:COM9	22:COM9	22:COM9	26:COM13
11625	4778	+ve	21.952	0.000	0.398	0.000	0.671	10.426
			28:COM15	-	28:COM15	-	20:COM7	24:COM11
			-27.879	-25.530	-0.748	-8.325	-0.348	-42.525
			22:COM9	18:COM5	22:COM9	34:CVOL3	30:COM17	18:COM5
	4777	-ve	21.952	0.000	0.398	0.000	0.443	53.500
			28:COM15	-	28:COM15	-	28:COM15	16:COM3
			-27.879	-27.805	-0.748	-8.325	-0.810	-28.188
			22:COM9	18:COM5	22:COM9	34:CVOL3	22:COM9	26:COM13
11626	4779	+ve	23.830	3.121	0.205	0.000	0.313	0.000
			28:COM15	24:COM11	24:COM11	-	20:COM7	-
			-29.104	-14.815	-0.340	-5.434	-0.206	-45.707
			22:COM9	18:COM5	18:COM5	18:COM5	30:COM17	18:COM5
	4778	-ve	23.830	1.414	0.205	0.000	0.267	10.497
			28:COM15	24:COM11	24:COM11	-	24:COM11	24:COM11
			-29.104	-17.090	-0.340	-5.434	-0.427	-42.446
			22:COM9	18:COM5	18:COM5	18:COM5	18:COM5	18:COM5
11627	4780	+ve	25.026	8.409	0.138	1.703	0.227	0.000
			28:COM15	16:COM3	24:COM11	24:COM11	20:COM7	-
			-30.165	-6.026	-0.235	-1.884	-0.151	-43.786
			22:COM9	26:COM13	18:COM5	18:COM5	30:COM17	35:CVOL4
	4779	-ve	25.026	6.304	0.138	1.703	0.235	0.000
			28:COM15	24:COM11	24:COM11	24:COM11	24:COM11	-
			-30.165	-7.902	-0.235	-1.884	-0.350	-45.706
			22:COM9	18:COM5	18:COM5	18:COM5	18:COM5	18:COM5
11628	4781	+ve	25.634	17.636	0.167	5.047	0.174	9.945
			28:COM15	16:COM3	24:COM11	20:COM7	20:COM7	24:COM11
			-31.010	-1.207	-0.185	0.000	-0.156	-39.634
			22:COM9	26:COM13	18:COM5	-	30:COM17	18:COM5
	4780	-ve	25.634	15.361	0.167	5.047	0.286	0.000
			28:COM15	16:COM3	24:COM11	20:COM7	24:COM11	-
			-31.010	-2.913	-0.185	0.000	-0.303	-43.830
			22:COM9	26:COM13	18:COM5	-	18:COM5	35:CVOL4
11629	4782	+ve	25.663	28.747	0.433	7.747	0.000	55.417
			28:COM15	16:COM3	16:COM3	35:CVOL4	-	16:COM3
			-31.847	0.000	-0.078	0.000	-0.310	-26.322
			22:COM9	-	26:COM13	-	18:COM5	26:COM13
	4781	-ve	25.663	26.471	0.433	7.747	0.556	9.838
			28:COM15	16:COM3	16:COM3	35:CVOL4	16:COM3	24:COM11
			-31.847	0.000	-0.078	0.000	-0.185	-39.682
			22:COM9	-	26:COM13	-	26:COM13	18:COM5

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
11630	4783	+ve	4.491	0.000	0.759	5.812	1.608	25.079
			28:COM15	-	24:COM11	24:COM11	16:COM3	20:COM7
			-9.248	-29.802	-1.442	-6.116	-0.828	-3.502
			22:COM9	35:CVOL4	18:COM5	18:COM5	26:COM13	30:COM17
	4697	-ve	4.491	0.000	0.759	5.812	0.962	82.588
			28:COM15	-	24:COM11	24:COM11	28:COM15	16:COM3
			-9.248	-32.076	-1.442	-6.116	-1.528	0.000
			22:COM9	35:CVOL4	18:COM5	18:COM5	22:COM9	-
11631	4784	+ve	7.606	0.000	0.225	5.179	0.379	0.000
			28:COM15	-	24:COM11	24:COM11	20:COM7	-
			-11.568	-16.765	-0.769	-4.171	0.000	-25.382
			22:COM9	35:CVOL4	18:COM5	18:COM5	-	22:COM9
	4783	-ve	7.606	0.000	0.225	5.179	0.564	25.291
			28:COM15	-	24:COM11	24:COM11	24:COM11	20:COM7
			-11.568	-19.039	-0.769	-4.171	-1.188	-3.384
			22:COM9	35:CVOL4	18:COM5	18:COM5	18:COM5	30:COM17
11632	4785	+ve	10.074	0.000	0.607	3.917	0.247	0.000
			28:COM15	-	16:COM3	24:COM11	28:COM15	-
			-15.194	-7.401	-0.350	-2.986	-0.400	-36.529
			22:COM9	22:COM9	26:COM13	18:COM5	22:COM9	22:COM9
	4784	-ve	10.074	0.000	0.607	3.917	0.884	0.000
			28:COM15	-	16:COM3	24:COM11	16:COM3	-
			-15.194	-9.674	-0.350	-2.986	-0.531	-25.243
			22:COM9	22:COM9	26:COM13	18:COM5	26:COM13	22:COM9
11633	4786	+ve	12.634	3.118	0.415	1.659	1.136	0.000
			28:COM15	20:COM7	28:COM15	28:COM15	16:COM3	-
			-18.384	-0.929	-1.019	-1.579	-0.417	-35.167
			22:COM9	30:COM17	22:COM9	22:COM9	26:COM13	35:CVOL4
	4785	-ve	12.634	1.045	0.415	1.659	0.494	0.000
			28:COM15	28:COM15	28:COM15	28:COM15	28:COM15	-
			-18.384	-2.834	-1.019	-1.579	-0.966	-36.540
			22:COM9	22:COM9	22:COM9	22:COM9	22:COM9	22:COM9
11634	4787	+ve	15.224	11.711	0.593	1.499	0.690	0.000
			28:COM15	16:COM3	24:COM11	24:COM11	16:COM3	-
			-21.061	0.000	-0.782	-2.749	-0.528	-21.020
			22:COM9	-	18:COM5	18:COM5	26:COM13	18:COM5
	4786	-ve	15.224	9.438	0.593	1.499	0.689	0.000
			28:COM15	16:COM3	24:COM11	24:COM11	28:COM15	-
			-21.061	-0.264	-0.782	-2.749	-0.899	-35.209
			22:COM9	26:COM13	18:COM5	18:COM5	22:COM9	35:CVOL4
11635	4788	+ve	16.775	23.061	0.414	4.561	0.193	31.242
			28:COM15	16:COM3	20:COM7	16:COM3	24:COM11	16:COM3
			-23.797	0.000	-0.065	-5.812	-0.434	-10.530
			22:COM9	-	30:COM17	26:COM13	18:COM5	26:COM13
	4787	-ve	16.775	20.788	0.414	4.561	0.604	0.000
			28:COM15	16:COM3	20:COM7	16:COM3	20:COM7	-
			-23.797	0.000	-0.065	-5.812	-0.154	-21.162
			22:COM9	-	30:COM17	26:COM13	30:COM17	18:COM5

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
11636	4789	+ve	95.892	52.224	9.034	3.671	0.000	149.855
			34:CVOL3	34:CVOL3	34:CVOL3	20:COM7	-	34:CVOL3
			0.000	0.000	0.000	-2.380	-9.429	0.000
			-	-	-	30:COM1	34:CVOL3	-
	4842	-ve	95.892	48.877	9.034	3.671	8.050	52.053
			34:CVOL3	34:CVOL3	34:CVOL3	20:COM7	34:CVOL3	34:CVOL3
			0.000	0.000	0.000	-2.380	0.000	0.000
			-	-	-	30:COM1	-	-
11637	4790	+ve	156.401	77.938	6.032	6.058	0.000	261.946
			34:CVOL3	34:CVOL3	16:COM3	20:COM7	-	34:CVOL3
			0.000	0.000	0.000	-2.839	-4.478	0.000
			-	-	-	30:COM1	18:COM5	-
	4789	-ve	156.401	74.486	6.032	6.058	5.661	137.499
			34:CVOL3	34:CVOL3	16:COM3	20:COM7	34:CVOL3	34:CVOL3
			0.000	0.000	0.000	-2.839	0.000	0.000
			-	-	-	30:COM1	-	-
11638	4759	+ve	292.819	0.000	8.150	0.000	0.350	359.150
			34:CVOL3	-	20:COM7	-	28:COM1	34:CVOL3
			0.000	-123.212	-0.515	-6.425	-4.617	0.000
			-	34:CVOL3	30:COM1	22:COM9	22:COM9	-
	4684	-ve	292.819	0.000	8.150	0.000	8.731	564.148
			34:CVOL3	-	20:COM7	-	20:COM7	34:CVOL3
			0.000	-127.239	-0.515	-6.425	-0.499	0.000
			-	34:CVOL3	30:COM1	22:COM9	30:COM1	-
11639	4758	+ve	205.792	0.000	0.000	3.621	5.291	212.389
			34:CVOL3	-	-	20:COM7	34:CVOL3	34:CVOL3
			0.000	-98.911	-5.566	-3.186	0.000	0.000
			-	34:CVOL3	22:COM9	30:COM1	-	-
	4759	-ve	205.792	0.000	0.000	3.621	0.000	377.178
			34:CVOL3	-	-	20:COM7	-	34:CVOL3
			0.000	-102.927	-5.566	-3.186	-3.999	0.000
			-	34:CVOL3	22:COM9	30:COM1	18:COM5	-
11640	4791	+ve	12.158	0.000	0.029	0.133	0.118	14.618
			28:COM1	-	24:COM1	24:COM1	16:COM3	16:COM3
			-15.861	-6.980	-0.134	-1.157	-0.020	-6.000
			22:COM9	18:COM5	18:COM5	18:COM5	26:COM1	26:COM1
	4713	-ve	12.158	0.000	0.029	0.133	0.038	23.846
			28:COM1	-	24:COM1	24:COM1	24:COM1	16:COM3
			-15.861	-8.796	-0.134	-1.157	-0.145	0.000
			22:COM9	18:COM5	18:COM5	18:COM5	18:COM5	-
11641	4792	+ve	11.682	0.000	0.037	0.000	0.020	3.314
			28:COM1	-	16:COM3	-	24:COM1	24:COM1
			-13.168	-6.008	-0.009	-0.922	-0.049	-12.483
			22:COM9	18:COM5	26:COM1	35:CVOL4	18:COM5	18:COM5
	4791	-ve	11.682	0.000	0.037	0.000	0.028	14.393
			28:COM1	-	16:COM3	-	20:COM7	16:COM3
			-13.168	-7.823	-0.009	-0.922	-0.003	-6.120
			22:COM9	18:COM5	26:COM1	35:CVOL4	30:COM1	26:COM1

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
11642	4793	+ve	10.653	1.384	0.063	0.000	0.030	0.000
			28:COM15	24:COM11	16:COM3	-	24:COM11	-
			-11.905	-4.524	-0.024	-0.599	-0.061	-13.918
			22:COM9	18:COM5	26:COM13	18:COM5	18:COM5	18:COM5
	4792	-ve	10.653	0.022	0.063	0.000	0.063	3.182
			28:COM15	24:COM11	16:COM3	-	16:COM3	24:COM11
			-11.905	-6.340	-0.024	-0.599	-0.020	-12.602
			22:COM9	18:COM5	26:COM13	18:COM5	26:COM13	18:COM5
11643	4794	+ve	9.043	3.932	0.027	0.148	0.032	0.000
			28:COM15	16:COM3	24:COM11	24:COM11	16:COM3	-
			-10.409	-1.677	-0.026	-0.165	-0.027	-14.352
			22:COM9	26:COM13	18:COM5	18:COM5	26:COM13	18:COM5
	4793	-ve	9.043	2.183	0.027	0.148	0.027	0.000
			28:COM15	24:COM11	24:COM11	24:COM11	16:COM3	-
			-10.409	-3.106	-0.026	-0.165	-0.020	-13.933
			22:COM9	18:COM5	18:COM5	18:COM5	26:COM13	18:COM5
11644	4795	+ve	6.873	7.284	0.009	0.559	0.051	6.122
			28:COM15	16:COM3	24:COM11	20:COM7	16:COM3	24:COM11
			-8.017	0.000	-0.047	0.000	-0.009	-11.614
			22:COM9	-	18:COM5	-	26:COM13	18:COM5
	4794	-ve	6.873	5.469	0.009	0.559	0.009	0.000
			28:COM15	16:COM3	24:COM11	20:COM7	24:COM11	-
			-8.017	-0.979	-0.047	0.000	-0.041	-14.336
			22:COM9	26:COM13	18:COM5	-	18:COM5	18:COM5
11645	4796	+ve	3.880	9.294	0.004	0.930	0.033	21.124
			28:COM15	16:COM3	28:COM15	35:CVOL4	20:COM7	16:COM3
			-4.714	0.000	-0.035	0.000	-0.008	-6.228
			22:COM9	-	22:COM9	-	30:COM17	26:COM13
	4795	-ve	3.880	7.479	0.004	0.930	0.002	6.237
			28:COM15	16:COM3	28:COM15	35:CVOL4	28:COM15	24:COM11
			-4.714	0.000	-0.035	0.000	-0.038	-11.482
			22:COM9	-	22:COM9	-	35:CVOL4	18:COM5
11646	4797	+ve	8.417	0.000	0.000	0.000	0.089	19.491
			28:COM15	-	-	-	16:COM3	16:COM3
			-12.851	-6.293	-0.098	-1.003	0.000	-8.478
			22:COM9	35:CVOL4	18:COM5	18:COM5	-	26:COM13
	4714	-ve	8.417	0.000	0.000	0.000	0.000	31.885
			28:COM15	-	-	-	-	16:COM3
			-12.851	-8.127	-0.098	-1.003	-0.105	-0.052
			22:COM9	35:CVOL4	18:COM5	18:COM5	18:COM5	26:COM13
11647	4798	+ve	10.247	0.000	0.030	0.000	0.003	5.652
			28:COM15	-	35:CVOL4	-	24:COM11	24:COM11
			-13.081	-7.055	0.000	-0.951	-0.042	-13.848
			22:COM9	18:COM5	-	35:CVOL4	18:COM5	18:COM5
	4797	-ve	10.247	0.000	0.030	0.000	0.024	19.246
			28:COM15	-	35:CVOL4	-	16:COM3	16:COM3
			-13.081	-8.888	0.000	-0.951	-0.006	-8.586
			22:COM9	18:COM5	-	35:CVOL4	26:COM13	26:COM13

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
11648	4799	+ve	11.785	1.545	0.045	0.009	0.011	0.000
			28:COM15	24:COM11	16:COM3	24:COM11	24:COM11	-
			-14.139	-5.280	-0.007	-0.626	-0.045	-15.279
			22:COM9	18:COM5	26:COM13	18:COM5	18:COM5	18:COM5
	4798	-ve	11.785	0.170	0.045	0.009	0.049	5.516
			28:COM15	24:COM11	16:COM3	24:COM11	20:COM7	24:COM11
			-14.139	-7.113	-0.007	-0.626	-0.008	-13.970
			22:COM9	18:COM5	26:COM13	18:COM5	30:COM17	18:COM5
11649	4800	+ve	12.685	3.979	0.016	0.194	0.030	0.000
			28:COM15	16:COM3	24:COM11	24:COM11	16:COM3	-
			-14.779	-2.208	-0.023	-0.205	-0.018	-14.677
			22:COM9	26:COM13	18:COM5	18:COM5	26:COM13	18:COM5
	4799	-ve	12.685	2.330	0.016	0.194	0.023	0.000
			28:COM15	24:COM11	24:COM11	24:COM11	28:COM15	-
			-14.779	-3.767	-0.023	-0.205	-0.024	-15.286
			22:COM9	18:COM5	18:COM5	18:COM5	22:COM9	18:COM5
11650	4801	+ve	13.132	7.254	0.013	0.625	0.071	5.380
			28:COM15	16:COM3	24:COM11	16:COM3	16:COM3	24:COM11
			-14.854	-0.053	-0.064	-0.034	-0.015	-13.003
			22:COM9	26:COM13	18:COM5	26:COM13	26:COM13	18:COM5
	4800	-ve	13.132	5.421	0.013	0.625	0.016	0.000
			28:COM15	16:COM3	24:COM11	16:COM3	28:COM15	-
			-14.854	-1.428	-0.064	-0.034	-0.061	-14.676
			22:COM9	26:COM13	18:COM5	26:COM13	22:COM9	18:COM5
11651	4802	+ve	13.018	8.540	0.004	0.911	0.031	18.651
			28:COM15	16:COM3	24:COM11	35:CVOL4	16:COM3	16:COM3
			-14.904	0.000	-0.037	0.000	-0.006	-7.262
			22:COM9	-	18:COM5	-	26:COM13	26:COM13
	4801	-ve	13.018	6.706	0.004	0.911	0.010	5.523
			28:COM15	16:COM3	24:COM11	35:CVOL4	28:COM15	24:COM11
			-14.904	0.000	-0.037	0.000	-0.050	-12.893
			22:COM9	-	18:COM5	-	22:COM9	18:COM5
11652	4805	+ve	8.796	7.818	0.005	0.641	0.046	11.047
			28:COM15	35:CVOL4	28:COM15	16:COM3	20:COM7	16:COM3
			-9.966	0.000	-0.055	-0.522	0.000	-1.123
			22:COM9	-	22:COM9	26:COM13	-	26:COM13
	4804	-ve	8.796	5.986	0.005	0.641	0.020	1.157
			28:COM15	35:CVOL4	28:COM15	16:COM3	28:COM15	24:COM11
			-9.966	0.000	-0.055	-0.522	-0.068	-10.031
			22:COM9	-	22:COM9	26:COM13	22:COM9	18:COM5
11654	4807	+ve	1.694	61.931	1.092	0.000	0.983	14.898
			28:COM15	16:COM3	24:COM11	-	16:COM3	16:COM3
			-5.639	-48.294	-1.136	-3.755	-0.949	0.000
			22:COM9	26:COM13	18:COM5	18:COM5	26:COM13	-
	5474	-ve	1.694	59.605	1.092	0.000	1.257	101.031
			28:COM15	16:COM3	24:COM11	-	24:COM11	24:COM11
			-5.639	-50.038	-1.136	-3.755	-1.314	-107.900
			22:COM9	26:COM13	18:COM5	18:COM5	18:COM5	18:COM5

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
11656	4756	+ve	18.669	84.368	1.517	0.000	1.589	10.228
			24:COM1	16:COM3	24:COM1	-	16:COM3	24:COM1
			-18.354	-77.627	-1.696	-7.150	-1.417	-14.057
			18:COM5	26:COM1	18:COM5	18:COM5	26:COM1	18:COM5
	5488	-ve	18.669	81.909	1.517	0.000	1.646	145.997
			24:COM1	24:COM1	24:COM1	-	24:COM1	24:COM1
			-18.354	-80.052	-1.696	-7.150	-1.835	-158.497
			18:COM5	18:COM5	18:COM5	18:COM5	18:COM5	18:COM5
11659	4811	+ve	14.658	7.754	0.030	0.000	0.033	0.000
			16:COM3	16:COM3	16:COM3	-	24:COM1	-
			-15.167	0.000	-0.031	-0.829	-0.033	-16.014
			26:COM1	-	26:COM1	35:CVOL4	18:COM5	18:COM5
	4832	-ve	14.658	5.068	0.030	0.000	0.032	0.000
			16:COM3	16:COM3	16:COM3	-	20:COM7	-
			-15.167	0.000	-0.031	-0.829	-0.035	-23.098
			26:COM1	-	26:COM1	35:CVOL4	30:COM1	34:CVOL3
11660	4812	+ve	14.671	12.543	0.030	0.000	0.083	16.115
			16:COM3	34:CVOL3	24:COM1	-	16:COM3	16:COM3
			-15.547	0.000	-0.074	-1.222	-0.035	-3.303
			26:COM1	-	18:COM5	35:CVOL4	26:COM1	26:COM1
	4811	-ve	14.671	8.920	0.030	0.000	0.025	0.000
			16:COM3	34:CVOL3	24:COM1	-	24:COM1	-
			-15.547	0.000	-0.074	-1.222	-0.064	-15.855
			26:COM1	-	18:COM5	35:CVOL4	18:COM5	18:COM5
11661	4813	+ve	1.904	3.496	0.230	0.193	0.000	7.777
			24:COM1	20:COM7	20:COM7	28:COM1	-	28:COM1
			-16.543	0.000	0.000	-0.335	-0.251	-19.123
			18:COM5	-	-	22:COM9	22:COM9	22:COM9
	4821	-ve	1.904	1.819	0.230	0.193	0.207	3.905
			24:COM1	20:COM7	20:COM7	28:COM1	20:COM7	28:COM1
			-16.543	-0.761	0.000	-0.335	0.000	-20.260
			18:COM5	30:COM1	-	22:COM9	-	22:COM9
11662	4814	+ve	0.642	6.477	0.307	1.604	0.000	9.737
			24:COM1	34:CVOL3	34:CVOL3	20:COM7	-	20:COM7
			-19.774	0.000	0.000	-0.375	-0.340	-8.836
			18:COM5	-	-	30:COM1	22:COM9	30:COM1
	4813	-ve	0.642	4.237	0.307	1.604	0.308	7.382
			24:COM1	20:COM7	34:CVOL3	20:COM7	34:CVOL3	28:COM1
			-19.774	0.000	0.000	-0.375	0.000	-19.022
			18:COM5	-	-	30:COM1	-	22:COM9
11663	4815	+ve	0.000	11.341	0.394	1.110	0.020	21.307
			-	34:CVOL3	20:COM7	20:COM7	28:COM1	20:COM7
			-21.770	0.000	-0.023	-0.067	-0.378	0.000
			18:COM5	-	30:COM1	30:COM1	22:COM9	-
	4814	-ve	0.000	8.761	0.394	1.110	0.392	9.341
			-	34:CVOL3	20:COM7	20:COM7	20:COM7	28:COM1
			-21.770	0.000	-0.023	-0.067	-0.025	-8.895
			18:COM5	-	30:COM1	30:COM1	30:COM1	22:COM9

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
11664	4817	+ve	0.636	3.424	0.044	0.688	0.037	0.000
			24:COM1	16:COM3	28:COM1	16:COM3	28:COM1	-
			-1.961	0.000	-0.042	0.000	-0.043	-5.682
			18:COM5	-	22:COM9	-	22:COM9	34:CVOL
	4915	-ve	0.636	1.872	0.044	0.688	0.038	0.000
			24:COM1	16:COM3	28:COM1	16:COM3	28:COM1	-
			-1.961	-0.557	-0.042	0.000	-0.042	-9.529
			18:COM5	26:COM1	22:COM9	-	22:COM9	34:CVOL
11665	4818	+ve	1.115	9.502	0.031	0.357	0.054	10.474
			24:COM1	34:CVOL	28:COM1	16:COM3	20:COM7	16:COM3
			-4.939	0.000	-0.064	-0.283	-0.024	0.000
			18:COM5	-	22:COM9	26:COM1	30:COM1	-
	4817	-ve	1.115	7.028	0.031	0.357	0.034	0.000
			24:COM1	16:COM3	28:COM1	16:COM3	28:COM1	-
			-4.939	0.000	-0.064	-0.283	-0.066	-5.806
			18:COM5	-	22:COM9	26:COM1	22:COM9	34:CVOL
11666	4819	+ve	1.419	0.000	0.067	0.919	0.000	9.858
			24:COM1	-	20:COM7	20:COM7	-	20:COM7
			-11.697	-14.018	-0.005	0.000	-0.054	-4.652
			18:COM5	22:COM9	30:COM1	-	22:COM9	30:COM1
	4723	-ve	1.419	0.000	0.067	0.919	0.080	39.235
			24:COM1	-	20:COM7	20:COM7	20:COM7	20:COM7
			-11.697	-15.690	-0.005	0.000	-0.012	-0.694
			18:COM5	22:COM9	30:COM1	-	30:COM1	30:COM1
11667	4820	+ve	2.695	1.861	0.043	0.514	0.001	0.000
			24:COM1	28:COM1	16:COM3	28:COM1	24:COM1	-
			-12.076	-9.390	-0.005	-1.424	-0.044	-10.532
			18:COM5	22:COM9	26:COM1	22:COM9	18:COM5	34:CVOL
	4819	-ve	2.695	0.603	0.043	0.514	0.042	9.848
			24:COM1	28:COM1	16:COM3	28:COM1	20:COM7	20:COM7
			-12.076	-11.067	-0.005	-1.424	-0.010	-4.334
			18:COM5	22:COM9	26:COM1	22:COM9	30:COM1	30:COM1
11668	4821	+ve	2.702	3.196	0.089	0.370	0.014	3.682
			24:COM1	28:COM1	20:COM7	28:COM1	28:COM1	28:COM1
			-14.191	-4.105	-0.014	-1.432	-0.109	-20.290
			18:COM5	22:COM9	30:COM1	22:COM9	22:COM9	22:COM9
	4820	-ve	2.702	1.939	0.089	0.370	0.068	0.000
			24:COM1	28:COM1	20:COM7	28:COM1	20:COM7	-
			-14.191	-5.782	-0.014	-1.432	-0.014	-10.498
			18:COM5	22:COM9	30:COM1	22:COM9	30:COM1	22:COM9
11669	4796	+ve	0.000	0.912	0.000	0.000	0.123	0.282
			-	24:COM1	-	-	35:CVOL4	24:COM1
			-5.400	-2.830	-0.198	-0.261	0.000	-1.161
			18:COM5	18:COM5	35:CVOL4	35:CVOL4	-	18:COM5
	4776	-ve	0.000	0.000	0.000	0.000	0.000	4.045
			-	-	-	-	-	16:COM3
			-5.400	-5.496	-0.198	-0.261	-0.124	-0.078
			18:COM5	18:COM5	35:CVOL4	35:CVOL4	35:CVOL4	26:COM1

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
11670	4795	+ve	0.208	1.426	0.000	0.000	0.111	0.364
			24:COM1	16:COM3	-	-	16:COM3	16:COM3
			-2.146	-0.372	-0.172	-0.196	0.000	-0.146
			18:COM5	26:COM1	18:COM5	22:COM9	-	26:COM1
	4775	-ve	0.208	0.000	0.000	0.000	0.000	1.414
			24:COM1	-	-	-	-	16:COM3
			-2.146	-2.475	-0.172	-0.196	-0.103	-0.067
			18:COM5	18:COM5	18:COM5	22:COM9	18:COM5	26:COM1
11671	4794	+ve	0.561	2.218	0.032	0.016	0.059	0.594
			35:CVOL4	35:CVOL4	24:COM1	24:COM1	16:COM3	35:CVOL4
			-0.460	0.000	-0.089	-0.087	-0.021	0.000
			26:COM1	-	18:COM5	18:COM5	26:COM1	-
	4774	-ve	0.561	0.000	0.032	0.016	0.018	0.354
			35:CVOL4	-	24:COM1	24:COM1	24:COM1	32:CVOL1
			-0.460	-1.143	-0.089	-0.087	-0.053	-0.136
			26:COM1	18:COM5	18:COM5	18:COM5	18:COM5	35:CVOL4
11672	4793	+ve	0.795	2.218	0.099	0.096	0.022	0.588
			16:COM3	35:CVOL4	16:COM3	16:COM3	24:COM1	35:CVOL4
			-0.857	0.000	-0.033	-0.017	-0.065	0.000
			26:COM1	-	26:COM1	26:COM1	18:COM5	-
	4773	-ve	0.795	0.000	0.099	0.096	0.059	0.447
			16:COM3	-	16:COM3	16:COM3	16:COM3	24:COM1
			-0.857	-1.253	-0.033	-0.017	-0.019	-0.196
			26:COM1	18:COM5	26:COM1	26:COM1	26:COM1	18:COM5
11673	4792	+ve	1.094	1.963	0.189	0.204	0.002	0.524
			24:COM1	16:COM3	16:COM3	16:COM3	24:COM1	16:COM3
			-3.058	-0.941	-0.001	0.000	-0.122	-0.333
			18:COM5	26:COM1	26:COM1	-	18:COM5	26:COM1
	4772	-ve	1.094	0.107	0.189	0.204	0.114	1.892
			24:COM1	24:COM1	16:COM3	16:COM3	16:COM3	16:COM3
			-3.058	-3.001	-0.001	0.000	0.000	-0.531
			18:COM5	18:COM5	26:COM1	-	-	26:COM1
11674	4791	+ve	1.348	2.119	0.212	0.259	0.000	0.748
			24:COM1	24:COM1	35:CVOL4	35:CVOL4	-	24:COM1
			-6.915	-4.016	0.000	0.000	-0.132	-1.650
			18:COM5	18:COM5	-	-	35:CVOL4	18:COM5
	4771	-ve	1.348	0.869	0.212	0.259	0.133	5.041
			24:COM1	24:COM1	35:CVOL4	35:CVOL4	35:CVOL4	16:COM3
			-6.915	-6.683	0.000	0.000	0.000	-1.121
			18:COM5	18:COM5	-	-	-	26:COM1
11675	4802	+ve	0.959	1.871	0.000	0.000	0.120	0.642
			24:COM1	24:COM1	-	-	35:CVOL4	24:COM1
			-7.588	-4.694	-0.192	-0.249	0.000	-1.877
			18:COM5	18:COM5	35:CVOL4	35:CVOL4	-	18:COM5
	4782	-ve	0.959	0.621	0.000	0.000	0.000	5.660
			24:COM1	24:COM1	-	-	-	16:COM3
			-7.588	-7.360	-0.192	-0.249	-0.120	-0.917
			18:COM5	18:COM5	35:CVOL4	35:CVOL4	35:CVOL4	26:COM1

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
11676	4800	+ve	0.651	2.220	0.026	0.030	0.058	0.591
			16:COM3	35:CVOL4	28:COM15	24:COM11	16:COM3	35:CVOL4
			-0.793	0.000	-0.088	-0.102	-0.018	0.000
			26:COM13	-	22:COM9	18:COM5	26:COM13	-
	4780	-ve	0.651	0.000	0.026	0.030	0.015	0.444
			16:COM3	-	28:COM15	24:COM11	28:COM15	24:COM11
			-0.793	-1.231	-0.088	-0.102	-0.052	-0.193
			26:COM13	18:COM5	22:COM9	18:COM5	22:COM9	18:COM5
11677	4799	+ve	0.790	2.278	0.090	0.104	0.014	0.612
			20:COM7	35:CVOL4	16:COM3	16:COM3	24:COM11	35:CVOL4
			-0.785	0.000	-0.021	-0.024	-0.059	0.000
			30:COM17	-	26:COM13	26:COM13	18:COM5	-
	4779	-ve	0.790	0.000	0.090	0.104	0.054	0.363
			20:COM7	-	16:COM3	16:COM3	20:COM7	24:COM11
			-0.785	-1.158	-0.021	-0.024	-0.012	-0.195
			30:COM17	18:COM5	26:COM13	26:COM13	30:COM17	35:CVOL4
11678	4798	+ve	0.659	1.680	0.178	0.211	0.000	0.464
			24:COM11	16:COM3	16:COM3	16:COM3	-	16:COM3
			-2.692	-0.671	0.000	0.000	-0.116	-0.260
			18:COM5	26:COM13	-	-	18:COM5	26:COM13
	4778	-ve	0.659	0.000	0.178	0.211	0.106	1.631
			24:COM11	-	16:COM3	16:COM3	16:COM3	16:COM3
			-2.692	-2.727	0.000	0.000	0.000	-0.240
			18:COM5	18:COM5	-	-	-	26:COM13
11679	4797	+ve	0.401	1.314	0.207	0.267	0.000	0.451
			24:COM11	24:COM11	35:CVOL4	35:CVOL4	-	24:COM11
			-6.309	-3.532	0.000	0.000	-0.129	-1.433
			18:COM5	18:COM5	-	-	34:CVOL3	18:COM5
	4777	-ve	0.401	0.065	0.207	0.267	0.129	4.652
			24:COM11	24:COM11	35:CVOL4	35:CVOL4	35:CVOL4	16:COM3
			-6.309	-6.198	0.000	0.000	0.000	-0.413
			18:COM5	18:COM5	-	-	-	26:COM13
11680	4801	+ve	0.815	1.778	0.000	0.000	0.117	0.455
			24:COM11	16:COM3	-	-	16:COM3	16:COM3
			-3.357	-1.074	-0.179	-0.210	0.000	-0.363
			18:COM5	26:COM13	18:COM5	18:COM5	-	26:COM13
	4781	-ve	0.815	0.002	0.000	0.000	0.000	2.106
			24:COM11	24:COM11	-	-	-	16:COM3
			-3.357	-3.215	-0.179	-0.210	-0.108	-0.444
			18:COM5	18:COM5	18:COM5	18:COM5	22:COM9	26:COM13
11681	4805	+ve	2.624	2.788	0.069	0.117	0.080	0.914
			24:COM11	24:COM11	24:COM11	24:COM11	16:COM3	24:COM11
			-6.559	-3.607	-0.125	-0.165	-0.042	-1.425
			18:COM5	18:COM5	18:COM5	18:COM5	26:COM13	18:COM5
	4788	-ve	2.624	1.538	0.069	0.117	0.044	4.753
			24:COM11	24:COM11	24:COM11	24:COM11	24:COM11	16:COM3
			-6.559	-6.273	-0.125	-0.165	-0.077	-1.791
			18:COM5	18:COM5	18:COM5	18:COM5	18:COM5	26:COM13

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
11682	4804	+ve	2.588	2.187	0.133	0.127	0.102	0.260
			16:COM3	16:COM3	24:COM11	24:COM11	16:COM3	16:COM3
			-3.241	-0.961	-0.158	-0.131	-0.082	-0.228
			26:COM13	26:COM13	18:COM5	18:COM5	26:COM13	26:COM13
	4787	-ve	2.588	0.285	0.133	0.127	0.085	1.914
			16:COM3	24:COM11	24:COM11	24:COM11	24:COM11	16:COM3
			-3.241	-2.975	-0.158	-0.131	-0.095	-0.967
			26:COM13	18:COM5	18:COM5	18:COM5	18:COM5	26:COM13
11683	4803	+ve	1.723	1.939	0.078	0.037	0.056	0.350
			16:COM3	35:CVOL4	24:COM11	24:COM11	16:COM3	16:COM3
			-0.811	0.000	-0.090	-0.028	-0.049	-0.201
			26:COM13	-	18:COM5	18:COM5	26:COM13	26:COM13
	4786	-ve	1.723	0.000	0.078	0.037	0.048	0.379
			16:COM3	-	24:COM11	24:COM11	24:COM11	24:COM11
			-0.811	-1.350	-0.090	-0.028	-0.057	-0.192
			26:COM13	34:CVOL3	18:COM5	18:COM5	18:COM5	18:COM5
11684	4758	+ve	2.795	11.687	0.000	0.030	0.154	19.094
			34:CVOL3	34:CVOL3	-	28:COM15	34:CVOL3	34:CVOL3
			0.000	0.000	-0.084	-0.095	0.000	0.000
			-	-	34:CVOL3	22:COM9	-	-
	4905	-ve	2.795	0.000	0.000	0.030	0.000	0.000
			34:CVOL3	-	-	28:COM15	-	-
			0.000	-2.748	-0.084	-0.095	-0.192	-0.614
			-	35:CVOL4	34:CVOL3	22:COM9	34:CVOL3	34:CVOL3
11685	4759	+ve	2.389	11.309	0.000	0.020	0.087	19.159
			20:COM7	34:CVOL3	-	28:COM15	16:COM3	34:CVOL3
			0.000	0.000	-0.047	-0.053	0.000	0.000
			-	-	18:COM5	22:COM9	-	-
	4906	-ve	2.389	0.000	0.000	0.020	0.000	1.036
			20:COM7	-	-	28:COM15	-	34:CVOL3
			0.000	-3.094	-0.047	-0.053	-0.107	0.000
			-	35:CVOL4	18:COM5	22:COM9	18:COM5	-
11686	4756	+ve	0.103	10.402	0.010	0.882	0.018	23.169
			24:COM11	34:CVOL3	24:COM11	16:COM3	16:COM3	16:COM3
			-1.163	0.000	-0.009	-0.016	-0.020	0.000
			18:COM5	-	18:COM5	26:COM13	26:COM13	-
	4901	-ve	0.103	1.529	0.010	0.882	0.020	1.391
			24:COM11	24:COM11	24:COM11	16:COM3	24:COM11	16:COM3
			-1.163	-2.004	-0.009	-0.016	-0.020	-0.431
			18:COM5	18:COM5	18:COM5	26:COM13	18:COM5	26:COM13
11687	4822	+ve	0.000	12.005	0.000	0.794	0.414	29.587
			-	34:CVOL3	-	20:COM7	34:CVOL3	20:COM7
			-14.267	0.000	-0.358	-0.112	0.000	0.000
			22:COM9	-	22:COM9	30:COM11	-	-
	4823	-ve	0.000	10.329	0.000	0.794	0.000	8.196
			-	34:CVOL3	-	20:COM7	-	20:COM7
			-14.267	0.000	-0.358	-0.112	-0.308	-1.651
			22:COM9	-	22:COM9	30:COM11	22:COM9	30:COM11

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
11688	4823	+ve	0.000	8.784	0.000	0.525	0.237	8.158
			-	20:COM7	-	20:COM7	16:COM3	20:COM7
			-8.686	0.000	-0.214	0.000	0.000	-1.768
			22:COM9	-	34:CVOL3	-	-	30:COM1
	4824	-ve	0.000	7.107	0.000	0.525	0.000	0.000
			-	20:COM7	-	20:COM7	-	-
			-8.686	0.000	-0.214	0.000	-0.189	-11.466
			22:COM9	-	34:CVOL3	-	34:CVOL3	35:CVOL4
11689	4824	+ve	0.000	4.823	0.000	0.329	0.136	0.000
			-	20:COM7	-	16:COM3	34:CVOL3	-
			-6.438	0.000	-0.118	-0.062	0.000	-11.544
			22:COM9	-	34:CVOL3	26:COM1	-	35:CVOL4
	4825	-ve	0.000	3.147	0.000	0.329	0.000	0.000
			-	20:COM7	-	16:COM3	-	-
			-6.438	-0.829	-0.118	-0.062	-0.098	-16.606
			22:COM9	30:COM1	34:CVOL3	26:COM1	34:CVOL3	35:CVOL4
11690	4825	+ve	0.428	0.924	0.000	0.352	0.058	0.000
			28:COM1	28:COM1	-	28:COM1	20:COM7	-
			-5.308	-1.931	-0.046	-0.436	0.000	-16.616
			22:COM9	22:COM9	22:COM9	22:COM9	-	35:CVOL4
	4826	-ve	0.428	0.000	0.000	0.352	0.007	0.000
			28:COM1	-	-	28:COM1	28:COM1	-
			-5.308	-3.608	-0.046	-0.436	-0.038	-14.587
			22:COM9	22:COM9	22:COM9	22:COM9	22:COM9	22:COM9
11691	4826	+ve	1.134	0.000	0.009	0.294	0.032	0.000
			28:COM1	-	24:COM1	28:COM1	16:COM3	-
			-5.644	-5.739	-0.027	-0.655	-0.003	-14.663
			22:COM9	35:CVOL4	18:COM5	22:COM9	26:COM1	22:COM9
	4827	-ve	1.134	0.000	0.009	0.294	0.015	5.943
			28:COM1	-	24:COM1	28:COM1	24:COM1	20:COM7
			-5.644	-7.415	-0.027	-0.655	-0.021	-5.056
			22:COM9	35:CVOL4	18:COM5	22:COM9	18:COM5	30:COM1
11692	4827	+ve	2.556	0.000	0.015	0.000	0.123	6.070
			28:COM1	-	24:COM1	-	16:COM3	20:COM7
			-9.993	-9.234	-0.138	-0.704	-0.002	-5.122
			22:COM9	35:CVOL4	18:COM5	18:COM5	26:COM1	30:COM1
	4710	-ve	2.556	0.000	0.015	0.000	0.028	22.324
			28:COM1	-	24:COM1	-	24:COM1	20:COM7
			-9.993	-10.908	-0.138	-0.704	-0.151	0.000
			22:COM9	35:CVOL4	18:COM5	18:COM5	18:COM5	-
11696	4832	+ve	14.416	2.856	0.031	0.112	0.029	0.000
			24:COM1	16:COM3	20:COM7	24:COM1	24:COM1	-
			-15.158	-1.270	-0.031	-0.671	-0.031	-23.295
			18:COM5	26:COM1	30:COM1	18:COM5	18:COM5	34:CVOL3
	4833	-ve	14.416	0.815	0.031	0.112	0.037	0.000
			24:COM1	24:COM1	20:COM7	24:COM1	20:COM7	-
			-15.158	-3.929	-0.031	-0.671	-0.038	-21.952
			18:COM5	18:COM5	30:COM1	18:COM5	30:COM1	34:CVOL3

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
11697	4833	+ve	13.779	0.000	0.041	0.122	0.036	0.000
			24:COM1	-	20:COM7	24:COM1	24:COM1	-
			-14.825	-6.516	-0.040	-0.387	-0.037	-22.088
			18:COM5	18:COM5	30:COM1	18:COM5	18:COM5	34:CVOL
	4834	-ve	13.779	0.000	0.041	0.122	0.047	0.920
			24:COM1	-	20:COM7	24:COM1	20:COM7	24:COM1
			-14.825	-9.202	-0.040	-0.387	-0.047	-11.972
			18:COM5	18:COM5	30:COM1	18:COM5	30:COM1	18:COM5
11698	4834	+ve	12.188	0.000	0.108	0.433	0.062	0.932
			24:COM1	-	16:COM3	35:CVOL	24:COM1	24:COM1
			-13.902	-12.158	-0.071	-0.098	-0.092	-12.059
			18:COM5	34:CVOL3	26:COM1	32:CVOL1	18:COM5	18:COM5
	4835	-ve	12.188	0.000	0.108	0.433	0.121	24.315
			24:COM1	-	16:COM3	35:CVOL	16:COM3	16:COM3
			-13.902	-15.781	-0.071	-0.098	-0.079	0.000
			18:COM5	34:CVOL3	26:COM1	32:CVOL1	26:COM1	-
11699	4836	+ve	0.000	0.000	1.301	0.087	0.000	20.521
			-	-	34:CVOL3	28:COM1	-	34:CVOL3
			-17.721	-6.652	0.000	-0.578	-1.082	0.000
			22:COM9	34:CVOL3	-	22:COM9	34:CVOL3	-
	4837	-ve	0.000	0.000	1.301	0.087	1.042	32.511
			-	-	34:CVOL3	28:COM1	34:CVOL3	34:CVOL3
			-17.721	-8.033	0.000	-0.578	0.000	0.000
			22:COM9	34:CVOL3	-	22:COM9	-	-
11700	4837	+ve	0.000	0.000	0.000	0.000	0.203	32.632
			-	-	-	-	34:CVOL3	34:CVOL3
			-21.206	-9.606	-0.743	-1.397	0.000	0.000
			22:COM9	34:CVOL3	34:CVOL3	22:COM9	-	-
	4711	-ve	0.000	0.000	0.000	0.000	0.000	49.396
			-	-	-	-	-	34:CVOL3
			-21.206	-10.982	-0.743	-1.397	-1.006	0.000
			22:COM9	34:CVOL3	34:CVOL3	22:COM9	34:CVOL3	-
11701	4836	+ve	2.345	0.000	0.189	0.208	0.000	0.089
			34:CVOL3	-	34:CVOL3	20:COM7	-	28:COM1
			0.000	-1.220	0.000	-0.014	-0.303	-0.197
			-	32:CVOL1	-	30:COM1	34:CVOL3	22:COM9
	4789	-ve	2.345	0.000	0.189	0.208	0.273	16.299
			34:CVOL3	-	34:CVOL3	20:COM7	34:CVOL3	34:CVOL3
			0.000	-10.043	0.000	-0.014	0.000	0.000
			-	34:CVOL3	-	30:COM1	-	-
11702	4837	+ve	0.000	1.639	0.100	0.172	0.000	0.000
			-	35:CVOL4	34:CVOL3	20:COM7	-	-
			-6.902	0.000	0.000	-0.018	-0.163	-0.356
			35:CVOL4	-	-	30:COM1	34:CVOL3	22:COM9
	4790	-ve	0.000	0.000	0.100	0.172	0.140	8.656
			-	-	34:CVOL3	20:COM7	34:CVOL3	34:CVOL3
			-6.902	-7.367	0.000	-0.018	0.000	0.000
			35:CVOL4	34:CVOL3	-	30:COM1	-	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
11703	4838	+ve	2.086	8.638	0.055	0.095	0.046	11.188
			28:COM15	24:COM11	24:COM11	24:COM11	16:COM3	34:CVOL3
			-3.711	-8.788	-0.054	-0.555	-0.044	0.000
			22:COM9	18:COM5	18:COM5	18:COM5	26:COM13	-
	5515	-ve	2.086	7.232	0.055	0.095	0.068	29.669
			28:COM15	24:COM11	24:COM11	24:COM11	16:COM3	16:COM3
			-3.711	-10.662	-0.054	-0.555	-0.063	-10.961
			22:COM9	18:COM5	18:COM5	18:COM5	26:COM13	26:COM13
11705	4838	+ve	0.267	2.129	0.112	0.113	0.115	0.801
			28:COM15	16:COM3	24:COM11	24:COM11	16:COM3	16:COM3
			-1.335	0.000	-0.183	-0.202	-0.070	0.000
			22:COM9	-	18:COM5	18:COM5	26:COM13	-
	4807	-ve	0.267	0.220	0.112	0.113	0.069	0.653
			28:COM15	24:COM11	24:COM11	24:COM11	24:COM11	16:COM3
			-1.335	-1.548	-0.183	-0.202	-0.114	-0.467
			22:COM9	35:CVOL4	18:COM5	18:COM5	18:COM5	26:COM13
11706	5515	+ve	2.065	6.965	0.305	23.633	0.000	0.660
			28:COM15	24:COM11	24:COM11	16:COM3	-	24:COM11
			-2.399	-17.626	-0.049	-3.309	-0.196	-0.930
			22:COM9	18:COM5	18:COM5	26:COM13	32:CVOL1	18:COM5
	5474	-ve	2.065	4.847	0.305	23.633	0.264	23.384
			28:COM15	24:COM11	24:COM11	16:COM3	28:COM15	16:COM3
			-2.399	-21.445	-0.049	-3.309	-0.191	-6.693
			22:COM9	18:COM5	18:COM5	26:COM13	22:COM9	26:COM13
11707	4840	+ve	55.072	0.000	0.000	4.717	8.797	16.791
			34:CVOL3	-	-	34:CVOL3	34:CVOL3	34:CVOL3
			0.000	-42.828	-9.239	-1.850	0.000	0.000
			-	34:CVOL3	34:CVOL3	30:COM17	-	-
	4841	-ve	55.072	0.000	0.000	4.717	0.000	104.490
			34:CVOL3	-	-	34:CVOL3	-	34:CVOL3
			0.000	-46.886	-9.239	-1.850	-9.265	0.000
			-	34:CVOL3	34:CVOL3	30:COM17	34:CVOL3	-
11708	4841	+ve	130.165	0.000	0.000	6.942	9.362	88.751
			34:CVOL3	-	-	34:CVOL3	34:CVOL3	34:CVOL3
			0.000	-68.828	-10.143	-1.939	0.000	0.000
			-	34:CVOL3	34:CVOL3	30:COM17	-	-
	4758	-ve	130.165	0.000	0.000	6.942	0.000	227.320
			34:CVOL3	-	-	34:CVOL3	-	34:CVOL3
			0.000	-72.888	-10.143	-1.939	-10.474	0.000
			-	34:CVOL3	34:CVOL3	30:COM17	34:CVOL3	-
11709	4842	+ve	40.275	32.712	8.673	1.114	0.000	63.340
			34:CVOL3	34:CVOL3	34:CVOL3	28:COM15	-	34:CVOL3
			0.000	0.000	0.000	-4.022	-9.157	0.000
			-	-	-	22:COM9	34:CVOL3	-
	4843	-ve	40.275	29.330	8.673	1.114	7.798	4.008
			34:CVOL3	34:CVOL3	34:CVOL3	28:COM15	34:CVOL3	32:CVOL1
			0.000	0.000	0.000	-4.022	0.000	-1.305
			-	-	-	22:COM9	-	35:CVOL4

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
11710	4842	+ve	1.062	8.297	0.010	0.033	0.000	8.453
			20:COM7	35:CVOL4	20:COM7	28:COM15	-	35:CVOL4
			-0.089	0.000	0.000	-0.096	-0.039	0.000
			30:COM17	-	-	22:COM9	22:COM9	-
	4841	-ve	1.062	0.000	0.010	0.033	0.021	17.314
			20:COM7	-	20:COM7	28:COM15	20:COM7	34:CVOL3
			-0.089	-10.996	0.000	-0.096	-0.005	0.000
			30:COM17	34:CVOL3	-	22:COM9	30:COM17	-
11711	4843	+ve	9.328	15.163	10.663	3.902	0.000	8.978
			34:CVOL3	34:CVOL3	34:CVOL3	20:COM7	-	34:CVOL3
			0.000	0.000	0.000	-1.053	-5.001	0.000
			-	-	-	30:COM17	34:CVOL3	-
	4717	-ve	9.328	13.806	10.663	3.902	3.366	0.000
			34:CVOL3	34:CVOL3	34:CVOL3	20:COM7	34:CVOL3	-
			0.000	0.000	0.000	-1.053	0.000	-2.387
			-	-	-	30:COM17	-	34:CVOL3
11712	4843	+ve	0.000	8.675	0.004	0.024	0.000	8.566
			-	35:CVOL4	20:COM7	28:COM15	-	35:CVOL4
			-6.359	0.000	0.000	-0.041	-0.015	0.000
			34:CVOL3	-	-	22:COM9	22:COM9	-
	4840	-ve	0.000	0.000	0.004	0.024	0.009	11.598
			-	-	20:COM7	28:COM15	20:COM7	34:CVOL3
			-6.359	-9.621	0.000	-0.041	-0.002	0.000
			34:CVOL3	34:CVOL3	-	22:COM9	30:COM17	-
11713	4844	+ve	0.967	24.699	0.074	2.907	0.224	64.746
			28:COM15	34:CVOL3	24:COM11	16:COM3	20:COM7	34:CVOL3
			-2.047	0.000	-0.231	-0.431	-0.035	0.000
			22:COM9	-	18:COM5	26:COM13	30:COM17	-
	4845	-ve	0.967	22.424	0.074	2.907	0.129	18.259
			28:COM15	34:CVOL3	24:COM11	16:COM3	24:COM11	34:CVOL3
			-2.047	0.000	-0.231	-0.431	-0.250	0.000
			22:COM9	-	18:COM5	26:COM13	18:COM5	-
11714	4845	+ve	1.170	11.055	0.349	0.572	0.045	18.709
			16:COM3	34:CVOL3	20:COM7	32:CVOL1	28:COM15	34:CVOL3
			-1.036	0.000	-0.087	-1.055	-0.356	0.000
			26:COM13	-	30:COM17	35:CVOL4	22:COM9	-
	4721	-ve	1.170	8.779	0.349	0.572	0.333	0.000
			16:COM3	34:CVOL3	20:COM7	32:CVOL1	20:COM7	-
			-1.036	0.000	-0.087	-1.055	-0.127	-1.018
			26:COM13	-	30:COM17	35:CVOL4	30:COM17	32:CVOL1
11715	4846	+ve	3.768	29.619	0.515	0.000	0.448	51.076
			24:COM11	34:CVOL3	20:COM7	-	20:COM7	34:CVOL3
			-3.735	0.000	-0.347	-13.950	-0.303	0.000
			18:COM5	-	30:COM17	34:CVOL3	30:COM17	-
	4722	-ve	3.768	27.235	0.515	0.000	0.665	2.105
			24:COM11	34:CVOL3	20:COM7	-	20:COM7	34:CVOL3
			-3.735	0.000	-0.347	-13.950	-0.231	0.000
			18:COM5	-	30:COM17	34:CVOL3	30:COM17	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
11716	4844	+ve	0.000	8.307	0.001	0.173	0.008	6.520
			-	34:CVOL3	24:COM11	16:COM3	16:COM3	35:CVOL4
			-1.664	0.000	-0.003	0.000	-0.004	0.000
			34:CVOL3	-	18:COM5	-	26:COM13	-
	4846	-ve	0.000	0.000	0.001	0.173	0.004	7.137
			-	-	24:COM11	16:COM3	24:COM11	35:CVOL4
			-1.664	-8.506	-0.003	0.000	-0.010	0.000
			34:CVOL3	35:CVOL4	18:COM5	-	18:COM5	-
11717	4845	+ve	5.718	7.770	0.005	0.159	0.000	6.527
			34:CVOL3	35:CVOL4	34:CVOL3	34:CVOL3	-	35:CVOL4
			0.000	0.000	0.000	0.000	-0.017	0.000
			-	-	-	-	22:COM9	-
	4722	-ve	5.718	0.000	0.005	0.159	0.017	8.125
			34:CVOL3	-	34:CVOL3	34:CVOL3	34:CVOL3	35:CVOL4
			0.000	-8.310	0.000	0.000	0.000	0.000
			-	34:CVOL3	-	-	-	-
11718	4847	+ve	0.000	0.000	0.515	0.000	0.000	0.291
			-	-	34:CVOL3	-	-	28:COM15
			-4.725	-3.079	0.000	-0.531	-0.430	-0.194
			34:CVOL3	34:CVOL3	-	35:CVOL4	34:CVOL3	22:COM9
	4848	-ve	0.000	0.000	0.515	0.000	0.576	7.677
			-	-	34:CVOL3	-	34:CVOL3	34:CVOL3
			-4.725	-4.732	0.000	-0.531	0.000	0.000
			34:CVOL3	34:CVOL3	-	35:CVOL4	-	-
11719	4848	+ve	0.000	0.000	0.836	0.000	0.000	7.756
			-	-	34:CVOL3	-	-	34:CVOL3
			-12.614	-5.748	0.000	-0.543	-0.759	0.000
			34:CVOL3	34:CVOL3	-	22:COM9	34:CVOL3	-
	4836	-ve	0.000	0.000	0.836	0.000	0.850	20.395
			-	-	34:CVOL3	-	34:CVOL3	34:CVOL3
			-12.614	-7.376	0.000	-0.543	0.000	0.000
			34:CVOL3	34:CVOL3	-	22:COM9	-	-
11720	4847	+ve	0.000	3.433	0.071	0.081	0.000	0.914
			-	35:CVOL4	34:CVOL3	20:COM7	-	35:CVOL4
			-2.659	0.000	0.000	0.000	-0.108	0.000
			22:COM9	-	-	-	34:CVOL3	-
	4843	-ve	0.000	0.000	0.071	0.081	0.109	4.388
			-	-	34:CVOL3	20:COM7	34:CVOL3	34:CVOL3
			-2.659	-5.641	0.000	0.000	0.000	0.000
			22:COM9	34:CVOL3	-	-	-	-
11721	4848	+ve	0.149	1.163	0.158	0.145	0.000	0.034
			28:COM15	35:CVOL4	34:CVOL3	20:COM7	-	28:COM15
			-0.229	-0.133	0.000	-0.008	-0.251	-0.046
			22:COM9	30:COM17	-	30:COM17	34:CVOL3	22:COM9
	4842	-ve	0.149	0.000	0.158	0.145	0.229	11.030
			28:COM15	-	34:CVOL3	20:COM7	34:CVOL3	34:CVOL3
			-0.229	-8.286	0.000	-0.008	0.000	0.000
			22:COM9	34:CVOL3	-	30:COM17	-	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
11722	4849	+ve	1.302	7.033	0.000	0.436	0.026	22.057
			24:COM1	16:COM3	-	34:CVOL3	16:COM3	34:CVOL3
			-1.989	0.000	-0.044	0.000	0.000	0.000
			18:COM5	-	34:CVOL3	-	-	-
	4850	-ve	1.302	5.167	0.000	0.436	0.000	10.208
			24:COM1	16:COM3	-	34:CVOL3	-	34:CVOL3
			-1.989	0.000	-0.044	0.000	-0.062	0.000
			18:COM5	-	34:CVOL3	-	34:CVOL3	-
11723	4850	+ve	0.483	5.353	0.000	0.218	0.084	10.100
			24:COM1	34:CVOL3	-	34:CVOL3	16:COM3	34:CVOL3
			-0.799	0.000	-0.076	0.000	0.000	0.000
			18:COM5	-	18:COM5	-	-	-
	4720	-ve	0.483	3.134	0.000	0.218	0.000	0.053
			24:COM1	34:CVOL3	-	34:CVOL3	-	24:COM1
			-0.799	0.000	-0.076	0.000	-0.098	-0.073
			18:COM5	-	18:COM5	-	18:COM5	18:COM5
11724	4849	+ve	0.000	0.000	0.043	0.037	0.063	0.000
			-	-	24:COM1	24:COM1	16:COM3	-
			-7.233	-4.715	-0.104	-0.120	-0.030	-1.957
			18:COM5	18:COM5	18:COM5	18:COM5	26:COM1	18:COM5
	4844	-ve	0.000	0.000	0.043	0.037	0.024	5.541
			-	-	24:COM1	24:COM1	24:COM1	16:COM3
			-7.233	-7.362	-0.104	-0.120	-0.066	0.000
			18:COM5	18:COM5	18:COM5	18:COM5	18:COM5	-
11725	4850	+ve	0.000	0.471	0.000	0.000	0.071	0.133
			-	16:COM3	-	-	34:CVOL3	24:COM1
			-4.190	-1.374	-0.106	-0.100	0.000	-0.515
			18:COM5	26:COM1	34:CVOL3	34:CVOL3	-	18:COM5
	4845	-ve	0.000	0.000	0.000	0.000	0.000	2.798
			-	-	-	-	-	16:COM3
			-4.190	-3.995	-0.106	-0.100	-0.061	0.000
			18:COM5	18:COM5	34:CVOL3	34:CVOL3	34:CVOL3	-
11726	4846	+ve	0.019	8.085	0.002	0.620	0.009	8.645
			24:COM1	34:CVOL3	28:COM1	34:CVOL3	20:COM7	34:CVOL3
			-0.829	0.000	-0.004	0.000	-0.006	0.000
			18:COM5	-	22:COM9	-	30:COM1	-
	4902	-ve	0.019	0.000	0.002	0.620	0.003	0.000
			24:COM1	-	28:COM1	34:CVOL3	28:COM1	-
			-0.829	-2.903	-0.004	0.000	-0.006	-2.766
			18:COM5	35:CVOL4	22:COM9	-	22:COM9	34:CVOL3
11727	4841	+ve	0.904	10.945	0.000	0.000	0.153	16.687
			20:COM7	34:CVOL3	-	-	34:CVOL3	34:CVOL3
			0.000	0.000	-0.082	-0.224	0.000	0.000
			-	-	34:CVOL3	34:CVOL3	-	-
	4893	-ve	0.904	0.000	0.000	0.000	0.000	0.000
			20:COM7	-	-	-	-	-
			0.000	-3.017	-0.082	-0.224	-0.177	-0.260
			-	35:CVOL4	34:CVOL3	34:CVOL3	34:CVOL3	34:CVOL3

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
11728	4731	+ve	0.643	8.697	0.008	0.074	0.016	13.922
			16:COM3	34:CVOL3	20:COM7	24:COM1	28:COM1	34:CVOL3
			-0.283	0.000	-0.008	-0.162	-0.015	0.000
			26:COM1	-	30:COM1	18:COM5	22:COM9	-
	4851	-ve	0.643	0.000	0.008	0.074	0.018	0.328
			16:COM3	-	20:COM7	24:COM1	20:COM7	35:CVOL4
			-0.283	-2.905	-0.008	-0.162	-0.019	-0.059
			26:COM1	35:CVOL4	30:COM1	18:COM5	30:COM1	32:CVOL1
11729	4732	+ve	0.580	9.343	0.006	0.037	0.012	16.838
			16:COM3	34:CVOL3	24:COM1	24:COM1	28:COM1	34:CVOL3
			-0.539	0.000	-0.007	-0.207	-0.012	0.000
			26:COM1	-	18:COM5	35:CVOL4	22:COM9	-
	4852	-ve	0.580	0.000	0.006	0.037	0.015	0.534
			16:COM3	-	24:COM1	24:COM1	24:COM1	16:COM3
			-0.539	-2.049	-0.007	-0.207	-0.017	-0.047
			26:COM1	18:COM5	18:COM5	35:CVOL4	18:COM5	26:COM1
11730	4733	+ve	0.249	10.042	0.006	0.062	0.008	22.482
			28:COM1	34:CVOL3	16:COM3	24:COM1	24:COM1	34:CVOL3
			-1.042	0.000	-0.005	-0.204	-0.010	0.000
			22:COM9	-	26:COM1	35:CVOL4	18:COM5	-
	4853	-ve	0.249	0.276	0.006	0.062	0.013	3.110
			28:COM1	24:COM1	16:COM3	24:COM1	16:COM3	34:CVOL3
			-1.042	-1.528	-0.005	-0.204	-0.014	0.000
			22:COM9	18:COM5	26:COM1	35:CVOL4	26:COM1	-
11731	4854	+ve	8.655	29.164	0.066	1.099	0.093	65.407
			24:COM1	34:CVOL3	24:COM1	16:COM3	16:COM3	34:CVOL3
			-12.327	0.000	-0.103	-0.410	-0.051	0.000
			18:COM5	-	18:COM5	26:COM1	26:COM1	-
	4899	-ve	8.655	25.544	0.066	1.099	0.079	12.278
			24:COM1	34:CVOL3	24:COM1	16:COM3	24:COM1	16:COM3
			-12.327	0.000	-0.103	-0.410	-0.111	0.000
			18:COM5	-	18:COM5	26:COM1	18:COM5	-
11732	4679	+ve	4.514	59.293	0.106	18.897	0.412	127.204
			20:COM7	34:CVOL3	28:COM1	24:COM1	16:COM3	34:CVOL3
			-0.961	0.000	-0.216	-24.119	-0.369	0.000
			30:COM1	-	22:COM9	18:COM5	26:COM1	-
	4854	-ve	4.514	51.406	0.106	18.897	0.057	0.404
			20:COM7	34:CVOL3	28:COM1	24:COM1	24:COM1	24:COM1
			-0.961	0.000	-0.216	-24.119	-0.267	-2.186
			30:COM1	-	22:COM9	18:COM5	18:COM5	18:COM5
11733	4810	+ve	1.798	12.605	0.068	0.558	0.060	12.796
			28:COM1	34:CVOL3	24:COM1	32:CVOL1	16:COM3	16:COM3
			-2.988	0.000	-0.064	0.000	-0.068	-6.951
			22:COM9	-	18:COM5	-	26:COM1	26:COM1
	4809	-ve	1.798	8.990	0.068	0.558	0.067	0.000
			28:COM1	16:COM3	24:COM1	32:CVOL1	24:COM1	-
			-2.988	0.000	-0.064	0.000	-0.066	-20.143
			22:COM9	-	18:COM5	-	18:COM5	18:COM5

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
11734	4809	+ve	3.619	7.462	0.070	0.341	0.063	0.000
			28:COM15	16:COM3	16:COM3	16:COM3	24:COM11	-
			-5.452	0.000	-0.063	-0.120	-0.073	-19.999
			22:COM9	-	26:COM13	26:COM13	18:COM5	18:COM5
	4808	-ve	3.619	4.823	0.070	0.341	0.063	0.000
			28:COM15	16:COM3	16:COM3	16:COM3	16:COM3	-
			-5.452	-0.081	-0.063	-0.120	-0.059	-27.093
			22:COM9	26:COM13	26:COM13	26:COM13	26:COM13	34:CVOL3
11735	4808	+ve	5.614	2.770	0.058	0.401	0.063	0.000
			28:COM15	16:COM3	24:COM11	16:COM3	16:COM3	-
			-7.725	-1.108	-0.058	-0.201	-0.064	-27.008
			22:COM9	26:COM13	18:COM5	26:COM13	26:COM13	34:CVOL3
	4851	-ve	5.614	0.489	0.058	0.401	0.052	0.000
			28:COM15	24:COM11	24:COM11	16:COM3	24:COM11	-
			-7.725	-3.623	-0.058	-0.201	-0.055	-25.885
			22:COM9	18:COM5	18:COM5	26:COM13	18:COM5	34:CVOL3
11736	4851	+ve	7.422	0.000	0.055	0.531	0.065	0.000
			28:COM15	-	24:COM11	35:CVOL4	16:COM3	-
			-9.464	-5.386	-0.062	-0.123	-0.062	-25.806
			22:COM9	18:COM5	18:COM5	26:COM13	26:COM13	34:CVOL3
	4852	-ve	7.422	0.000	0.055	0.531	0.048	0.000
			28:COM15	-	24:COM11	35:CVOL4	24:COM11	-
			-9.464	-8.121	-0.062	-0.123	-0.057	-15.168
			22:COM9	34:CVOL3	18:COM5	26:COM13	18:COM5	18:COM5
11737	4852	+ve	8.912	0.000	0.057	0.963	0.056	0.000
			28:COM15	-	16:COM3	35:CVOL4	24:COM11	-
			-10.746	-9.545	-0.053	0.000	-0.063	-15.103
			22:COM9	34:CVOL3	26:COM13	-	18:COM5	18:COM5
	4853	-ve	8.912	0.000	0.057	0.963	0.054	13.513
			28:COM15	-	16:COM3	35:CVOL4	24:COM11	16:COM3
			-10.746	-13.173	-0.053	0.000	-0.053	-0.874
			22:COM9	34:CVOL3	26:COM13	-	18:COM5	26:COM13
11738	4853	+ve	9.623	0.000	0.239	3.824	0.148	13.539
			28:COM15	-	16:COM3	34:CVOL3	24:COM11	16:COM3
			-12.908	-13.882	-0.198	0.000	-0.182	-0.793
			22:COM9	34:CVOL3	26:COM13	-	18:COM5	26:COM13
	4725	-ve	9.623	0.000	0.239	3.824	0.291	40.667
			28:COM15	-	16:COM3	34:CVOL3	16:COM3	32:CVOL1
			-12.908	-17.794	-0.198	0.000	-0.245	0.000
			22:COM9	32:CVOL1	26:COM13	-	26:COM13	-
11739	4804	+ve	8.536	5.513	0.048	0.310	0.100	1.030
			28:COM15	16:COM3	24:COM11	16:COM3	16:COM3	24:COM11
			-9.099	0.000	-0.098	-0.320	-0.038	-9.912
			22:COM9	-	18:COM5	26:COM13	26:COM13	18:COM5
	4803	-ve	8.536	3.682	0.048	0.310	0.058	0.000
			28:COM15	16:COM3	24:COM11	16:COM3	28:COM15	-
			-9.099	-0.179	-0.098	-0.320	-0.096	-13.778
			22:COM9	26:COM13	18:COM5	26:COM13	22:COM9	18:COM5

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
11740	4803	+ve	7.420	2.239	0.061	0.090	0.080	0.000
			28:COM15	16:COM3	24:COM11	28:COM15	16:COM3	-
			-8.287	-0.664	-0.071	-0.113	-0.058	-13.742
			22:COM9	26:COM13	18:COM5	22:COM9	26:COM13	18:COM5
	4829	-ve	7.420	0.618	0.061	0.090	0.066	0.000
			28:COM15	24:COM11	24:COM11	28:COM15	20:COM7	-
			-8.287	-2.249	-0.071	-0.113	-0.065	-13.786
			22:COM9	18:COM5	18:COM5	22:COM9	30:COM17	35:CVOL4
11741	4829	+ve	5.953	0.000	0.085	0.253	0.034	0.000
			28:COM15	-	20:COM7	24:COM11	24:COM11	-
			-6.785	-3.209	-0.026	-0.286	-0.084	-13.776
			22:COM9	22:COM9	30:COM17	18:COM5	18:COM5	35:CVOL4
	4830	-ve	5.953	0.000	0.085	0.253	0.091	0.000
			28:COM15	-	20:COM7	24:COM11	20:COM7	-
			-6.785	-5.041	-0.026	-0.286	-0.023	-8.857
			22:COM9	22:COM9	30:COM17	18:COM5	30:COM17	22:COM9
11742	4830	+ve	3.983	0.000	0.057	0.361	0.016	0.000
			28:COM15	-	16:COM3	24:COM11	24:COM11	-
			-4.998	-5.546	-0.021	-0.512	-0.059	-8.762
			22:COM9	34:CVOL3	26:COM13	18:COM5	18:COM5	22:COM9
	4831	-ve	3.983	0.000	0.057	0.361	0.055	9.706
			28:COM15	-	16:COM3	24:COM11	16:COM3	20:COM7
			-4.998	-7.378	-0.021	-0.512	-0.026	-0.927
			22:COM9	34:CVOL3	26:COM13	18:COM5	26:COM13	30:COM17
11743	4831	+ve	1.883	0.000	0.004	0.725	0.069	9.672
			28:COM15	-	28:COM15	24:COM11	16:COM3	20:COM7
			-4.052	-7.111	-0.080	-0.700	0.000	-0.850
			22:COM9	18:COM5	22:COM9	18:COM5	-	30:COM17
	4715	-ve	1.883	0.000	0.004	0.725	0.013	23.411
			28:COM15	-	28:COM15	24:COM11	28:COM15	20:COM7
			-4.052	-8.944	-0.080	-0.700	-0.093	0.000
			22:COM9	18:COM5	22:COM9	18:COM5	22:COM9	-
11745	4865	+ve	0.272	1.360	0.094	0.083	0.000	0.104
			28:COM15	20:COM7	20:COM7	28:COM15	-	28:COM15
			-0.608	0.000	0.000	-0.151	-0.067	-0.062
			22:COM9	-	-	22:COM9	22:COM9	22:COM9
	4869	-ve	0.272	0.000	0.094	0.083	0.058	0.266
			28:COM15	-	20:COM7	28:COM15	20:COM7	28:COM15
			-0.608	-1.085	0.000	-0.151	0.000	-0.529
			22:COM9	32:CVOL1	-	22:COM9	-	22:COM9
11746	4865	+ve	0.334	0.000	0.030	0.107	0.001	0.049
			24:COM17	-	16:COM3	20:COM7	24:COM11	24:COM17
			-0.753	-1.360	-0.000	-0.125	-0.035	-0.127
			18:COM5	22:COM9	26:COM13	30:COM17	18:COM5	18:COM5
	4872	-ve	0.334	0.000	0.030	0.107	0.033	5.467
			24:COM17	-	16:COM3	20:COM7	16:COM3	20:COM7
			-0.753	-3.507	-0.000	-0.125	0.000	0.000
			18:COM5	33:CVOL2	26:COM13	30:COM17	-	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
11747	4828	+ve	1.851	4.156	0.211	2.812	0.070	7.371
			28:COM15	20:COM7	20:COM7	16:COM3	28:COM15	35:CVOL4
			-4.191	0.000	-0.160	0.000	-0.077	0.000
			22:COM9	-	30:COM17	-	22:COM9	-
	4866	-ve	1.851	3.317	0.211	2.812	0.133	5.073
			28:COM15	20:COM7	20:COM7	16:COM3	20:COM7	16:COM3
			-4.191	0.000	-0.160	0.000	-0.089	0.000
			22:COM9	-	30:COM17	-	30:COM17	-
11748	4866	+ve	2.361	3.317	0.017	0.000	0.075	5.362
			28:COM15	20:COM7	28:COM15	-	20:COM7	16:COM3
			-5.393	0.000	-0.097	-2.212	-0.013	0.000
			22:COM9	-	22:COM9	18:COM5	30:COM17	-
	4868	-ve	2.361	1.941	0.017	0.000	0.014	3.840
			28:COM15	20:COM7	28:COM15	-	28:COM15	16:COM3
			-5.393	-0.526	-0.097	-2.212	-0.083	-2.480
			22:COM9	30:COM17	22:COM9	18:COM5	22:COM9	26:COM13
11749	4867	+ve	6.176	6.777	0.108	2.474	0.144	4.475
			28:COM15	16:COM3	28:COM15	34:CVOL3	20:COM7	24:COM17
			-11.717	-2.285	-0.204	0.000	-0.072	-13.665
			22:COM9	26:COM13	22:COM9	-	30:COM17	18:COM5
	4910	-ve	6.176	5.621	0.108	2.474	0.076	0.000
			28:COM15	16:COM3	28:COM15	34:CVOL3	28:COM15	-
			-11.717	-3.152	-0.204	0.000	-0.135	-11.687
			22:COM9	26:COM13	22:COM9	-	22:COM9	35:CVOL4
11750	4868	+ve	0.382	0.000	0.015	0.029	0.102	0.000
			28:COM15	-	24:COM11	24:COM11	16:COM3	-
			-1.962	-1.745	-0.123	-0.235	-0.011	-2.569
			22:COM9	18:COM5	18:COM5	18:COM5	26:COM13	18:COM5
	4769	-ve	0.382	0.000	0.015	0.029	0.015	3.740
			28:COM15	-	24:COM11	24:COM11	24:COM11	34:CVOL3
			-1.962	-6.040	-0.123	-0.235	-0.103	0.000
			22:COM9	34:CVOL3	18:COM5	18:COM5	18:COM5	-
11751	4868	+ve	3.622	2.559	0.012	0.052	0.028	5.729
			28:COM15	35:CVOL4	28:COM15	24:COM11	20:COM7	16:COM3
			-7.028	0.000	-0.028	-0.650	-0.006	-2.142
			22:COM9	-	22:COM9	18:COM5	30:COM17	26:COM13
	4867	-ve	3.622	0.829	0.012	0.052	0.019	3.967
			28:COM15	35:CVOL4	28:COM15	24:COM11	28:COM15	24:COM11
			-7.028	-0.462	-0.028	-0.650	-0.031	-4.012
			22:COM9	30:COM17	22:COM9	18:COM5	22:COM9	18:COM5
11752	4869	+ve	0.232	3.626	0.011	0.000	0.000	1.188
			28:COM15	20:COM7	20:COM7	-	-	28:COM15
			-2.891	0.000	0.000	-0.524	-0.027	-2.133
			22:COM9	-	-	34:CVOL3	22:COM9	22:COM9
	4912	-ve	0.232	0.000	0.011	0.000	0.020	0.654
			28:COM15	-	20:COM7	-	20:COM7	28:COM15
			-2.891	-3.104	0.000	-0.524	0.000	-3.258
			22:COM9	32:CVOL1	-	34:CVOL3	-	22:COM9

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
11753	4869	+ve	1.204	0.000	0.093	1.941	0.057	0.655
			16:COM3	-	28:COM15	20:COM7	28:COM15	20:COM7
			-0.180	-4.551	-0.120	-1.044	-0.145	-0.896
			26:COM13	33:CVOL2	22:COM9	30:COM17	22:COM9	30:COM17
	4870	-ve	1.204	0.000	0.093	1.941	0.042	10.350
			16:COM3	-	28:COM15	20:COM7	28:COM15	33:CVOL2
			-0.180	-7.030	-0.120	-1.044	-0.180	0.000
			26:COM13	33:CVOL2	22:COM9	30:COM17	22:COM9	-
11754	4871	+ve	2.711	0.000	0.364	1.973	0.723	34.508
			16:COM3	-	28:COM15	28:COM15	20:COM7	35:CVOL4
			-2.032	-27.132	-1.104	-5.116	-0.207	0.000
			26:COM13	35:CVOL4	22:COM9	22:COM9	30:COM17	-
	4693	-ve	2.711	0.000	0.364	1.973	0.471	86.468
			16:COM3	-	28:COM15	28:COM15	28:COM15	35:CVOL4
			-2.032	-29.258	-1.104	-5.116	-1.319	0.000
			26:COM13	35:CVOL4	22:COM9	22:COM9	22:COM9	-
11755	4872	+ve	0.868	0.000	0.060	0.091	0.000	5.530
			24:COM17	-	35:CVOL4	28:COM15	-	20:COM7
			-1.889	-4.868	0.000	-0.344	-0.064	0.000
			18:COM5	18:COM5	-	22:COM9	35:CVOL4	-
	4873	-ve	0.868	0.000	0.060	0.091	0.046	15.615
			24:COM17	-	35:CVOL4	28:COM15	35:CVOL4	16:COM3
			-1.889	-6.579	0.000	-0.344	0.000	0.000
			18:COM5	18:COM5	-	22:COM9	-	-
11756	4873	+ve	1.179	0.000	0.001	0.186	0.061	15.703
			24:COM17	-	24:COM17	24:COM17	16:COM3	16:COM3
			-2.929	-7.085	-0.068	-0.474	-0.006	0.000
			18:COM5	18:COM5	18:COM5	18:COM5	26:COM13	-
	4712	-ve	1.179	0.000	0.001	0.186	0.000	30.177
			24:COM17	-	24:COM17	24:COM17	-	16:COM3
			-2.929	-8.797	-0.068	-0.474	-0.066	0.000
			18:COM5	18:COM5	18:COM5	18:COM5	22:COM9	-
11757	4872	+ve	0.828	1.583	0.058	0.060	0.003	0.295
			16:COM3	16:COM3	20:COM7	20:COM7	28:COM15	16:COM3
			-1.668	-0.379	-0.008	-0.028	-0.038	-0.186
			26:COM13	26:COM13	30:COM17	30:COM17	22:COM9	26:COM13
	4870	-ve	0.828	0.000	0.058	0.060	0.034	1.270
			16:COM3	-	20:COM7	20:COM7	20:COM7	16:COM3
			-1.668	-2.419	-0.008	-0.028	-0.006	-0.218
			26:COM13	18:COM5	30:COM17	30:COM17	30:COM17	26:COM13
11758	4873	+ve	0.000	0.718	0.091	0.109	0.010	0.241
			-	24:COM11	20:COM7	20:COM7	28:COM15	24:COM17
			-5.230	-2.349	-0.016	-0.024	-0.058	-1.005
			18:COM5	18:COM5	30:COM17	30:COM17	22:COM9	18:COM5
	4871	-ve	0.000	0.000	0.091	0.109	0.056	3.599
			-	-	20:COM7	20:COM7	20:COM7	16:COM3
			-5.230	-5.015	-0.016	-0.024	-0.010	0.000
			18:COM5	18:COM5	30:COM17	30:COM17	30:COM17	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
11759	4840	+ve	0.000	12.089	0.473	0.051	0.000	20.442
			-	34:CVOL3	34:CVOL3	28:COM15	-	34:CVOL3
			-10.951	0.000	0.000	-0.263	-0.381	0.000
			34:CVOL3	-	-	34:CVOL3	34:CVOL3	-
	4874	-ve	0.000	6.725	0.473	0.051	0.389	5.117
			-	34:CVOL3	34:CVOL3	28:COM15	34:CVOL3	34:CVOL3
			-10.951	0.000	0.000	-0.263	0.000	0.000
			34:CVOL3	-	-	34:CVOL3	-	-
11760	4874	+ve	0.000	5.243	0.000	0.000	1.593	6.328
			-	34:CVOL3	-	-	34:CVOL3	34:CVOL3
			-15.513	0.000	-1.244	-1.523	0.000	0.000
			34:CVOL3	-	34:CVOL3	34:CVOL3	-	-
	4904	-ve	0.000	0.000	0.000	0.000	0.000	1.459
			-	-	-	-	-	34:CVOL3
			-15.513	-2.045	-1.244	-1.523	-1.646	0.000
			34:CVOL3	35:CVOL4	34:CVOL3	34:CVOL3	34:CVOL3	-
11761	4719	+ve	0.162	1.232	0.141	0.615	0.000	0.702
			28:COM15	33:CVOL2	34:CVOL3	34:CVOL3	-	34:CVOL3
			-0.993	0.000	0.000	0.000	-0.205	0.000
			22:COM9	-	-	-	34:CVOL3	-
	4874	-ve	0.162	0.000	0.141	0.615	0.175	1.636
			28:COM15	-	34:CVOL3	34:CVOL3	34:CVOL3	34:CVOL3
			-0.993	-1.609	0.000	0.000	0.000	0.000
			22:COM9	32:CVOL1	-	-	-	-
11766	4915	+ve	0.276	0.000	0.047	1.625	0.017	0.000
			28:COM15	-	20:COM7	16:COM3	28:COM15	-
			-0.759	-2.093	-0.019	0.000	-0.044	-9.296
			22:COM9	35:CVOL4	30:COM17	-	22:COM9	34:CVOL3
	4816	-ve	0.276	0.000	0.047	1.625	0.045	0.435
			28:COM15	-	20:COM7	16:COM3	20:COM7	24:COM17
			-0.759	-4.580	-0.019	0.000	-0.019	-4.251
			22:COM9	34:CVOL3	30:COM17	-	30:COM17	18:COM5
11769	4870	+ve	1.463	0.000	0.209	2.196	0.019	10.275
			16:COM3	-	20:COM7	20:COM7	28:COM15	33:CVOL2
			-0.726	-13.079	-0.066	-1.653	-0.230	0.000
			26:COM13	35:CVOL4	30:COM17	30:COM17	22:COM9	-
	4871	-ve	1.463	0.000	0.209	2.196	0.162	34.685
			16:COM3	-	20:COM7	20:COM7	20:COM7	35:CVOL4
			-0.726	-15.204	-0.066	-1.653	-0.109	0.000
			26:COM13	35:CVOL4	30:COM17	30:COM17	30:COM17	-
11793	4856	+ve	6.173	28.815	0.322	0.000	0.570	49.716
			20:COM7	34:CVOL3	28:COM15	-	20:COM7	34:CVOL3
			-2.620	0.000	-0.444	-32.708	-0.464	0.000
			30:COM17	-	22:COM9	18:COM5	30:COM17	-
	4724	-ve	6.173	20.836	0.322	0.000	0.305	0.000
			20:COM7	34:CVOL3	28:COM15	-	28:COM15	-
			-2.620	0.000	-0.444	-32.708	-0.485	-8.961
			30:COM17	-	22:COM9	18:COM5	22:COM9	22:COM9

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
11796	5488	+ve	0.000	0.000	0.281	9.971	0.572	0.000
			-	-	24:COM11	16:COM3	16:COM3	-
			-8.787	-20.320	-0.454	-2.681	-0.469	-13.019
			22:COM9	18:COM5	18:COM5	26:COM13	26:COM13	18:COM5
	5558	-ve	0.000	0.000	0.281	9.971	0.170	28.783
			-	-	24:COM11	16:COM3	24:COM11	16:COM3
			-8.787	-25.787	-0.454	-2.681	-0.378	0.000
			22:COM9	18:COM5	18:COM5	26:COM13	18:COM5	-
11797	4902	+ve	0.174	3.646	0.786	0.000	0.184	4.083
			24:COM11	32:CVOL1	24:COM11	-	16:COM3	34:CVOL3
			-0.342	0.000	-1.371	-5.152	-0.040	0.000
			18:COM5	-	18:COM5	34:CVOL3	26:COM13	-
	4894	-ve	0.174	3.312	0.786	0.000	0.141	3.516
			24:COM11	32:CVOL1	24:COM11	-	16:COM3	34:CVOL3
			-0.342	0.000	-1.371	-5.152	-0.119	0.000
			18:COM5	-	18:COM5	34:CVOL3	26:COM13	-
11799	4901	+ve	1.657	0.000	0.020	0.373	0.051	8.361
			28:COM15	-	24:COM11	24:COM11	16:COM3	16:COM3
			-3.517	-7.725	-0.038	-1.601	-0.029	0.000
			22:COM9	18:COM5	18:COM5	18:COM5	26:COM13	-
	5557	-ve	1.657	0.000	0.020	0.373	0.013	26.691
			28:COM15	-	24:COM11	24:COM11	24:COM11	16:COM3
			-3.517	-11.025	-0.038	-1.601	-0.029	0.000
			22:COM9	32:CVOL1	18:COM5	18:COM5	18:COM5	-
11800	4895	+ve	1.198	0.679	0.018	0.000	0.070	0.000
			28:COM15	24:COM11	24:COM11	-	16:COM3	-
			-4.209	-0.840	-0.032	-1.696	-0.038	-5.056
			22:COM9	18:COM5	18:COM5	34:CVOL3	26:COM13	32:CVOL1
	4901	-ve	1.198	0.000	0.018	0.000	0.028	8.565
			28:COM15	-	24:COM11	-	24:COM11	34:CVOL3
			-4.209	-7.228	-0.032	-1.696	-0.048	0.000
			22:COM9	32:CVOL1	18:COM5	34:CVOL3	18:COM5	-
11801	4896	+ve	3.319	0.947	0.056	0.000	0.047	0.000
			24:COM11	24:COM11	24:COM11	-	16:COM3	-
			-7.279	-1.278	-0.062	-1.638	-0.045	-7.975
			18:COM5	18:COM5	18:COM5	18:COM5	26:COM13	22:COM9
	4895	-ve	3.319	0.000	0.056	0.000	0.069	0.000
			24:COM11	-	24:COM11	-	24:COM11	-
			-7.279	-4.058	-0.062	-1.638	-0.080	-4.663
			18:COM5	18:COM5	18:COM5	18:COM5	18:COM5	32:CVOL1
11802	4897	+ve	6.487	0.084	0.244	0.885	0.000	0.000
			24:COM11	24:COM11	34:CVOL3	16:COM3	-	-
			-6.951	-4.219	0.000	-0.393	-0.251	-18.602
			18:COM5	18:COM5	-	26:COM13	34:CVOL3	18:COM5
	4896	-ve	6.487	0.000	0.244	0.885	0.231	0.000
			24:COM11	-	34:CVOL3	16:COM3	34:CVOL3	-
			-6.951	-7.013	0.000	-0.393	0.000	-7.750
			18:COM5	34:CVOL3	-	26:COM13	-	22:COM9

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
11803	4900	+ve	8.741	2.298	0.000	0.237	0.248	0.000
			24:COM1	32:CVOL1	-	24:COM1	16:COM3	-
			-9.241	-1.250	-0.256	-2.155	0.000	-23.172
			18:COM5	35:CVOL4	18:COM5	18:COM5	-	18:COM5
	4897	-ve	8.741	0.000	0.000	0.237	0.000	0.000
			24:COM1	-	-	24:COM1	-	-
			-9.241	-3.649	-0.256	-2.155	-0.258	-18.633
			18:COM5	18:COM5	18:COM5	18:COM5	18:COM5	18:COM5
11804	4898	+ve	9.606	0.000	0.063	0.406	0.061	0.000
			24:COM1	-	20:COM7	24:COM1	28:COM1	-
			-13.123	-6.162	-0.052	-0.472	-0.070	-32.415
			18:COM5	35:CVOL4	30:COM1	35:CVOL4	22:COM9	35:CVOL4
	4900	-ve	9.606	0.000	0.063	0.406	0.067	0.000
			24:COM1	-	20:COM7	24:COM1	20:COM7	-
			-13.123	-8.016	-0.052	-0.472	-0.052	-23.587
			18:COM5	34:CVOL3	30:COM1	35:CVOL4	30:COM1	18:COM5
11805	4899	+ve	8.026	25.296	0.133	4.648	0.123	12.676
			24:COM1	34:CVOL3	16:COM3	16:COM3	24:COM1	16:COM3
			-10.640	0.000	-0.123	0.000	-0.132	0.000
			18:COM5	-	26:COM1	-	18:COM5	-
	4898	-ve	8.026	21.822	0.133	4.648	0.126	0.000
			24:COM1	16:COM3	16:COM3	16:COM3	16:COM3	-
			-10.640	0.000	-0.123	0.000	-0.115	-32.982
			18:COM5	-	26:COM1	-	26:COM1	34:CVOL3
11806	4904	+ve	1.687	0.000	0.000	0.944	0.876	1.886
			16:COM3	-	-	34:CVOL3	34:CVOL3	34:CVOL3
			0.000	-2.045	-2.374	0.000	0.000	0.000
			-	35:CVOL4	34:CVOL3	-	-	-
	4918	-ve	1.687	0.000	0.000	0.944	0.000	3.277
			16:COM3	-	-	34:CVOL3	-	34:CVOL3
			0.000	-2.436	-2.374	0.000	-0.801	0.000
			-	34:CVOL3	34:CVOL3	-	34:CVOL3	-
11807	4906	+ve	0.000	0.000	0.038	1.315	0.163	35.059
			-	-	28:COM1	34:CVOL3	20:COM7	34:CVOL3
			-23.453	-14.583	-0.122	0.000	0.000	0.000
			18:COM5	34:CVOL3	22:COM9	-	-	-
	4726	-ve	0.000	0.000	0.038	1.315	0.085	61.366
			-	-	28:COM1	34:CVOL3	20:COM7	34:CVOL3
			-23.453	-16.798	-0.122	0.000	-0.060	0.000
			18:COM5	34:CVOL3	22:COM9	-	30:COM1	-
11808	4905	+ve	0.000	0.000	0.000	0.282	0.637	15.617
			-	-	-	34:CVOL3	34:CVOL3	34:CVOL3
			-15.856	-9.688	-0.646	-0.010	0.000	0.000
			18:COM5	34:CVOL3	34:CVOL3	30:COM1	-	-
	4906	-ve	0.000	0.000	0.000	0.282	0.000	34.965
			-	-	-	34:CVOL3	-	34:CVOL3
			-15.856	-12.040	-0.646	-0.010	-0.512	0.000
			18:COM5	34:CVOL3	34:CVOL3	30:COM1	34:CVOL3	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
11809	4893	+ve	0.000	0.000	0.000	0.415	0.683	3.782
			-	-	-	34:CVOL3	34:CVOL3	34:CVOL3
			-7.790	-5.370	-0.789	-0.024	0.000	0.000
			18:COM5	35:CVOL4	34:CVOL3	30:COM1	-	-
	4905	-ve	0.000	0.000	0.000	0.415	0.000	15.548
			-	-	-	34:CVOL3	-	34:CVOL3
			-7.790	-7.555	-0.789	-0.024	-0.785	0.000
			18:COM5	34:CVOL3	34:CVOL3	30:COM1	34:CVOL3	-
12017	4909	+ve	11.202	0.000	0.000	0.240	0.107	11.017
			24:COM1	-	-	16:COM3	20:COM7	16:COM3
			-13.777	-6.241	-0.084	0.000	0.000	-8.448
			18:COM5	34:CVOL3	22:COM9	-	-	26:COM1
	4908	-ve	11.202	0.000	0.000	0.240	0.000	24.222
			24:COM1	-	-	16:COM3	-	16:COM3
			-13.777	-8.173	-0.084	0.000	-0.088	0.000
			18:COM5	34:CVOL3	22:COM9	-	22:COM9	-
12018	4910	+ve	8.265	2.281	0.012	0.786	0.048	0.000
			28:COM1	24:COM11	28:COM1	20:COM7	20:COM7	-
			-13.666	-5.871	-0.036	0.000	-0.015	-14.328
			22:COM9	18:COM5	22:COM9	-	30:COM1	35:CVOL4
	4909	-ve	8.265	0.117	0.012	0.786	0.028	11.804
			28:COM1	24:COM11	28:COM1	20:COM7	28:COM1	16:COM3
			-13.666	-8.755	-0.036	0.000	-0.076	-8.094
			22:COM9	18:COM5	22:COM9	-	22:COM9	26:COM1
12019	4908	+ve	2.774	8.107	0.024	0.120	0.042	25.281
			24:COM1	34:CVOL3	16:COM3	24:COM1	24:COM11	34:CVOL3
			-3.902	0.000	-0.015	-1.442	-0.058	0.000
			18:COM5	-	26:COM1	18:COM5	18:COM5	-
	4816	-ve	2.774	6.085	0.024	0.120	0.048	0.585
			24:COM1	34:CVOL3	16:COM3	24:COM1	16:COM3	24:COM1
			-3.902	0.000	-0.015	-1.442	-0.025	-7.951
			18:COM5	-	26:COM1	18:COM5	26:COM1	18:COM5
12021	4911	+ve	1.511	1.541	0.044	0.000	0.040	11.710
			28:COM1	24:COM11	28:COM1	-	20:COM7	20:COM7
			-4.724	-0.258	-0.033	-0.771	-0.022	0.000
			22:COM9	18:COM5	22:COM9	34:CVOL3	30:COM1	-
	4913	-ve	1.511	0.111	0.044	0.000	0.048	11.816
			28:COM1	24:COM11	28:COM1	-	20:COM7	20:COM7
			-4.724	-2.165	-0.033	-0.771	-0.015	0.000
			22:COM9	18:COM5	22:COM9	34:CVOL3	30:COM1	-
12022	4912	+ve	2.244	0.000	0.015	0.000	0.020	0.534
			28:COM1	-	24:COM11	-	16:COM3	28:COM1
			-3.998	-6.907	-0.016	-0.905	-0.022	-3.939
			22:COM9	22:COM9	18:COM5	22:COM9	26:COM1	22:COM9
	4911	-ve	2.244	0.000	0.015	0.000	0.020	22.925
			28:COM1	-	24:COM11	-	24:COM11	20:COM7
			-3.998	-10.623	-0.016	-0.905	-0.024	0.000
			22:COM9	22:COM9	18:COM5	22:COM9	18:COM5	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
12023	4913	+ve	1.165	3.687	0.039	0.000	0.026	11.949
			28:COM1	20:COM7	20:COM7	-	28:COM1	20:COM7
			-4.844	0.000	-0.006	-1.729	-0.070	0.000
			22:COM9	-	30:COM1	18:COM5	22:COM9	-
	4727	-ve	1.165	0.000	0.039	0.000	0.063	11.318
			28:COM1	-	20:COM7	-	20:COM7	16:COM3
			-4.844	-3.439	-0.006	-1.729	0.000	0.000
			22:COM9	22:COM9	30:COM1	18:COM5	-	-
12024	4870	+ve	7.609	5.252	0.000	0.000	0.012	2.799
			20:COM7	35:CVOL4	-	-	20:COM7	20:COM7
			0.000	0.000	-0.007	-0.074	0.000	0.000
			-	-	22:COM9	18:COM5	-	-
	4912	-ve	7.609	0.000	0.000	0.000	0.000	1.021
			20:COM7	-	-	-	-	20:COM7
			0.000	-4.339	-0.007	-0.074	-0.013	-0.515
			-	34:CVOL3	22:COM9	18:COM5	22:COM9	30:COM1
12025	4871	+ve	1.691	7.773	0.000	0.000	0.012	7.061
			16:COM3	35:CVOL4	-	-	20:COM7	35:CVOL4
			-0.478	0.000	-0.004	-0.111	0.000	0.000
			26:COM1	-	22:COM9	18:COM5	-	-
	4914	-ve	1.691	0.000	0.000	0.000	0.000	8.370
			16:COM3	-	-	-	-	34:CVOL3
			-0.478	-8.197	-0.004	-0.111	-0.011	0.000
			26:COM1	34:CVOL3	22:COM9	18:COM5	22:COM9	-
12026	4911	+ve	1.393	0.000	1.604	10.150	0.390	4.942
			16:COM3	-	20:COM7	20:COM7	16:COM3	20:COM7
			-0.172	-11.629	-0.705	0.000	-0.032	0.000
			26:COM1	22:COM9	30:COM1	-	26:COM1	-
	4914	-ve	1.393	0.000	1.604	10.150	1.148	12.491
			16:COM3	-	20:COM7	20:COM7	20:COM7	20:COM7
			-0.172	-12.497	-0.705	0.000	-0.225	0.000
			26:COM1	22:COM9	30:COM1	-	30:COM1	-
12027	4914	+ve	0.600	6.645	0.033	0.000	0.018	7.043
			28:COM1	20:COM7	20:COM7	-	20:COM7	20:COM7
			-1.584	0.000	-0.023	-0.497	-0.017	0.000
			22:COM9	-	30:COM1	34:CVOL3	30:COM1	-
	4913	-ve	0.600	4.603	0.033	0.000	0.026	0.290
			28:COM1	20:COM7	20:COM7	-	20:COM7	28:COM1
			-1.584	0.000	-0.023	-0.497	-0.012	-1.367
			22:COM9	-	30:COM1	34:CVOL3	30:COM1	22:COM9
12028	4914	+ve	4.726	0.000	0.750	11.816	1.191	12.124
			20:COM7	-	28:COM1	34:CVOL3	20:COM7	20:COM7
			-2.350	-26.119	-1.395	0.000	-0.676	0.000
			30:COM1	22:COM9	22:COM9	-	30:COM1	-
	4689	-ve	4.726	0.000	0.750	11.816	0.674	61.271
			20:COM7	-	28:COM1	34:CVOL3	28:COM1	20:COM7
			-2.350	-28.607	-1.395	0.000	-1.318	0.000
			30:COM1	22:COM9	22:COM9	-	22:COM9	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
12030	4910	+ve	2.270	5.509	0.008	0.068	0.021	2.966
			24:COM1	35:CVOL4	28:COM1	28:COM1	20:COM7	16:COM3
			-8.870	0.000	-0.010	-0.050	-0.016	-0.100
			18:COM5	-	22:COM9	22:COM9	30:COM1	26:COM1
	4917	-ve	2.270	0.000	0.008	0.068	0.020	11.010
			24:COM1	-	28:COM1	28:COM1	28:COM1	16:COM3
			-8.870	-8.544	-0.010	-0.050	-0.025	0.000
			18:COM5	34:CVOL3	22:COM9	22:COM9	22:COM9	-
12031	4909	+ve	3.769	3.194	0.000	0.128	0.076	1.073
			24:COM1	24:COM11	-	24:COM1	16:COM3	24:COM1
			-16.765	-3.944	-0.078	-0.263	0.000	-1.752
			18:COM5	18:COM5	18:COM5	18:COM5	-	18:COM5
	4916	-ve	3.769	1.285	0.000	0.128	0.000	10.043
			24:COM1	24:COM11	-	24:COM1	-	16:COM3
			-16.765	-8.401	-0.078	-0.263	-0.074	-3.208
			18:COM5	18:COM5	18:COM5	18:COM5	18:COM5	26:COM1
12032	4916	+ve	9.507	18.028	2.579	13.046	2.862	11.509
			16:COM3	34:CVOL3	28:COM1	16:COM3	20:COM7	16:COM3
			-8.231	0.000	-3.562	-3.084	-2.149	-2.981
			26:COM1	-	22:COM9	26:COM1	30:COM1	26:COM1
	4908	-ve	9.507	16.280	2.579	13.046	1.129	0.000
			16:COM3	34:CVOL3	28:COM1	16:COM3	28:COM1	-
			-8.231	0.000	-3.562	-3.084	-1.658	-18.988
			26:COM1	-	22:COM9	26:COM1	22:COM9	18:COM5
12033	4917	+ve	13.761	17.916	1.027	0.000	0.810	16.775
			24:COM1	24:COM11	16:COM3	-	24:COM11	24:COM1
			-27.755	-32.691	-1.002	-7.238	-1.049	-79.867
			18:COM5	18:COM5	26:COM1	22:COM9	18:COM5	18:COM5
	4916	-ve	13.761	15.954	1.027	0.000	0.964	67.330
			24:COM1	24:COM11	16:COM3	-	24:COM11	24:COM1
			-27.755	-35.307	-1.002	-7.238	-1.154	-98.167
			18:COM5	18:COM5	26:COM1	22:COM9	18:COM5	18:COM5
12034	4917	+ve	0.237	11.043	0.006	0.000	0.004	17.643
			28:COM1	34:CVOL3	16:COM3	-	24:COM11	34:CVOL3
			-0.635	0.000	-0.002	-0.233	-0.013	0.000
			22:COM9	-	26:COM1	34:CVOL3	18:COM5	-
	4915	-ve	0.237	0.000	0.006	0.000	0.013	1.394
			28:COM1	-	16:COM3	-	16:COM3	16:COM3
			-0.635	-3.572	-0.002	-0.233	-0.003	-0.403
			22:COM9	18:COM5	26:COM1	34:CVOL3	26:COM1	26:COM1
12035	4916	+ve	1.041	12.534	0.009	0.152	0.012	27.062
			24:COM1	34:CVOL3	16:COM3	24:COM1	24:COM11	34:CVOL3
			-1.058	0.000	-0.005	-0.581	-0.019	0.000
			18:COM5	-	26:COM1	18:COM5	18:COM5	-
	4816	-ve	1.041	0.150	0.009	0.152	0.020	5.578
			24:COM1	28:COM1	16:COM3	24:COM1	16:COM3	16:COM3
			-1.058	-2.499	-0.005	-0.581	-0.010	-0.583
			18:COM5	35:CVOL4	26:COM1	18:COM5	26:COM1	26:COM1

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
12052	4918	+ve	0.763	0.000	0.000	2.368	0.000	2.454
			20:COM7	-	-	34:CVOL3	-	34:CVOL3
			-0.376	-2.436	-2.853	0.000	-0.801	0.000
			30:COM1	34:CVOL3	34:CVOL3	-	34:CVOL3	-
	4893	-ve	0.763	0.000	0.000	2.368	0.000	2.764
			20:COM7	-	-	34:CVOL3	-	34:CVOL3
			-0.376	-2.599	-2.853	0.000	-1.152	0.000
			30:COM1	34:CVOL3	34:CVOL3	-	34:CVOL3	-
12056	4936	+ve	2.852	63.875	0.858	4.220	0.080	52.004
			28:COM1	20:COM7	16:COM3	16:COM3	28:COM1	20:COM7
			-17.442	-35.243	-0.280	-3.727	-0.653	-24.666
			22:COM9	30:COM1	26:COM1	26:COM1	35:CVOL4	30:COM1
	4943	-ve	2.852	58.670	0.858	4.220	1.149	47.295
			28:COM1	20:COM7	16:COM3	16:COM3	16:COM3	28:COM1
			-17.442	-38.562	-0.280	-3.727	-0.550	-67.476
			22:COM9	30:COM1	26:COM1	26:COM1	26:COM1	22:COM9
12057	4937	+ve	0.000	45.497	0.540	9.008	0.303	37.515
			-	20:COM7	24:COM1	16:COM3	16:COM3	20:COM7
			-15.542	-32.564	-0.513	-7.405	-0.316	-23.115
			18:COM5	30:COM1	18:COM5	26:COM1	26:COM1	30:COM1
	4944	-ve	0.000	40.764	0.540	9.008	0.749	44.387
			-	28:COM1	24:COM1	16:COM3	24:COM1	20:COM7
			-15.542	-36.354	-0.513	-7.405	-0.709	-46.897
			18:COM5	22:COM9	18:COM5	26:COM1	18:COM5	30:COM1
12058	4938	+ve	0.000	77.223	0.122	6.455	0.619	64.185
			-	20:COM7	24:COM1	24:COM1	20:COM7	20:COM7
			-13.718	-43.519	-0.848	-8.502	-0.020	-31.697
			22:COM9	30:COM1	18:COM5	18:COM5	30:COM1	30:COM1
	4945	-ve	0.000	72.018	0.122	6.455	0.230	56.418
			-	20:COM7	24:COM1	24:COM1	24:COM1	28:COM1
			-13.718	-46.838	-0.848	-8.502	-1.046	-81.341
			22:COM9	30:COM1	18:COM5	18:COM5	18:COM5	22:COM9
12061	4929	+ve	9.334	0.000	0.596	4.999	0.462	0.000
			35:CVOL4	-	24:COM1	16:COM3	16:COM3	-
			0.000	-67.201	-0.575	-4.858	-0.437	-45.620
			-	34:CVOL3	18:COM5	26:COM1	26:COM1	22:COM9
	4921	-ve	9.334	0.000	0.596	4.999	0.635	83.581
			35:CVOL4	-	24:COM1	16:COM3	24:COM1	34:CVOL3
			0.000	-72.729	-0.575	-4.858	-0.572	0.000
			-	34:CVOL3	18:COM5	26:COM1	18:COM5	-
12062	4930	+ve	0.906	0.000	0.548	6.875	0.287	4.720
			24:COM1	-	16:COM3	24:COM1	24:COM1	28:COM1
			-6.118	-50.497	-0.451	-14.110	-0.588	-36.778
			34:CVOL3	22:COM9	26:COM1	18:COM5	18:COM5	22:COM9
	4922	-ve	0.906	0.000	0.548	6.875	0.471	58.604
			24:COM1	-	16:COM3	24:COM1	24:COM1	20:COM7
			-6.118	-55.593	-0.451	-14.110	-0.597	0.000
			34:CVOL3	22:COM9	26:COM1	18:COM5	18:COM5	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
12063	4940	+ve	0.776	7.962	0.809	6.875	0.395	8.908
			28:COM15	16:COM3	20:COM7	24:COM17	28:COM15	16:COM3
			-3.269	0.000	-0.442	-10.506	-0.856	0.000
			22:COM9	-	30:COM17	18:COM5	22:COM9	-
	4946	-ve	0.776	2.878	0.809	6.875	0.782	0.518
			28:COM15	24:COM11	20:COM7	24:COM17	16:COM3	20:COM7
			-3.269	-1.081	-0.442	-10.506	-0.526	-1.892
			22:COM9	18:COM5	30:COM17	18:COM5	26:COM13	30:COM17
12064	4931	+ve	4.046	0.000	1.765	4.873	1.845	0.000
			24:COM17	-	24:COM11	16:COM3	24:COM11	-
			-5.574	-23.710	-1.820	-3.652	-1.890	-12.785
			18:COM5	34:CVOL3	18:COM5	26:COM13	18:COM5	34:CVOL3
	4923	-ve	4.046	0.000	1.765	4.873	1.333	34.766
			24:COM17	-	24:COM11	16:COM3	24:COM11	34:CVOL3
			-5.574	-29.238	-1.820	-3.652	-1.478	0.000
			18:COM5	34:CVOL3	18:COM5	26:COM13	18:COM5	-
12066	4932	+ve	0.000	1.255	0.692	4.721	0.363	7.793
			-	28:COM15	16:COM3	16:COM3	24:COM11	28:COM15
			-10.120	-35.603	-0.367	-1.297	-0.488	-28.479
			18:COM5	22:COM9	26:COM13	26:COM13	18:COM5	22:COM9
	5098	-ve	0.000	0.000	0.692	4.721	0.788	41.864
			-	-	16:COM3	16:COM3	16:COM3	20:COM7
			-10.120	-40.821	-0.367	-1.297	-0.315	0.000
			18:COM5	22:COM9	26:COM13	26:COM13	26:COM13	-
12069	4936	+ve	2.099	34.501	1.625	7.320	1.140	117.275
			28:COM15	16:COM3	20:COM7	20:COM7	28:COM15	16:COM3
			-1.708	0.000	-1.076	0.000	-1.802	0.000
			22:COM9	-	30:COM17	-	22:COM9	-
	5018	-ve	2.099	32.223	1.625	7.320	1.410	51.453
			28:COM15	16:COM3	20:COM7	20:COM7	20:COM7	16:COM3
			-1.708	0.000	-1.076	0.000	-0.987	-15.049
			22:COM9	-	30:COM17	-	30:COM17	26:COM13
12070	4932	+ve	7.034	73.000	2.188	23.360	3.177	224.343
			24:COM17	16:COM3	28:COM15	34:CVOL3	20:COM7	16:COM3
			-12.114	0.000	-2.852	0.000	-2.397	0.000
			18:COM5	-	22:COM9	-	30:COM17	-
	4971	-ve	7.034	70.277	2.188	23.360	1.908	83.629
			24:COM17	16:COM3	28:COM15	34:CVOL3	28:COM15	16:COM3
			-12.114	0.000	-2.852	0.000	-2.434	-14.414
			18:COM5	-	22:COM9	-	22:COM9	26:COM13
12071	4929	+ve	23.034	56.607	1.761	8.394	2.027	187.912
			24:COM17	16:COM3	20:COM7	32:CVOL1	28:COM15	16:COM3
			-30.543	0.000	-1.865	0.000	-1.975	0.000
			18:COM5	-	30:COM17	-	22:COM9	-
	4977	-ve	23.034	53.876	1.761	8.394	1.513	78.958
			24:COM17	16:COM3	20:COM7	32:CVOL1	20:COM7	16:COM3
			-30.543	0.000	-1.865	0.000	-1.666	-30.244
			18:COM5	-	30:COM17	-	30:COM17	26:COM13

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
12072	4937	+ve	10.726	39.137	1.207	8.342	1.091	125.306
			28:COM15	16:COM3	20:COM7	16:COM3	28:COM15	16:COM3
			-14.297	0.000	-1.016	0.000	-1.297	-9.851
			22:COM9	-	30:COM17	-	22:COM9	26:COM13
	5024	-ve	10.726	36.861	1.207	8.342	1.099	50.318
			28:COM15	16:COM3	20:COM7	16:COM3	28:COM15	16:COM3
			-14.297	0.000	-1.016	0.000	-0.929	-23.973
			22:COM9	-	30:COM17	-	22:COM9	26:COM13
12073	4930	+ve	57.741	78.611	1.165	6.189	0.068	186.153
			16:COM3	16:COM3	16:COM3	32:CVOL1	24:COM11	24:COM11
			-51.494	-69.501	-0.220	0.000	-1.444	-193.739
			26:COM13	26:COM13	26:COM13	-	18:COM5	18:COM5
	4996	-ve	57.741	75.878	1.165	6.189	0.887	35.568
			16:COM3	16:COM3	16:COM3	32:CVOL1	16:COM3	24:COM11
			-51.494	-71.551	-0.220	0.000	-0.395	-56.423
			26:COM13	26:COM13	26:COM13	-	26:COM13	18:COM5
12074	4925	+ve	9.645	7.950	0.457	4.734	1.169	3.407
			24:COM11	16:COM3	28:COM15	16:COM3	20:COM7	16:COM3
			-12.982	-2.472	-2.628	0.000	-0.200	-3.137
			18:COM5	26:COM13	22:COM9	-	30:COM17	26:COM13
	4998	-ve	9.645	6.996	0.457	4.734	0.517	0.000
			24:COM11	16:COM3	28:COM15	16:COM3	24:COM11	-
			-12.982	-3.188	-2.628	0.000	-1.045	-2.174
			18:COM5	26:COM13	22:COM9	-	18:COM5	18:COM5
12075	4926	+ve	4.001	11.821	1.677	0.000	1.980	5.207
			24:COM11	24:COM11	28:COM15	-	20:COM7	24:COM11
			-5.489	-24.507	-2.085	-5.485	-1.342	-16.103
			18:COM5	18:COM5	22:COM9	18:COM5	30:COM17	18:COM5
	4931	-ve	4.001	9.789	1.677	0.000	1.986	36.724
			24:COM11	24:COM11	28:COM15	-	20:COM7	16:COM3
			-5.489	-27.216	-2.085	-5.485	-2.145	-18.145
			18:COM5	18:COM5	22:COM9	18:COM5	30:COM17	26:COM13
12082	4923	+ve	5.124	31.702	0.916	0.000	0.850	88.959
			20:COM7	15:COM2	24:COM11	-	16:COM3	15:COM2
			-3.514	0.000	-0.979	-0.781	-0.665	0.000
			30:COM17	-	18:COM5	15:COM2	26:COM13	-
	5117	-ve	5.124	24.602	0.916	0.000	1.478	24.006
			20:COM7	15:COM2	24:COM11	-	16:COM3	15:COM2
			-3.514	0.000	-0.979	-0.781	-1.437	0.000
			30:COM17	-	18:COM5	15:COM2	26:COM13	-
12083	4938	+ve	20.949	33.513	1.197	4.545	0.411	89.619
			20:COM7	16:COM3	20:COM7	16:COM3	28:COM15	16:COM3
			-19.550	0.000	-0.450	-3.813	-1.235	-0.907
			30:COM17	-	30:COM17	26:COM13	22:COM9	26:COM13
	5030	-ve	20.949	31.239	1.197	4.545	1.139	25.876
			20:COM7	16:COM3	20:COM7	16:COM3	20:COM7	16:COM3
			-19.550	0.000	-0.450	-3.813	-0.490	-8.901
			30:COM17	-	30:COM17	26:COM13	30:COM17	26:COM13

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
12086	4943	+ve	11.603	69.721	0.318	2.204	0.242	83.046
			34:CVOL3	28:COM15	16:COM3	20:COM7	24:COM11	28:COM15
			0.000	-92.007	-0.032	-1.572	-0.611	-117.146
			-	22:COM9	26:COM13	30:COM17	18:COM5	22:COM9
	4949	-ve	11.603	65.466	0.318	2.204	0.391	121.212
			34:CVOL3	28:COM15	16:COM3	20:COM7	20:COM7	20:COM7
			0.000	-98.680	-0.032	-1.572	-0.044	-85.939
			-	22:COM9	26:COM13	30:COM17	30:COM17	30:COM17
12087	4944	+ve	15.856	60.410	0.160	1.679	0.111	71.238
			20:COM7	20:COM7	20:COM7	28:COM15	24:COM11	28:COM15
			0.000	-60.373	-0.082	-2.022	-0.258	-78.326
			-	30:COM17	30:COM17	22:COM9	18:COM5	22:COM9
	4950	-ve	15.856	55.857	0.160	1.679	0.333	80.205
			20:COM7	28:COM15	20:COM7	28:COM15	16:COM3	20:COM7
			0.000	-66.748	-0.082	-2.022	-0.282	-73.725
			-	22:COM9	30:COM17	22:COM9	26:COM13	30:COM17
12088	4945	+ve	22.621	76.038	0.058	1.494	0.717	90.468
			20:COM7	28:COM15	24:COM11	28:COM15	20:COM7	28:COM15
			-7.699	-102.419	-0.454	-3.033	-0.009	-128.569
			30:COM17	22:COM9	18:COM5	22:COM9	30:COM17	22:COM9
	4951	-ve	22.621	71.783	0.058	1.494	0.199	135.827
			20:COM7	28:COM15	24:COM11	28:COM15	24:COM11	20:COM7
			-7.699	-109.092	-0.454	-3.033	-0.481	-94.315
			30:COM17	22:COM9	18:COM5	22:COM9	18:COM5	30:COM17
12089	4946	+ve	1.477	4.517	0.169	0.744	0.176	3.680
			24:COM11	16:COM3	20:COM7	20:COM7	24:COM11	16:COM3
			-6.727	0.000	-0.067	-0.737	-0.291	0.000
			18:COM5	-	30:COM17	30:COM17	18:COM5	-
	4952	-ve	1.477	0.000	0.169	0.744	0.207	2.705
			24:COM11	-	20:COM7	20:COM7	16:COM3	16:COM3
			-6.727	-3.923	-0.067	-0.737	-0.067	-0.140
			18:COM5	18:COM5	30:COM17	30:COM17	26:COM13	26:COM13
12092	4949	+ve	7.051	59.085	0.000	0.090	0.881	67.723
			28:COM15	20:COM7	-	24:COM11	35:CVOL4	20:COM7
			-10.160	-44.496	-1.006	-7.626	0.000	-46.692
			22:COM9	30:COM17	35:CVOL4	18:COM5	-	30:COM17
	4932	-ve	7.051	54.681	0.000	0.090	0.000	29.658
			28:COM15	20:COM7	-	24:COM11	-	20:COM7
			-10.160	-47.304	-1.006	-7.626	-0.778	-26.748
			22:COM9	30:COM17	35:CVOL4	18:COM5	35:CVOL4	30:COM17
12093	4950	+ve	4.136	34.773	0.216	5.943	0.190	43.665
			28:COM15	28:COM15	20:COM7	16:COM3	28:COM15	28:COM15
			-6.330	-46.954	-0.233	-5.865	-0.169	-44.169
			22:COM9	22:COM9	30:COM17	26:COM13	22:COM9	22:COM9
	4929	-ve	4.136	31.965	0.216	5.943	0.257	36.940
			28:COM15	28:COM15	20:COM7	16:COM3	16:COM3	20:COM7
			-6.330	-51.359	-0.233	-5.865	-0.263	-11.394
			22:COM9	22:COM9	30:COM17	26:COM13	26:COM13	30:COM17

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
12094	4951	+ve	7.839	60.312	1.148	16.884	0.000	72.448
			28:COM15	20:COM7	20:COM7	16:COM3	-	20:COM7
			-11.700	-51.379	-0.041	-8.192	-0.849	-54.384
			22:COM9	30:COM17	30:COM17	26:COM13	22:COM9	30:COM17
	4930	-ve	7.839	55.908	1.148	16.884	1.099	34.478
			28:COM15	20:COM7	20:COM7	16:COM3	16:COM3	20:COM7
			-11.700	-54.187	-0.041	-8.192	-0.201	-25.203
			22:COM9	30:COM17	30:COM17	26:COM13	26:COM13	30:COM17
12095	4952	+ve	5.413	1.963	2.146	3.026	1.142	1.901
			24:COM11	24:COM11	16:COM3	24:COM11	24:COM11	24:COM11
			-9.423	-5.267	-1.843	-4.685	-1.486	-3.419
			18:COM5	18:COM5	26:COM13	18:COM5	18:COM5	18:COM5
	4931	-ve	5.413	0.000	2.146	3.026	2.101	9.040
			24:COM11	-	16:COM3	24:COM11	16:COM3	16:COM3
			-9.423	-9.671	-1.843	-4.685	-1.946	0.000
			18:COM5	18:COM5	26:COM13	18:COM5	26:COM13	-
12106	4955	+ve	2.142	8.214	0.100	0.678	0.045	32.991
			28:COM15	32:CVOL1	20:COM7	16:COM3	28:COM15	16:COM3
			-2.410	0.000	-0.031	0.000	-0.111	0.000
			22:COM9	-	30:COM17	-	22:COM9	-
	5038	-ve	2.142	6.062	0.100	0.678	0.088	20.048
			28:COM15	32:CVOL1	20:COM7	16:COM3	16:COM3	16:COM3
			-2.410	0.000	-0.031	0.000	-0.019	-3.966
			22:COM9	-	30:COM17	-	26:COM13	26:COM13
12107	4956	+ve	4.457	7.556	0.092	0.861	0.014	25.874
			28:COM15	16:COM3	16:COM3	16:COM3	24:COM11	16:COM3
			-6.989	0.000	-0.016	-0.161	-0.089	0.000
			22:COM9	-	26:COM13	26:COM13	18:COM5	-
	5044	-ve	4.457	5.723	0.092	0.861	0.092	17.128
			28:COM15	16:COM3	16:COM3	16:COM3	16:COM3	16:COM3
			-6.989	0.000	-0.016	-0.161	-0.018	-6.453
			22:COM9	-	26:COM13	26:COM13	26:COM13	26:COM13
12108	4957	+ve	8.958	10.506	0.099	0.232	0.049	21.433
			28:COM15	16:COM3	16:COM3	20:COM7	24:COM11	16:COM3
			-9.790	0.000	-0.048	-0.044	-0.107	0.000
			22:COM9	-	26:COM13	30:COM17	18:COM5	-
	5047	-ve	8.958	8.675	0.099	0.232	0.089	9.444
			28:COM15	16:COM3	16:COM3	20:COM7	16:COM3	20:COM7
			-9.790	0.000	-0.048	-0.044	-0.046	-0.809
			22:COM9	-	26:COM13	30:COM17	26:COM13	30:COM17
12109	4958	+ve	0.911	1.652	0.689	7.114	0.163	0.521
			28:COM15	24:COM11	16:COM3	24:COM11	20:COM7	24:COM11
			-1.900	-19.285	-0.532	-14.717	-0.091	-1.162
			22:COM9	18:COM5	26:COM13	18:COM5	30:COM17	18:COM5
	4940	-ve	0.911	0.000	0.689	7.114	0.872	25.081
			28:COM15	-	16:COM3	24:COM11	16:COM3	16:COM3
			-1.900	-22.623	-0.532	-14.717	-0.604	-0.256
			22:COM9	18:COM5	26:COM13	18:COM5	26:COM13	26:COM13

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
12110	4957	+ve	2.054	0.000	0.228	10.095	0.489	0.000
			28:COM15	-	24:COM11	16:COM3	16:COM3	-
			-1.927	-17.156	-0.497	-9.213	-0.241	-0.974
			22:COM9	18:COM5	18:COM5	26:COM13	26:COM13	18:COM5
	4938	-ve	2.054	0.000	0.228	10.095	0.114	23.194
			28:COM15	-	24:COM11	16:COM3	28:COM15	16:COM3
			-1.927	-20.494	-0.497	-9.213	-0.202	0.000
			22:COM9	18:COM5	18:COM5	26:COM13	22:COM9	-
12111	4956	+ve	2.100	0.000	0.096	15.333	0.238	0.000
			28:COM15	-	24:COM11	16:COM3	24:COM11	-
			-2.674	-14.328	-0.179	-12.503	-0.262	-1.157
			22:COM9	33:CVOL2	18:COM5	26:COM13	18:COM5	35:CVOL4
	4937	-ve	2.100	0.000	0.096	15.333	0.155	19.070
			28:COM15	-	24:COM11	16:COM3	28:COM15	33:CVOL2
			-2.674	-17.638	-0.179	-12.503	-0.283	0.000
			22:COM9	33:CVOL2	18:COM5	26:COM13	22:COM9	-
12112	4955	+ve	2.998	0.000	0.605	5.009	0.081	0.000
			28:COM15	-	16:COM3	16:COM3	24:COM11	-
			-3.721	-15.802	-0.160	-7.375	-0.237	-0.902
			22:COM9	18:COM5	26:COM13	26:COM13	18:COM5	22:COM9
	4936	-ve	2.998	0.000	0.605	5.009	0.531	21.222
			28:COM15	-	16:COM3	16:COM3	16:COM3	16:COM3
			-3.721	-19.140	-0.160	-7.375	-0.130	0.000
			22:COM9	18:COM5	26:COM13	26:COM13	26:COM13	-
12113	4963	+ve	0.478	2.531	0.009	0.000	0.137	0.201
			28:COM15	34:CVOL3	28:COM15	-	20:COM7	34:CVOL3
			-0.750	0.000	-0.170	-0.109	0.000	0.000
			22:COM9	-	22:COM9	32:CVOL1	-	-
	4964	-ve	0.478	0.000	0.009	0.000	0.014	0.128
			28:COM15	-	28:COM15	-	28:COM15	24:COM11
			-0.750	-1.572	-0.170	-0.109	-0.090	-0.635
			22:COM9	32:CVOL1	22:COM9	32:CVOL1	22:COM9	34:CVOL3
12114	4964	+ve	1.537	6.843	0.003	0.651	0.013	0.766
			28:COM15	32:CVOL1	20:COM7	34:CVOL3	20:COM7	32:CVOL1
			-2.422	0.000	-0.003	0.000	-0.011	-0.899
			22:COM9	-	30:COM17	-	30:COM17	35:CVOL4
	4965	-ve	1.537	0.000	0.003	0.651	0.012	17.834
			28:COM15	-	20:COM7	34:CVOL3	16:COM3	32:CVOL1
			-2.422	-12.060	-0.003	0.000	-0.008	0.000
			22:COM9	32:CVOL1	30:COM17	-	26:COM13	-
12115	4940	+ve	8.153	65.452	1.291	3.493	1.409	118.726
			20:COM7	16:COM3	28:COM15	16:COM3	16:COM3	16:COM3
			-1.875	-35.951	-1.443	0.000	-1.309	-59.252
			30:COM17	26:COM13	22:COM9	-	26:COM13	26:COM13
	5049	-ve	8.153	63.511	1.291	3.493	0.939	10.529
			20:COM7	16:COM3	28:COM15	16:COM3	28:COM15	16:COM3
			-1.875	-37.408	-1.443	0.000	-1.095	0.000
			30:COM17	26:COM13	22:COM9	-	22:COM9	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
12116	4958	+ve	3.598	11.094	0.029	0.570	0.059	25.045
			16:COM3	16:COM3	24:COM11	16:COM3	16:COM3	16:COM3
			-1.368	-5.068	-0.057	0.000	-0.026	-3.909
			26:COM13	26:COM13	18:COM5	-	26:COM13	26:COM13
	5080	-ve	3.598	9.531	0.029	0.570	0.023	9.329
			16:COM3	16:COM3	24:COM11	16:COM3	24:COM11	20:COM7
			-1.368	-6.241	-0.057	0.000	-0.037	0.000
			26:COM13	26:COM13	18:COM5	-	18:COM5	-
12117	4965	+ve	2.576	6.036	0.006	1.222	0.003	11.468
			20:COM7	32:CVOL1	16:COM3	34:CVOL3	24:COM11	32:CVOL1
			-2.024	0.000	0.000	0.000	-0.016	0.000
			30:COM17	-	-	-	18:COM5	-
	5119	-ve	2.576	0.000	0.006	1.222	0.016	5.132
			20:COM7	-	16:COM3	34:CVOL3	20:COM7	32:CVOL1
			-2.024	-3.119	0.000	0.000	0.000	0.000
			30:COM17	32:CVOL1	-	-	-	-
12118	4931	+ve	36.463	97.835	0.793	6.911	1.645	170.401
			16:COM3	16:COM3	24:COM11	16:COM3	16:COM3	16:COM3
			-28.363	-62.658	-1.464	0.000	-0.674	-119.056
			26:COM13	26:COM13	18:COM5	-	26:COM13	26:COM13
	4999	-ve	36.463	95.507	0.793	6.911	0.745	9.073
			16:COM3	16:COM3	24:COM11	16:COM3	16:COM3	24:COM11
			-28.363	-64.404	-1.464	0.000	-0.902	-13.467
			26:COM13	26:COM13	18:COM5	-	26:COM13	18:COM5
12119	4967	+ve	1.439	30.176	0.037	1.385	0.062	55.816
			24:COM11	34:CVOL3	28:COM15	34:CVOL3	20:COM7	16:COM3
			-1.861	0.000	-0.052	0.000	-0.043	0.000
			18:COM5	-	22:COM9	-	30:COM17	-
	5052	-ve	1.439	26.608	0.037	1.385	0.029	8.851
			24:COM11	34:CVOL3	28:COM15	34:CVOL3	28:COM15	24:COM11
			-1.861	0.000	-0.052	0.000	-0.040	-8.916
			18:COM5	-	22:COM9	-	22:COM9	18:COM5
12121	4921	+ve	3.655	49.986	0.414	20.859	0.508	106.380
			28:COM15	34:CVOL3	24:COM11	16:COM3	16:COM3	34:CVOL3
			-5.054	0.000	-0.480	-13.234	-0.451	0.000
			22:COM9	-	18:COM5	26:COM13	26:COM13	-
	4968	-ve	3.655	42.758	0.414	20.859	0.522	0.000
			28:COM15	34:CVOL3	24:COM11	16:COM3	24:COM11	-
			-5.054	0.000	-0.480	-13.234	-0.619	-2.539
			22:COM9	-	18:COM5	26:COM13	18:COM5	34:CVOL3
12122	4968	+ve	14.937	20.340	0.050	0.000	0.054	53.053
			24:COM11	34:CVOL3	20:COM7	-	24:COM11	16:COM3
			-15.413	0.000	-0.037	-1.795	-0.069	0.000
			18:COM5	-	30:COM17	18:COM5	18:COM5	-
	5054	-ve	14.937	16.718	0.050	0.000	0.036	21.567
			24:COM11	34:CVOL3	20:COM7	-	20:COM7	16:COM3
			-15.413	0.000	-0.037	-1.795	-0.025	-0.130
			18:COM5	-	30:COM17	18:COM5	30:COM17	26:COM13

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
12124	4971	+ve	8.406	55.754	1.009	13.577	1.974	83.301
			24:COM1	16:COM3	28:COM1	34:CVOL	20:COM7	16:COM3
			-14.115	0.000	-1.909	0.000	-0.950	-14.593
			18:COM5	-	22:COM9	-	30:COM1	26:COM1
	4972	-ve	8.406	53.031	1.009	13.577	1.038	0.000
			24:COM1	16:COM3	28:COM1	34:CVOL	28:COM1	-
			-14.115	0.000	-1.909	0.000	-1.785	-68.993
			18:COM5	-	22:COM9	-	22:COM9	18:COM5
12126	4970	+ve	0.664	0.000	1.222	13.883	0.113	9.507
			28:COM1	-	20:COM7	34:CVOL	28:COM1	34:CVOL
			-1.147	-4.727	-0.479	0.000	-0.328	0.000
			22:COM9	22:COM9	30:COM1	-	22:COM9	-
	4967	-ve	0.664	0.000	1.222	13.883	0.089	10.931
			28:COM1	-	20:COM7	34:CVOL	16:COM3	34:CVOL
			-1.147	-4.872	-0.479	0.000	-0.071	0.000
			22:COM9	22:COM9	30:COM1	-	26:COM1	-
12127	5077	+ve	12.827	0.000	0.046	1.153	0.034	14.978
			24:COM1	-	24:COM1	16:COM3	16:COM3	16:COM3
			-13.037	-14.869	-0.044	0.000	-0.035	-3.158
			18:COM5	34:CVOL	18:COM5	-	26:COM1	26:COM1
	5096	-ve	12.827	0.000	0.046	1.153	0.059	43.435
			24:COM1	-	24:COM1	16:COM3	24:COM1	16:COM3
			-13.037	-18.800	-0.044	0.000	-0.055	0.000
			18:COM5	32:CVOL1	18:COM5	-	18:COM5	-
12128	4972	+ve	12.555	23.921	1.290	6.167	0.000	0.000
			24:COM1	16:COM3	20:COM7	16:COM3	-	-
			-19.411	0.000	-0.020	0.000	-1.388	-69.950
			18:COM5	-	30:COM1	-	22:COM9	18:COM5
	4973	-ve	12.555	21.198	1.290	6.167	1.172	0.000
			24:COM1	16:COM3	20:COM7	16:COM3	20:COM7	-
			-19.411	-0.194	-0.020	0.000	-0.167	-84.549
			18:COM5	26:COM1	30:COM1	-	30:COM1	34:CVOL
12129	4973	+ve	13.934	7.524	0.251	0.372	0.108	0.000
			24:COM1	24:COM1	20:COM7	24:COM1	24:COM1	-
			-19.567	-8.554	-0.074	-5.003	-0.284	-84.182
			18:COM5	18:COM5	30:COM1	18:COM5	18:COM5	34:CVOL
	4974	-ve	13.934	5.482	0.251	0.372	0.406	0.000
			24:COM1	24:COM1	20:COM7	24:COM1	20:COM7	-
			-19.567	-11.277	-0.074	-5.003	-0.234	-79.637
			18:COM5	18:COM5	30:COM1	18:COM5	30:COM1	34:CVOL
12130	4974	+ve	16.035	0.000	0.078	0.000	0.181	0.000
			24:COM1	-	28:COM1	-	16:COM3	-
			-20.255	-24.851	-0.116	-9.522	-0.163	-79.396
			18:COM5	18:COM5	22:COM9	34:CVOL	26:COM1	34:CVOL
	4975	-ve	16.035	0.000	0.078	0.000	0.222	1.887
			24:COM1	-	28:COM1	-	28:COM1	24:COM1
			-20.255	-27.573	-0.116	-9.522	-0.279	-57.558
			18:COM5	18:COM5	22:COM9	34:CVOL	22:COM9	18:COM5

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
12131	4975	+ve	18.417	0.000	0.282	0.000	0.357	1.928
			24:COM1	-	24:COM1	-	16:COM3	24:COM1
			-21.347	-40.975	-0.275	-12.913	-0.337	-57.375
			18:COM5	18:COM5	18:COM5	34:CVOL	26:COM1	18:COM5
	4976	-ve	18.417	0.000	0.282	0.000	0.299	71.627
			24:COM1	-	24:COM1	-	28:COM1	16:COM3
			-21.347	-43.698	-0.275	-12.913	-0.266	-20.398
			18:COM5	18:COM5	18:COM5	34:CVOL	22:COM9	26:COM1
12132	4976	+ve	19.447	0.000	0.476	0.000	0.510	71.809
			24:COM1	-	28:COM1	-	20:COM7	16:COM3
			-22.792	-56.839	-0.548	-16.472	-0.528	-20.419
			18:COM5	18:COM5	22:COM9	34:CVOL	30:COM1	26:COM1
	4929	-ve	19.447	0.000	0.476	0.000	0.501	186.291
			24:COM1	-	28:COM1	-	28:COM1	16:COM3
			-22.792	-59.562	-0.548	-16.472	-0.662	0.000
			18:COM5	18:COM5	22:COM9	34:CVOL	22:COM9	-
12133	4977	+ve	25.588	41.090	0.779	4.853	0.886	78.973
			24:COM1	16:COM3	20:COM7	32:CVOL1	28:COM1	16:COM3
			-31.293	0.000	-0.771	0.000	-0.841	-30.139
			18:COM5	-	30:COM1	-	22:COM9	26:COM1
	4978	-ve	25.588	38.359	0.779	4.853	0.709	11.330
			24:COM1	16:COM3	20:COM7	32:CVOL1	20:COM7	24:COM1
			-31.293	0.000	-0.771	0.000	-0.647	-57.667
			18:COM5	-	30:COM1	-	30:COM1	18:COM5
12134	4978	+ve	26.968	25.780	0.283	2.726	0.221	11.402
			24:COM1	16:COM3	16:COM3	16:COM3	24:COM1	24:COM1
			-32.803	0.000	-0.131	-0.794	-0.381	-57.669
			18:COM5	-	26:COM1	26:COM1	18:COM5	18:COM5
	4979	-ve	26.968	23.049	0.283	2.726	0.410	0.000
			24:COM1	16:COM3	16:COM3	16:COM3	20:COM7	-
			-32.803	-1.047	-0.131	-0.794	-0.270	-68.470
			18:COM5	26:COM1	26:COM1	26:COM1	30:COM1	18:COM5
12135	4979	+ve	27.859	10.951	0.177	2.149	0.336	0.000
			24:COM1	16:COM3	24:COM1	24:COM1	16:COM3	-
			-33.974	-7.919	-0.199	-2.251	-0.317	-68.578
			18:COM5	26:COM1	18:COM5	18:COM5	26:COM1	18:COM5
	4980	-ve	27.859	8.455	0.177	2.149	0.264	0.000
			24:COM1	24:COM1	24:COM1	24:COM1	28:COM1	-
			-33.974	-10.201	-0.199	-2.251	-0.287	-66.268
			18:COM5	18:COM5	18:COM5	18:COM5	22:COM9	18:COM5
12136	4980	+ve	28.772	1.489	0.179	0.662	0.495	0.000
			24:COM1	24:COM1	24:COM1	24:COM1	16:COM3	-
			-35.362	-22.358	-0.356	-3.224	-0.329	-66.181
			18:COM5	18:COM5	18:COM5	18:COM5	26:COM1	18:COM5
	4981	-ve	28.772	0.000	0.179	0.662	0.171	6.753
			24:COM1	-	24:COM1	24:COM1	28:COM1	24:COM1
			-35.362	-25.088	-0.356	-3.224	-0.354	-56.573
			18:COM5	18:COM5	18:COM5	18:COM5	22:COM9	18:COM5

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
12137	4981	+ve	30.302	0.000	0.788	0.000	0.765	6.648
			24:COM1	-	24:COM1	-	16:COM3	24:COM1
			-37.274	-37.935	-0.766	-5.908	-0.704	-56.543
			18:COM5	18:COM5	18:COM5	32:CVOL1	26:COM1	18:COM5
	4982	-ve	30.302	0.000	0.788	0.000	0.869	72.892
			24:COM1	-	24:COM1	-	16:COM3	16:COM3
			-37.274	-40.665	-0.766	-5.908	-0.763	-29.104
			18:COM5	18:COM5	18:COM5	32:CVOL1	26:COM1	26:COM1
12138	4982	+ve	31.981	0.000	2.200	0.000	1.569	72.884
			24:COM1	-	16:COM3	-	24:COM1	16:COM3
			-39.477	-53.834	-1.745	-9.587	-1.873	-29.125
			18:COM5	18:COM5	26:COM1	32:CVOL1	18:COM5	26:COM1
	4930	-ve	31.981	0.000	2.200	0.000	2.504	181.772
			24:COM1	-	16:COM3	-	16:COM3	16:COM3
			-39.477	-56.565	-1.745	-9.587	-1.910	0.000
			18:COM5	18:COM5	26:COM1	32:CVOL1	26:COM1	-
12150	4994	+ve	20.422	39.561	1.038	0.000	1.045	38.766
			24:COM1	16:COM3	24:COM1	-	16:COM3	16:COM3
			-24.667	-26.799	-1.386	-3.566	-0.759	-27.260
			18:COM5	26:COM1	18:COM5	18:COM5	26:COM1	26:COM1
	4925	-ve	20.422	37.784	1.038	0.000	0.687	8.059
			24:COM1	16:COM3	24:COM1	-	24:COM1	24:COM1
			-24.667	-28.132	-1.386	-3.566	-0.848	-10.942
			18:COM5	26:COM1	18:COM5	18:COM5	18:COM5	18:COM5
12151	4995	+ve	88.754	61.874	1.768	0.000	0.000	112.878
			16:COM3	24:COM1	20:COM7	-	-	16:COM3
			-80.707	-107.895	-0.219	-10.398	-0.782	-97.313
			26:COM1	18:COM5	30:COM1	22:COM9	22:COM9	26:COM1
	5384	-ve	88.754	60.940	1.768	0.000	0.853	210.539
			16:COM3	24:COM1	20:COM7	-	20:COM7	16:COM3
			-80.707	-109.141	-0.219	-10.398	-0.402	-152.576
			26:COM1	18:COM5	30:COM1	22:COM9	30:COM1	26:COM1
12152	4996	+ve	67.659	68.806	0.334	4.841	0.421	36.246
			16:COM3	24:COM1	24:COM1	16:COM3	16:COM3	24:COM1
			-60.898	-84.808	-0.615	-2.531	-0.186	-57.412
			26:COM1	18:COM5	18:COM5	26:COM1	26:COM1	18:COM5
	4995	-ve	67.659	66.756	0.334	4.841	0.495	112.774
			16:COM3	24:COM1	24:COM1	16:COM3	24:COM1	16:COM3
			-60.898	-87.541	-0.615	-2.531	-0.815	-97.616
			26:COM1	18:COM5	18:COM5	26:COM1	18:COM5	26:COM1
12153	4997	+ve	16.508	3.242	0.571	1.168	1.012	0.942
			16:COM3	16:COM3	24:COM1	24:COM1	16:COM3	16:COM3
			-14.930	-0.041	-0.885	-1.872	-0.787	-0.411
			26:COM1	26:COM1	18:COM5	18:COM5	26:COM1	26:COM1
	4926	-ve	16.508	0.656	0.571	1.168	0.445	1.830
			16:COM3	24:COM1	24:COM1	24:COM1	28:COM1	24:COM1
			-14.930	-2.390	-0.885	-1.872	-0.859	-2.794
			26:COM1	18:COM5	18:COM5	18:COM5	22:COM9	18:COM5

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
12154	4998	+ve	8.041	3.059	0.463	1.568	0.721	2.415
			24:COM1	16:COM3	24:COM1	16:COM3	20:COM7	16:COM3
			-12.019	-0.146	-0.623	-1.800	-0.507	-0.696
			18:COM5	26:COM1	18:COM5	26:COM1	30:COM1	26:COM1
	4997	-ve	8.041	0.601	0.463	1.568	0.528	2.005
			24:COM1	24:COM1	24:COM1	16:COM3	24:COM1	16:COM3
			-12.019	-2.462	-0.623	-1.800	-0.629	-1.324
			18:COM5	18:COM5	18:COM5	26:COM1	18:COM5	26:COM1
12157	5018	+ve	0.000	5.370	0.000	0.000	0.024	4.842
			-	35:CVOL4	-	-	20:COM7	20:COM7
			-3.290	0.000	-0.007	-0.165	0.000	0.000
			18:COM5	-	22:COM9	34:CVOL3	-	-
	4971	-ve	0.000	0.000	0.000	0.000	0.000	9.085
			-	-	-	-	-	34:CVOL3
			-3.290	-6.772	-0.007	-0.165	-0.022	0.000
			18:COM5	34:CVOL3	22:COM9	34:CVOL3	22:COM9	-
12158	5017	+ve	0.000	2.796	0.067	0.000	0.989	1.442
			-	33:CVOL2	28:COM1	-	20:COM7	28:COM1
			-16.665	0.000	-0.319	-6.062	-0.210	-4.338
			34:CVOL3	-	22:COM9	34:CVOL3	30:COM1	22:COM9
	4972	-ve	0.000	0.000	0.067	0.000	0.196	47.559
			-	-	28:COM1	-	28:COM1	34:CVOL3
			-16.665	-17.206	-0.319	-6.062	-0.959	0.000
			34:CVOL3	34:CVOL3	22:COM9	34:CVOL3	22:COM9	-
12159	5016	+ve	0.000	5.377	0.002	0.012	0.007	4.761
			-	35:CVOL4	28:COM1	28:COM1	28:COM1	35:CVOL4
			-3.912	0.000	-0.002	-0.048	-0.007	0.000
			34:CVOL3	-	22:COM9	22:COM9	22:COM9	-
	4973	-ve	0.000	0.000	0.002	0.012	0.006	9.268
			-	-	28:COM1	28:COM1	28:COM1	34:CVOL3
			-3.912	-6.760	-0.002	-0.048	-0.008	0.000
			34:CVOL3	34:CVOL3	22:COM9	22:COM9	22:COM9	-
12160	5015	+ve	0.000	5.331	0.004	0.091	0.000	4.400
			-	35:CVOL4	16:COM3	20:COM7	-	35:CVOL4
			-3.364	0.000	0.000	0.000	-0.013	0.000
			22:COM9	-	-	-	22:COM9	-
	4974	-ve	0.000	0.000	0.004	0.091	0.013	9.288
			-	-	16:COM3	20:COM7	16:COM3	34:CVOL3
			-3.364	-6.834	0.000	0.000	-0.000	0.000
			22:COM9	34:CVOL3	-	-	26:COM1	-
12161	5014	+ve	0.353	5.292	0.005	0.137	0.000	4.133
			28:COM1	35:CVOL4	20:COM7	20:COM7	-	35:CVOL4
			-3.173	0.000	0.000	0.000	-0.017	0.000
			22:COM9	-	-	-	22:COM9	-
	4975	-ve	0.353	0.000	0.005	0.137	0.016	9.271
			28:COM1	-	20:COM7	20:COM7	20:COM7	34:CVOL3
			-3.173	-6.891	0.000	0.000	0.000	0.000
			22:COM9	34:CVOL3	-	-	-	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
12162	5013	+ve	0.563	5.391	0.005	0.123	0.000	4.661
			28:COM1	35:CVOL4	34:CVOL3	34:CVOL3	-	20:COM7
			-3.057	0.000	0.000	0.000	-0.015	0.000
			22:COM9	-	-	-	34:CVOL3	-
	4976	-ve	0.563	0.000	0.005	0.123	0.014	8.788
			28:COM1	-	34:CVOL3	34:CVOL3	34:CVOL3	34:CVOL3
			-3.057	-6.778	0.000	0.000	0.000	0.000
			22:COM9	34:CVOL3	-	-	-	-
12163	5024	+ve	1.312	5.580	0.001	0.000	0.012	4.841
			16:COM3	35:CVOL4	28:COM1	-	20:COM7	20:COM7
			-1.906	0.000	-0.004	-0.061	-0.003	0.000
			26:COM1	-	22:COM9	18:COM5	30:COM1	-
	4977	-ve	1.312	0.000	0.001	0.000	0.003	7.926
			16:COM3	-	28:COM1	-	28:COM1	34:CVOL3
			-1.906	-6.591	-0.004	-0.061	-0.012	0.000
			26:COM1	34:CVOL3	22:COM9	18:COM5	22:COM9	-
12164	5023	+ve	2.543	5.504	0.002	0.000	0.014	4.114
			35:CVOL4	35:CVOL4	28:COM1	-	20:COM7	35:CVOL4
			-1.050	0.000	-0.005	-0.067	-0.005	0.000
			26:COM1	-	22:COM9	22:COM9	30:COM1	-
	4978	-ve	2.543	0.000	0.002	0.000	0.005	8.082
			35:CVOL4	-	28:COM1	-	28:COM1	34:CVOL3
			-1.050	-6.705	-0.005	-0.067	-0.014	0.000
			26:COM1	34:CVOL3	22:COM9	22:COM9	22:COM9	-
12165	5022	+ve	3.570	5.512	0.002	0.016	0.009	3.953
			35:CVOL4	35:CVOL4	24:COM1	28:COM1	16:COM3	35:CVOL4
			-0.520	0.000	-0.003	-0.044	-0.005	0.000
			32:CVOL1	-	18:COM5	22:COM9	26:COM1	-
	4979	-ve	3.570	0.000	0.002	0.016	0.004	7.996
			35:CVOL4	-	24:COM1	28:COM1	24:COM1	34:CVOL3
			-0.520	-6.716	-0.003	-0.044	-0.008	0.000
			32:CVOL1	34:CVOL3	18:COM5	22:COM9	18:COM5	-
12166	5021	+ve	3.515	5.501	0.002	0.061	0.004	3.932
			35:CVOL4	35:CVOL4	16:COM3	20:COM7	24:COM1	35:CVOL4
			-0.850	0.000	-0.001	-0.014	-0.008	0.000
			30:COM1	-	26:COM1	30:COM1	18:COM5	-
	4980	-ve	3.515	0.000	0.002	0.061	0.007	8.055
			35:CVOL4	-	16:COM3	20:COM7	16:COM3	34:CVOL3
			-0.850	-6.731	-0.001	-0.014	-0.003	0.000
			30:COM1	34:CVOL3	26:COM1	30:COM1	26:COM1	-
12167	5020	+ve	2.915	5.474	0.004	0.095	0.002	4.106
			20:COM7	35:CVOL4	16:COM3	20:COM7	24:COM1	20:COM7
			-1.902	0.000	-0.000	0.000	-0.011	0.000
			30:COM1	-	26:COM1	-	18:COM5	-
	4981	-ve	2.915	0.000	0.004	0.095	0.011	8.238
			20:COM7	-	16:COM3	20:COM7	16:COM3	34:CVOL3
			-1.902	-6.747	-0.000	0.000	-0.001	0.000
			30:COM1	34:CVOL3	26:COM1	-	26:COM1	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
12168	5019	+ve	2.196	5.537	0.003	0.085	0.000	4.945
			20:COM7	35:CVOL4	16:COM3	20:COM7	-	20:COM7
			-3.013	0.000	0.000	0.000	-0.010	0.000
			30:COM1	-	-	-	18:COM5	-
	4982	-ve	2.196	0.000	0.003	0.085	0.009	8.531
			20:COM7	-	16:COM3	20:COM7	16:COM3	20:COM7
			-3.013	-6.647	0.000	0.000	0.000	0.000
			30:COM1	34:CVOL3	-	-	-	-
12187	4978	+ve	1.061	7.012	0.007	0.068	0.014	10.176
			16:COM3	34:CVOL3	28:COM1	16:COM3	20:COM7	16:COM3
			-0.790	0.000	-0.007	-0.076	-0.013	0.000
			26:COM1	-	22:COM9	26:COM1	30:COM1	-
	5053	-ve	1.061	0.000	0.007	0.068	0.015	0.390
			16:COM3	-	28:COM1	16:COM3	28:COM1	16:COM3
			-0.790	-2.966	-0.007	-0.076	-0.016	-0.112
			26:COM1	35:CVOL4	22:COM9	26:COM1	22:COM9	26:COM1
12188	4979	+ve	1.137	6.990	0.005	0.093	0.010	9.551
			16:COM3	34:CVOL3	24:COM1	16:COM3	16:COM3	32:CVOL1
			-0.838	0.000	-0.005	-0.113	-0.010	0.000
			26:COM1	-	18:COM5	26:COM1	26:COM1	-
	5074	-ve	1.137	0.000	0.005	0.093	0.011	0.159
			16:COM3	-	24:COM1	16:COM3	24:COM1	35:CVOL4
			-0.838	-3.154	-0.005	-0.113	-0.012	-0.096
			26:COM1	35:CVOL4	18:COM5	26:COM1	18:COM5	32:CVOL1
12189	4980	+ve	1.230	7.097	0.005	0.110	0.010	9.897
			16:COM3	34:CVOL3	16:COM3	24:COM1	24:COM1	34:CVOL3
			-0.921	0.000	-0.005	-0.110	-0.010	0.000
			26:COM1	-	26:COM1	18:COM5	18:COM5	-
	5075	-ve	1.230	0.000	0.005	0.110	0.012	0.110
			16:COM3	-	16:COM3	24:COM1	16:COM3	35:CVOL4
			-0.921	-3.051	-0.005	-0.110	-0.012	-0.139
			26:COM1	35:CVOL4	26:COM1	18:COM5	26:COM1	32:CVOL1
12190	4981	+ve	1.258	7.280	0.006	0.094	0.012	10.815
			16:COM3	34:CVOL3	16:COM3	24:COM1	24:COM1	16:COM3
			-0.987	0.000	-0.006	-0.057	-0.012	0.000
			26:COM1	-	26:COM1	18:COM5	18:COM5	-
	5076	-ve	1.258	0.000	0.006	0.094	0.014	0.215
			16:COM3	-	16:COM3	24:COM1	16:COM3	16:COM3
			-0.987	-2.704	-0.006	-0.057	-0.013	-0.200
			26:COM1	35:CVOL4	26:COM1	18:COM5	26:COM1	26:COM1
12191	4982	+ve	1.095	7.335	0.006	0.130	0.009	12.538
			16:COM3	34:CVOL3	16:COM3	32:CVOL1	24:COM1	20:COM7
			-0.871	0.000	-0.005	-0.018	-0.012	0.000
			26:COM1	-	26:COM1	35:CVOL4	18:COM5	-
	5077	-ve	1.095	0.000	0.006	0.130	0.014	1.146
			16:COM3	-	16:COM3	32:CVOL1	16:COM3	16:COM3
			-0.871	-2.660	-0.005	-0.018	-0.012	-0.006
			26:COM1	18:COM5	26:COM1	35:CVOL4	26:COM1	26:COM1

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
12192	4971	+ve	0.857	9.280	0.007	0.000	0.010	19.328
			20:COM7	34:CVOL3	20:COM7	-	28:COM15	34:CVOL3
			-0.622	0.000	-0.006	-0.678	-0.011	0.000
			30:COM17	-	30:COM17	34:CVOL3	22:COM9	-
	5052	-ve	0.857	0.164	0.007	0.000	0.018	0.562
			20:COM7	24:COM11	20:COM7	-	20:COM7	16:COM3
			-0.622	-0.920	-0.006	-0.678	-0.013	-0.132
			30:COM17	18:COM5	30:COM17	34:CVOL3	30:COM17	26:COM13
12193	4972	+ve	1.542	15.106	0.453	0.000	0.541	57.705
			28:COM15	34:CVOL3	16:COM3	-	24:COM11	34:CVOL3
			-3.914	0.000	-0.346	-6.034	-0.768	0.000
			22:COM9	-	26:COM13	18:COM5	18:COM5	-
	5051	-ve	1.542	2.256	0.453	0.000	1.127	21.543
			28:COM15	34:CVOL3	16:COM3	-	16:COM3	35:CVOL4
			-3.914	-0.395	-0.346	-6.034	-0.908	0.000
			22:COM9	26:COM13	26:COM13	18:COM5	26:COM13	-
12194	4973	+ve	0.642	9.404	0.007	0.193	0.013	19.498
			16:COM3	34:CVOL3	24:COM11	16:COM3	16:COM3	34:CVOL3
			-0.214	0.000	-0.007	-0.039	-0.012	0.000
			26:COM13	-	18:COM5	26:COM13	26:COM13	-
	5050	-ve	0.642	0.000	0.007	0.193	0.016	0.138
			16:COM3	-	24:COM11	16:COM3	24:COM11	20:COM7
			-0.214	-0.951	-0.007	-0.039	-0.017	-0.069
			26:COM13	33:CVOL2	18:COM5	26:COM13	18:COM5	30:COM17
12195	4977	+ve	1.357	7.084	0.005	0.113	0.010	12.316
			16:COM3	34:CVOL3	28:COM15	35:CVOL4	20:COM7	16:COM3
			-0.693	0.000	-0.006	-0.060	-0.008	0.000
			26:COM13	-	22:COM9	30:COM17	30:COM17	-
	5054	-ve	1.357	0.000	0.005	0.113	0.012	1.612
			16:COM3	-	28:COM15	35:CVOL4	28:COM15	16:COM3
			-0.693	-2.921	-0.006	-0.060	-0.014	0.000
			26:COM13	18:COM5	22:COM9	30:COM17	22:COM9	-
12196	5030	+ve	2.276	5.420	0.013	0.356	0.021	5.738
			24:COM11	16:COM3	16:COM3	16:COM3	24:COM11	20:COM7
			-6.003	0.000	-0.007	-0.139	-0.039	-1.098
			18:COM5	-	26:COM13	26:COM13	18:COM5	30:COM17
	4996	-ve	2.276	0.000	0.013	0.356	0.040	11.775
			24:COM11	-	16:COM3	16:COM3	16:COM3	16:COM3
			-6.003	-7.114	-0.007	-0.139	-0.022	0.000
			18:COM5	18:COM5	26:COM13	26:COM13	26:COM13	-
12197	5029	+ve	4.076	5.453	0.012	0.259	0.017	5.600
			24:COM11	16:COM3	16:COM3	16:COM3	24:COM11	16:COM3
			-8.724	-0.272	-0.006	-0.043	-0.035	-5.269
			18:COM5	26:COM13	26:COM13	26:COM13	18:COM5	26:COM13
	4995	-ve	4.076	0.000	0.012	0.259	0.034	17.600
			24:COM11	-	16:COM3	16:COM3	16:COM3	16:COM3
			-8.724	-8.942	-0.006	-0.043	-0.016	-0.793
			18:COM5	18:COM5	26:COM13	26:COM13	26:COM13	26:COM13

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
12198	5028	+ve	4.576	4.699	0.003	0.153	0.007	3.652
			24:COM1	16:COM3	20:COM7	16:COM3	24:COM11	24:COM1
			-8.401	-0.270	-0.002	-0.112	-0.009	-5.304
			18:COM5	26:COM1	30:COM1	26:COM1	18:COM5	18:COM5
	4994	-ve	4.576	0.000	0.003	0.153	0.008	17.324
			24:COM1	-	20:COM7	16:COM3	28:COM1	16:COM3
			-8.401	-8.912	-0.002	-0.112	-0.006	0.000
			18:COM5	18:COM5	30:COM1	26:COM1	22:COM9	-
12199	5027	+ve	3.527	3.979	0.000	0.098	0.015	1.744
			24:COM1	16:COM3	28:COM1	24:COM1	20:COM7	24:COM1
			-7.063	0.000	-0.005	-0.203	-0.001	-3.197
			18:COM5	-	22:COM9	18:COM5	30:COM1	18:COM5
	4998	-ve	3.527	0.000	0.000	0.098	0.000	14.710
			24:COM1	-	28:COM1	24:COM1	-	16:COM3
			-7.063	-8.063	-0.005	-0.203	-0.015	0.000
			18:COM5	18:COM5	22:COM9	18:COM5	22:COM9	-
12200	5026	+ve	2.149	3.965	0.000	0.037	0.025	1.675
			24:COM1	35:CVOL4	-	24:COM1	20:COM7	16:COM3
			-5.227	0.000	-0.009	-0.251	0.000	-0.623
			18:COM5	-	22:COM9	18:COM5	-	26:COM1
	4997	-ve	2.149	0.000	0.000	0.037	0.000	11.153
			24:COM1	-	-	24:COM1	-	16:COM3
			-5.227	-7.237	-0.009	-0.251	-0.024	0.000
			18:COM5	34:CVOL3	22:COM9	18:COM5	22:COM9	-
12201	5025	+ve	0.080	4.868	0.000	0.014	0.027	3.453
			24:COM1	35:CVOL4	-	24:COM1	20:COM7	35:CVOL4
			-3.202	0.000	-0.009	-0.228	-0.000	0.000
			18:COM5	-	22:COM9	18:COM5	30:COM1	-
	4926	-ve	0.080	0.000	0.000	0.014	0.000	7.656
			24:COM1	-	-	24:COM1	-	34:CVOL3
			-3.202	-6.333	-0.009	-0.228	-0.027	0.000
			18:COM5	34:CVOL3	22:COM9	18:COM5	22:COM9	-
12202	5071	+ve	0.903	1.468	0.033	0.051	0.019	0.341
			16:COM3	16:COM3	16:COM3	20:COM7	24:COM11	16:COM3
			-0.600	-0.014	-0.031	-0.050	-0.022	-0.293
			26:COM1	26:COM1	26:COM1	30:COM1	18:COM5	26:COM1
	5027	-ve	0.903	0.000	0.033	0.051	0.019	0.506
			16:COM3	-	16:COM3	20:COM7	16:COM3	24:COM1
			-0.600	-1.631	-0.031	-0.050	-0.019	-0.140
			26:COM1	18:COM5	26:COM1	30:COM1	26:COM1	18:COM5
12203	5072	+ve	0.279	1.068	0.036	0.092	0.006	0.207
			24:COM1	16:COM3	16:COM3	16:COM3	28:COM1	16:COM3
			-1.925	-0.591	-0.015	-0.078	-0.024	-0.370
			18:COM5	26:COM1	26:COM1	26:COM1	22:COM9	26:COM1
	5026	-ve	0.279	0.000	0.036	0.092	0.021	1.377
			24:COM1	-	16:COM3	16:COM3	16:COM3	16:COM3
			-1.925	-2.471	-0.015	-0.078	-0.012	-0.002
			18:COM5	18:COM5	26:COM1	26:COM1	26:COM1	26:COM1

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
12204	5073	+ve	0.000	0.259	0.057	0.138	0.025	0.098
			-	24:COM11	16:COM3	16:COM3	24:COM11	24:COM1
			-4.098	-1.999	-0.042	-0.109	-0.036	-0.949
			18:COM5	18:COM5	26:COM1	26:COM1	18:COM5	18:COM5
	5025	-ve	0.000	0.000	0.057	0.138	0.035	2.907
			-	-	16:COM3	16:COM3	16:COM3	16:COM3
			-4.098	-4.165	-0.042	-0.109	-0.027	0.000
			18:COM5	18:COM5	26:COM1	26:COM1	26:COM1	-
12208	4998	+ve	0.899	13.196	0.017	0.163	0.038	36.192
			16:COM3	34:CVOL3	24:COM11	24:COM1	16:COM3	34:CVOL3
			-0.566	0.000	-0.018	-0.288	-0.035	0.000
			26:COM1	-	18:COM5	18:COM5	26:COM1	-
	5122	-ve	0.899	3.435	0.017	0.163	0.042	0.000
			16:COM3	32:CVOL1	24:COM11	24:COM1	24:COM11	-
			-0.566	0.000	-0.018	-0.288	-0.045	-0.528
			26:COM1	-	18:COM5	18:COM5	18:COM5	18:COM5
12211	4926	+ve	0.567	12.604	0.011	0.334	0.029	33.335
			24:COM1	34:CVOL3	24:COM11	16:COM3	16:COM3	34:CVOL3
			-0.494	0.000	-0.013	-0.039	-0.023	0.000
			18:COM5	-	18:COM5	26:COM1	26:COM1	-
	5120	-ve	0.567	2.919	0.011	0.334	0.026	0.177
			24:COM1	32:CVOL1	24:COM11	16:COM3	24:COM11	24:COM1
			-0.494	-0.011	-0.013	-0.039	-0.032	-0.929
			18:COM5	26:COM1	18:COM5	26:COM1	18:COM5	18:COM5
12212	4997	+ve	0.178	13.306	0.016	0.219	0.033	36.597
			20:COM7	34:CVOL3	16:COM3	16:COM3	24:COM11	34:CVOL3
			-0.108	0.000	-0.015	-0.136	-0.034	0.000
			30:COM1	-	26:COM1	26:COM1	18:COM5	-
	5121	-ve	0.178	3.589	0.016	0.219	0.037	0.000
			20:COM7	32:CVOL1	16:COM3	16:COM3	16:COM3	-
			-0.108	0.000	-0.015	-0.136	-0.036	-0.540
			30:COM1	-	26:COM1	26:COM1	26:COM1	18:COM5
12214	4994	+ve	1.260	12.624	0.019	0.137	0.045	35.028
			16:COM3	34:CVOL3	24:COM11	24:COM1	16:COM3	16:COM3
			-0.525	0.000	-0.023	-0.443	-0.037	0.000
			26:COM1	-	18:COM5	18:COM5	26:COM1	-
	5125	-ve	1.260	3.468	0.019	0.137	0.047	0.165
			16:COM3	16:COM3	24:COM11	24:COM1	24:COM11	24:COM1
			-0.525	-0.463	-0.023	-0.443	-0.058	-0.959
			26:COM1	26:COM1	18:COM5	18:COM5	18:COM5	18:COM5
12215	4995	+ve	1.614	11.422	0.013	0.000	0.040	29.050
			24:COM1	16:COM3	24:COM11	-	16:COM3	16:COM3
			-1.804	0.000	-0.020	-0.541	-0.026	0.000
			18:COM5	-	18:COM5	18:COM5	26:COM1	-
	5123	-ve	1.614	2.710	0.013	0.000	0.032	1.305
			24:COM1	24:COM11	24:COM11	-	24:COM11	24:COM1
			-1.804	-2.475	-0.020	-0.541	-0.048	-1.463
			18:COM5	18:COM5	18:COM5	18:COM5	18:COM5	18:COM5

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
12216	4996	+ve	1.831	7.650	0.003	0.194	0.015	13.757
			24:COM1	34:CVOL3	24:COM1	24:COM1	16:COM3	34:CVOL3
			-2.321	0.000	-0.008	-0.638	-0.006	0.000
			18:COM5	-	18:COM5	18:COM5	26:COM1	-
	5124	-ve	1.831	0.000	0.003	0.194	0.008	1.956
			24:COM1	-	24:COM1	24:COM1	24:COM1	16:COM3
			-2.321	-2.371	-0.008	-0.638	-0.019	0.000
			18:COM5	35:CVOL4	18:COM5	18:COM5	18:COM5	-
12217	5049	+ve	0.136	5.803	0.004	0.024	0.005	5.538
			24:COM1	35:CVOL4	20:COM7	20:COM7	28:COM1	35:CVOL4
			-2.353	0.000	-0.002	-0.019	-0.010	0.000
			18:COM5	-	30:COM1	30:COM1	22:COM9	-
	4999	-ve	0.136	0.000	0.004	0.024	0.011	7.108
			24:COM1	-	20:COM7	20:COM7	20:COM7	34:CVOL3
			-2.353	-6.296	-0.002	-0.019	-0.006	0.000
			18:COM5	34:CVOL3	30:COM1	30:COM1	30:COM1	-
12218	5475	+ve	0.000	10.700	1.333	13.112	0.000	11.479
			-	16:COM3	20:COM7	16:COM3	-	16:COM3
			-6.666	0.000	0.000	-1.619	-1.026	-1.447
			18:COM5	-	-	26:COM1	18:COM5	26:COM1
	5518	-ve	0.000	5.495	1.333	13.112	1.586	1.234
			-	16:COM3	20:COM7	16:COM3	20:COM7	24:COM1
			-6.666	-2.918	0.000	-1.619	0.000	-4.538
			18:COM5	26:COM1	-	26:COM1	-	18:COM5
12234	5013	+ve	10.567	0.000	0.394	0.000	0.711	36.891
			28:COM1	-	28:COM1	-	20:COM7	16:COM3
			-13.904	-33.110	-0.796	-9.298	-0.406	-21.044
			22:COM9	18:COM5	22:COM9	18:COM5	30:COM1	26:COM1
	4937	-ve	10.567	0.000	0.394	0.000	0.413	103.789
			28:COM1	-	28:COM1	-	28:COM1	16:COM3
			-13.904	-35.364	-0.796	-9.298	-0.894	-7.292
			22:COM9	18:COM5	22:COM9	18:COM5	22:COM9	26:COM1
12235	5014	+ve	9.286	0.000	0.164	0.000	0.314	2.453
			28:COM1	-	28:COM1	-	20:COM7	24:COM1
			-13.634	-20.484	-0.251	-6.223	-0.232	-35.069
			22:COM9	18:COM5	22:COM9	22:COM9	30:COM1	18:COM5
	5013	-ve	9.286	0.000	0.164	0.000	0.114	36.970
			28:COM1	-	28:COM1	-	28:COM1	16:COM3
			-13.634	-22.739	-0.251	-6.223	-0.200	-20.990
			22:COM9	18:COM5	22:COM9	22:COM9	22:COM9	26:COM1
12236	5015	+ve	8.152	2.037	0.116	0.000	0.201	0.000
			28:COM1	24:COM1	24:COM1	-	20:COM7	-
			-11.786	-11.041	-0.190	-3.846	-0.156	-36.959
			22:COM9	18:COM5	18:COM5	18:COM5	30:COM1	18:COM5
	5014	-ve	8.152	0.346	0.116	0.000	0.169	2.504
			28:COM1	24:COM1	24:COM1	-	24:COM1	24:COM1
			-11.786	-13.296	-0.190	-3.846	-0.270	-35.105
			22:COM9	18:COM5	18:COM5	18:COM5	18:COM5	18:COM5

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
12237	5016	+ve	6.651	8.233	0.054	2.335	0.264	0.000
			28:COM15	16:COM3	24:COM11	16:COM3	20:COM7	-
			-9.999	-3.891	-0.234	-0.981	-0.086	-36.671
			22:COM9	26:COM13	18:COM5	26:COM13	30:COM17	18:COM5
	5015	-ve	6.651	5.978	0.054	2.335	0.129	0.000
			28:COM15	16:COM3	24:COM11	16:COM3	24:COM11	-
			-9.999	-5.582	-0.234	-0.981	-0.302	-37.044
			22:COM9	26:COM13	18:COM5	26:COM13	18:COM5	18:COM5
12238	5017	+ve	4.957	16.894	0.000	5.919	0.465	10.016
			28:COM15	16:COM3	-	16:COM3	34:CVOL3	24:COM11
			-7.870	0.000	-0.501	0.000	0.000	-27.750
			22:COM9	-	18:COM5	-	-	18:COM5
	5016	-ve	4.957	14.639	0.000	5.919	0.000	0.000
			28:COM15	16:COM3	-	16:COM3	-	-
			-7.870	-0.306	-0.501	0.000	-0.547	-36.721
			22:COM9	26:COM13	18:COM5	-	18:COM5	18:COM5
12239	5018	+ve	2.986	23.417	1.495	4.982	0.542	51.516
			28:COM15	16:COM3	20:COM7	20:COM7	28:COM15	16:COM3
			-4.093	0.000	-0.415	0.000	-1.292	-15.021
			22:COM9	-	30:COM17	-	22:COM9	26:COM13
	5017	-ve	2.986	21.162	1.495	4.982	1.634	10.087
			28:COM15	16:COM3	20:COM7	20:COM7	20:COM7	24:COM11
			-4.093	0.000	-0.415	0.000	-0.271	-26.180
			22:COM9	-	30:COM17	-	30:COM17	18:COM5
12240	5019	+ve	20.501	0.000	0.740	0.000	0.943	49.767
			28:COM15	-	20:COM7	-	28:COM15	16:COM3
			-22.203	-35.044	-0.955	-8.797	-0.796	-25.523
			22:COM9	18:COM5	30:COM17	22:COM9	22:COM9	26:COM13
	4938	-ve	20.501	0.000	0.740	0.000	0.669	121.104
			28:COM15	-	20:COM7	-	20:COM7	16:COM3
			-22.203	-37.318	-0.955	-8.797	-0.946	-10.083
			22:COM9	18:COM5	30:COM17	22:COM9	30:COM17	26:COM13
12241	5020	+ve	19.613	0.000	0.424	0.000	0.411	9.266
			28:COM15	-	20:COM7	-	28:COM15	24:COM11
			-23.161	-22.727	-0.314	-6.520	-0.452	-37.911
			22:COM9	18:COM5	30:COM17	18:COM5	22:COM9	18:COM5
	5019	-ve	19.613	0.000	0.424	0.000	0.399	49.876
			28:COM15	-	20:COM7	-	20:COM7	16:COM3
			-23.161	-25.002	-0.314	-6.520	-0.222	-25.436
			22:COM9	18:COM5	30:COM17	18:COM5	30:COM17	26:COM13
12242	5021	+ve	18.318	2.605	0.213	0.000	0.207	0.000
			28:COM15	24:COM11	16:COM3	-	28:COM15	-
			-21.960	-13.432	-0.175	-4.767	-0.259	-40.051
			22:COM9	18:COM5	26:COM13	18:COM5	22:COM9	18:COM5
	5020	-ve	18.318	0.899	0.213	0.000	0.266	9.334
			28:COM15	24:COM11	16:COM3	-	16:COM3	24:COM11
			-21.960	-15.708	-0.175	-4.767	-0.243	-37.849
			22:COM9	18:COM5	26:COM13	18:COM5	26:COM13	18:COM5

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
12243	5022	+ve	16.697	7.807	0.167	1.529	0.156	0.000
			28:COM15	16:COM3	16:COM3	24:COM17	28:COM15	-
			-20.576	-5.680	-0.135	-1.887	-0.216	-38.689
			22:COM9	26:COM13	26:COM13	18:COM5	22:COM9	18:COM5
	5021	-ve	16.697	5.818	0.167	1.529	0.244	0.000
			28:COM15	24:COM11	16:COM3	24:COM17	16:COM3	-
			-20.576	-7.673	-0.135	-1.887	-0.241	-40.044
			22:COM9	18:COM5	26:COM13	18:COM5	26:COM13	18:COM5
12244	5023	+ve	14.739	15.906	0.174	4.158	0.120	8.606
			28:COM15	16:COM3	16:COM3	20:COM7	28:COM15	24:COM17
			-18.986	-0.764	-0.144	0.000	-0.178	-36.180
			22:COM9	26:COM13	26:COM13	-	22:COM9	18:COM5
	5022	-ve	14.739	13.631	0.174	4.158	0.274	0.000
			28:COM15	16:COM3	16:COM3	20:COM7	24:COM11	-
			-18.986	-2.470	-0.144	0.000	-0.273	-38.677
			22:COM9	26:COM13	26:COM13	-	18:COM5	18:COM5
12245	5024	+ve	12.645	25.671	0.387	5.939	0.416	50.467
			28:COM15	16:COM3	28:COM15	20:COM7	20:COM7	16:COM3
			-17.495	0.000	-0.362	0.000	-0.421	-23.913
			22:COM9	-	22:COM9	-	30:COM17	26:COM13
	5023	-ve	12.645	23.396	0.387	5.939	0.391	8.509
			28:COM15	16:COM3	28:COM15	20:COM7	24:COM11	24:COM17
			-17.495	0.000	-0.362	0.000	-0.347	-36.214
			22:COM9	-	22:COM9	-	18:COM5	18:COM5
12246	5025	+ve	13.650	0.000	1.187	5.522	1.177	23.966
			16:COM3	-	20:COM7	24:COM17	20:COM7	20:COM7
			-8.375	-24.876	-1.356	-5.317	-0.836	-1.860
			26:COM13	35:CVOL4	30:COM17	18:COM5	30:COM17	30:COM17
	4940	-ve	13.650	0.000	1.187	5.522	1.614	73.829
			16:COM3	-	20:COM7	24:COM17	20:COM7	20:COM7
			-8.375	-27.150	-1.356	-5.317	-1.607	0.000
			26:COM13	35:CVOL4	30:COM17	18:COM5	30:COM17	-
12247	5026	+ve	16.491	0.000	0.324	5.018	0.567	0.000
			20:COM7	-	24:COM11	24:COM17	16:COM3	-
			-10.615	-14.225	-0.680	-3.796	-0.168	-21.778
			30:COM17	22:COM9	18:COM5	18:COM5	26:COM13	22:COM9
	5025	-ve	16.491	0.000	0.324	5.018	0.498	24.143
			20:COM7	-	24:COM11	24:COM17	24:COM11	20:COM7
			-10.615	-16.498	-0.680	-3.796	-0.801	-1.738
			30:COM17	22:COM9	18:COM5	18:COM5	18:COM5	30:COM17
12248	5027	+ve	19.130	0.000	0.444	3.875	0.595	0.000
			20:COM7	-	24:COM11	16:COM3	16:COM3	-
			-13.645	-6.736	-0.545	-2.761	-0.451	-32.279
			30:COM17	22:COM9	18:COM5	26:COM13	26:COM13	22:COM9
	5026	-ve	19.130	0.000	0.444	3.875	0.539	0.000
			20:COM7	-	24:COM11	16:COM3	28:COM15	-
			-13.645	-9.009	-0.545	-2.761	-0.594	-21.658
			30:COM17	22:COM9	18:COM5	26:COM13	22:COM9	22:COM9

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
12249	5028	+ve	21.139	2.618	1.250	1.610	1.217	0.000
			20:COM7	20:COM7	16:COM3	28:COM15	24:COM11	-
			-16.281	-0.978	-1.101	-1.741	-1.330	-29.888
			30:COM17	30:COM17	26:COM13	22:COM9	18:COM5	18:COM5
	5027	-ve	21.139	0.775	1.250	1.610	1.151	0.000
			20:COM7	28:COM15	16:COM3	28:COM15	16:COM3	-
			-16.281	-3.113	-1.101	-1.741	-0.968	-32.285
			30:COM17	22:COM9	26:COM13	22:COM9	26:COM13	22:COM9
12250	5029	+ve	21.813	10.193	1.081	1.491	0.784	0.000
			20:COM7	16:COM3	16:COM3	24:COM17	24:COM11	-
			-18.294	0.000	-0.969	-2.847	-0.800	-19.027
			30:COM17	-	26:COM13	18:COM5	18:COM5	22:COM9
	5028	-ve	21.813	7.920	1.081	1.491	1.353	0.000
			20:COM7	16:COM3	16:COM3	24:COM17	16:COM3	-
			-18.294	-0.015	-0.969	-2.847	-1.148	-30.063
			30:COM17	26:COM13	26:COM13	18:COM5	26:COM13	18:COM5
12251	5030	+ve	22.000	20.429	0.620	4.145	0.136	25.966
			20:COM7	16:COM3	20:COM7	16:COM3	28:COM15	16:COM3
			-20.094	0.000	-0.241	-5.465	-0.508	-8.720
			30:COM17	-	30:COM17	26:COM13	22:COM9	26:COM13
	5029	-ve	22.000	18.156	0.620	4.145	0.726	0.000
			20:COM7	16:COM3	20:COM7	16:COM3	20:COM7	-
			-20.094	0.000	-0.241	-5.465	-0.352	-19.132
			30:COM17	-	30:COM17	26:COM13	30:COM17	22:COM9
12256	5033	+ve	4.128	0.000	0.040	0.085	0.090	12.469
			28:COM15	-	24:COM11	24:COM17	20:COM7	16:COM3
			-6.720	-6.314	-0.104	-1.006	-0.027	-4.894
			22:COM9	18:COM5	18:COM5	18:COM5	30:COM17	26:COM13
	4956	-ve	4.128	0.000	0.040	0.085	0.054	20.543
			28:COM15	-	24:COM11	24:COM17	24:COM11	16:COM3
			-6.720	-8.130	-0.104	-1.006	-0.115	0.000
			22:COM9	18:COM5	18:COM5	18:COM5	18:COM5	-
12257	5034	+ve	5.086	0.000	0.025	0.000	0.015	2.677
			28:COM15	-	16:COM3	-	24:COM11	24:COM17
			-6.902	-4.964	-0.008	-0.711	-0.039	-11.219
			22:COM9	18:COM5	26:COM13	18:COM5	18:COM5	18:COM5
	5033	-ve	5.086	0.000	0.025	0.000	0.011	12.287
			28:COM15	-	16:COM3	-	16:COM3	16:COM3
			-6.902	-6.780	-0.008	-0.711	-0.002	-5.013
			22:COM9	18:COM5	26:COM13	18:COM5	26:COM13	26:COM13
12258	5035	+ve	5.208	1.036	0.038	0.016	0.021	0.000
			28:COM15	24:COM11	16:COM3	24:COM17	24:COM11	-
			-6.591	-3.667	-0.017	-0.442	-0.042	-12.174
			22:COM9	18:COM5	26:COM13	18:COM5	18:COM5	18:COM5
	5034	-ve	5.208	0.000	0.038	0.016	0.035	2.551
			28:COM15	-	16:COM3	24:COM17	16:COM3	24:COM17
			-6.591	-5.483	-0.017	-0.442	-0.015	-11.298
			22:COM9	18:COM5	26:COM13	18:COM5	26:COM13	18:COM5

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
12259	5036	+ve	4.808	3.344	0.023	0.253	0.004	0.000
			28:COM15	16:COM3	20:COM7	16:COM3	28:COM15	-
			-5.365	-1.489	-0.002	-0.104	-0.031	-12.380
			22:COM9	26:COM13	30:COM17	26:COM13	22:COM9	18:COM5
	5035	-ve	4.808	1.642	0.023	0.253	0.017	0.000
			28:COM15	24:COM11	20:COM7	16:COM3	16:COM3	-
			-5.365	-2.964	-0.002	-0.104	-0.004	-12.153
			22:COM9	18:COM5	30:COM17	26:COM13	26:COM13	18:COM5
12260	5037	+ve	4.834	5.623	0.044	0.451	0.000	3.538
			20:COM7	16:COM3	16:COM3	16:COM3	-	24:COM11
			-3.053	0.000	0.000	0.000	-0.042	-11.623
			30:COM17	-	-	-	18:COM5	18:COM5
	5036	-ve	4.834	3.807	0.044	0.451	0.045	0.000
			20:COM7	16:COM3	16:COM3	16:COM3	16:COM3	-
			-3.053	-1.139	0.000	0.000	0.000	-12.339
			30:COM17	26:COM13	-	-	-	18:COM5
12261	5038	+ve	2.667	7.610	0.089	0.663	0.007	19.878
			20:COM7	16:COM3	16:COM3	20:COM7	24:COM11	16:COM3
			-0.950	0.000	-0.003	0.000	-0.066	-4.054
			30:COM17	-	26:COM13	-	18:COM5	26:COM13
	5037	-ve	2.667	5.794	0.089	0.663	0.109	6.827
			20:COM7	16:COM3	16:COM3	20:COM7	16:COM3	16:COM3
			-0.950	0.000	-0.003	0.000	0.000	-8.593
			30:COM17	-	26:COM13	-	-	26:COM13
12262	5039	+ve	8.546	0.000	0.020	0.000	0.089	18.071
			28:COM15	-	28:COM15	-	20:COM7	16:COM3
			-10.139	-5.328	-0.096	-0.826	-0.017	-7.656
			22:COM9	35:CVOL4	22:COM9	18:COM5	30:COM17	26:COM13
	4957	-ve	8.546	0.000	0.020	0.000	0.023	29.370
			28:COM15	-	28:COM15	-	28:COM15	16:COM3
			-10.139	-7.367	-0.096	-0.826	-0.100	0.000
			22:COM9	33:CVOL2	22:COM9	18:COM5	22:COM9	-
12263	5040	+ve	9.728	0.000	0.030	0.000	0.001	5.195
			28:COM15	-	20:COM7	-	28:COM15	24:COM11
			-10.860	-6.275	0.000	-0.780	-0.040	-12.623
			22:COM9	18:COM5	-	18:COM5	22:COM9	18:COM5
	5039	-ve	9.728	0.000	0.030	0.000	0.023	17.869
			28:COM15	-	20:COM7	-	35:CVOL4	16:COM3
			-10.860	-8.108	0.000	-0.780	0.000	-7.762
			22:COM9	18:COM5	-	18:COM5	-	26:COM13
12264	5041	+ve	9.605	1.348	0.031	0.000	0.001	0.000
			28:COM15	24:COM11	16:COM3	-	28:COM15	-
			-11.119	-4.720	0.000	-0.545	-0.034	-13.587
			22:COM9	18:COM5	-	18:COM5	22:COM9	18:COM5
	5040	-ve	9.605	0.000	0.031	0.000	0.037	5.063
			28:COM15	-	16:COM3	-	20:COM7	24:COM11
			-11.119	-6.554	0.000	-0.545	0.000	-12.721
			22:COM9	18:COM5	-	18:COM5	-	18:COM5

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
12265	5042	+ve	8.796	3.734	0.004	0.171	0.016	0.000
			28:COM15	16:COM3	28:COM15	24:COM17	20:COM7	-
			-10.659	-2.036	-0.009	-0.198	-0.007	-13.087
			22:COM9	26:COM13	22:COM9	18:COM5	30:COM17	18:COM5
	5041	-ve	8.796	2.120	0.004	0.171	0.011	0.000
			28:COM15	24:COM11	28:COM15	24:COM17	28:COM15	-
			-10.659	-3.631	-0.009	-0.198	-0.012	-13.594
			22:COM9	18:COM5	22:COM9	18:COM5	22:COM9	18:COM5
12266	5043	+ve	7.747	6.598	0.000	0.515	0.051	4.809
			28:COM15	16:COM3	-	16:COM3	16:COM3	24:COM17
			-9.698	0.000	-0.044	-0.009	-0.003	-12.018
			22:COM9	-	18:COM5	26:COM13	26:COM13	18:COM5
	5042	-ve	7.747	4.765	0.000	0.515	0.001	0.000
			28:COM15	16:COM3	-	16:COM3	28:COM15	-
			-9.698	-1.251	-0.044	-0.009	-0.045	-13.090
			22:COM9	26:COM13	18:COM5	26:COM13	22:COM9	18:COM5
12267	5044	+ve	6.381	7.762	0.000	0.741	0.028	16.960
			28:COM15	16:COM3	-	20:COM7	16:COM3	16:COM3
			-8.341	0.000	-0.038	0.000	-0.001	-6.565
			22:COM9	-	22:COM9	-	26:COM13	26:COM13
	5043	-ve	6.381	5.929	0.000	0.741	0.001	4.938
			28:COM15	16:COM3	-	20:COM7	28:COM15	24:COM17
			-8.341	0.000	-0.038	0.000	-0.049	-11.930
			22:COM9	-	22:COM9	-	22:COM9	18:COM5
12268	5047	+ve	11.137	6.719	0.007	0.566	0.032	9.325
			20:COM7	20:COM7	28:COM15	16:COM3	20:COM7	20:COM7
			-9.815	0.000	-0.050	-0.481	0.000	-0.737
			30:COM17	-	22:COM9	26:COM13	-	30:COM17
	5046	-ve	11.137	4.887	0.007	0.566	0.022	0.358
			20:COM7	20:COM7	28:COM15	16:COM3	28:COM15	24:COM17
			-9.815	0.000	-0.050	-0.481	-0.068	-9.132
			30:COM17	-	22:COM9	26:COM13	22:COM9	18:COM5
12270	5049	+ve	5.571	57.705	1.051	0.000	1.498	10.723
			20:COM7	16:COM3	28:COM15	-	20:COM7	16:COM3
			-0.980	-40.361	-1.735	-3.228	-0.987	0.000
			30:COM17	26:COM13	22:COM9	18:COM5	30:COM17	-
	5475	-ve	5.571	55.379	1.051	0.000	1.134	85.583
			20:COM7	16:COM3	28:COM15	-	28:COM15	24:COM17
			-0.980	-42.105	-1.735	-3.228	-2.001	-103.684
			30:COM17	26:COM13	22:COM9	18:COM5	22:COM9	18:COM5
12272	4999	+ve	24.572	80.688	1.252	0.000	1.376	9.667
			16:COM3	16:COM3	28:COM15	-	20:COM7	24:COM17
			-18.439	-70.897	-1.706	-6.746	-1.160	-13.389
			26:COM13	26:COM13	22:COM9	18:COM5	30:COM17	18:COM5
	5489	-ve	24.572	77.897	1.252	0.000	1.367	132.829
			16:COM3	16:COM3	28:COM15	-	28:COM15	24:COM17
			-18.439	-72.990	-1.706	-6.746	-2.065	-151.371
			26:COM13	26:COM13	22:COM9	18:COM5	22:COM9	18:COM5

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
12274	5053	+ve	14.935	8.737	0.024	0.254	0.031	0.654
			24:COM1	16:COM3	28:COM1	24:COM1	20:COM7	24:COM1
			-16.634	0.000	-0.023	-0.255	-0.031	-13.856
			18:COM5	-	22:COM9	18:COM5	30:COM1	18:COM5
	5074	-ve	14.935	6.051	0.024	0.254	0.019	0.000
			24:COM1	16:COM3	28:COM1	24:COM1	20:COM7	-
			-16.634	0.000	-0.023	-0.255	-0.017	-22.403
			18:COM5	-	22:COM9	18:COM5	30:COM1	34:CVOL3
12275	5054	+ve	14.852	14.402	0.025	0.010	0.015	21.578
			24:COM1	34:CVOL3	20:COM7	28:COM1	28:COM1	16:COM3
			-16.141	0.000	-0.015	-0.370	-0.025	-0.193
			18:COM5	-	30:COM1	35:CVOL4	22:COM9	26:COM1
	5053	-ve	14.852	10.779	0.025	0.010	0.026	0.693
			24:COM1	34:CVOL3	20:COM7	28:COM1	16:COM3	24:COM1
			-16.141	0.000	-0.015	-0.370	-0.015	-13.903
			18:COM5	-	30:COM1	35:CVOL4	26:COM1	18:COM5
12284	5038	+ve	0.000	0.604	0.000	0.000	0.079	0.198
			-	24:COM11	-	-	20:COM7	24:COM1
			-4.185	-2.006	-0.133	-0.189	0.000	-0.859
			18:COM5	18:COM5	22:COM9	22:COM9	-	18:COM5
	5018	-ve	0.000	0.000	0.000	0.000	0.000	3.004
			-	-	-	-	-	16:COM3
			-4.185	-4.173	-0.133	-0.189	-0.087	0.000
			18:COM5	18:COM5	22:COM9	22:COM9	22:COM9	-
12285	5037	+ve	0.000	1.941	0.000	0.000	0.807	0.111
			-	16:COM3	-	-	16:COM3	24:COM1
			-2.360	-0.373	-1.585	-5.035	0.000	-0.266
			18:COM5	26:COM1	18:COM5	22:COM9	-	18:COM5
	5017	-ve	0.000	0.000	0.000	0.000	0.000	1.709
			-	-	-	-	-	16:COM3
			-2.360	-3.198	-1.585	-5.035	-1.179	-0.408
			18:COM5	18:COM5	18:COM5	22:COM9	18:COM5	26:COM1
12286	5036	+ve	0.000	0.672	0.016	0.000	0.035	0.164
			-	16:COM3	24:COM1	-	16:COM3	16:COM3
			-0.943	0.000	-0.060	-0.100	-0.012	0.000
			22:COM9	-	18:COM5	18:COM5	26:COM1	-
	5016	-ve	0.000	0.000	0.016	0.000	0.008	0.913
			-	-	24:COM1	-	24:COM1	16:COM3
			-0.943	-1.860	-0.060	-0.100	-0.040	0.000
			22:COM9	34:CVOL3	18:COM5	18:COM5	18:COM5	-
12287	5035	+ve	0.000	1.105	0.065	0.059	0.016	0.327
			-	35:CVOL4	16:COM3	16:COM3	24:COM1	35:CVOL4
			-1.241	0.000	-0.025	-0.027	-0.043	0.000
			18:COM5	-	26:COM1	26:COM1	18:COM5	-
	5015	-ve	0.000	0.000	0.065	0.059	0.038	0.697
			-	-	16:COM3	16:COM3	16:COM3	16:COM3
			-1.241	-1.469	-0.025	-0.027	-0.015	0.000
			18:COM5	18:COM5	26:COM1	26:COM1	26:COM1	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
12288	5034	+ve	0.775	1.548	0.146	0.162	0.000	0.456
			24:COM1	16:COM3	16:COM3	16:COM3	-	16:COM3
			-3.021	-0.851	0.000	0.000	-0.094	-0.288
			18:COM5	26:COM1	-	-	18:COM5	26:COM1
	5014	-ve	0.775	0.000	0.146	0.162	0.088	1.809
			24:COM1	-	16:COM3	16:COM3	16:COM3	16:COM3
			-3.021	-2.687	0.000	0.000	0.000	-0.377
			18:COM5	18:COM5	-	-	-	26:COM1
12289	5033	+ve	1.120	1.872	0.152	0.197	0.000	0.676
			24:COM1	24:COM1	34:CVOL3	20:COM7	-	24:COM1
			-6.066	-3.564	0.000	0.000	-0.094	-1.430
			18:COM5	18:COM5	-	-	34:CVOL3	18:COM5
	5013	-ve	1.120	0.622	0.152	0.197	0.096	4.381
			24:COM1	24:COM1	34:CVOL3	20:COM7	34:CVOL3	16:COM3
			-6.066	-5.730	0.000	0.000	0.000	-0.884
			18:COM5	18:COM5	-	-	-	26:COM1
12290	5044	+ve	0.723	1.586	0.000	0.000	0.090	0.553
			24:COM1	24:COM1	-	-	16:COM3	24:COM1
			-6.725	-4.246	-0.145	-0.186	0.000	-1.676
			18:COM5	18:COM5	35:CVOL4	35:CVOL4	-	18:COM5
	5024	-ve	0.723	0.337	0.000	0.000	0.000	4.989
			24:COM1	24:COM1	-	-	-	16:COM3
			-6.725	-6.412	-0.145	-0.186	-0.092	-0.650
			18:COM5	18:COM5	35:CVOL4	35:CVOL4	35:CVOL4	26:COM1
12291	5042	+ve	0.274	1.526	0.000	0.026	0.036	0.413
			16:COM3	35:CVOL4	-	24:COM1	16:COM3	35:CVOL4
			-0.625	0.000	-0.054	-0.084	0.000	0.000
			26:COM1	-	18:COM5	18:COM5	-	-
	5022	-ve	0.274	0.000	0.000	0.026	0.000	0.408
			16:COM3	-	-	24:COM1	-	24:COM1
			-0.625	-1.139	-0.054	-0.084	-0.032	-0.064
			26:COM1	18:COM5	18:COM5	18:COM5	18:COM5	18:COM5
12292	5041	+ve	0.471	1.557	0.055	0.094	0.000	0.427
			16:COM3	35:CVOL4	16:COM3	16:COM3	-	20:COM7
			-0.739	0.000	0.000	-0.019	-0.035	0.000
			26:COM1	-	-	26:COM1	18:COM5	-
	5021	-ve	0.471	0.000	0.055	0.094	0.033	0.324
			16:COM3	-	16:COM3	16:COM3	16:COM3	24:COM1
			-0.739	-1.083	0.000	-0.019	0.000	-0.025
			26:COM1	22:COM9	-	26:COM1	-	18:COM5
12293	5040	+ve	0.642	1.308	0.128	0.180	0.000	0.382
			24:COM1	16:COM3	16:COM3	16:COM3	-	16:COM3
			-2.683	-0.605	0.000	0.000	-0.083	-0.255
			18:COM5	26:COM1	-	-	18:COM5	26:COM1
	5020	-ve	0.642	0.000	0.128	0.180	0.078	1.529
			24:COM1	-	16:COM3	16:COM3	16:COM3	16:COM3
			-2.683	-2.449	0.000	0.000	0.000	-0.145
			18:COM5	18:COM5	-	-	-	26:COM1

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
12294	5039	+ve	0.494	1.131	0.158	0.202	0.000	0.414
			24:COM1	24:COM11	35:CVOL4	20:COM7	-	24:COM1
			-6.049	-3.310	0.000	0.000	-0.097	-1.353
			18:COM5	18:COM5	-	-	35:CVOL4	18:COM5
	5019	-ve	0.494	0.000	0.158	0.202	0.101	4.142
			24:COM1	-	35:CVOL4	20:COM7	35:CVOL4	16:COM3
			-6.049	-5.476	0.000	0.000	0.000	-0.221
			18:COM5	18:COM5	-	-	-	26:COM1
12295	5043	+ve	0.650	1.424	0.000	0.000	0.084	0.382
			24:COM1	16:COM3	-	-	16:COM3	16:COM3
			-3.022	-0.938	-0.129	-0.172	0.000	-0.319
			18:COM5	26:COM1	18:COM5	18:COM5	-	26:COM1
	5023	-ve	0.650	0.000	0.000	0.000	0.000	1.932
			24:COM1	-	-	-	-	16:COM3
			-3.022	-2.836	-0.129	-0.172	-0.077	-0.341
			18:COM5	18:COM5	18:COM5	18:COM5	18:COM5	26:COM1
12296	5047	+ve	2.075	2.509	0.076	0.106	0.078	0.804
			24:COM1	24:COM11	24:COM11	24:COM1	16:COM3	24:COM1
			-5.654	-3.235	-0.126	-0.146	-0.045	-1.238
			18:COM5	18:COM5	18:COM5	18:COM5	26:COM1	18:COM5
	5030	-ve	2.075	1.260	0.076	0.106	0.050	4.162
			24:COM1	24:COM11	24:COM11	24:COM1	24:COM11	16:COM3
			-5.654	-5.401	-0.126	-0.146	-0.079	-1.553
			18:COM5	18:COM5	18:COM5	18:COM5	18:COM5	26:COM1
12297	5046	+ve	2.038	1.812	0.119	0.119	0.095	0.173
			16:COM3	16:COM3	24:COM11	24:COM1	16:COM3	16:COM3
			-2.804	-0.802	-0.148	-0.116	-0.073	-0.168
			26:COM1	26:COM1	18:COM5	18:COM5	26:COM1	26:COM1
	5029	-ve	2.038	0.159	0.119	0.119	0.076	1.732
			16:COM3	24:COM11	24:COM11	24:COM1	24:COM11	16:COM3
			-2.804	-2.564	-0.148	-0.116	-0.090	-0.856
			26:COM1	18:COM5	18:COM5	18:COM5	18:COM5	26:COM1
12298	5045	+ve	1.190	1.336	0.099	0.038	0.062	0.305
			16:COM3	35:CVOL4	24:COM11	16:COM3	16:COM3	16:COM3
			-0.533	0.000	-0.101	-0.026	-0.059	-0.217
			26:COM1	-	18:COM5	26:COM1	26:COM1	26:COM1
	5028	-ve	1.190	0.000	0.099	0.038	0.065	0.329
			16:COM3	-	24:COM11	16:COM3	24:COM11	24:COM1
			-0.533	-1.177	-0.101	-0.026	-0.064	-0.082
			26:COM1	32:CVOL1	18:COM5	26:COM1	18:COM5	18:COM5
12301	4999	+ve	0.677	9.209	0.014	0.734	0.015	20.294
			24:COM1	16:COM3	16:COM3	16:COM3	24:COM11	16:COM3
			-1.227	0.000	-0.007	-0.043	-0.028	0.000
			18:COM5	-	26:COM1	26:COM1	18:COM5	-
	5126	-ve	0.677	1.267	0.014	0.734	0.029	1.103
			24:COM1	24:COM11	16:COM3	16:COM3	16:COM3	16:COM3
			-1.227	-2.041	-0.007	-0.043	-0.016	-0.530
			18:COM5	18:COM5	26:COM1	26:COM1	26:COM1	26:COM1

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
12311	5074	+ve	14.784	3.875	0.017	0.324	0.027	0.000
			24:COM1	16:COM3	24:COM1	16:COM3	20:COM7	-
			-16.514	-0.699	-0.020	-0.280	-0.023	-22.381
			18:COM5	26:COM1	18:COM5	26:COM1	30:COM1	34:CVOL
	5075	-ve	14.784	1.319	0.017	0.324	0.014	0.000
			24:COM1	24:COM1	24:COM1	16:COM3	24:COM1	-
			-16.514	-2.844	-0.020	-0.280	-0.018	-23.511
			18:COM5	18:COM5	18:COM5	26:COM1	18:COM5	34:CVOL
12312	5075	+ve	14.352	0.000	0.013	0.281	0.024	0.000
			24:COM1	-	24:COM1	16:COM3	16:COM3	-
			-15.838	-4.955	-0.022	-0.262	-0.016	-23.517
			18:COM5	18:COM5	18:COM5	26:COM1	26:COM1	34:CVOL
	5076	-ve	14.352	0.000	0.013	0.281	0.012	0.000
			24:COM1	-	24:COM1	16:COM3	24:COM1	-
			-15.838	-7.641	-0.022	-0.262	-0.022	-16.387
			18:COM5	18:COM5	18:COM5	26:COM1	18:COM5	18:COM5
12313	5076	+ve	13.782	0.000	0.015	0.208	0.031	0.000
			24:COM1	-	28:COM1	35:CVOL	20:COM7	-
			-14.569	-9.224	-0.031	-0.161	-0.017	-16.460
			18:COM5	34:CVOL	22:COM9	32:CVOL1	30:COM1	18:COM5
	5077	-ve	13.782	0.000	0.015	0.208	0.013	15.062
			24:COM1	-	28:COM1	35:CVOL	28:COM1	16:COM3
			-14.569	-13.035	-0.031	-0.161	-0.031	-3.154
			18:COM5	32:CVOL1	22:COM9	32:CVOL1	22:COM9	26:COM1
12318	5080	+ve	2.761	8.184	0.051	0.043	0.047	9.296
			20:COM7	16:COM3	28:COM1	24:COM1	20:COM7	20:COM7
			-2.166	-7.512	-0.059	-0.490	-0.042	0.000
			30:COM1	26:COM1	22:COM9	18:COM5	30:COM1	-
	5517	-ve	2.761	6.423	0.051	0.043	0.060	24.847
			20:COM7	24:COM1	28:COM1	24:COM1	28:COM1	16:COM3
			-2.166	-9.031	-0.059	-0.490	-0.073	-9.699
			30:COM1	18:COM5	22:COM9	18:COM5	22:COM9	26:COM1
12320	5080	+ve	0.110	1.965	0.095	0.092	0.093	0.751
			28:COM1	16:COM3	24:COM1	24:COM1	16:COM3	20:COM7
			-0.856	0.000	-0.149	-0.183	-0.060	0.000
			22:COM9	-	18:COM5	18:COM5	26:COM1	-
	5049	-ve	0.110	0.146	0.095	0.092	0.058	0.272
			28:COM1	24:COM1	24:COM1	24:COM1	24:COM1	16:COM3
			-0.856	-0.936	-0.149	-0.183	-0.093	-0.416
			22:COM9	18:COM5	18:COM5	18:COM5	18:COM5	26:COM1
12321	5517	+ve	2.535	5.976	0.292	22.360	0.000	0.574
			28:COM1	24:COM1	20:COM7	16:COM3	-	24:COM1
			-2.718	-15.136	-0.201	-1.697	-0.253	-0.762
			22:COM9	18:COM5	30:COM1	26:COM1	18:COM5	18:COM5
	5475	-ve	2.535	3.858	0.292	22.360	0.184	20.145
			28:COM1	24:COM1	20:COM7	16:COM3	28:COM1	16:COM3
			-2.718	-18.458	-0.201	-1.697	-0.390	-5.549
			22:COM9	18:COM5	30:COM1	26:COM1	22:COM9	26:COM1

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
12328	5086	+ve	2.009	21.524	0.077	2.505	0.465	57.025
			16:COM3	34:CVOL3	24:COM11	16:COM3	16:COM3	34:CVOL3
			-2.102	0.000	-0.496	-0.372	-0.034	0.000
			26:COM13	-	18:COM5	26:COM13	26:COM13	-
	5087	-ve	2.009	19.249	0.077	2.505	0.120	17.851
			16:COM3	34:CVOL3	24:COM11	16:COM3	24:COM11	32:CVOL1
			-2.102	0.000	-0.496	-0.372	-0.516	0.000
			26:COM13	-	18:COM5	26:COM13	18:COM5	-
12329	5087	+ve	1.476	11.070	0.320	0.714	0.118	18.159
			24:COM11	32:CVOL1	20:COM7	32:CVOL1	28:COM15	32:CVOL1
			-1.566	0.000	-0.156	-0.613	-0.304	0.000
			18:COM5	-	30:COM17	35:CVOL4	22:COM9	-
	4964	-ve	1.476	8.415	0.320	0.714	0.328	0.000
			24:COM11	32:CVOL1	20:COM7	32:CVOL1	20:COM7	-
			-1.566	0.000	-0.156	-0.613	-0.191	-1.064
			18:COM5	-	30:COM17	35:CVOL4	30:COM17	32:CVOL1
12330	5088	+ve	4.169	26.007	1.376	0.000	0.064	44.538
			16:COM3	34:CVOL3	20:COM7	-	28:COM15	34:CVOL3
			-3.398	0.000	-0.093	-11.144	-1.234	0.000
			26:COM13	-	30:COM17	34:CVOL3	22:COM9	-
	4965	-ve	4.169	23.623	1.376	0.000	1.148	1.963
			16:COM3	34:CVOL3	20:COM7	-	20:COM7	32:CVOL1
			-3.398	0.000	-0.093	-11.144	-0.109	0.000
			26:COM13	-	30:COM17	34:CVOL3	30:COM17	-
12331	5086	+ve	0.005	6.397	0.002	0.154	0.005	5.338
			24:COM11	35:CVOL4	16:COM3	16:COM3	28:COM15	35:CVOL4
			-0.794	0.000	-0.002	0.000	-0.006	0.000
			18:COM5	-	26:COM13	-	22:COM9	-
	5088	-ve	0.005	0.000	0.002	0.154	0.008	5.623
			24:COM11	-	16:COM3	16:COM3	16:COM3	35:CVOL4
			-0.794	-6.493	-0.002	0.000	-0.005	0.000
			18:COM5	34:CVOL3	26:COM13	-	26:COM13	-
12332	5087	+ve	4.574	5.861	0.005	0.141	0.000	4.970
			16:COM3	35:CVOL4	20:COM7	16:COM3	-	35:CVOL4
			0.000	0.000	0.000	0.000	-0.016	0.000
			-	-	-	-	22:COM9	-
	4965	-ve	4.574	0.000	0.005	0.141	0.015	6.206
			16:COM3	-	20:COM7	16:COM3	20:COM7	35:CVOL4
			0.000	-6.285	0.000	0.000	0.000	0.000
			-	34:CVOL3	-	-	-	-
12337	5091	+ve	1.439	6.353	0.000	0.357	0.029	18.887
			20:COM7	16:COM3	-	16:COM3	16:COM3	34:CVOL3
			-1.424	0.000	-0.043	0.000	0.000	0.000
			30:COM17	-	18:COM5	-	-	-
	5092	-ve	1.439	4.488	0.000	0.357	0.000	8.803
			20:COM7	16:COM3	-	16:COM3	-	34:CVOL3
			-1.424	0.000	-0.043	0.000	-0.057	0.000
			30:COM17	-	18:COM5	-	22:COM9	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
12338	5092	+ve	0.536	4.859	0.000	0.219	0.079	8.703
			28:COM15	32:CVOL1	-	32:CVOL1	16:COM3	34:CVOL3
			-0.736	0.000	-0.072	0.000	0.000	0.000
			22:COM9	-	22:COM9	-	-	-
	4963	-ve	0.536	2.531	0.000	0.219	0.000	0.050
			28:COM15	34:CVOL3	-	32:CVOL1	-	24:COM11
			-0.736	0.000	-0.072	0.000	-0.094	-0.033
			22:COM9	-	22:COM9	-	22:COM9	18:COM5
12339	5091	+ve	0.000	0.000	0.031	0.033	0.039	0.000
			-	-	24:COM11	24:COM11	16:COM3	-
			-6.790	-4.496	-0.068	-0.099	-0.022	-1.847
			18:COM5	18:COM5	18:COM5	18:COM5	26:COM13	18:COM5
	5086	-ve	0.000	0.000	0.031	0.033	0.017	5.072
			-	-	24:COM11	24:COM11	24:COM11	16:COM3
			-6.790	-6.648	-0.068	-0.099	-0.045	0.000
			18:COM5	18:COM5	18:COM5	18:COM5	18:COM5	-
12340	5092	+ve	0.000	0.304	0.000	0.000	0.061	0.096
			-	24:COM11	-	-	34:CVOL3	24:COM11
			-3.917	-1.433	-0.093	-0.090	0.000	-0.523
			18:COM5	18:COM5	34:CVOL3	34:CVOL3	-	18:COM5
	5087	-ve	0.000	0.000	0.000	0.000	0.000	2.583
			-	-	-	-	-	16:COM3
			-3.917	-3.580	-0.093	-0.090	-0.054	0.000
			18:COM5	18:COM5	34:CVOL3	34:CVOL3	34:CVOL3	-
12341	5088	+ve	0.086	7.159	0.006	0.494	0.004	8.079
			24:COM11	34:CVOL3	20:COM7	34:CVOL3	28:COM15	34:CVOL3
			-0.566	0.000	-0.001	0.000	-0.013	0.000
			18:COM5	-	30:COM17	-	22:COM9	-
	5127	-ve	0.086	0.000	0.006	0.494	0.012	0.000
			24:COM11	-	20:COM7	34:CVOL3	20:COM7	-
			-0.566	-2.542	-0.001	0.000	-0.001	-2.393
			18:COM5	35:CVOL4	30:COM17	-	30:COM17	32:CVOL1
12343	4974	+ve	0.739	8.496	0.005	0.325	0.009	15.584
			16:COM3	34:CVOL3	16:COM3	16:COM3	24:COM11	34:CVOL3
			-0.408	0.000	-0.005	0.000	-0.009	0.000
			26:COM13	-	26:COM13	-	18:COM5	-
	5093	-ve	0.739	0.000	0.005	0.325	0.012	0.027
			16:COM3	-	16:COM3	16:COM3	16:COM3	35:CVOL4
			-0.408	-1.615	-0.005	0.000	-0.012	-0.155
			26:COM13	35:CVOL4	26:COM13	-	26:COM13	32:CVOL1
12344	4975	+ve	0.683	7.798	0.004	0.337	0.006	13.015
			16:COM3	34:CVOL3	16:COM3	34:CVOL3	24:COM11	34:CVOL3
			-0.482	0.000	-0.004	0.000	-0.006	0.000
			26:COM13	-	26:COM13	-	18:COM5	-
	5094	-ve	0.683	0.000	0.004	0.337	0.009	0.392
			16:COM3	-	16:COM3	34:CVOL3	16:COM3	16:COM3
			-0.482	-2.269	-0.004	0.000	-0.009	-0.088
			26:COM13	18:COM5	26:COM13	-	26:COM13	26:COM13

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
12345	4976	+ve	0.592	7.382	0.003	0.284	0.004	13.222
			16:COM3	34:CVOL3	16:COM3	16:COM3	24:COM11	16:COM3
			-0.084	0.000	-0.002	0.000	-0.006	0.000
			26:COM13	-	26:COM13	-	18:COM5	-
	5095	-ve	0.592	0.000	0.003	0.284	0.006	1.662
			16:COM3	-	16:COM3	16:COM3	16:COM3	16:COM3
			-0.084	-2.648	-0.002	0.000	-0.004	0.000
			26:COM13	18:COM5	26:COM13	-	26:COM13	-
12346	5096	+ve	11.630	14.073	0.023	0.220	0.028	35.616
			24:COM11	16:COM3	24:COM11	24:COM11	24:COM11	16:COM3
			-12.054	0.000	-0.028	-1.060	-0.035	0.000
			18:COM5	-	18:COM5	18:COM5	18:COM5	-
	5124	-ve	11.630	11.389	0.023	0.220	0.015	10.555
			24:COM11	16:COM3	24:COM11	24:COM11	28:COM15	16:COM3
			-12.054	0.000	-0.028	-1.060	-0.032	0.000
			18:COM5	-	18:COM5	18:COM5	22:COM9	-
12347	4922	+ve	1.248	39.010	0.573	26.506	0.326	81.617
			24:COM11	32:CVOL1	16:COM3	16:COM3	24:COM11	32:CVOL1
			-1.739	0.000	-0.290	-13.292	-0.618	0.000
			18:COM5	-	26:COM13	26:COM13	18:COM5	-
	5096	-ve	1.248	32.409	0.573	26.506	0.714	0.194
			24:COM11	32:CVOL1	16:COM3	16:COM3	16:COM3	24:COM11
			-1.739	0.000	-0.290	-13.292	-0.347	-2.208
			18:COM5	-	26:COM13	26:COM13	26:COM13	18:COM5
12348	5052	+ve	3.792	26.395	0.089	1.764	0.051	9.212
			16:COM3	34:CVOL3	16:COM3	34:CVOL3	24:COM11	16:COM3
			-2.988	0.000	-0.079	0.000	-0.064	-8.444
			26:COM13	-	26:COM13	-	18:COM5	26:COM13
	5051	-ve	3.792	22.767	0.089	1.764	0.111	0.000
			16:COM3	34:CVOL3	16:COM3	34:CVOL3	16:COM3	-
			-2.988	0.000	-0.079	0.000	-0.106	-48.159
			26:COM13	-	26:COM13	-	26:COM13	34:CVOL3
12349	5051	+ve	9.451	3.251	0.138	0.000	0.124	0.000
			24:COM11	32:CVOL1	16:COM3	-	24:COM11	-
			-9.091	-1.935	-0.111	-0.861	-0.158	-43.013
			18:COM5	35:CVOL4	26:COM13	35:CVOL4	18:COM5	34:CVOL3
	5050	-ve	9.451	0.959	0.138	0.000	0.110	0.000
			24:COM11	24:COM11	16:COM3	-	16:COM3	-
			-9.091	-4.241	-0.111	-0.861	-0.092	-40.378
			18:COM5	18:COM5	26:COM13	35:CVOL4	26:COM13	34:CVOL3
12350	5050	+ve	10.087	0.605	0.068	0.000	0.062	0.000
			24:COM11	24:COM11	16:COM3	-	24:COM11	-
			-10.404	-4.687	-0.053	-0.829	-0.077	-40.498
			18:COM5	18:COM5	26:COM13	18:COM5	18:COM5	34:CVOL3
	5093	-ve	10.087	0.000	0.068	0.000	0.060	0.000
			24:COM11	-	16:COM3	-	16:COM3	-
			-10.404	-7.428	-0.053	-0.829	-0.046	-30.334
			18:COM5	18:COM5	26:COM13	18:COM5	26:COM13	34:CVOL3

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
12351	5093	+ve	11.210	0.000	0.046	0.000	0.045	0.000
			24:COM1	-	16:COM3	-	24:COM1	-
			-11.972	-8.326	-0.037	-0.838	-0.053	-30.634
			18:COM5	18:COM5	26:COM1	18:COM5	18:COM5	34:CVOL
	5094	-ve	11.210	0.000	0.046	0.000	0.038	0.000
			24:COM1	-	16:COM3	-	16:COM3	-
			-11.972	-11.480	-0.037	-0.838	-0.029	-13.963
			18:COM5	34:CVOL	26:COM1	18:COM5	26:COM1	18:COM5
12352	5094	+ve	12.652	0.000	0.027	0.000	0.028	0.000
			24:COM1	-	28:COM1	-	20:COM7	-
			-13.446	-13.119	-0.025	-0.621	-0.028	-14.255
			18:COM5	34:CVOL	22:COM9	34:CVOL	30:COM1	18:COM5
	5095	-ve	12.652	0.000	0.027	0.000	0.028	20.923
			24:COM1	-	28:COM1	-	28:COM1	16:COM3
			-13.446	-16.748	-0.025	-0.621	-0.025	0.000
			18:COM5	34:CVOL	22:COM9	34:CVOL	22:COM9	-
12353	5095	+ve	14.464	0.000	0.025	1.229	0.036	20.642
			24:COM1	-	28:COM1	16:COM3	20:COM7	16:COM3
			-14.810	-18.788	-0.037	0.000	-0.028	0.000
			18:COM5	34:CVOL	22:COM9	-	30:COM1	-
	4968	-ve	14.464	0.000	0.025	1.229	0.023	58.067
			24:COM1	-	28:COM1	16:COM3	28:COM1	34:CVOL
			-14.810	-22.418	-0.037	0.000	-0.038	0.000
			18:COM5	34:CVOL	22:COM9	-	22:COM9	-
12354	5046	+ve	12.170	4.899	0.054	0.273	0.092	0.240
			20:COM7	20:COM7	24:COM1	16:COM3	16:COM3	24:COM1
			-9.587	0.000	-0.098	-0.307	-0.039	-9.016
			30:COM1	-	18:COM5	26:COM1	26:COM1	18:COM5
	5045	-ve	12.170	3.067	0.054	0.273	0.068	0.000
			20:COM7	20:COM7	24:COM1	16:COM3	24:COM1	-
			-9.587	-0.077	-0.098	-0.307	-0.101	-12.236
			30:COM1	30:COM1	18:COM5	26:COM1	18:COM5	18:COM5
12355	5045	+ve	11.838	1.938	0.080	0.098	0.079	0.000
			20:COM7	20:COM7	16:COM3	28:COM1	16:COM3	-
			-8.611	-0.528	-0.074	-0.122	-0.073	-12.196
			30:COM1	30:COM1	26:COM1	22:COM9	26:COM1	18:COM5
	5071	-ve	11.838	0.408	0.080	0.098	0.086	0.000
			20:COM7	28:COM1	16:COM3	28:COM1	16:COM3	-
			-8.611	-2.204	-0.074	-0.122	-0.069	-11.879
			30:COM1	22:COM9	26:COM1	22:COM9	26:COM1	22:COM9
12356	5071	+ve	10.737	0.000	0.085	0.250	0.041	0.000
			20:COM7	-	16:COM3	24:COM1	24:COM1	-
			-7.012	-2.898	-0.037	-0.276	-0.079	-11.830
			30:COM1	22:COM9	26:COM1	18:COM5	18:COM5	22:COM9
	5072	-ve	10.737	0.000	0.085	0.250	0.090	0.000
			20:COM7	-	16:COM3	24:COM1	16:COM3	-
			-7.012	-4.729	-0.037	-0.276	-0.032	-7.644
			30:COM1	22:COM9	26:COM1	18:COM5	26:COM1	22:COM9

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
12357	5072	+ve	8.428	0.000	0.059	0.354	0.014	0.000
			20:COM7	-	16:COM3	24:COM1	24:COM1	-
			-4.717	-4.928	-0.017	-0.464	-0.061	-7.562
			30:COM1	22:COM9	26:COM1	18:COM5	18:COM5	22:COM9
	5073	-ve	8.428	0.000	0.059	0.354	0.055	9.556
			20:COM7	-	16:COM3	24:COM1	16:COM3	20:COM7
			-4.717	-6.759	-0.017	-0.464	-0.019	-0.585
			30:COM1	22:COM9	26:COM1	18:COM5	26:COM1	30:COM1
12358	5073	+ve	5.186	0.000	0.013	0.646	0.062	9.518
			20:COM7	-	28:COM1	24:COM1	20:COM7	20:COM7
			-1.839	-6.391	-0.070	-0.595	-0.004	-0.517
			30:COM1	18:COM5	22:COM9	18:COM5	30:COM1	30:COM1
	4958	-ve	5.186	0.000	0.013	0.646	0.026	22.521
			20:COM7	-	28:COM1	24:COM1	28:COM1	20:COM7
			-1.839	-8.225	-0.070	-0.595	-0.081	0.000
			30:COM1	18:COM5	22:COM9	18:COM5	22:COM9	-
12360	5107	+ve	0.363	1.442	0.105	0.056	0.014	0.083
			28:COM1	32:CVOL1	20:COM7	28:COM1	28:COM1	28:COM1
			-0.691	0.000	-0.019	-0.136	-0.073	-0.062
			22:COM9	-	30:COM1	22:COM9	22:COM9	22:COM9
	5111	-ve	0.363	0.000	0.105	0.056	0.065	0.274
			28:COM1	-	20:COM7	28:COM1	20:COM7	28:COM1
			-0.691	-1.344	-0.019	-0.136	-0.011	-0.324
			22:COM9	32:CVOL1	30:COM1	22:COM9	30:COM1	22:COM9
12361	5107	+ve	0.373	0.000	0.028	0.102	0.005	0.026
			24:COM1	-	20:COM7	20:COM7	28:COM1	28:COM1
			-0.789	-1.442	-0.004	-0.096	-0.033	-0.109
			18:COM5	32:CVOL1	30:COM1	30:COM1	22:COM9	22:COM9
	5114	-ve	0.373	0.000	0.028	0.102	0.031	6.040
			24:COM1	-	20:COM7	20:COM7	20:COM7	32:CVOL1
			-0.789	-3.904	-0.004	-0.096	-0.003	0.000
			18:COM5	32:CVOL1	30:COM1	30:COM1	30:COM1	-
12367	5111	+ve	0.278	4.576	0.013	0.000	0.000	0.886
			28:COM1	32:CVOL1	20:COM7	-	28:COM1	28:COM1
			-3.035	0.000	-0.000	-0.486	-0.029	-1.824
			22:COM9	-	30:COM1	34:CVOL	22:COM9	22:COM9
	5137	-ve	0.278	0.000	0.013	0.000	0.025	0.984
			28:COM1	-	20:COM7	-	20:COM7	28:COM1
			-3.035	-4.052	-0.000	-0.486	-0.002	-2.613
			22:COM9	32:CVOL1	30:COM1	34:CVOL	30:COM1	22:COM9
12368	5111	+ve	1.505	0.000	0.066	1.857	0.141	0.591
			16:COM3	-	28:COM1	20:COM7	20:COM7	20:COM7
			-0.531	-5.920	-0.213	-0.773	-0.127	-0.747
			26:COM1	32:CVOL1	22:COM9	30:COM1	30:COM1	30:COM1
	5112	-ve	1.505	0.000	0.066	1.857	0.000	12.761
			16:COM3	-	28:COM1	20:COM7	-	32:CVOL1
			-0.531	-8.400	-0.213	-0.773	-0.255	0.000
			26:COM1	32:CVOL1	22:COM9	30:COM1	22:COM9	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
12369	5113	+ve	3.305	0.000	0.745	1.826	0.536	39.117
			24:COM1	-	20:COM7	28:COM1	20:COM7	32:CVOL1
			-3.256	-23.980	-0.688	-3.895	-0.443	0.000
			18:COM5	34:CVOL3	30:COM1	22:COM9	30:COM1	-
	4936	-ve	3.305	0.000	0.745	1.826	0.970	84.570
			24:COM1	-	20:COM7	28:COM1	20:COM7	32:CVOL1
			-3.256	-26.106	-0.688	-3.895	-0.774	0.000
			18:COM5	34:CVOL3	30:COM1	22:COM9	30:COM1	-
12370	5114	+ve	0.979	0.000	0.047	0.084	0.000	6.071
			28:COM1	-	34:CVOL3	28:COM1	-	32:CVOL1
			-1.842	-4.413	0.000	-0.268	-0.054	0.000
			22:COM9	18:COM5	-	22:COM9	34:CVOL3	-
	5115	-ve	0.979	0.000	0.047	0.084	0.034	15.956
			28:COM1	-	34:CVOL3	28:COM1	16:COM3	32:CVOL1
			-1.842	-6.367	0.000	-0.268	0.000	0.000
			22:COM9	32:CVOL1	-	22:COM9	-	-
12371	5115	+ve	2.798	0.000	0.024	0.160	0.050	16.001
			28:COM1	-	28:COM1	24:COM1	20:COM7	32:CVOL1
			-3.309	-6.514	-0.069	-0.384	-0.007	0.000
			22:COM9	18:COM5	22:COM9	18:COM5	30:COM1	-
	4955	-ve	2.798	0.000	0.024	0.160	0.037	27.985
			28:COM1	-	28:COM1	24:COM1	28:COM1	16:COM3
			-3.309	-8.226	-0.069	-0.384	-0.078	0.000
			22:COM9	18:COM5	22:COM9	18:COM5	22:COM9	-
12372	5114	+ve	0.692	1.266	0.038	0.045	0.000	0.236
			16:COM3	16:COM3	16:COM3	20:COM7	24:COM1	16:COM3
			-1.352	-0.208	-0.003	-0.026	-0.026	-0.145
			26:COM1	26:COM1	26:COM1	30:COM1	18:COM5	26:COM1
	5112	-ve	0.692	0.000	0.038	0.045	0.021	1.027
			16:COM3	-	16:COM3	20:COM7	16:COM3	16:COM3
			-1.352	-1.973	-0.003	-0.026	-0.003	-0.123
			26:COM1	18:COM5	26:COM1	30:COM1	26:COM1	26:COM1
12373	5115	+ve	0.000	0.532	0.039	0.086	0.000	0.179
			-	24:COM1	20:COM7	20:COM7	-	24:COM1
			-4.145	-1.915	-0.001	-0.022	-0.025	-0.802
			18:COM5	18:COM5	30:COM1	30:COM1	22:COM9	18:COM5
	5113	-ve	0.000	0.000	0.039	0.086	0.025	2.947
			-	-	20:COM7	20:COM7	20:COM7	16:COM3
			-4.145	-4.081	-0.001	-0.022	-0.002	0.000
			18:COM5	18:COM5	30:COM1	30:COM1	30:COM1	-
12378	5112	+ve	2.054	0.000	0.185	2.304	0.076	12.682
			16:COM3	-	24:COM1	20:COM7	16:COM3	32:CVOL1
			-1.923	-13.187	-0.243	-1.317	-0.152	0.000
			26:COM1	32:CVOL1	18:COM5	30:COM1	26:COM1	-
	5113	-ve	2.054	0.000	0.185	2.304	0.189	39.269
			16:COM3	-	24:COM1	20:COM7	24:COM1	32:CVOL1
			-1.923	-15.667	-0.243	-1.317	-0.372	0.000
			26:COM1	32:CVOL1	18:COM5	30:COM1	18:COM5	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
12379	5098	+ve	6.510	42.089	0.424	0.000	0.612	77.732
			20:COM7	34:CVOL3	24:COM11	-	16:COM3	34:CVOL3
			-4.265	0.000	-0.564	-45.393	-0.465	0.000
			30:COM17	-	18:COM5	18:COM5	26:COM13	-
	4967	-ve	6.510	34.861	0.424	0.000	0.535	0.000
			20:COM7	34:CVOL3	24:COM11	-	24:COM11	-
			-4.265	0.000	-0.564	-45.393	-0.716	-12.638
			30:COM17	-	18:COM5	18:COM5	18:COM5	34:CVOL3
12380	5489	+ve	0.000	0.000	1.006	9.995	0.565	0.000
			-	-	16:COM3	16:COM3	24:COM11	-
			-6.432	-20.472	-0.480	-2.780	-0.971	-12.532
			34:CVOL3	34:CVOL3	26:COM13	26:COM13	18:COM5	32:CVOL1
	5561	-ve	0.000	0.000	1.006	9.995	0.843	29.460
			-	-	16:COM3	16:COM3	16:COM3	34:CVOL3
			-6.432	-26.011	-0.480	-2.780	-0.302	0.000
			34:CVOL3	34:CVOL3	26:COM13	26:COM13	26:COM13	-
12381	5127	+ve	0.890	3.569	0.894	0.000	0.019	3.593
			24:COM11	32:CVOL1	20:COM7	-	28:COM15	32:CVOL1
			-0.936	0.000	-0.582	-4.405	-0.068	0.000
			18:COM5	-	30:COM17	32:CVOL1	22:COM9	-
	5119	-ve	0.890	3.119	0.894	0.000	0.130	2.890
			24:COM11	32:CVOL1	20:COM7	-	20:COM7	32:CVOL1
			-0.936	0.000	-0.582	-4.405	-0.115	0.000
			18:COM5	-	30:COM17	32:CVOL1	30:COM17	-
12383	5126	+ve	1.714	0.000	0.054	0.441	0.053	4.382
			28:COM15	-	16:COM3	24:COM11	24:COM11	16:COM3
			-2.604	-7.678	-0.062	-1.270	-0.051	-0.210
			22:COM9	18:COM5	26:COM13	18:COM5	18:COM5	26:COM13
	5560	-ve	1.714	0.000	0.054	0.441	0.060	22.622
			28:COM15	-	16:COM3	24:COM11	24:COM11	16:COM3
			-2.604	-11.326	-0.062	-1.270	-0.075	0.000
			22:COM9	32:CVOL1	26:COM13	18:COM5	18:COM5	-
12384	5120	+ve	2.450	0.620	0.013	0.000	0.037	0.000
			24:COM11	24:COM11	16:COM3	-	16:COM3	-
			-4.555	-0.756	-0.015	-1.043	-0.022	-8.349
			18:COM5	18:COM5	26:COM13	32:CVOL1	26:COM13	32:CVOL1
	5126	-ve	2.450	0.000	0.013	0.000	0.028	4.491
			24:COM11	-	16:COM3	-	16:COM3	16:COM3
			-4.555	-7.249	-0.015	-1.043	-0.020	0.000
			18:COM5	32:CVOL1	26:COM13	32:CVOL1	26:COM13	-
12385	5121	+ve	4.793	1.946	0.061	0.210	0.076	0.000
			24:COM11	32:CVOL1	24:COM11	24:COM11	16:COM3	-
			-7.022	0.000	-0.071	-0.859	-0.072	-8.825
			18:COM5	-	18:COM5	18:COM5	26:COM13	22:COM9
	5120	-ve	4.793	0.000	0.061	0.210	0.056	0.000
			24:COM11	-	24:COM11	24:COM11	24:COM11	-
			-7.022	-2.448	-0.071	-0.859	-0.071	-8.137
			18:COM5	18:COM5	18:COM5	18:COM5	18:COM5	32:CVOL1

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
12386	5122	+ve	7.285	2.942	0.122	0.609	0.132	0.000
			24:COM1	16:COM3	24:COM1	24:COM1	16:COM3	-
			-9.519	0.000	-0.122	-0.569	-0.126	-10.395
			18:COM5	-	18:COM5	18:COM5	26:COM1	18:COM5
	5121	-ve	7.285	0.462	0.122	0.609	0.117	0.000
			24:COM1	24:COM1	24:COM1	24:COM1	16:COM3	-
			-9.519	-2.193	-0.122	-0.569	-0.111	-8.867
			18:COM5	18:COM5	18:COM5	18:COM5	26:COM1	22:COM9
12387	5125	+ve	9.261	3.382	0.172	1.126	0.211	3.231
			24:COM1	32:CVOL1	24:COM1	16:COM3	16:COM3	24:COM1
			-11.355	0.000	-0.197	-0.532	-0.177	-10.368
			18:COM5	-	18:COM5	26:COM1	26:COM1	18:COM5
	5122	-ve	9.261	0.626	0.172	1.126	0.163	0.050
			24:COM1	16:COM3	24:COM1	16:COM3	24:COM1	24:COM1
			-11.355	-1.208	-0.197	-0.532	-0.179	-10.679
			18:COM5	26:COM1	18:COM5	26:COM1	18:COM5	18:COM5
12388	5123	+ve	11.207	4.653	0.163	1.125	0.205	4.435
			24:COM1	32:CVOL1	24:COM1	16:COM3	16:COM3	24:COM1
			-12.583	0.000	-0.215	0.000	-0.148	-5.048
			18:COM5	-	18:COM5	-	26:COM1	18:COM5
	5125	-ve	11.207	1.581	0.163	1.125	0.175	3.357
			24:COM1	16:COM3	24:COM1	16:COM3	24:COM1	24:COM1
			-12.583	-0.467	-0.215	0.000	-0.220	-10.807
			18:COM5	26:COM1	18:COM5	-	18:COM5	18:COM5
12389	5124	+ve	12.038	9.370	0.069	1.992	0.097	10.461
			24:COM1	16:COM3	24:COM1	16:COM3	16:COM3	16:COM3
			-12.654	0.000	-0.122	-0.453	-0.049	0.000
			18:COM5	-	18:COM5	26:COM1	26:COM1	-
	5123	-ve	12.038	6.742	0.069	1.992	0.085	3.994
			24:COM1	16:COM3	24:COM1	16:COM3	24:COM1	24:COM1
			-12.654	-1.161	-0.122	-0.453	-0.138	-5.167
			18:COM5	26:COM1	18:COM5	26:COM1	18:COM5	18:COM5
12398	5136	+ve	1.543	0.493	0.023	0.000	0.025	10.776
			28:COM1	24:COM1	20:COM7	-	20:COM7	20:COM7
			-2.930	-2.240	-0.016	-0.998	-0.013	0.000
			22:COM9	35:CVOL4	30:COM1	34:CVOL3	30:COM1	-
	5138	-ve	1.543	0.000	0.023	0.000	0.026	13.279
			28:COM1	-	20:COM7	-	16:COM3	34:CVOL3
			-2.930	-3.768	-0.016	-0.998	-0.004	0.000
			22:COM9	18:COM5	30:COM1	34:CVOL3	26:COM1	-
12399	5137	+ve	1.865	0.000	0.015	0.000	0.032	0.856
			28:COM1	-	24:COM1	-	16:COM3	28:COM1
			-3.476	-6.628	-0.022	-1.016	-0.021	-3.447
			22:COM9	34:CVOL3	18:COM5	32:CVOL1	26:COM1	22:COM9
	5136	-ve	1.865	0.000	0.015	0.000	0.021	23.404
			28:COM1	-	24:COM1	-	24:COM1	32:CVOL1
			-3.476	-12.182	-0.022	-1.016	-0.029	0.000
			22:COM9	32:CVOL1	18:COM5	32:CVOL1	18:COM5	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
12400	5138	+ve	1.649	2.606	0.022	0.000	0.000	12.569
			28:COM15	32:CVOL1	20:COM7	-	-	20:COM7
			-3.398	-0.256	0.000	-2.329	-0.023	0.000
			22:COM9	22:COM9	-	34:CVOL3	22:COM9	-
	4970	-ve	1.649	0.000	0.022	0.000	0.054	16.664
			28:COM15	-	20:COM7	-	20:COM7	34:CVOL3
			-3.398	-4.727	0.000	-2.329	-0.008	0.000
			22:COM9	22:COM9	-	34:CVOL3	30:COM17	-
12401	5112	+ve	6.840	4.039	0.000	0.000	0.013	2.235
			34:CVOL3	34:CVOL3	-	-	20:COM7	20:COM7
			0.000	0.000	-0.007	-0.075	0.000	0.000
			-	-	22:COM9	18:COM5	-	-
	5137	-ve	6.840	0.000	0.000	0.000	0.000	0.768
			34:CVOL3	-	-	-	-	20:COM7
			0.000	-3.305	-0.007	-0.075	-0.012	-0.503
			-	35:CVOL4	22:COM9	18:COM5	22:COM9	30:COM17
12402	5113	+ve	2.304	5.854	0.000	0.000	0.013	5.652
			20:COM7	35:CVOL4	-	-	20:COM7	20:COM7
			-0.315	0.000	-0.004	-0.120	0.000	0.000
			30:COM17	-	32:CVOL1	18:COM5	-	-
	5139	-ve	2.304	0.000	0.000	0.000	0.000	6.928
			20:COM7	-	-	-	-	20:COM7
			-0.315	-6.220	-0.004	-0.120	-0.012	0.000
			30:COM17	34:CVOL3	32:CVOL1	18:COM5	32:CVOL1	-
12403	5136	+ve	0.736	0.000	1.667	11.270	0.370	5.805
			20:COM7	-	16:COM3	32:CVOL1	16:COM3	32:CVOL1
			-0.554	-12.528	-0.347	0.000	-0.196	0.000
			30:COM17	32:CVOL1	26:COM13	-	26:COM13	-
	5139	-ve	0.736	0.000	1.667	11.270	0.899	13.988
			20:COM7	-	16:COM3	32:CVOL1	20:COM7	32:CVOL1
			-0.554	-13.542	-0.347	0.000	0.000	0.000
			30:COM17	32:CVOL1	26:COM13	-	-	-
12404	5139	+ve	0.598	6.338	0.029	0.000	0.010	6.078
			28:COM15	34:CVOL3	20:COM7	-	28:COM15	20:COM7
			-0.547	0.000	-0.011	-0.609	-0.018	0.000
			22:COM9	-	30:COM17	34:CVOL3	22:COM9	-
	5138	-ve	0.598	5.211	0.029	0.000	0.018	0.000
			28:COM15	32:CVOL1	20:COM7	-	20:COM7	-
			-0.547	0.000	-0.011	-0.609	-0.004	-2.206
			22:COM9	-	30:COM17	34:CVOL3	30:COM17	22:COM9
12405	5139	+ve	2.472	0.000	0.229	11.763	0.907	13.559
			28:COM15	-	24:COM11	34:CVOL3	16:COM3	32:CVOL1
			-3.507	-24.160	-1.136	0.000	-0.247	0.000
			22:COM9	32:CVOL1	18:COM5	-	26:COM13	-
	4932	-ve	2.472	0.000	0.229	11.763	0.235	59.598
			28:COM15	-	24:COM11	34:CVOL3	28:COM15	32:CVOL1
			-3.507	-27.062	-1.136	0.000	-1.205	0.000
			22:COM9	32:CVOL1	18:COM5	-	22:COM9	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
12674	1170	+ve	13.095	0.000	1.396	4.651	2.059	0.294
			20:COM7	-	16:COM3	24:COM1	24:COM1	28:COM1
			-0.232	-13.675	-0.997	-9.753	-2.478	-14.776
			30:COM1	18:COM5	26:COM1	18:COM5	18:COM5	22:COM9
	246	-ve	13.095	0.000	1.396	4.651	2.003	49.976
			20:COM7	-	16:COM3	24:COM1	16:COM3	16:COM3
			-0.232	-23.727	-0.997	-9.753	-1.141	0.000
			30:COM1	18:COM5	26:COM1	18:COM5	26:COM1	-
12675	1727	+ve	1.485	0.000	0.068	6.280	0.367	1.864
			24:COM1	-	28:COM1	24:COM1	20:COM7	28:COM1
			-2.027	-12.689	-0.158	-7.830	-0.059	-14.608
			18:COM5	18:COM5	22:COM9	18:COM5	30:COM1	22:COM9
	1642	-ve	1.485	0.000	0.068	6.280	0.161	43.653
			24:COM1	-	28:COM1	24:COM1	28:COM1	16:COM3
			-2.027	-20.016	-0.158	-7.830	-0.142	0.000
			18:COM5	18:COM5	22:COM9	18:COM5	22:COM9	-
12676	2092	+ve	3.612	0.000	0.447	4.973	0.962	3.386
			28:COM1	-	16:COM3	24:COM1	16:COM3	28:COM1
			-5.995	-10.165	-0.511	-5.978	-0.736	-15.066
			22:COM9	18:COM5	26:COM1	18:COM5	26:COM1	22:COM9
	2007	-ve	3.612	0.000	0.447	4.973	0.738	35.496
			28:COM1	-	16:COM3	24:COM1	16:COM3	16:COM3
			-5.995	-17.939	-0.511	-5.978	-0.716	0.000
			22:COM9	18:COM5	26:COM1	18:COM5	26:COM1	-
12677	5150	+ve	2.250	56.362	0.671	5.681	1.393	46.392
			24:COM1	20:COM7	24:COM1	16:COM3	16:COM3	20:COM7
			-8.626	-29.423	-1.461	-4.341	-0.655	-19.456
			18:COM5	30:COM1	18:COM5	26:COM1	26:COM1	30:COM1
	5154	-ve	2.890	49.659	0.671	5.681	0.718	42.373
			24:COM1	20:COM7	24:COM1	16:COM3	28:COM1	28:COM1
			-7.423	-32.988	-1.461	-4.341	-1.545	-58.635
			18:COM5	30:COM1	18:COM5	26:COM1	22:COM9	22:COM9
12678	5151	+ve	1.398	39.126	0.902	10.235	1.028	32.998
			28:COM1	20:COM7	28:COM1	16:COM3	16:COM3	20:COM7
			-4.961	-26.836	-1.120	-8.415	-0.979	-18.240
			22:COM9	30:COM1	22:COM9	26:COM1	26:COM1	30:COM1
	5155	-ve	2.531	33.938	0.902	10.235	0.892	40.164
			20:COM7	28:COM1	28:COM1	16:COM3	28:COM1	20:COM7
			-4.253	-31.914	-1.120	-8.415	-1.276	-39.584
			30:COM1	22:COM9	22:COM9	26:COM1	22:COM9	30:COM1
12679	5152	+ve	0.000	68.074	1.809	7.287	0.000	58.260
			-	20:COM7	16:COM3	24:COM1	-	20:COM7
			-7.811	-36.385	-0.060	-9.884	-1.736	-25.733
			18:COM5	30:COM1	26:COM1	18:COM5	22:COM9	30:COM1
	5156	-ve	0.000	61.372	1.809	7.287	1.888	49.905
			-	20:COM7	16:COM3	24:COM1	16:COM3	28:COM1
			-6.608	-39.949	-0.060	-9.884	-0.220	-69.990
			18:COM5	30:COM1	26:COM1	18:COM5	26:COM1	22:COM9

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
12680	5146	+ve	50.213	0.000	2.815	4.971	4.328	0.000
			35:CVOL4	-	24:COM11	16:COM3	16:COM3	-
			0.000	-57.185	-3.336	-4.845	-3.588	-40.837
			-	34:CVOL3	18:COM5	26:COM13	26:COM13	22:COM9
	5140	-ve	50.213	0.000	2.815	4.971	1.472	71.821
			35:CVOL4	-	24:COM11	16:COM3	24:COM11	34:CVOL3
			0.000	-64.436	-3.336	-4.845	-1.669	0.000
			-	34:CVOL3	18:COM5	26:COM13	18:COM5	-
12681	5147	+ve	35.348	0.000	0.967	6.986	2.170	5.452
			16:COM3	-	24:COM11	24:COM11	24:COM11	28:COM15
			-19.942	-44.538	-1.531	-14.945	-2.764	-33.045
			26:COM13	22:COM9	18:COM5	18:COM5	18:COM5	22:COM9
	5141	-ve	35.348	0.000	0.967	6.986	0.000	52.504
			16:COM3	-	24:COM11	24:COM11	-	20:COM7
			-19.942	-50.712	-1.531	-14.945	-1.531	0.000
			26:COM13	22:COM9	18:COM5	18:COM5	18:COM5	-
12682	5153	+ve	0.000	9.189	3.129	5.445	6.540	11.016
			-	34:CVOL3	24:COM11	24:COM11	16:COM3	20:COM7
			-16.685	0.000	-5.651	-12.161	-3.533	0.000
			22:COM9	-	18:COM5	18:COM5	26:COM13	-
	5157	-ve	0.000	1.916	3.129	5.445	2.678	1.307
			-	28:COM15	24:COM11	24:COM11	24:COM11	20:COM7
			-15.348	0.000	-5.651	-12.161	-4.668	-0.617
			22:COM9	-	18:COM5	18:COM5	18:COM5	30:COM17
12683	5148	+ve	21.509	0.392	0.984	4.604	2.653	1.292
			24:COM11	24:COM11	28:COM15	16:COM3	16:COM3	24:COM11
			-27.445	-8.857	-2.357	-3.714	-1.057	-8.381
			18:COM5	18:COM5	22:COM9	26:COM13	26:COM13	18:COM5
	5142	-ve	21.509	0.000	0.984	4.604	0.858	13.119
			24:COM11	-	28:COM15	16:COM3	24:COM11	16:COM3
			-27.445	-15.031	-2.357	-3.714	-1.727	0.000
			18:COM5	18:COM5	22:COM9	26:COM13	18:COM5	-
12684	5149	+ve	27.913	2.177	1.111	5.467	3.099	7.727
			34:CVOL3	28:COM15	24:COM11	16:COM3	16:COM3	28:COM15
			0.000	-30.173	-1.730	-1.596	-1.256	-25.214
			-	22:COM9	18:COM5	26:COM13	26:COM13	22:COM9
	5255	-ve	27.913	0.000	1.111	5.467	1.157	36.154
			34:CVOL3	-	24:COM11	16:COM3	16:COM3	20:COM7
			0.000	-36.494	-1.730	-1.596	-0.453	0.000
			-	22:COM9	18:COM5	26:COM13	26:COM13	-
12685	5150	+ve	26.714	42.448	1.367	7.319	5.543	112.179
			16:COM3	35:CVOL4	28:COM15	16:COM3	20:COM7	16:COM3
			0.000	0.000	-1.976	0.000	0.000	0.000
			-	-	22:COM9	-	-	-
	5202	-ve	26.714	40.170	1.367	7.319	4.969	35.585
			16:COM3	35:CVOL4	28:COM15	16:COM3	16:COM3	16:COM3
			0.000	0.000	-1.976	0.000	-0.556	-4.352
			-	-	22:COM9	-	26:COM13	26:COM13

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
12686	5149	+ve	83.898	63.718	0.000	4.751	7.305	164.903
			16:COM3	16:COM3	-	20:COM7	34:CVOL3	16:COM3
			-3.460	0.000	-3.757	-0.233	0.000	0.000
			26:COM1	-	22:COM9	30:COM1	-	-
	5172	-ve	83.898	60.693	0.000	4.751	2.951	42.592
			16:COM3	16:COM3	-	20:COM7	16:COM3	16:COM3
			-3.460	0.000	-3.757	-0.233	-1.481	-11.254
			26:COM1	-	22:COM9	30:COM1	26:COM1	26:COM1
12687	5146	+ve	89.706	65.740	0.000	2.732	8.280	173.237
			16:COM3	16:COM3	-	20:COM7	34:CVOL3	16:COM3
			0.000	0.000	-5.166	-0.990	0.000	0.000
			-	-	22:COM9	30:COM1	-	-
	5178	-ve	89.706	62.707	0.000	2.732	3.328	46.581
			16:COM3	16:COM3	-	20:COM7	16:COM3	16:COM3
			0.000	0.000	-5.166	-0.990	-3.089	-19.327
			-	-	22:COM9	30:COM1	26:COM1	26:COM1
12688	5151	+ve	40.733	43.009	0.902	7.300	5.527	120.026
			16:COM3	16:COM3	24:COM1	16:COM3	20:COM7	16:COM3
			0.000	0.000	-2.510	0.000	0.000	0.000
			-	-	18:COM5	-	-	-
	5208	-ve	40.733	40.732	0.902	7.300	4.771	37.515
			16:COM3	16:COM3	24:COM1	16:COM3	16:COM3	16:COM3
			0.000	0.000	-2.510	0.000	-1.381	-9.803
			-	-	18:COM5	-	26:COM1	26:COM1
12689	5147	+ve	33.843	65.407	2.909	3.057	7.421	139.418
			16:COM3	16:COM3	24:COM1	16:COM3	16:COM3	16:COM3
			-5.357	-45.048	-3.736	-2.419	-6.593	-122.375
			26:COM1	26:COM1	18:COM5	26:COM1	26:COM1	26:COM1
	5192	-ve	33.843	62.371	2.909	3.057	0.553	18.526
			16:COM3	16:COM3	24:COM1	16:COM3	28:COM1	24:COM1
			-5.357	-47.325	-3.736	-2.419	-1.357	-36.442
			26:COM1	26:COM1	18:COM5	26:COM1	22:COM9	18:COM5
12690	5144	+ve	19.538	10.367	1.272	3.202	0.281	3.673
			16:COM3	16:COM3	16:COM3	16:COM3	28:COM1	16:COM3
			-15.615	-1.792	-0.381	-1.283	-0.756	-2.366
			26:COM1	26:COM1	26:COM1	26:COM1	22:COM9	26:COM1
	5194	-ve	19.538	9.307	1.272	3.202	0.686	0.000
			16:COM3	16:COM3	16:COM3	16:COM3	20:COM7	-
			-15.615	-2.587	-0.381	-1.283	-0.546	-3.437
			26:COM1	26:COM1	26:COM1	26:COM1	30:COM1	18:COM5
12691	5145	+ve	26.940	16.042	0.913	0.430	2.438	6.926
			16:COM3	24:COM1	28:COM1	24:COM1	20:COM7	24:COM1
			-21.821	-26.077	-2.312	-4.343	-0.761	-16.468
			26:COM1	18:COM5	22:COM9	18:COM5	30:COM1	18:COM5
	5148	-ve	26.940	13.786	0.913	0.430	1.126	37.667
			16:COM3	24:COM1	28:COM1	24:COM1	28:COM1	16:COM3
			-21.821	-29.086	-2.312	-4.343	-2.187	-22.412
			26:COM1	18:COM5	22:COM9	18:COM5	22:COM9	26:COM1

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
12695	5142	+ve	12.862	9.315	0.147	0.000	0.684	10.745
			16:COM3	15:COM2	28:COM15	34:CVOL3	20:COM7	15:COM2
			-10.247	0.000	-0.801	0.000	-0.032	0.000
			26:COM13	-	22:COM9	-	30:COM17	-
	5270	-ve	12.862	0.000	0.147	0.000	0.494	0.000
			16:COM3	-	28:COM15	34:CVOL3	28:COM15	35:CVOL4
			-10.247	-0.000	-0.801	0.000	-1.350	0.000
			26:COM13	34:CVOL3	22:COM9	-	22:COM9	-
12696	5152	+ve	53.618	38.352	0.000	4.548	6.380	93.558
			16:COM3	20:COM7	-	24:COM11	20:COM7	20:COM7
			-39.207	0.000	-2.760	-8.662	0.000	0.000
			26:COM13	-	18:COM5	18:COM5	-	-
	5214	-ve	53.618	36.077	0.000	4.548	1.718	20.564
			16:COM3	20:COM7	-	24:COM11	16:COM3	20:COM7
			-39.207	0.000	-2.760	-8.662	-0.429	-1.569
			26:COM13	-	18:COM5	18:COM5	26:COM13	30:COM17
12697	5154	+ve	35.048	47.216	2.170	3.674	2.089	55.686
			20:COM7	28:COM15	16:COM3	16:COM3	24:COM11	28:COM15
			-4.058	-58.987	-1.937	-1.645	-2.587	-74.038
			30:COM17	22:COM9	26:COM13	26:COM13	18:COM5	22:COM9
	5158	-ve	36.836	42.646	2.170	3.674	2.956	87.557
			20:COM7	28:COM15	16:COM3	16:COM3	16:COM3	20:COM7
			-3.108	-67.580	-1.937	-1.645	-2.859	-59.046
			30:COM17	22:COM9	26:COM13	26:COM13	26:COM13	30:COM17
12698	5155	+ve	40.329	43.849	2.848	2.194	2.877	51.284
			20:COM7	20:COM7	16:COM3	24:COM11	24:COM11	20:COM7
			0.000	-37.646	-2.544	-2.497	-3.407	-46.421
			-	30:COM17	26:COM13	18:COM5	18:COM5	30:COM17
	5159	-ve	42.116	37.059	2.848	2.194	3.870	56.856
			20:COM7	28:COM15	16:COM3	24:COM11	16:COM3	20:COM7
			0.000	-44.019	-2.544	-2.497	-3.622	-51.026
			-	22:COM9	26:COM13	18:COM5	26:COM13	30:COM17
12699	5156	+ve	20.223	53.523	2.472	2.646	2.643	63.945
			16:COM3	28:COM15	16:COM3	24:COM11	24:COM11	28:COM15
			-8.010	-64.938	-2.075	-3.901	-2.864	-80.492
			26:COM13	22:COM9	26:COM13	18:COM5	18:COM5	22:COM9
	5160	-ve	22.010	48.953	2.472	2.646	3.457	96.301
			16:COM3	28:COM15	16:COM3	24:COM11	16:COM3	20:COM7
			-7.060	-73.531	-2.075	-3.901	-2.663	-66.894
			26:COM13	22:COM9	26:COM13	18:COM5	26:COM13	30:COM17
12700	5157	+ve	7.917	6.751	1.608	1.922	3.426	5.614
			24:COM11	34:CVOL3	24:COM11	24:COM11	16:COM3	16:COM3
			-19.304	0.000	-2.602	-2.726	-1.963	0.000
			18:COM5	-	18:COM5	18:COM5	26:COM13	-
	5161	-ve	9.018	0.000	1.608	1.922	2.149	2.250
			24:COM11	-	24:COM11	24:COM11	24:COM11	16:COM3
			-17.317	-4.337	-2.602	-2.726	-3.223	-0.126
			18:COM5	18:COM5	18:COM5	18:COM5	18:COM5	26:COM13

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
12701	5158	+ve	28.295	55.945	2.343	0.000	0.377	64.669
			34:CVOL3	20:COM7	16:COM3	-	16:COM3	20:COM7
			0.000	-38.921	-0.765	-6.888	-0.410	-45.016
			-	30:COM1	26:COM1	18:COM5	26:COM1	30:COM1
	5149	-ve	29.506	50.274	2.343	0.000	3.680	22.789
			34:CVOL3	20:COM7	16:COM3	-	16:COM3	28:COM1
			0.000	-41.937	-0.765	-6.888	-1.067	-24.401
			-	30:COM1	26:COM1	18:COM5	26:COM1	22:COM9
12702	5159	+ve	44.740	31.975	2.020	5.056	0.556	40.440
			34:CVOL3	28:COM1	16:COM3	24:COM1	16:COM3	28:COM1
			0.000	-41.184	-1.954	-5.277	-0.348	-44.231
			-	22:COM9	26:COM1	18:COM5	26:COM1	22:COM9
	5146	-ve	45.951	28.959	2.020	5.056	3.116	29.594
			34:CVOL3	28:COM1	16:COM3	24:COM1	16:COM3	20:COM7
			0.000	-46.856	-1.954	-5.277	-2.798	-10.656
			-	22:COM9	26:COM1	18:COM5	26:COM1	30:COM1
12703	5160	+ve	30.392	57.154	1.969	16.282	0.068	71.349
			16:COM3	20:COM7	16:COM3	16:COM3	28:COM1	20:COM7
			-16.682	-46.247	-1.535	-7.146	-1.124	-53.531
			26:COM1	30:COM1	26:COM1	26:COM1	22:COM9	30:COM1
	5147	-ve	31.423	51.483	1.969	16.282	2.435	28.015
			16:COM3	20:COM7	16:COM3	16:COM3	16:COM3	20:COM7
			-16.134	-49.263	-1.535	-7.146	-2.762	-21.205
			26:COM1	30:COM1	26:COM1	26:COM1	26:COM1	30:COM1
12704	5161	+ve	19.661	8.042	1.483	1.673	1.759	5.328
			24:COM1	16:COM3	24:COM1	24:COM1	20:COM7	16:COM3
			-24.885	-5.153	-1.604	-3.630	-1.146	-3.631
			18:COM5	26:COM1	18:COM5	18:COM5	30:COM1	26:COM1
	5148	-ve	20.296	3.933	1.483	1.673	1.820	9.572
			24:COM1	24:COM1	24:COM1	24:COM1	16:COM3	16:COM3
			-23.738	-10.841	-1.604	-3.630	-1.409	-4.506
			18:COM5	18:COM5	18:COM5	18:COM5	26:COM1	26:COM1
12705	5162	+ve	3.239	9.210	0.076	0.707	0.216	29.816
			24:COM1	34:CVOL3	20:COM7	16:COM3	16:COM3	16:COM3
			-24.288	0.000	-0.031	0.000	-0.025	0.000
			18:COM5	-	30:COM1	-	26:COM1	-
	5220	-ve	3.239	7.532	0.076	0.707	0.218	15.291
			24:COM1	34:CVOL3	20:COM7	16:COM3	34:CVOL3	16:COM3
			-24.288	0.000	-0.031	0.000	0.000	-0.132
			18:COM5	-	30:COM1	-	-	26:COM1
12706	5163	+ve	3.683	8.673	0.112	0.754	0.268	27.820
			28:COM1	35:CVOL4	16:COM3	16:COM3	16:COM3	16:COM3
			-17.059	0.000	-0.084	0.000	-0.085	0.000
			22:COM9	-	26:COM1	-	26:COM1	-
	5226	-ve	3.683	7.006	0.112	0.754	0.188	15.584
			28:COM1	35:CVOL4	16:COM3	16:COM3	35:CVOL4	16:COM3
			-17.059	0.000	-0.084	0.000	0.000	-1.777
			22:COM9	-	26:COM1	-	-	26:COM1

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
12707	5164	+ve	20.753	11.839	0.001	0.345	0.296	29.083
			24:COM1	16:COM3	24:COM1	16:COM3	20:COM7	16:COM3
			-39.181	0.000	-0.085	-0.446	0.000	0.000
			18:COM5	-	18:COM5	26:COM1	-	-
	5229	-ve	20.753	10.174	0.001	0.345	0.167	11.245
			24:COM1	16:COM3	24:COM1	16:COM3	16:COM3	20:COM7
			-39.181	0.000	-0.085	-0.446	0.000	0.000
			18:COM5	-	18:COM5	26:COM1	-	-
12708	5165	+ve	16.439	0.000	2.299	2.270	0.114	0.529
			16:COM3	-	24:COM1	24:COM1	24:COM1	24:COM1
			-4.288	-14.633	-3.321	-10.044	-0.957	-0.810
			26:COM1	18:COM5	18:COM5	18:COM5	18:COM5	18:COM5
	5153	-ve	17.539	0.000	2.299	2.270	2.266	20.887
			16:COM3	-	24:COM1	24:COM1	24:COM1	16:COM3
			-3.703	-18.932	-3.321	-10.044	-4.428	0.000
			26:COM1	18:COM5	18:COM5	18:COM5	18:COM5	-
12709	5164	+ve	16.137	0.000	2.286	5.356	0.364	0.251
			16:COM3	-	24:COM1	16:COM3	16:COM3	24:COM1
			0.000	-19.614	-3.864	-3.082	-0.296	-1.070
			-	18:COM5	18:COM5	26:COM1	26:COM1	18:COM5
	5152	-ve	17.237	0.000	2.286	5.356	2.663	27.963
			16:COM3	-	24:COM1	16:COM3	24:COM1	16:COM3
			0.000	-23.912	-3.864	-3.082	-4.631	0.000
			-	18:COM5	18:COM5	26:COM1	18:COM5	-
12710	5163	+ve	14.638	0.000	3.255	7.909	0.251	0.000
			35:CVOL4	-	16:COM3	16:COM3	24:COM1	-
			0.000	-17.008	-2.521	-6.169	-0.354	-1.420
			-	35:CVOL4	26:COM1	26:COM1	18:COM5	35:CVOL4
	5151	-ve	15.930	0.000	3.255	7.909	3.851	23.792
			35:CVOL4	-	16:COM3	16:COM3	16:COM3	35:CVOL4
			0.000	-22.057	-2.521	-6.169	-3.005	0.000
			-	35:CVOL4	26:COM1	26:COM1	26:COM1	-
12711	5162	+ve	14.408	0.000	1.970	3.259	0.394	0.000
			16:COM3	-	16:COM3	16:COM3	16:COM3	-
			0.000	-15.836	-1.364	-3.757	-0.204	-1.087
			-	34:CVOL3	26:COM1	26:COM1	26:COM1	22:COM9
	5150	-ve	15.508	0.000	1.970	3.259	2.380	22.633
			16:COM3	-	16:COM3	16:COM3	16:COM3	34:CVOL3
			0.000	-20.884	-1.364	-3.757	-1.408	0.000
			-	34:CVOL3	26:COM1	26:COM1	26:COM1	-
12712	5166	+ve	0.200	2.657	0.000	0.175	0.194	0.097
			28:COM1	34:CVOL3	-	35:CVOL4	16:COM3	34:CVOL3
			-2.683	0.000	-0.296	0.000	0.000	0.000
			22:COM9	-	34:CVOL3	-	-	-
	5167	-ve	0.588	0.000	0.000	0.175	0.000	0.071
			28:COM1	-	-	35:CVOL4	-	24:COM1
			-2.005	-1.420	-0.296	0.000	-0.213	-0.935
			22:COM9	32:CVOL1	34:CVOL3	-	34:CVOL3	34:CVOL3

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
12713	5167	+ve	0.000	6.361	0.000	0.904	0.089	0.000
			-	34:CVOL3	-	34:CVOL3	34:CVOL3	-
			-11.462	0.000	-0.028	0.000	0.000	-2.525
			34:CVOL3	-	34:CVOL3	-	-	35:CVOL4
	5168	-ve	0.000	0.000	0.000	0.904	0.000	18.391
			-	-	-	34:CVOL3	-	34:CVOL3
			-8.625	-12.359	-0.028	0.000	-0.097	0.000
			22:COM9	34:CVOL3	34:CVOL3	-	34:CVOL3	-
12714	5153	+ve	4.444	40.434	1.147	4.185	5.291	86.430
			28:COM15	16:COM3	24:COM11	35:CVOL4	16:COM3	16:COM3
			-20.696	-19.187	-3.634	0.000	0.000	-27.023
			22:COM9	26:COM13	18:COM5	-	-	26:COM13
	5231	-ve	4.444	37.846	1.147	4.185	3.116	20.953
			28:COM15	16:COM3	24:COM11	35:CVOL4	16:COM3	34:CVOL3
			-20.696	-21.129	-3.634	0.000	-1.330	0.000
			22:COM9	26:COM13	18:COM5	-	26:COM13	-
12715	5165	+ve	0.000	6.532	0.143	0.532	0.129	22.641
			-	16:COM3	20:COM7	16:COM3	20:COM7	16:COM3
			-31.487	-3.274	-0.021	0.000	-0.025	0.000
			18:COM5	26:COM13	30:COM17	-	30:COM17	-
	5244	-ve	0.000	5.110	0.143	0.532	0.245	14.810
			-	16:COM3	20:COM7	16:COM3	20:COM7	34:CVOL3
			-31.487	-4.340	-0.021	0.000	0.000	0.000
			18:COM5	26:COM13	30:COM17	-	-	-
12716	5168	+ve	0.000	5.358	0.106	1.350	0.000	15.746
			-	32:CVOL1	34:CVOL3	34:CVOL3	-	34:CVOL3
			-29.978	0.000	0.000	0.000	-0.324	0.000
			34:CVOL3	-	-	-	34:CVOL3	-
	5271	-ve	0.000	1.236	0.106	1.350	0.137	4.683
			-	35:CVOL4	34:CVOL3	34:CVOL3	34:CVOL3	34:CVOL3
			-29.978	-1.182	0.000	0.000	0.000	0.000
			34:CVOL3	32:CVOL1	-	-	-	-
12717	5148	+ve	39.891	72.772	2.218	5.103	5.267	125.607
			16:COM3	16:COM3	28:COM15	16:COM3	16:COM3	16:COM3
			-17.065	-43.371	-3.410	-0.297	-3.538	-84.151
			26:COM13	26:COM13	22:COM9	26:COM13	26:COM13	26:COM13
	5195	-ve	39.891	70.186	2.218	5.103	2.345	7.562
			16:COM3	16:COM3	28:COM15	16:COM3	28:COM15	24:COM11
			-17.065	-45.310	-3.410	-0.297	-2.621	-11.751
			26:COM13	26:COM13	22:COM9	26:COM13	22:COM9	18:COM5
12718	5169	+ve	10.455	16.620	0.228	0.252	0.143	32.171
			24:COM11	34:CVOL3	16:COM3	32:CVOL1	16:COM3	16:COM3
			-13.135	0.000	-0.103	-0.043	-0.115	0.000
			18:COM5	-	26:COM13	26:COM13	26:COM13	-
	5234	-ve	10.455	14.055	0.228	0.252	0.343	7.809
			24:COM11	34:CVOL3	16:COM3	32:CVOL1	16:COM3	16:COM3
			-13.135	0.000	-0.103	-0.043	-0.072	-5.628
			18:COM5	-	26:COM13	26:COM13	26:COM13	26:COM13

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
12719	5140	+ve	39.346	48.452	1.073	13.017	1.351	99.820
			34:CVOL3	34:CVOL3	24:COM11	16:COM3	16:COM3	34:CVOL3
			0.000	0.000	-1.254	-12.772	-1.154	0.000
			-	-	18:COM5	26:COM13	26:COM13	-
	5170	-ve	39.346	38.969	1.073	13.017	1.367	0.000
			34:CVOL3	34:CVOL3	24:COM11	16:COM3	24:COM11	-
			0.000	0.000	-1.254	-12.772	-1.596	-2.849
			-	-	18:COM5	26:COM13	18:COM5	34:CVOL3
12720	5170	+ve	6.367	19.339	0.024	0.000	0.405	47.784
			24:COM11	34:CVOL3	24:COM11	-	34:CVOL3	34:CVOL3
			-43.548	0.000	-0.274	-1.476	0.000	0.000
			18:COM5	-	18:COM5	34:CVOL3	-	-
	5236	-ve	6.367	16.735	0.024	0.000	0.148	16.271
			24:COM11	34:CVOL3	24:COM11	-	16:COM3	16:COM3
			-43.548	0.000	-0.274	-1.476	-0.142	-1.716
			18:COM5	-	18:COM5	34:CVOL3	26:COM13	26:COM13
12721	5172	+ve	29.103	34.302	1.351	2.339	1.646	46.089
			24:COM11	16:COM3	28:COM15	32:CVOL1	28:COM15	16:COM3
			-31.084	0.000	-1.539	-0.144	-2.532	-9.367
			18:COM5	-	22:COM9	30:COM17	22:COM9	26:COM13
	5173	-ve	29.103	31.277	1.351	2.339	0.640	0.000
			24:COM11	16:COM3	28:COM15	32:CVOL1	28:COM15	-
			-31.084	0.000	-1.539	-0.144	-1.896	-39.808
			18:COM5	-	22:COM9	30:COM17	22:COM9	18:COM5
12722	5171	+ve	1.588	0.808	7.649	7.630	0.308	5.230
			24:COM11	20:COM7	16:COM3	34:CVOL3	24:COM11	34:CVOL3
			-8.736	-1.838	-1.331	0.000	-1.259	0.000
			18:COM5	30:COM17	26:COM13	-	18:COM5	-
	5169	-ve	1.588	0.580	7.649	7.630	1.142	5.641
			24:COM11	28:COM15	16:COM3	34:CVOL3	16:COM3	34:CVOL3
			-8.736	-2.152	-1.331	0.000	-0.110	0.000
			18:COM5	32:CVOL1	26:COM13	-	26:COM13	-
12723	5243	+ve	9.208	0.000	0.218	1.174	0.080	12.504
			24:COM11	-	16:COM3	16:COM3	24:COM11	16:COM3
			-20.910	-15.776	-0.035	0.000	-0.109	-2.625
			18:COM5	34:CVOL3	26:COM13	-	18:COM5	26:COM13
	5254	-ve	9.208	0.000	0.218	1.174	0.322	42.264
			24:COM11	-	16:COM3	16:COM3	16:COM3	34:CVOL3
			-20.910	-18.381	-0.035	0.000	0.000	0.000
			18:COM5	34:CVOL3	26:COM13	-	-	-
12724	5173	+ve	0.000	15.514	0.217	0.970	0.105	0.000
			-	16:COM3	24:COM11	28:COM15	24:COM11	-
			-59.738	0.000	-0.923	-0.703	-2.210	-39.175
			18:COM5	-	18:COM5	22:COM9	18:COM5	18:COM5
	5174	-ve	0.000	12.489	0.217	0.970	0.000	0.000
			-	16:COM3	24:COM11	28:COM15	-	-
			-59.738	0.000	-0.923	-0.703	-2.792	-60.424
			18:COM5	-	18:COM5	22:COM9	34:CVOL3	34:CVOL3

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
12725	5174	+ve	0.000	4.368	0.907	0.596	0.000	0.000
			-	16:COM3	16:COM3	28:COM1	-	-
			-69.334	-1.317	-0.415	-1.378	-3.221	-59.986
			34:CVOL3	26:COM1	26:COM1	22:COM9	18:COM5	34:CVOL3
	5175	-ve	0.000	1.671	0.907	0.596	0.000	0.000
			-	24:COM11	16:COM3	28:COM1	-	-
			-69.334	-3.912	-0.415	-1.378	-2.294	-60.459
			34:CVOL3	18:COM5	26:COM1	22:COM9	18:COM5	34:CVOL3
12726	5175	+ve	0.000	0.000	1.518	0.341	0.000	0.000
			-	-	16:COM3	28:COM1	-	-
			-52.687	-12.131	0.000	-1.592	-3.660	-60.436
			18:COM5	18:COM5	-	22:COM9	34:CVOL3	34:CVOL3
	5176	-ve	0.000	0.000	1.518	0.341	0.063	0.000
			-	-	16:COM3	28:COM1	24:COM11	-
			-52.687	-15.155	0.000	-1.592	-1.013	-38.637
			18:COM5	18:COM5	-	22:COM9	18:COM5	18:COM5
12727	5176	+ve	22.553	0.000	1.808	0.165	0.000	0.000
			16:COM3	-	20:COM7	33:CVOL2	-	-
			-22.209	-30.167	0.000	-2.039	-2.610	-38.902
			26:COM1	18:COM5	-	32:CVOL1	22:COM9	18:COM5
	5177	-ve	22.553	0.000	1.808	0.165	1.332	39.611
			16:COM3	-	20:COM7	33:CVOL2	16:COM3	16:COM3
			-22.209	-33.191	0.000	-2.039	-0.259	-13.467
			26:COM1	18:COM5	-	32:CVOL1	26:COM1	26:COM1
12728	5177	+ve	79.958	0.000	4.096	0.150	1.541	36.540
			16:COM3	-	20:COM7	24:COM1	16:COM3	16:COM3
			0.000	-59.652	0.000	-3.143	-1.737	-14.921
			-	18:COM5	-	32:CVOL1	26:COM1	26:COM1
	5146	-ve	79.958	0.000	4.096	0.150	7.675	156.878
			16:COM3	-	20:COM7	24:COM1	34:CVOL3	16:COM3
			0.000	-62.676	0.000	-3.143	0.000	0.000
			-	18:COM5	-	32:CVOL1	-	-
12729	5178	+ve	31.765	35.336	0.751	0.844	1.780	50.531
			20:COM7	16:COM3	28:COM1	32:CVOL1	20:COM7	16:COM3
			-27.439	0.000	-1.951	-1.217	-1.522	-17.843
			30:COM1	-	22:COM9	35:CVOL4	30:COM1	26:COM1
	5179	-ve	31.765	32.303	0.751	0.844	0.582	0.000
			20:COM7	16:COM3	28:COM1	32:CVOL1	24:COM11	-
			-27.439	0.000	-1.951	-1.217	-2.692	-41.150
			30:COM1	-	22:COM9	35:CVOL4	18:COM5	18:COM5
12730	5179	+ve	0.000	16.472	0.000	0.655	0.508	0.000
			-	16:COM3	-	24:COM1	24:COM11	-
			-56.317	0.000	-1.576	-1.030	-1.467	-40.790
			22:COM9	-	18:COM5	18:COM5	18:COM5	18:COM5
	5180	-ve	0.000	13.439	0.000	0.655	0.000	0.000
			-	16:COM3	-	24:COM1	-	-
			-56.317	-0.387	-1.576	-1.030	-3.490	-58.966
			22:COM9	26:COM1	18:COM5	18:COM5	34:CVOL3	34:CVOL3

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
12731	5180	+ve	0.000	5.284	0.583	0.649	0.000	0.000
			-	16:COM3	24:COM11	24:COM11	-	-
			-74.874	-2.123	-1.022	-1.018	-2.711	-58.915
			18:COM5	26:COM13	18:COM5	18:COM5	18:COM5	34:CVOL3
	5181	-ve	0.000	2.467	0.583	0.649	0.000	0.000
			-	24:COM11	24:COM11	24:COM11	-	-
			-74.874	-4.614	-1.022	-1.018	-3.050	-59.664
			18:COM5	18:COM5	18:COM5	18:COM5	18:COM5	34:CVOL3
12732	5181	+ve	11.126	0.522	1.445	0.560	0.000	0.000
			24:COM11	24:COM11	16:COM3	28:COM15	-	-
			-77.771	-12.415	-0.308	-1.020	-3.106	-59.858
			18:COM5	18:COM5	26:COM13	22:COM9	34:CVOL3	34:CVOL3
	5182	-ve	11.126	0.000	1.445	0.560	0.315	0.000
			24:COM11	-	16:COM3	28:COM15	24:COM11	-
			-77.771	-15.447	-0.308	-1.020	-1.954	-42.207
			18:COM5	18:COM5	26:COM13	22:COM9	18:COM5	18:COM5
12733	5182	+ve	46.860	0.000	2.089	0.555	0.000	0.000
			24:COM11	-	16:COM3	35:CVOL4	-	-
			-56.139	-30.174	-0.091	-1.505	-2.311	-42.684
			18:COM5	18:COM5	26:COM13	32:CVOL1	22:COM9	18:COM5
	5183	-ve	46.860	0.000	2.089	0.555	2.112	43.379
			24:COM11	-	16:COM3	35:CVOL4	16:COM3	16:COM3
			-56.139	-33.207	-0.091	-1.505	-1.029	-17.833
			18:COM5	18:COM5	26:COM13	32:CVOL1	26:COM13	26:COM13
12734	5183	+ve	103.475	0.000	3.662	0.977	1.167	41.494
			16:COM3	-	34:CVOL3	28:COM15	24:COM11	16:COM3
			-35.182	-58.526	0.000	-2.990	-1.457	-19.475
			26:COM13	18:COM5	-	22:COM9	18:COM5	26:COM13
	5147	-ve	103.475	0.000	3.662	0.977	7.061	159.955
			16:COM3	-	34:CVOL3	28:COM15	34:CVOL3	16:COM3
			-35.182	-61.559	0.000	-2.990	0.000	0.000
			26:COM13	18:COM5	-	22:COM9	-	-
12741	5190	+ve	20.958	27.942	1.077	1.582	1.144	31.736
			16:COM3	16:COM3	28:COM15	20:COM7	16:COM3	16:COM3
			-12.098	-19.297	-1.291	-1.634	-0.559	-22.722
			26:COM13	26:COM13	22:COM9	30:COM17	26:COM13	26:COM13
	5144	-ve	20.958	25.968	1.077	1.582	1.162	3.289
			16:COM3	16:COM3	28:COM15	20:COM7	20:COM7	16:COM3
			-12.098	-20.777	-1.291	-1.634	-0.853	-3.158
			26:COM13	26:COM13	22:COM9	30:COM17	30:COM17	26:COM13
12742	5191	+ve	148.478	51.609	1.505	4.162	5.702	67.942
			16:COM3	24:COM11	24:COM11	24:COM11	16:COM3	24:COM11
			-86.076	-100.053	-1.384	-5.459	-4.405	-64.277
			26:COM13	18:COM5	18:COM5	18:COM5	26:COM13	18:COM5
	5385	-ve	148.478	50.571	1.505	4.162	4.866	158.373
			16:COM3	24:COM11	24:COM11	24:COM11	16:COM3	16:COM3
			-86.076	-101.437	-1.384	-5.459	-3.459	-110.021
			26:COM13	18:COM5	18:COM5	18:COM5	26:COM13	26:COM13

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
12743	5192	+ve	88.537	45.955	2.429	1.462	1.646	22.708
			16:COM3	24:COM11	20:COM7	20:COM7	28:COM15	24:COM11
			-50.268	-55.235	-2.336	-1.458	-1.985	-41.167
			26:COM13	18:COM5	30:COM17	30:COM17	22:COM9	18:COM5
	5191	-ve	88.537	43.678	2.429	1.462	3.058	70.918
			16:COM3	24:COM11	20:COM7	20:COM7	28:COM15	16:COM3
			-50.268	-58.271	-2.336	-1.458	-3.213	-65.803
			26:COM13	18:COM5	30:COM17	30:COM17	22:COM9	26:COM13
12744	5193	+ve	21.127	3.349	0.238	0.920	1.049	1.703
			16:COM3	16:COM3	28:COM15	20:COM7	20:COM7	16:COM3
			-14.612	-0.270	-1.224	-0.705	-0.268	-0.878
			26:COM13	26:COM13	22:COM9	30:COM17	30:COM17	26:COM13
	5145	-ve	21.127	0.530	0.238	0.920	0.220	2.548
			16:COM3	24:COM11	28:COM15	20:COM7	28:COM15	24:COM11
			-14.612	-2.931	-1.224	-0.705	-1.447	-2.413
			26:COM13	18:COM5	22:COM9	30:COM17	22:COM9	18:COM5
12745	5194	+ve	14.905	3.852	0.305	1.786	0.466	3.328
			16:COM3	16:COM3	28:COM15	20:COM7	20:COM7	16:COM3
			-12.943	-0.126	-0.387	-0.596	-0.278	-0.858
			26:COM13	26:COM13	22:COM9	30:COM17	30:COM17	26:COM13
	5193	-ve	14.905	0.888	0.305	1.786	0.427	1.908
			16:COM3	24:COM11	28:COM15	20:COM7	24:COM11	24:COM11
			-12.943	-2.464	-0.387	-0.596	-0.402	-1.557
			26:COM13	18:COM5	22:COM9	30:COM17	18:COM5	18:COM5
12746	5202	+ve	8.084	8.707	0.000	0.000	0.057	6.967
			16:COM3	35:CVOL4	-	-	20:COM7	20:COM7
			-3.122	0.000	-0.019	-0.133	0.000	0.000
			26:COM13	-	22:COM9	34:CVOL3	-	-
	5172	-ve	11.161	0.000	0.000	0.000	0.000	15.024
			16:COM3	-	-	-	-	34:CVOL3
			-1.692	-11.345	-0.019	-0.133	-0.063	0.000
			26:COM13	34:CVOL3	22:COM9	34:CVOL3	22:COM9	-
12747	5201	+ve	0.000	8.339	0.000	0.000	0.070	3.572
			-	35:CVOL4	-	-	16:COM3	20:COM7
			-9.874	0.000	-0.026	-0.108	0.000	0.000
			18:COM5	-	18:COM5	34:CVOL3	-	-
	5173	-ve	1.000	0.000	0.000	0.000	0.000	15.226
			24:COM11	-	-	-	-	34:CVOL3
			-6.797	-11.732	-0.026	-0.108	-0.093	0.000
			18:COM5	34:CVOL3	18:COM5	34:CVOL3	18:COM5	-
12748	5200	+ve	0.000	8.256	0.003	0.024	0.047	2.644
			-	35:CVOL4	24:COM11	24:COM11	16:COM3	34:CVOL3
			-16.869	0.000	-0.018	-0.058	-0.009	0.000
			34:CVOL3	-	18:COM5	18:COM5	26:COM13	-
	5174	-ve	0.000	0.000	0.003	0.024	0.012	14.861
			-	-	24:COM11	24:COM11	24:COM11	34:CVOL3
			-13.090	-11.818	-0.018	-0.058	-0.062	0.000
			34:CVOL3	34:CVOL3	18:COM5	18:COM5	18:COM5	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
12749	5199	+ve	0.000	8.311	0.012	0.068	0.019	2.633
			-	35:CVOL4	16:COM3	20:COM7	24:COM11	34:CVOL3
			-17.387	0.000	-0.006	-0.028	-0.030	0.000
			34:CVOL3	-	26:COM13	30:COM17	18:COM5	-
	5175	-ve	0.000	0.000	0.012	0.068	0.046	14.551
			-	-	16:COM3	20:COM7	16:COM3	34:CVOL3
			-13.608	-11.770	-0.006	-0.028	-0.021	0.000
			34:CVOL3	34:CVOL3	26:COM13	30:COM17	26:COM13	-
12750	5198	+ve	0.000	8.480	0.021	0.115	0.000	3.633
			-	35:CVOL4	16:COM3	20:COM7	24:COM11	35:CVOL4
			-11.948	0.000	0.000	-0.010	-0.053	0.000
			18:COM5	-	-	30:COM17	18:COM5	-
	5176	-ve	1.269	0.000	0.021	0.115	0.079	14.473
			24:COM11	-	16:COM3	20:COM7	16:COM3	34:CVOL3
			-8.871	-11.607	0.000	-0.010	0.000	0.000
			18:COM5	34:CVOL3	-	30:COM17	-	-
12751	5197	+ve	8.215	8.884	0.019	0.121	0.000	6.796
			16:COM3	35:CVOL4	34:CVOL3	34:CVOL3	-	20:COM7
			-3.993	0.000	0.000	0.000	-0.052	0.000
			26:COM13	-	-	-	18:COM5	-
	5177	-ve	11.292	0.000	0.019	0.121	0.070	14.278
			16:COM3	-	34:CVOL3	34:CVOL3	34:CVOL3	34:CVOL3
			-2.562	-11.193	0.000	0.000	0.000	0.000
			26:COM13	34:CVOL3	-	-	-	-
12752	5208	+ve	9.433	8.901	0.000	0.000	0.060	6.817
			16:COM3	35:CVOL4	28:COM15	-	20:COM7	20:COM7
			-4.393	0.000	-0.021	-0.084	-0.006	0.000
			26:COM13	-	22:COM9	34:CVOL3	30:COM17	-
	5178	-ve	12.510	0.000	0.000	0.000	0.000	14.142
			16:COM3	-	28:COM15	-	-	34:CVOL3
			-2.963	-11.146	-0.021	-0.084	-0.069	0.000
			26:COM13	34:CVOL3	22:COM9	34:CVOL3	22:COM9	-
12753	5207	+ve	0.334	8.524	0.004	0.017	0.071	3.613
			24:COM11	35:CVOL4	24:COM11	24:COM11	16:COM3	35:CVOL4
			-11.483	0.000	-0.027	-0.080	-0.014	0.000
			18:COM5	-	18:COM5	18:COM5	26:COM13	-
	5179	-ve	1.765	0.000	0.004	0.017	0.009	14.053
			24:COM11	-	24:COM11	24:COM11	24:COM11	34:CVOL3
			-8.406	-11.540	-0.027	-0.080	-0.098	0.000
			18:COM5	34:CVOL3	18:COM5	18:COM5	18:COM5	-
12754	5206	+ve	0.000	8.393	0.011	0.038	0.050	2.479
			-	35:CVOL4	24:COM11	24:COM11	16:COM3	34:CVOL3
			-17.044	0.000	-0.019	-0.047	-0.033	0.000
			34:CVOL3	-	18:COM5	18:COM5	26:COM13	-
	5180	-ve	0.000	0.000	0.011	0.038	0.037	13.816
			-	-	24:COM11	24:COM11	24:COM11	34:CVOL3
			-13.265	-11.677	-0.019	-0.047	-0.069	0.000
			34:CVOL3	34:CVOL3	18:COM5	18:COM5	18:COM5	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
12755	5205	+ve	0.000	8.388	0.022	0.079	0.028	2.467
			-	35:CVOL4	16:COM3	20:COM7	24:COM11	34:CVOL3
			-17.259	0.000	-0.010	-0.030	-0.060	0.000
			34:CVOL3	-	26:COM13	30:COM17	18:COM5	-
	5181	-ve	0.000	0.000	0.022	0.079	0.075	13.854
			-	-	16:COM3	20:COM7	16:COM3	34:CVOL3
			-13.480	-11.685	-0.010	-0.030	-0.034	0.000
			34:CVOL3	34:CVOL3	26:COM13	30:COM17	26:COM13	-
12756	5204	+ve	0.000	8.503	0.031	0.126	0.011	3.566
			-	35:CVOL4	16:COM3	20:COM7	24:COM11	35:CVOL4
			-11.211	0.000	-0.003	-0.020	-0.083	0.000
			18:COM5	-	26:COM13	30:COM17	18:COM5	-
	5182	-ve	0.079	0.000	0.031	0.126	0.107	14.167
			24:COM11	-	16:COM3	20:COM7	16:COM3	34:CVOL3
			-8.134	-11.569	-0.003	-0.020	-0.007	0.000
			18:COM5	34:CVOL3	26:COM13	30:COM17	26:COM13	-
12757	5203	+ve	3.568	8.847	0.026	0.131	0.000	7.223
			16:COM3	35:CVOL4	16:COM3	20:COM7	-	20:COM7
			-2.705	0.000	0.000	0.000	-0.073	0.000
			26:COM13	-	-	-	18:COM5	-
	5183	-ve	6.646	0.000	0.026	0.131	0.087	15.569
			16:COM3	-	16:COM3	20:COM7	16:COM3	20:COM7
			-1.275	-11.215	0.000	0.000	0.000	0.000
			26:COM13	34:CVOL3	-	-	-	-
12758	5179	+ve	0.760	10.088	0.091	0.094	0.000	14.266
			24:COM11	34:CVOL3	34:CVOL3	16:COM3	-	34:CVOL3
			-9.911	0.000	0.000	-0.040	-0.191	0.000
			18:COM5	-	-	26:COM13	34:CVOL3	-
	5235	-ve	0.760	0.000	0.091	0.094	0.184	0.230
			24:COM11	-	34:CVOL3	16:COM3	34:CVOL3	16:COM3
			-9.911	-3.967	0.000	-0.040	0.000	0.000
			18:COM5	35:CVOL4	-	26:COM13	-	-
12759	5180	+ve	0.000	10.103	0.047	0.069	0.000	14.178
			-	34:CVOL3	16:COM3	16:COM3	-	34:CVOL3
			-13.172	0.000	0.000	-0.051	-0.099	0.000
			34:CVOL3	-	-	26:COM13	18:COM5	-
	5240	-ve	0.000	0.000	0.047	0.069	0.095	0.154
			-	-	16:COM3	16:COM3	16:COM3	35:CVOL4
			-13.172	-4.102	0.000	-0.051	0.000	-0.058
			34:CVOL3	35:CVOL4	-	26:COM13	-	32:CVOL1
12760	5181	+ve	0.000	10.133	0.005	0.061	0.064	14.298
			-	34:CVOL3	24:COM11	24:COM11	16:COM3	34:CVOL3
			-13.346	0.000	-0.029	-0.055	-0.012	0.000
			34:CVOL3	-	18:COM5	18:COM5	26:COM13	-
	5241	-ve	0.000	0.000	0.005	0.061	0.009	0.138
			-	-	24:COM11	24:COM11	24:COM11	35:CVOL4
			-13.346	-4.066	-0.029	-0.055	-0.055	-0.072
			34:CVOL3	35:CVOL4	18:COM5	18:COM5	18:COM5	32:CVOL1

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
12761	5182	+ve	0.000	10.162	0.000	0.057	0.149	14.543
			-	34:CVOL3	-	28:COM1!	34:CVOL3	34:CVOL3
			-8.341	0.000	-0.070	-0.072	0.000	0.000
			18:COM5	-	34:CVOL3	22:COM9	-	-
	5242	-ve	0.000	0.000	0.000	0.057	0.000	0.181
			-	-	-	28:COM1!	-	16:COM3
			-8.341	-3.872	-0.070	-0.072	-0.139	-0.026
			18:COM5	35:CVOL4	34:CVOL3	22:COM9	34:CVOL3	26:COM1
12762	5183	+ve	5.802	10.099	0.000	0.043	0.182	15.135
			16:COM3	34:CVOL3	-	32:CVOL1	34:CVOL3	34:CVOL3
			-1.919	0.000	-0.085	-0.083	0.000	0.000
			26:COM1	-	34:CVOL3	35:CVOL4	-	-
	5243	-ve	5.802	0.000	0.000	0.043	0.000	1.110
			16:COM3	-	-	32:CVOL1	-	16:COM3
			-1.919	-3.651	-0.085	-0.083	-0.168	-0.032
			26:COM1	35:CVOL4	34:CVOL3	35:CVOL4	34:CVOL3	26:COM1
12763	5172	+ve	9.229	10.630	0.092	0.000	0.000	16.216
			20:COM7	34:CVOL3	34:CVOL3	-	-	34:CVOL3
			-3.121	0.000	0.000	-0.179	-0.201	0.000
			30:COM1	-	-	32:CVOL1	34:CVOL3	-
	5234	-ve	9.229	0.000	0.092	0.000	0.186	0.216
			20:COM7	-	34:CVOL3	-	34:CVOL3	24:COM1
			-3.121	-3.394	0.000	-0.179	0.000	-0.234
			30:COM1	35:CVOL4	-	32:CVOL1	-	18:COM5
12764	5173	+ve	0.000	10.799	0.071	0.047	0.000	16.706
			-	34:CVOL3	20:COM7	16:COM3	-	34:CVOL3
			-8.613	0.000	0.000	-0.073	-0.153	0.000
			18:COM5	-	-	32:CVOL1	22:COM9	-
	5233	-ve	0.000	0.000	0.071	0.047	0.143	0.000
			-	-	20:COM7	16:COM3	20:COM7	-
			-8.613	-3.495	0.000	-0.073	0.000	-0.227
			18:COM5	35:CVOL4	-	32:CVOL1	-	34:CVOL3
12765	5174	+ve	0.000	10.632	0.029	0.069	0.007	16.122
			-	34:CVOL3	16:COM3	16:COM3	24:COM11	34:CVOL3
			-13.507	0.000	-0.003	-0.040	-0.064	0.000
			34:CVOL3	-	26:COM1	26:COM1	18:COM5	-
	5232	-ve	0.000	0.000	0.029	0.069	0.056	0.047
			-	-	16:COM3	16:COM3	20:COM7	35:CVOL4
			-13.507	-3.779	-0.003	-0.040	-0.006	-0.172
			34:CVOL3	35:CVOL4	26:COM1	26:COM1	30:COM1	32:CVOL1
12766	5178	+ve	10.264	9.996	0.106	0.127	0.000	14.973
			16:COM3	34:CVOL3	34:CVOL3	35:CVOL4	-	34:CVOL3
			-4.579	0.000	0.000	-0.008	-0.232	0.000
			26:COM1	-	-	30:COM1	34:CVOL3	-
	5236	-ve	10.264	0.000	0.106	0.127	0.208	1.278
			16:COM3	-	34:CVOL3	35:CVOL4	34:CVOL3	16:COM3
			-4.579	-3.796	0.000	-0.008	0.000	0.000
			26:COM1	35:CVOL4	-	30:COM1	-	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
12767	5214	+ve	2.783	8.161	0.015	0.510	0.024	8.792
			24:COM1	20:COM7	16:COM3	16:COM3	24:COM1	20:COM7
			-7.000	0.000	-0.010	-0.155	-0.042	-1.170
			18:COM5	-	26:COM1	26:COM1	18:COM5	30:COM1
	5192	-ve	4.640	0.000	0.015	0.510	0.049	21.828
			16:COM3	-	16:COM3	16:COM3	16:COM3	20:COM7
			-4.349	-11.656	-0.010	-0.155	-0.037	-0.168
			26:COM1	34:CVOL	26:COM1	26:COM1	26:COM1	30:COM1
12768	5213	+ve	11.708	7.495	0.022	0.449	0.022	6.372
			24:COM1	16:COM3	16:COM3	16:COM3	24:COM1	24:COM1
			-13.832	-2.056	-0.009	-0.060	-0.064	-7.752
			18:COM5	26:COM1	26:COM1	26:COM1	18:COM5	18:COM5
	5191	-ve	13.852	0.000	0.022	0.449	0.070	36.811
			16:COM3	-	16:COM3	16:COM3	16:COM3	16:COM3
			-11.468	-15.162	-0.009	-0.060	-0.033	-3.332
			26:COM1	18:COM5	26:COM1	26:COM1	26:COM1	26:COM1
12769	5212	+ve	11.618	5.602	0.023	0.241	0.044	2.796
			24:COM1	16:COM3	16:COM3	20:COM7	24:COM1	24:COM1
			-12.418	-2.410	-0.017	-0.152	-0.066	-8.885
			18:COM5	26:COM1	26:COM1	30:COM1	18:COM5	18:COM5
	5190	-ve	14.234	0.000	0.023	0.241	0.070	40.327
			16:COM3	-	16:COM3	20:COM7	16:COM3	16:COM3
			-10.526	-15.949	-0.017	-0.152	-0.057	-0.506
			26:COM1	18:COM5	26:COM1	30:COM1	26:COM1	26:COM1
12770	5211	+ve	2.808	4.015	0.029	0.121	0.057	0.000
			24:COM1	16:COM3	16:COM3	24:COM1	24:COM1	-
			-5.611	-0.943	-0.022	-0.282	-0.082	-5.058
			18:COM5	26:COM1	26:COM1	18:COM5	18:COM5	18:COM5
	5194	-ve	4.937	0.000	0.029	0.121	0.087	34.934
			16:COM3	-	16:COM3	24:COM1	16:COM3	16:COM3
			-3.233	-15.402	-0.022	-0.282	-0.068	0.000
			26:COM1	34:CVOL	26:COM1	18:COM5	26:COM1	-
12771	5210	+ve	0.000	4.517	0.030	0.022	0.060	0.352
			-	35:CVOL4	16:COM3	24:COM1	24:COM1	28:COM1
			-3.723	0.000	-0.021	-0.382	-0.084	-1.769
			34:CVOL	-	26:COM1	18:COM5	18:COM5	22:COM9
	5193	-ve	0.660	0.000	0.030	0.022	0.087	27.006
			16:COM3	-	16:COM3	24:COM1	16:COM3	16:COM3
			-0.648	-14.001	-0.021	-0.382	-0.064	0.000
			26:COM1	34:CVOL	26:COM1	18:COM5	26:COM1	-
12772	5209	+ve	0.039	7.059	0.025	0.000	0.051	5.007
			24:COM1	35:CVOL4	16:COM3	24:COM1	24:COM1	35:CVOL4
			-4.323	0.000	-0.018	-0.389	-0.072	0.000
			18:COM5	-	26:COM1	18:COM5	18:COM5	-
	5145	-ve	1.758	0.000	0.025	0.000	0.075	18.173
			16:COM3	-	16:COM3	24:COM1	16:COM3	34:CVOL
			-1.535	-11.457	-0.018	-0.389	-0.055	0.000
			26:COM1	34:CVOL	26:COM1	18:COM5	26:COM1	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
12773	5237	+ve	2.258	2.438	0.285	0.129	0.116	0.055
			24:COM1	16:COM3	16:COM3	24:COM1	24:COM1	24:COM1
			-3.000	-0.156	-0.179	-0.231	-0.185	-0.491
			18:COM5	26:COM1	26:COM1	18:COM5	18:COM5	18:COM5
	5211	-ve	2.785	0.000	0.285	0.129	0.183	0.816
			16:COM3	-	16:COM3	24:COM1	16:COM3	24:COM1
			-2.294	-2.351	-0.179	-0.231	-0.115	-1.088
			26:COM1	18:COM5	26:COM1	18:COM5	26:COM1	18:COM5
12774	5238	+ve	0.879	1.795	0.367	0.129	0.127	0.056
			28:COM1	16:COM3	16:COM3	24:COM1	24:COM1	24:COM1
			-1.645	-0.066	-0.190	-0.363	-0.242	-0.144
			22:COM9	26:COM1	26:COM1	18:COM5	18:COM5	18:COM5
	5210	-ve	1.410	0.000	0.367	0.129	0.232	0.964
			20:COM7	-	16:COM3	24:COM1	16:COM3	24:COM1
			-0.944	-2.474	-0.190	-0.363	-0.119	-0.174
			30:COM1	18:COM5	26:COM1	18:COM5	26:COM1	18:COM5
12775	5239	+ve	0.429	0.000	0.354	0.156	0.070	0.147
			24:COM1	-	16:COM3	24:COM1	24:COM1	20:COM7
			-2.081	-0.959	-0.111	-0.348	-0.235	-0.055
			18:COM5	22:COM9	26:COM1	18:COM5	18:COM5	30:COM1
	5209	-ve	0.820	0.000	0.354	0.156	0.222	3.570
			24:COM1	-	16:COM3	24:COM1	16:COM3	35:CVOL4
			-1.239	-4.736	-0.111	-0.348	-0.073	0.000
			18:COM5	35:CVOL4	26:COM1	18:COM5	26:COM1	-
12779	5194	+ve	1.681	16.336	0.032	0.148	0.069	40.472
			28:COM1	34:CVOL3	16:COM3	24:COM1	24:COM1	34:CVOL3
			-1.763	0.000	-0.031	-0.273	-0.074	0.000
			22:COM9	-	26:COM1	18:COM5	18:COM5	-
	5274	-ve	1.681	2.368	0.032	0.148	0.073	0.043
			28:COM1	32:CVOL1	16:COM3	24:COM1	16:COM3	24:COM1
			-1.763	-0.095	-0.031	-0.273	-0.072	-0.543
			22:COM9	35:CVOL4	26:COM1	18:COM5	26:COM1	18:COM5
12782	5145	+ve	1.390	15.517	0.020	0.301	0.075	36.628
			24:COM1	34:CVOL3	24:COM1	16:COM3	16:COM3	34:CVOL3
			-2.171	0.000	-0.032	-0.041	-0.046	0.000
			18:COM5	-	18:COM5	26:COM1	26:COM1	-
	5272	-ve	1.390	1.833	0.020	0.301	0.046	0.197
			24:COM1	32:CVOL1	24:COM1	16:COM3	24:COM1	24:COM1
			-2.171	-0.989	-0.032	-0.041	-0.070	-0.841
			18:COM5	18:COM5	18:COM5	26:COM1	18:COM5	18:COM5
12783	5193	+ve	0.686	16.307	0.032	0.187	0.068	40.255
			24:COM1	34:CVOL3	16:COM3	16:COM3	16:COM3	34:CVOL3
			-1.194	0.000	-0.031	-0.124	-0.070	0.000
			18:COM5	-	26:COM1	26:COM1	26:COM1	-
	5273	-ve	0.686	2.376	0.032	0.187	0.077	0.000
			24:COM1	32:CVOL1	16:COM3	16:COM3	16:COM3	-
			-1.194	-0.201	-0.031	-0.124	-0.076	-0.533
			18:COM5	35:CVOL4	26:COM1	26:COM1	26:COM1	34:CVOL3

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
12785	5190	+ve	10.442	15.739	0.019	0.142	0.050	37.527
			16:COM3	34:CVOL3	16:COM3	24:COM1	24:COM1	34:CVOL3
			-8.184	0.000	-0.019	-0.427	-0.054	0.000
			26:COM1	-	26:COM1	18:COM5	18:COM5	-
	5277	-ve	10.442	2.565	0.019	0.142	0.033	0.195
			16:COM3	24:COM1	16:COM3	24:COM1	24:COM1	24:COM1
			-8.184	-1.088	-0.019	-0.427	-0.038	-0.873
			26:COM1	18:COM5	26:COM1	18:COM5	18:COM5	18:COM5
12786	5191	+ve	13.982	13.743	0.054	0.000	0.159	33.671
			24:COM1	16:COM3	24:COM1	-	16:COM3	16:COM3
			-13.143	0.000	-0.074	-0.515	-0.116	0.000
			18:COM5	-	18:COM5	18:COM5	26:COM1	-
	5275	-ve	13.982	2.879	0.054	0.000	0.119	1.095
			24:COM1	24:COM1	24:COM1	-	24:COM1	24:COM1
			-13.143	-3.298	-0.074	-0.515	-0.164	-1.260
			18:COM5	18:COM5	18:COM5	18:COM5	18:COM5	18:COM5
12787	5192	+ve	3.723	10.856	0.080	0.156	0.177	18.743
			28:COM1	34:CVOL3	16:COM3	24:COM1	24:COM1	34:CVOL3
			-6.553	0.000	-0.080	-0.515	-0.182	0.000
			22:COM9	-	26:COM1	18:COM5	18:COM5	-
	5276	-ve	3.723	0.000	0.080	0.156	0.159	1.749
			28:COM1	-	16:COM3	24:COM1	16:COM3	34:CVOL3
			-6.553	-3.319	-0.080	-0.515	-0.162	0.000
			22:COM9	35:CVOL4	26:COM1	18:COM5	26:COM1	-
12788	5231	+ve	1.342	9.395	0.006	0.032	0.023	9.123
			24:COM1	35:CVOL4	24:COM1	28:COM1	16:COM3	35:CVOL4
			-4.803	0.000	-0.008	-0.037	-0.016	0.000
			18:COM5	-	18:COM5	22:COM9	26:COM1	-
	5195	-ve	3.264	0.000	0.006	0.032	0.020	13.142
			16:COM3	-	24:COM1	28:COM1	24:COM1	34:CVOL3
			-2.218	-10.581	-0.008	-0.037	-0.026	0.000
			26:COM1	34:CVOL3	18:COM5	22:COM9	18:COM5	-
12789	5476	+ve	0.590	9.830	2.116	18.211	0.005	10.887
			28:COM1	16:COM3	16:COM3	16:COM3	24:COM1	16:COM3
			-10.847	0.000	-0.064	-0.920	-3.318	-0.680
			22:COM9	-	26:COM1	26:COM1	18:COM5	26:COM1
	5520	-ve	1.331	3.732	2.116	18.211	1.272	2.341
			28:COM1	24:COM1	16:COM3	16:COM3	20:COM7	16:COM3
			-9.510	-4.455	-0.064	-0.920	-0.520	-2.172
			22:COM9	18:COM5	26:COM1	26:COM1	30:COM1	26:COM1
12790	5197	+ve	33.776	0.000	1.682	0.000	3.212	27.159
			20:COM7	-	20:COM7	-	16:COM3	16:COM3
			0.000	-39.326	-0.144	-8.119	-0.096	-5.836
			-	35:CVOL4	30:COM1	22:COM9	26:COM1	26:COM1
	5151	-ve	33.776	0.000	1.682	0.000	5.012	103.976
			20:COM7	-	20:COM7	-	16:COM3	16:COM3
			0.000	-41.580	-0.144	-8.119	0.000	0.000
			-	35:CVOL4	30:COM1	22:COM9	-	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
12791	5198	+ve	26.940	0.000	2.297	0.000	0.000	0.000
			20:COM7	-	16:COM3	-	-	-
			0.000	-21.823	-0.244	-6.484	-2.055	-29.713
			-	35:CVOL4	26:COM1	35:CVOL4	22:COM9	18:COM5
	5197	-ve	26.940	0.000	2.297	0.000	2.774	27.673
			20:COM7	-	16:COM3	-	16:COM3	16:COM3
			0.000	-24.078	-0.244	-6.484	-0.866	-5.568
			-	35:CVOL4	26:COM1	35:CVOL4	26:COM1	26:COM1
12792	5199	+ve	22.403	0.000	0.185	0.000	0.000	0.000
			20:COM7	-	20:COM7	-	-	-
			-1.774	-10.687	-0.064	-3.618	-2.426	-47.791
			30:COM1	18:COM5	30:COM1	18:COM5	22:COM9	35:CVOL4
	5198	-ve	22.403	0.000	0.185	0.000	0.000	0.000
			20:COM7	-	20:COM7	-	-	-
			-1.774	-12.942	-0.064	-3.618	-2.179	-29.448
			30:COM1	18:COM5	30:COM1	18:COM5	35:CVOL4	18:COM5
12793	5200	+ve	21.164	4.655	0.346	1.112	0.000	0.000
			20:COM7	16:COM3	24:COM1	16:COM3	-	-
			-2.159	-1.683	-0.673	-1.016	-2.671	-46.791
			30:COM1	26:COM1	18:COM5	26:COM1	35:CVOL4	35:CVOL4
	5199	-ve	21.164	2.538	0.346	1.112	0.000	0.000
			20:COM7	24:COM1	24:COM1	16:COM3	-	-
			-2.159	-3.511	-0.673	-1.016	-3.290	-47.566
			30:COM1	18:COM5	18:COM5	26:COM1	18:COM5	35:CVOL4
12794	5201	+ve	20.735	14.073	0.106	3.650	0.000	0.827
			20:COM7	16:COM3	24:COM1	20:COM7	-	24:COM1
			-1.442	0.000	-0.919	0.000	-1.496	-29.592
			30:COM1	-	18:COM5	-	35:CVOL4	18:COM5
	5200	-ve	20.735	11.818	0.106	3.650	0.000	0.000
			20:COM7	16:COM3	24:COM1	20:COM7	-	-
			-1.442	0.000	-0.919	0.000	-3.101	-46.864
			30:COM1	-	18:COM5	-	18:COM5	35:CVOL4
12795	5202	+ve	24.543	24.965	0.609	6.445	3.261	36.432
			20:COM7	35:CVOL4	28:COM1	34:CVOL3	20:COM7	16:COM3
			0.000	0.000	-2.599	0.000	-1.107	-4.275
			-	-	22:COM9	-	30:COM1	26:COM1
	5201	-ve	24.543	22.710	0.609	6.445	0.494	0.570
			20:COM7	35:CVOL4	28:COM1	34:CVOL3	24:COM1	24:COM1
			0.000	0.000	-2.599	0.000	-2.231	-29.667
			-	-	22:COM9	-	18:COM5	18:COM5
12796	5203	+ve	50.393	0.000	2.255	0.000	6.807	35.016
			16:COM3	-	28:COM1	-	16:COM3	16:COM3
			-21.544	-39.958	-3.253	-8.470	-1.351	-12.597
			26:COM1	35:CVOL4	22:COM9	22:COM9	26:COM1	26:COM1
	5152	-ve	50.393	0.000	2.255	0.000	4.455	113.690
			16:COM3	-	28:COM1	-	20:COM7	16:COM3
			-21.544	-42.232	-3.253	-8.470	-0.967	0.000
			26:COM1	35:CVOL4	22:COM9	22:COM9	30:COM1	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
12797	5204	+ve	42.571	0.000	2.193	0.000	1.027	0.484
			16:COM3	-	20:COM7	-	28:COM15	24:COM11
			-17.002	-22.736	-0.657	-6.844	-2.684	-35.898
			26:COM13	18:COM5	30:COM17	35:CVOL4	22:COM9	18:COM5
	5203	-ve	42.571	0.000	2.193	0.000	1.984	36.601
			16:COM3	-	20:COM7	-	20:COM7	16:COM3
			-17.002	-25.011	-0.657	-6.844	-0.611	-12.718
			26:COM13	18:COM5	30:COM17	35:CVOL4	30:COM17	26:COM13
12798	5205	+ve	38.260	0.112	0.791	0.036	0.000	0.000
			16:COM3	24:COM11	16:COM3	24:COM11	-	-
			-16.176	-12.235	-0.287	-4.265	-3.189	-48.461
			26:COM13	18:COM5	26:COM13	18:COM5	22:COM9	35:CVOL4
	5204	-ve	38.260	0.000	0.791	0.036	0.000	0.916
			16:COM3	-	16:COM3	24:COM11	-	24:COM11
			-16.176	-14.511	-0.287	-4.265	-1.904	-35.876
			26:COM13	18:COM5	26:COM13	18:COM5	35:CVOL4	18:COM5
12799	5206	+ve	35.525	5.623	0.766	1.214	0.000	0.000
			16:COM3	16:COM3	16:COM3	24:COM11	-	-
			-12.634	-3.182	-0.507	-1.673	-3.310	-47.622
			26:COM13	26:COM13	26:COM13	18:COM5	22:COM9	35:CVOL4
	5205	-ve	35.525	3.497	0.766	1.214	0.000	0.000
			16:COM3	24:COM11	16:COM3	24:COM11	-	-
			-12.634	-5.038	-0.507	-1.673	-3.019	-48.351
			26:COM13	18:COM5	26:COM13	18:COM5	18:COM5	35:CVOL4
12800	5207	+ve	33.779	15.083	0.227	3.541	0.000	0.000
			16:COM3	16:COM3	24:COM11	16:COM3	-	-
			-8.605	0.000	-0.436	-0.240	-2.029	-32.340
			26:COM13	-	18:COM5	26:COM13	35:CVOL4	18:COM5
	5206	-ve	33.779	12.808	0.227	3.541	0.000	0.000
			16:COM3	16:COM3	24:COM11	16:COM3	-	-
			-8.605	0.000	-0.436	-0.240	-2.799	-47.845
			26:COM13	-	18:COM5	26:COM13	18:COM5	35:CVOL4
12801	5208	+ve	38.068	26.010	0.441	6.138	3.147	38.467
			16:COM3	16:COM3	28:COM15	35:CVOL4	20:COM7	16:COM3
			-3.836	0.000	-2.354	0.000	-1.191	-9.901
			26:COM13	-	22:COM9	-	30:COM17	26:COM13
	5207	-ve	38.068	23.735	0.441	6.138	0.382	0.000
			16:COM3	16:COM3	28:COM15	35:CVOL4	24:COM11	-
			-3.836	0.000	-2.354	0.000	-2.201	-32.482
			26:COM13	-	22:COM9	-	18:COM5	18:COM5
12802	5209	+ve	7.748	0.000	0.265	9.109	3.817	15.968
			28:COM15	-	28:COM15	16:COM3	20:COM7	20:COM7
			-18.308	-28.985	-1.401	-3.082	0.000	-2.082
			22:COM9	35:CVOL4	22:COM9	26:COM13	-	30:COM17
	5153	-ve	7.748	0.000	0.265	9.109	2.139	70.494
			28:COM15	-	28:COM15	16:COM3	20:COM7	16:COM3
			-18.308	-31.259	-1.401	-3.082	-0.165	0.000
			22:COM9	35:CVOL4	22:COM9	26:COM13	30:COM17	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
12803	5210	+ve	8.922	0.000	1.642	10.273	0.000	0.000
			28:COM15	-	16:COM3	16:COM3	-	-
			-28.767	-14.800	-0.114	-2.706	-2.167	-24.722
			22:COM9	18:COM5	26:COM13	26:COM13	18:COM5	22:COM9
	5209	-ve	8.922	0.000	1.642	10.273	1.369	16.844
			28:COM15	-	16:COM3	16:COM3	16:COM3	20:COM7
			-28.767	-17.073	-0.114	-2.706	-0.524	-1.816
			22:COM9	18:COM5	26:COM13	26:COM13	26:COM13	30:COM17
12804	5211	+ve	16.791	0.000	0.958	8.430	0.000	0.000
			24:COM11	-	16:COM3	16:COM3	-	-
			-40.870	-6.694	0.000	-3.070	-3.399	-36.917
			18:COM5	18:COM5	-	26:COM13	22:COM9	22:COM9
	5210	-ve	16.791	0.000	0.958	8.430	0.037	0.000
			24:COM11	-	16:COM3	16:COM3	28:COM15	-
			-40.870	-8.967	0.000	-3.070	-2.044	-24.582
			18:COM5	18:COM5	-	26:COM13	22:COM9	22:COM9
12805	5212	+ve	26.899	3.026	1.192	3.446	0.150	0.000
			24:COM11	16:COM3	16:COM3	28:COM15	28:COM15	-
			-50.604	-0.500	-1.067	-3.541	-3.893	-36.779
			18:COM5	26:COM13	26:COM13	22:COM9	22:COM9	18:COM5
	5211	-ve	26.899	0.842	1.192	3.446	0.000	0.000
			24:COM11	24:COM11	16:COM3	28:COM15	-	-
			-50.604	-2.294	-1.067	-3.541	-3.178	-37.106
			18:COM5	18:COM5	26:COM13	22:COM9	18:COM5	22:COM9
12806	5213	+ve	30.081	9.960	0.624	0.274	0.255	0.000
			24:COM11	20:COM7	16:COM3	24:COM11	24:COM11	-
			-45.829	0.000	-0.511	-5.917	-3.398	-22.138
			18:COM5	-	26:COM13	18:COM5	18:COM5	18:COM5
	5212	-ve	30.081	7.687	0.624	0.274	0.000	0.000
			24:COM11	20:COM7	16:COM3	24:COM11	-	-
			-45.829	0.000	-0.511	-5.917	-2.292	-37.293
			18:COM5	-	26:COM13	18:COM5	18:COM5	18:COM5
12807	5214	+ve	41.517	21.140	2.464	4.342	3.651	20.508
			24:COM11	20:COM7	24:COM11	24:COM11	16:COM3	20:COM7
			-48.487	0.000	-3.432	-11.625	-2.512	-1.156
			18:COM5	-	18:COM5	18:COM5	26:COM13	30:COM17
	5213	-ve	41.517	18.867	2.464	4.342	2.397	0.000
			24:COM11	20:COM7	24:COM11	24:COM11	24:COM11	-
			-48.487	0.000	-3.432	-11.625	-3.166	-21.825
			18:COM5	-	18:COM5	18:COM5	18:COM5	18:COM5
12808	5215	+ve	2.012	0.000	0.091	0.000	0.269	11.669
			28:COM15	-	24:COM11	-	16:COM3	16:COM3
			-13.577	-7.395	-0.205	-0.853	0.000	-0.034
			22:COM9	18:COM5	18:COM5	18:COM5	-	26:COM13
	5163	-ve	2.012	0.000	0.091	0.000	0.215	25.085
			28:COM15	-	24:COM11	-	16:COM3	35:CVOL4
			-13.577	-9.047	-0.205	-0.853	-0.138	0.000
			22:COM9	18:COM5	18:COM5	18:COM5	26:COM13	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
12809	5216	+ve	15.453	0.000	0.129	0.000	0.000	0.000
			16:COM3	-	16:COM3	-	-	-
			0.000	-7.532	-0.003	-0.747	-0.081	-9.123
			-	35:CVOL4	26:COM13	35:CVOL4	22:COM9	18:COM5
	5215	-ve	15.453	0.000	0.129	0.000	0.183	11.332
			16:COM3	-	16:COM3	-	16:COM3	16:COM3
			0.000	-9.183	-0.003	-0.747	-0.030	-0.131
			-	35:CVOL4	26:COM13	35:CVOL4	26:COM13	26:COM13
12810	5217	+ve	28.165	0.000	0.055	0.000	0.000	0.000
			20:COM7	-	16:COM3	-	-	-
			0.000	-4.082	0.000	-0.374	-0.153	-16.583
			-	18:COM5	-	18:COM5	22:COM9	35:CVOL4
	5216	-ve	28.165	0.000	0.055	0.000	0.000	0.000
			20:COM7	-	16:COM3	-	-	-
			0.000	-5.733	0.000	-0.374	-0.079	-9.274
			-	18:COM5	-	18:COM5	18:COM5	18:COM5
12811	5218	+ve	33.467	2.204	0.000	0.103	0.000	0.000
			35:CVOL4	16:COM3	24:COM11	16:COM3	-	-
			0.000	-0.360	-0.021	-0.092	-0.134	-16.343
			-	26:COM13	18:COM5	26:COM13	35:CVOL4	35:CVOL4
	5217	-ve	33.467	0.702	0.000	0.103	0.000	0.000
			35:CVOL4	24:COM11	24:COM11	16:COM3	-	-
			0.000	-1.748	-0.021	-0.092	-0.159	-16.648
			-	18:COM5	18:COM5	26:COM13	35:CVOL4	35:CVOL4
12812	5219	+ve	29.188	6.131	0.000	0.374	0.023	1.299
			16:COM3	16:COM3	-	20:COM7	24:COM11	24:COM11
			0.000	0.000	-0.079	0.000	-0.048	-9.252
			-	-	22:COM9	-	18:COM5	18:COM5
	5218	-ve	29.188	4.479	0.000	0.374	0.000	0.000
			16:COM3	16:COM3	-	20:COM7	-	-
			0.000	0.000	-0.079	0.000	-0.168	-16.256
			-	-	22:COM9	-	18:COM5	35:CVOL4
12813	5220	+ve	16.603	9.317	0.000	0.745	0.204	14.981
			16:COM3	34:CVOL3	-	35:CVOL4	20:COM7	16:COM3
			-7.922	0.000	-0.133	0.000	-0.011	-0.259
			26:COM13	-	22:COM9	-	30:COM17	26:COM13
	5219	-ve	16.603	7.666	0.000	0.745	0.005	1.416
			16:COM3	34:CVOL3	-	35:CVOL4	24:COM11	24:COM11
			-7.922	0.000	-0.133	0.000	-0.089	-9.070
			26:COM13	-	22:COM9	-	18:COM5	18:COM5
12814	5221	+ve	24.383	0.000	0.007	0.000	0.249	15.483
			24:COM11	-	24:COM11	-	16:COM3	16:COM3
			-37.123	-7.334	-0.096	-0.844	0.000	-3.078
			18:COM5	35:CVOL4	18:COM5	22:COM9	-	26:COM13
	5164	-ve	24.383	0.000	0.007	0.000	0.177	30.267
			24:COM11	-	24:COM11	-	16:COM3	16:COM3
			-37.123	-9.002	-0.096	-0.844	-0.046	0.000
			18:COM5	35:CVOL4	18:COM5	22:COM9	26:COM13	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
12815	5222	+ve	35.575	0.000	0.117	0.000	0.007	1.403
			16:COM3	-	16:COM3	-	28:COM15	24:COM11
			-18.794	-7.667	0.000	-0.782	-0.100	-11.494
			26:COM13	18:COM5	-	35:CVOL4	22:COM9	18:COM5
	5221	-ve	35.575	0.000	0.117	0.000	0.191	15.145
			16:COM3	-	16:COM3	-	16:COM3	16:COM3
			-18.794	-9.334	0.000	-0.782	-0.014	-3.202
			26:COM13	18:COM5	-	35:CVOL4	26:COM13	26:COM13
12816	5223	+ve	43.630	0.032	0.072	0.000	0.000	0.000
			16:COM3	24:COM11	16:COM3	-	-	-
			-4.918	-4.576	0.000	-0.423	-0.166	-16.937
			26:COM13	18:COM5	-	18:COM5	35:CVOL4	35:CVOL4
	5222	-ve	43.630	0.000	0.072	0.000	0.023	1.256
			16:COM3	-	16:COM3	-	24:COM11	24:COM11
			-4.918	-6.243	0.000	-0.423	-0.082	-11.654
			26:COM13	18:COM5	-	18:COM5	18:COM5	18:COM5
12817	5224	+ve	41.554	2.554	0.023	0.112	0.000	0.000
			16:COM3	16:COM3	16:COM3	24:COM11	-	-
			0.000	-0.887	-0.018	-0.152	-0.153	-16.703
			-	26:COM13	26:COM13	18:COM5	35:CVOL4	35:CVOL4
	5223	-ve	41.554	1.036	0.023	0.112	0.000	0.000
			16:COM3	24:COM11	16:COM3	24:COM11	-	-
			0.000	-2.287	-0.018	-0.152	-0.156	-17.026
			-	18:COM5	26:COM13	18:COM5	22:COM9	35:CVOL4
12818	5225	+ve	30.741	6.561	0.004	0.373	0.027	1.022
			20:COM7	16:COM3	28:COM15	20:COM7	24:COM11	24:COM11
			0.000	0.000	-0.080	-0.015	-0.088	-10.286
			-	-	22:COM9	30:COM17	18:COM5	18:COM5
	5224	-ve	30.741	4.893	0.004	0.373	0.000	0.000
			20:COM7	16:COM3	28:COM15	20:COM7	-	-
			0.000	0.000	-0.080	-0.015	-0.162	-16.641
			-	-	22:COM9	30:COM17	22:COM9	35:CVOL4
12819	5226	+ve	16.439	9.458	0.004	0.727	0.216	15.256
			20:COM7	35:CVOL4	28:COM15	35:CVOL4	20:COM7	16:COM3
			-2.040	0.000	-0.141	0.000	-0.039	-1.878
			30:COM17	-	22:COM9	-	30:COM17	26:COM13
	5225	-ve	16.439	7.790	0.004	0.727	0.000	1.162
			20:COM7	35:CVOL4	28:COM15	35:CVOL4	-	24:COM11
			-2.040	0.000	-0.141	0.000	-0.085	-10.152
			30:COM17	-	22:COM9	-	18:COM5	18:COM5
12820	5229	+ve	25.863	9.015	0.000	0.473	0.217	11.167
			24:COM11	35:CVOL4	-	24:COM11	20:COM7	20:COM7
			-32.054	0.000	-0.139	-0.932	-0.051	0.000
			18:COM5	-	22:COM9	18:COM5	30:COM17	-
	5228	-ve	25.863	7.349	0.000	0.473	0.000	0.000
			24:COM11	35:CVOL4	-	24:COM11	-	-
			-32.054	0.000	-0.139	-0.932	-0.102	-7.566
			18:COM5	-	22:COM9	18:COM5	22:COM9	22:COM9

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
12822	5231	+ve	2.679	29.999	3.756	0.000	1.659	21.794
			28:COM15	24:COM11	20:COM7	-	28:COM15	16:COM3
			-14.046	-25.680	-0.305	-3.192	-1.779	0.000
			22:COM9	18:COM5	30:COM17	18:COM5	22:COM9	-
	5476	-ve	2.679	27.674	3.756	0.000	6.262	68.884
			28:COM15	24:COM11	20:COM7	-	16:COM3	16:COM3
			-14.046	-28.780	-0.305	-3.192	0.000	-44.110
			22:COM9	18:COM5	30:COM17	18:COM5	-	26:COM13
12824	5195	+ve	39.042	53.705	2.669	0.000	1.813	11.655
			16:COM3	24:COM11	20:COM7	-	28:COM15	24:COM11
			-17.394	-52.639	-1.743	-4.449	-2.685	-15.310
			26:COM13	18:COM5	30:COM17	18:COM5	22:COM9	18:COM5
	5490	-ve	39.042	51.380	2.669	0.000	4.113	94.077
			16:COM3	24:COM11	20:COM7	-	16:COM3	16:COM3
			-17.394	-55.739	-1.743	-4.449	-3.118	-94.411
			26:COM13	18:COM5	30:COM17	18:COM5	26:COM13	26:COM13
12825	5235	+ve	48.654	7.475	0.088	0.134	0.038	0.000
			16:COM3	34:CVOL3	16:COM3	24:COM11	24:COM11	-
			-9.389	0.000	-0.061	-0.228	-0.212	-13.512
			26:COM13	-	26:COM13	18:COM5	18:COM5	18:COM5
	5240	-ve	48.654	5.453	0.088	0.134	0.002	0.000
			16:COM3	16:COM3	16:COM3	24:COM11	24:COM11	-
			-9.389	0.000	-0.061	-0.228	-0.121	-23.810
			26:COM13	-	26:COM13	18:COM5	18:COM5	34:CVOL3
12826	5236	+ve	23.618	13.355	0.067	0.000	0.003	16.211
			24:COM11	34:CVOL3	16:COM3	-	24:COM11	16:COM3
			-24.972	0.000	-0.024	-0.388	-0.051	-1.755
			18:COM5	-	26:COM13	35:CVOL4	18:COM5	26:COM13
	5235	-ve	23.618	10.750	0.067	0.000	0.095	0.000
			24:COM11	34:CVOL3	16:COM3	-	16:COM3	-
			-24.972	0.000	-0.024	-0.388	-0.058	-13.512
			18:COM5	-	26:COM13	35:CVOL4	26:COM13	18:COM5
12827	5220	+ve	0.292	0.133	0.000	0.000	0.284	0.153
			24:COM11	28:COM15	-	-	34:CVOL3	24:COM11
			-1.234	-2.806	-0.443	-0.373	0.000	-0.174
			18:COM5	22:COM9	34:CVOL3	35:CVOL4	-	18:COM5
	5202	-ve	0.710	0.000	0.000	0.000	0.000	5.640
			16:COM3	-	-	-	-	20:COM7
			-0.419	-6.265	-0.443	-0.373	-0.291	0.000
			26:COM13	35:CVOL4	34:CVOL3	35:CVOL4	22:COM9	-
12828	5219	+ve	0.000	1.943	0.000	0.000	0.259	0.386
			-	34:CVOL3	-	-	16:COM3	35:CVOL4
			-3.085	0.000	-0.398	-0.239	0.000	0.000
			18:COM5	-	18:COM5	35:CVOL4	-	-
	5201	-ve	0.263	0.000	0.000	0.000	0.000	0.782
			24:COM11	-	-	-	-	16:COM3
			-2.244	-2.120	-0.398	-0.239	-0.255	0.000
			18:COM5	35:CVOL4	18:COM5	35:CVOL4	18:COM5	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
12829	5218	+ve	0.000	2.951	0.017	0.014	0.155	0.344
			-	35:CVOL4	24:COM11	24:COM11	16:COM3	35:CVOL4
			-4.151	0.000	-0.233	-0.101	-0.014	0.000
			34:CVOL3	-	18:COM5	18:COM5	26:COM13	-
	5200	-ve	0.000	0.000	0.017	0.014	0.008	0.138
			-	-	24:COM11	24:COM11	24:COM11	28:COM15
			-3.117	-1.226	-0.233	-0.101	-0.146	-0.859
			34:CVOL3	34:CVOL3	18:COM5	18:COM5	18:COM5	35:CVOL4
12830	5217	+ve	0.000	2.991	0.166	0.098	0.037	0.347
			-	35:CVOL4	16:COM3	16:COM3	24:COM11	35:CVOL4
			-4.247	0.000	-0.054	-0.019	-0.112	0.000
			34:CVOL3	-	26:COM13	26:COM13	18:COM5	-
	5199	-ve	0.000	0.000	0.166	0.098	0.102	0.148
			-	-	16:COM3	16:COM3	16:COM3	28:COM15
			-3.213	-1.197	-0.054	-0.019	-0.033	-0.907
			34:CVOL3	34:CVOL3	26:COM13	26:COM13	26:COM13	35:CVOL4
12831	5216	+ve	0.000	2.085	0.322	0.233	0.000	0.413
			-	35:CVOL4	16:COM3	16:COM3	-	35:CVOL4
			-2.868	0.000	0.000	0.000	-0.209	0.000
			18:COM5	-	-	-	18:COM5	-
	5198	-ve	0.105	0.000	0.322	0.233	0.207	0.991
			24:COM11	-	16:COM3	16:COM3	16:COM3	16:COM3
			-2.026	-2.171	0.000	0.000	0.000	-0.186
			18:COM5	18:COM5	-	-	-	26:COM13
12832	5215	+ve	0.000	0.831	0.403	0.387	0.000	0.305
			-	24:COM11	35:CVOL4	35:CVOL4	-	16:COM3
			-1.213	-3.350	0.000	0.000	-0.255	-0.253
			22:COM9	18:COM5	-	-	35:CVOL4	26:COM13
	5197	-ve	0.347	0.000	0.403	0.387	0.264	6.216
			20:COM7	-	35:CVOL4	35:CVOL4	35:CVOL4	16:COM3
			-0.414	-6.639	0.000	0.000	0.000	0.000
			30:COM17	18:COM5	-	-	-	-
12833	5226	+ve	0.001	0.526	0.000	0.000	0.289	0.270
			28:COM15	24:COM11	-	-	20:COM7	24:COM11
			-1.155	-3.841	-0.454	-0.374	0.000	-0.328
			22:COM9	18:COM5	22:COM9	35:CVOL4	-	18:COM5
	5208	-ve	0.522	0.000	0.000	0.000	0.000	6.760
			20:COM7	-	-	-	-	16:COM3
			-0.444	-7.130	-0.454	-0.374	-0.298	0.000
			30:COM17	18:COM5	22:COM9	35:CVOL4	22:COM9	-
12834	5224	+ve	0.000	3.016	0.100	0.039	0.178	0.344
			-	35:CVOL4	24:COM11	24:COM11	16:COM3	35:CVOL4
			-4.407	0.000	-0.262	-0.100	-0.069	0.000
			34:CVOL3	-	18:COM5	18:COM5	26:COM13	-
	5206	-ve	0.000	0.000	0.100	0.039	0.060	0.085
			-	-	24:COM11	24:COM11	24:COM11	28:COM15
			-3.374	-1.162	-0.262	-0.100	-0.161	-0.942
			34:CVOL3	34:CVOL3	18:COM5	18:COM5	18:COM5	35:CVOL4

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
12835	5223	+ve	0.000	3.035	0.265	0.125	0.071	0.342
			-	35:CVOL4	16:COM3	16:COM3	24:COM11	35:CVOL4
			-4.794	0.000	-0.101	-0.025	-0.178	0.000
			18:COM5	-	26:COM13	26:COM13	18:COM5	-
	5205	-ve	0.000	0.000	0.265	0.125	0.164	0.147
			-	-	16:COM3	16:COM3	16:COM3	28:COM15
			-3.953	-1.154	-0.101	-0.025	-0.059	-0.968
			18:COM5	22:COM9	26:COM13	26:COM13	26:COM13	35:CVOL4
12836	5222	+ve	0.384	2.128	0.422	0.252	0.000	0.415
			24:COM11	35:CVOL4	16:COM3	16:COM3	-	35:CVOL4
			-3.973	0.000	0.000	0.000	-0.279	0.000
			18:COM5	-	-	-	18:COM5	-
	5204	-ve	0.775	0.000	0.422	0.252	0.266	0.720
			24:COM11	-	16:COM3	16:COM3	16:COM3	16:COM3
			-3.132	-1.974	0.000	0.000	0.000	0.000
			18:COM5	34:CVOL3	-	-	-	-
12837	5221	+ve	0.426	0.000	0.432	0.407	0.000	0.214
			24:COM11	-	16:COM3	35:CVOL4	-	16:COM3
			-2.502	-2.641	0.000	0.000	-0.289	-0.146
			18:COM5	18:COM5	-	-	18:COM5	26:COM13
	5203	-ve	0.817	0.000	0.432	0.407	0.270	5.429
			24:COM11	-	16:COM3	35:CVOL4	16:COM3	16:COM3
			-1.660	-5.997	0.000	0.000	0.000	0.000
			18:COM5	35:CVOL4	-	-	-	-
12838	5225	+ve	0.000	1.975	0.000	0.000	0.272	0.407
			-	35:CVOL4	-	-	16:COM3	35:CVOL4
			-2.837	0.000	-0.416	-0.234	0.000	0.000
			22:COM9	-	18:COM5	22:COM9	-	-
	5207	-ve	0.000	0.000	0.000	0.000	0.000	1.092
			-	-	-	-	-	16:COM3
			-1.996	-2.263	-0.416	-0.234	-0.264	-0.060
			22:COM9	18:COM5	18:COM5	22:COM9	18:COM5	26:COM13
12839	5229	+ve	3.175	2.331	0.081	0.381	0.159	0.497
			16:COM3	24:COM11	28:COM15	16:COM3	20:COM7	16:COM3
			-3.073	-3.176	-0.260	-0.250	-0.048	-0.138
			26:COM13	18:COM5	22:COM9	26:COM13	30:COM17	26:COM13
	5214	-ve	4.017	0.802	0.081	0.381	0.057	6.194
			16:COM3	24:COM11	28:COM15	16:COM3	28:COM15	16:COM3
			-2.682	-6.465	-0.260	-0.250	-0.177	-1.636
			26:COM13	18:COM5	22:COM9	26:COM13	22:COM9	26:COM13
12840	5228	+ve	1.091	2.509	0.140	0.357	0.094	0.449
			24:COM11	16:COM3	24:COM11	16:COM3	16:COM3	16:COM3
			-2.197	-0.310	-0.163	-0.116	-0.071	-0.459
			18:COM5	26:COM13	18:COM5	26:COM13	26:COM13	26:COM13
	5213	-ve	1.557	0.000	0.140	0.357	0.110	1.808
			16:COM3	-	24:COM11	16:COM3	24:COM11	24:COM11
			-1.431	-2.607	-0.163	-0.116	-0.117	-1.548
			26:COM13	18:COM5	18:COM5	26:COM13	18:COM5	18:COM5

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
12841	5227	+ve	1.726	2.445	0.154	0.151	0.083	0.277
			24:COM1	35:CVOL4	16:COM3	20:COM7	24:COM11	24:COM1
			-3.122	0.000	-0.139	-0.030	-0.093	-0.709
			18:COM5	-	26:COM1	30:COM1	18:COM5	18:COM5
	5212	-ve	2.118	0.000	0.154	0.151	0.106	0.073
			24:COM1	-	16:COM3	20:COM7	16:COM3	24:COM1
			-2.280	-1.734	-0.139	-0.030	-0.096	-0.841
			18:COM5	18:COM5	26:COM1	30:COM1	26:COM1	35:CVOL4
12842	5195	+ve	3.983	11.550	0.051	0.681	0.123	20.795
			28:COM1	34:CVOL3	24:COM11	16:COM3	16:COM3	16:COM3
			-5.219	0.000	-0.054	-0.060	-0.113	0.000
			22:COM9	-	18:COM5	26:COM1	26:COM1	-
	5278	-ve	3.983	0.858	0.051	0.681	0.096	0.999
			28:COM1	24:COM11	24:COM11	16:COM3	24:COM11	16:COM3
			-5.219	-3.006	-0.054	-0.060	-0.099	-0.551
			22:COM9	18:COM5	18:COM5	26:COM1	18:COM5	26:COM1
12846	5240	+ve	55.933	2.622	0.111	0.150	0.024	0.000
			16:COM3	16:COM3	16:COM3	24:COM1	24:COM11	-
			0.000	-0.752	-0.083	-0.169	-0.250	-23.814
			-	26:COM1	26:COM1	18:COM5	18:COM5	34:CVOL3
	5241	-ve	55.933	1.034	0.111	0.150	0.025	0.000
			16:COM3	24:COM11	16:COM3	24:COM1	24:COM11	-
			0.000	-2.082	-0.083	-0.169	-0.195	-24.443
			-	18:COM5	26:COM1	18:COM5	18:COM5	34:CVOL3
12847	5241	+ve	45.670	0.000	0.084	0.196	0.000	0.000
			16:COM3	-	16:COM3	16:COM3	-	-
			0.000	-4.774	-0.061	-0.162	-0.182	-24.458
			-	18:COM5	26:COM1	26:COM1	18:COM5	34:CVOL3
	5242	-ve	45.670	0.000	0.084	0.196	0.030	0.000
			16:COM3	-	16:COM3	16:COM3	24:COM11	-
			0.000	-6.794	-0.061	-0.162	-0.170	-14.961
			-	34:CVOL3	26:COM1	26:COM1	18:COM5	18:COM5
12848	5242	+ve	24.438	0.000	0.021	0.290	0.028	0.000
			16:COM3	-	28:COM1	35:CVOL4	24:COM11	-
			-6.254	-9.957	-0.037	-0.073	-0.053	-14.991
			26:COM1	34:CVOL3	22:COM9	30:COM1	18:COM5	18:COM5
	5243	-ve	24.438	0.000	0.021	0.290	0.001	12.481
			16:COM3	-	28:COM1	35:CVOL4	28:COM1	16:COM3
			-6.254	-12.562	-0.037	-0.073	-0.059	-2.633
			26:COM1	34:CVOL3	22:COM9	30:COM1	22:COM9	26:COM1
12849	5244	+ve	0.000	4.258	0.011	0.000	0.389	14.675
			-	24:COM11	28:COM1	-	20:COM7	34:CVOL3
			-25.094	-5.326	-0.229	-0.402	0.000	0.000
			34:CVOL3	18:COM5	22:COM9	18:COM5	-	-
	5519	-ve	0.000	2.980	0.011	0.000	0.111	24.560
			-	24:COM11	28:COM1	-	20:COM7	16:COM3
			-25.094	-7.031	-0.229	-0.402	-0.084	-0.201
			34:CVOL3	18:COM5	22:COM9	18:COM5	30:COM1	26:COM1

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
12851	5244	+ve	3.720	1.378	0.209	0.079	0.186	0.803
			20:COM7	34:CVOL3	24:COM11	24:COM11	16:COM3	34:CVOL3
			-0.924	0.000	-0.277	-0.211	-0.130	0.000
			30:COM17	-	18:COM5	18:COM5	26:COM13	-
	5231	-ve	4.562	0.000	0.209	0.079	0.139	2.103
			20:COM7	-	24:COM11	24:COM11	24:COM11	35:CVOL4
			-0.532	-3.057	-0.277	-0.211	-0.170	0.000
			30:COM17	35:CVOL4	18:COM5	18:COM5	18:COM5	-
12852	5519	+ve	11.512	1.590	5.314	13.923	0.491	0.308
			16:COM3	24:COM11	16:COM3	16:COM3	24:COM11	24:COM11
			-1.401	-12.332	0.000	0.000	-0.505	-0.665
			26:COM13	18:COM5	-	-	18:COM5	18:COM5
	5476	-ve	12.612	0.000	5.314	13.923	7.085	17.939
			16:COM3	-	16:COM3	16:COM3	16:COM3	16:COM3
			-0.816	-16.610	0.000	0.000	0.000	-0.282
			26:COM13	18:COM5	-	-	-	26:COM13
12853	5246	+ve	15.393	23.063	0.568	1.703	5.650	58.416
			34:CVOL3	34:CVOL3	28:COM15	16:COM3	20:COM7	34:CVOL3
			0.000	0.000	-2.677	-1.179	0.000	0.000
			-	-	22:COM9	26:COM13	-	-
	5247	-ve	15.393	20.787	0.568	1.703	1.694	15.158
			34:CVOL3	34:CVOL3	28:COM15	16:COM3	20:COM7	34:CVOL3
			0.000	0.000	-2.677	-1.179	-0.006	0.000
			-	-	22:COM9	26:COM13	30:COM17	-
12854	5247	+ve	7.893	9.247	0.000	0.004	1.875	15.609
			34:CVOL3	34:CVOL3	-	24:COM11	34:CVOL3	34:CVOL3
			0.000	0.000	-1.350	-1.797	0.000	0.000
			-	-	34:CVOL3	35:CVOL4	-	-
	5167	-ve	7.893	6.971	0.000	0.004	0.000	0.102
			34:CVOL3	34:CVOL3	-	24:COM11	-	35:CVOL4
			0.000	0.000	-1.350	-1.797	-0.869	-0.550
			-	-	34:CVOL3	35:CVOL4	18:COM5	32:CVOL1
12855	5248	+ve	25.322	21.307	4.522	0.000	1.929	35.175
			34:CVOL3	34:CVOL3	20:COM7	-	28:COM15	34:CVOL3
			0.000	0.000	-1.113	-11.955	-3.655	0.000
			-	-	30:COM17	34:CVOL3	22:COM9	-
	5168	-ve	25.322	18.659	4.522	0.000	4.148	1.027
			34:CVOL3	34:CVOL3	20:COM7	-	20:COM7	32:CVOL1
			0.000	0.000	-1.113	-11.955	-0.000	0.000
			-	-	30:COM17	34:CVOL3	30:COM17	-
12856	5246	+ve	1.291	9.836	0.006	0.243	0.041	8.393
			28:COM15	35:CVOL4	28:COM15	16:COM3	20:COM7	35:CVOL4
			-4.241	0.000	-0.013	0.000	-0.020	0.000
			22:COM9	-	22:COM9	-	30:COM17	-
	5248	-ve	3.349	0.000	0.006	0.243	0.019	8.881
			20:COM7	-	28:COM15	16:COM3	28:COM15	34:CVOL3
			-1.791	-9.985	-0.013	0.000	-0.041	0.000
			30:COM17	34:CVOL3	22:COM9	-	22:COM9	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
12857	5247	+ve	0.000	9.047	0.000	0.344	0.015	3.850
			-	35:CVOL4	-	34:CVOL3	34:CVOL3	35:CVOL4
			-9.678	0.000	-0.006	0.000	0.000	0.000
			34:CVOL3	-	34:CVOL3	-	-	-
	5168	-ve	0.000	0.000	0.000	0.344	0.000	9.368
			-	-	-	34:CVOL3	-	35:CVOL4
			-6.116	-10.905	-0.006	0.000	-0.022	0.000
			22:COM9	34:CVOL3	34:CVOL3	-	34:CVOL3	-
12858	5249	+ve	0.000	7.762	0.000	0.316	0.332	22.632
			-	34:CVOL3	-	16:COM3	34:CVOL3	34:CVOL3
			-15.862	0.000	-0.143	0.000	0.000	0.000
			34:CVOL3	-	18:COM5	-	-	-
	5250	-ve	0.000	6.065	0.000	0.316	0.063	8.755
			-	34:CVOL3	-	16:COM3	20:COM7	34:CVOL3
			-15.862	0.000	-0.143	0.000	0.000	0.000
			34:CVOL3	-	18:COM5	-	-	-
12859	5250	+ve	0.000	4.692	0.000	0.042	0.210	8.654
			-	34:CVOL3	-	32:CVOL1	34:CVOL3	34:CVOL3
			-3.261	0.000	-0.116	-0.036	0.000	0.000
			18:COM5	-	34:CVOL3	35:CVOL4	-	-
	5166	-ve	0.000	2.674	0.000	0.042	0.000	0.000
			-	34:CVOL3	-	32:CVOL1	-	-
			-3.261	0.000	-0.116	-0.036	-0.076	-0.163
			18:COM5	-	34:CVOL3	35:CVOL4	18:COM5	35:CVOL4
12860	5249	+ve	1.216	0.000	0.000	0.037	0.220	0.037
			28:COM15	-	-	24:COM17	20:COM7	24:COM17
			-1.211	-4.305	-0.356	-0.171	0.000	-0.447
			22:COM9	18:COM5	22:COM9	18:COM5	-	18:COM5
	5246	-ve	1.971	0.000	0.000	0.037	0.000	7.698
			20:COM7	-	-	24:COM17	-	34:CVOL3
			-0.733	-8.257	-0.356	-0.171	-0.236	0.000
			30:COM17	34:CVOL3	22:COM9	18:COM5	22:COM9	-
12861	5250	+ve	0.110	1.315	0.000	0.004	0.168	0.344
			28:COM15	34:CVOL3	-	24:COM17	34:CVOL3	34:CVOL3
			-0.933	-0.073	-0.250	-0.070	0.000	0.000
			22:COM9	26:COM13	34:CVOL3	34:CVOL3	-	-
	5247	-ve	0.627	0.000	0.000	0.004	0.000	1.539
			20:COM7	-	-	24:COM17	-	16:COM3
			-0.217	-2.769	-0.250	-0.070	-0.152	0.000
			30:COM17	35:CVOL4	34:CVOL3	34:CVOL3	34:CVOL3	-
12862	5248	+ve	4.922	9.608	0.060	0.601	0.000	10.593
			20:COM7	34:CVOL3	20:COM7	34:CVOL3	-	34:CVOL3
			-2.010	0.000	0.000	0.000	-0.145	0.000
			30:COM17	-	-	-	34:CVOL3	-
	5279	-ve	4.922	0.000	0.060	0.601	0.102	0.000
			20:COM7	-	20:COM7	34:CVOL3	20:COM7	-
			-2.010	-4.003	0.000	0.000	0.000	-1.700
			30:COM17	35:CVOL4	-	-	-	32:CVOL1

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
12863	5175	+ve	0.000	10.409	0.000	0.084	0.092	15.322
			-	34:CVOL3	-	16:COM3	16:COM3	34:CVOL3
			-13.544	0.000	-0.044	-0.019	0.000	0.000
			34:CVOL3	-	18:COM5	26:COM1	-	-
	5251	-ve	0.000	0.000	0.000	0.084	0.000	0.134
			-	-	-	16:COM3	-	35:CVOL4
			-13.544	-3.953	-0.044	-0.019	-0.090	-0.088
			34:CVOL3	35:CVOL4	18:COM5	26:COM1	18:COM5	32:CVOL1
12864	5176	+ve	0.000	10.221	0.000	0.082	0.191	14.783
			-	34:CVOL3	-	32:CVOL1	34:CVOL3	34:CVOL3
			-9.001	0.000	-0.090	-0.033	0.000	0.000
			18:COM5	-	34:CVOL3	35:CVOL4	-	-
	5252	-ve	0.000	0.000	0.000	0.082	0.000	0.256
			-	-	-	32:CVOL1	-	16:COM3
			-9.001	-3.936	-0.090	-0.033	-0.185	0.000
			18:COM5	35:CVOL4	34:CVOL3	35:CVOL4	34:CVOL3	-
12865	5177	+ve	7.961	10.025	0.000	0.047	0.227	15.124
			16:COM3	34:CVOL3	-	32:CVOL1	34:CVOL3	34:CVOL3
			-2.840	0.000	-0.104	-0.087	0.000	0.000
			26:COM1	-	34:CVOL3	35:CVOL4	-	-
	5253	-ve	7.961	0.000	0.000	0.047	0.000	1.338
			16:COM3	-	-	32:CVOL1	-	34:CVOL3
			-2.840	-3.819	-0.104	-0.087	-0.203	0.000
			26:COM1	35:CVOL4	34:CVOL3	35:CVOL4	34:CVOL3	-
12866	5254	+ve	0.905	13.531	0.003	0.324	0.242	34.547
			24:COM1	16:COM3	24:COM1	24:COM1	16:COM3	16:COM3
			-26.861	0.000	-0.107	-1.051	-0.079	0.000
			18:COM5	-	18:COM5	18:COM5	26:COM1	-
	5276	-ve	0.905	11.865	0.003	0.324	0.051	11.011
			24:COM1	16:COM3	24:COM1	24:COM1	24:COM1	34:CVOL3
			-26.861	-0.388	-0.107	-1.051	-0.094	0.000
			18:COM5	26:COM1	18:COM5	18:COM5	18:COM5	-
12867	5141	+ve	30.580	40.465	0.084	23.316	1.194	81.442
			16:COM3	34:CVOL3	24:COM1	16:COM3	16:COM3	34:CVOL3
			-7.901	0.000	-1.283	-11.980	-0.008	0.000
			26:COM1	-	18:COM5	26:COM1	26:COM1	-
	5254	-ve	30.580	31.092	0.084	23.316	0.189	0.225
			16:COM3	34:CVOL3	24:COM1	16:COM3	24:COM1	24:COM1
			-7.901	0.000	-1.283	-11.980	-1.787	-2.220
			26:COM1	-	18:COM5	26:COM1	18:COM5	18:COM5
12868	5234	+ve	28.782	11.178	0.172	0.272	0.000	7.905
			16:COM3	34:CVOL3	16:COM3	32:CVOL1	-	16:COM3
			-9.878	0.000	0.000	-0.073	-0.187	-5.553
			26:COM1	-	-	35:CVOL4	18:COM5	26:COM1
	5233	-ve	28.782	8.569	0.172	0.272	0.153	0.000
			16:COM3	34:CVOL3	16:COM3	32:CVOL1	16:COM3	-
			-9.878	0.000	0.000	-0.073	-0.041	-18.226
			26:COM1	-	-	35:CVOL4	26:COM1	18:COM5

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
12869	5233	+ve	47.075	5.881	0.051	0.121	0.020	0.000
			16:COM3	34:CVOL3	16:COM3	24:COM11	24:COM11	-
			0.000	0.000	-0.055	-0.205	-0.177	-18.184
			-	-	26:COM13	18:COM5	18:COM5	18:COM5
	5232	-ve	47.075	4.018	0.051	0.121	0.000	0.000
			16:COM3	16:COM3	16:COM3	24:COM11	-	-
			0.000	0.000	-0.055	-0.205	-0.142	-26.778
			-	-	26:COM13	18:COM5	18:COM5	34:CVOL3
12870	5232	+ve	49.775	1.550	0.051	0.056	0.023	0.000
			16:COM3	24:COM11	24:COM11	24:COM11	24:COM11	-
			0.000	-0.995	-0.090	-0.232	-0.180	-26.789
			-	18:COM5	18:COM5	18:COM5	18:COM5	34:CVOL3
	5251	-ve	49.775	0.274	0.051	0.056	0.000	0.000
			16:COM3	24:COM11	24:COM11	24:COM11	-	-
			0.000	-2.697	-0.090	-0.232	-0.213	-25.088
			-	18:COM5	18:COM5	18:COM5	18:COM5	34:CVOL3
12871	5251	+ve	34.775	0.000	0.039	0.054	0.005	0.000
			16:COM3	-	24:COM11	24:COM11	24:COM11	-
			0.000	-5.317	-0.070	-0.198	-0.124	-25.154
			-	18:COM5	18:COM5	32:CVOL1	18:COM5	34:CVOL3
	5252	-ve	34.775	0.000	0.039	0.054	0.000	0.000
			16:COM3	-	24:COM11	24:COM11	-	-
			0.000	-7.821	-0.070	-0.198	-0.175	-12.279
			-	34:CVOL3	18:COM5	32:CVOL1	18:COM5	34:CVOL3
12872	5252	+ve	7.400	0.000	0.032	0.265	0.047	0.000
			16:COM3	-	28:COM15	35:CVOL4	16:COM3	-
			-6.059	-11.028	-0.037	-0.084	-0.046	-12.338
			26:COM13	34:CVOL3	22:COM9	32:CVOL1	26:COM13	34:CVOL3
	5253	-ve	7.400	0.000	0.032	0.265	0.025	13.445
			16:COM3	-	28:COM15	35:CVOL4	28:COM15	16:COM3
			-6.059	-13.637	-0.037	-0.084	-0.031	0.000
			26:COM13	34:CVOL3	22:COM9	32:CVOL1	22:COM9	-
12873	5253	+ve	0.000	0.000	0.281	1.401	0.073	13.443
			-	-	16:COM3	20:COM7	24:COM11	16:COM3
			-33.385	-17.020	0.000	0.000	-0.124	0.000
			18:COM5	34:CVOL3	-	-	18:COM5	-
	5170	-ve	0.000	0.000	0.281	1.401	0.431	48.239
			-	-	16:COM3	20:COM7	16:COM3	34:CVOL3
			-33.385	-19.630	0.000	0.000	0.000	0.000
			18:COM5	34:CVOL3	-	-	-	-
12874	5228	+ve	29.323	5.886	0.000	0.081	0.021	0.000
			16:COM3	20:COM7	-	24:COM11	24:COM11	-
			-29.134	0.000	-0.066	-0.530	-0.166	-7.315
			26:COM13	-	22:COM9	18:COM5	18:COM5	22:COM9
	5227	-ve	29.323	4.220	0.000	0.081	0.000	0.000
			16:COM3	20:COM7	-	24:COM11	-	-
			-29.134	-0.019	-0.066	-0.530	-0.261	-15.341
			26:COM13	30:COM17	22:COM9	18:COM5	18:COM5	35:CVOL4

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
12875	5227	+ve	26.478	1.936	0.047	0.269	0.000	0.000
			16:COM3	20:COM7	16:COM3	28:COM1	-	-
			-25.123	-0.285	-0.027	-0.288	-0.229	-15.241
			26:COM1	30:COM1	26:COM1	22:COM9	35:CVOL4	35:CVOL4
	5237	-ve	26.478	0.378	0.047	0.269	0.000	0.000
			16:COM3	28:COM1	16:COM3	28:COM1	-	-
			-25.123	-1.643	-0.027	-0.288	-0.248	-16.367
			26:COM1	22:COM9	26:COM1	22:COM9	18:COM5	22:COM9
12876	5237	+ve	16.403	0.000	0.114	0.709	0.000	0.000
			24:COM1	-	16:COM3	16:COM3	-	-
			-19.104	-2.946	0.000	-0.291	-0.268	-16.257
			18:COM5	35:CVOL4	-	26:COM1	22:COM9	22:COM9
	5238	-ve	16.403	0.000	0.114	0.709	0.029	0.000
			24:COM1	-	16:COM3	16:COM3	24:COM11	-
			-19.104	-4.612	0.000	-0.291	-0.140	-10.423
			18:COM5	35:CVOL4	-	26:COM1	18:COM5	22:COM9
12877	5238	+ve	4.150	0.000	0.136	0.827	0.000	0.000
			28:COM1	-	16:COM3	16:COM3	-	-
			-15.712	-6.421	0.000	-0.321	-0.182	-10.427
			22:COM9	35:CVOL4	-	26:COM1	22:COM9	22:COM9
	5239	-ve	4.150	0.000	0.136	0.827	0.147	8.752
			28:COM1	-	16:COM3	16:COM3	20:COM7	20:COM7
			-15.712	-8.087	0.000	-0.321	0.000	-0.456
			22:COM9	35:CVOL4	-	26:COM1	-	30:COM1
12878	5239	+ve	0.000	0.000	0.234	0.779	0.229	8.588
			-	-	16:COM3	16:COM3	16:COM3	20:COM7
			-24.756	-7.472	-0.140	-0.365	-0.103	-0.482
			18:COM5	34:CVOL3	26:COM1	26:COM1	26:COM1	30:COM1
	5165	-ve	0.000	0.000	0.234	0.779	0.409	23.412
			-	-	16:COM3	16:COM3	16:COM3	16:COM3
			-24.756	-9.140	-0.140	-0.365	-0.098	0.000
			18:COM5	34:CVOL3	26:COM1	26:COM1	26:COM1	-
12879	5264	+ve	0.177	1.271	0.228	0.000	0.000	0.033
			28:COM1	34:CVOL3	16:COM3	-	-	28:COM1
			-1.409	0.000	0.000	-0.116	-0.145	-0.032
			22:COM9	-	-	35:CVOL4	18:COM5	22:COM9
	5265	-ve	0.379	0.051	0.228	0.000	0.165	0.178
			28:COM1	35:CVOL4	16:COM3	-	16:COM3	28:COM1
			-1.138	-0.970	0.000	-0.116	0.000	-0.551
			22:COM9	32:CVOL1	-	35:CVOL4	-	34:CVOL3
12880	5264	+ve	0.000	0.000	0.077	0.071	0.008	0.000
			-	-	16:COM3	20:COM7	24:COM11	-
			-1.954	-1.275	0.000	-0.023	-0.057	-0.094
			18:COM5	34:CVOL3	-	30:COM1	18:COM5	35:CVOL4
	5268	-ve	0.000	0.000	0.077	0.071	0.119	4.992
			-	-	16:COM3	20:COM7	16:COM3	34:CVOL3
			-1.954	-3.260	0.000	-0.023	0.000	0.000
			18:COM5	32:CVOL1	-	30:COM1	-	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
12881	5265	+ve	0.000	3.291	0.032	0.000	0.012	0.099
			-	32:CVOL1	16:COM3	-	24:COM11	28:COM1!
			-5.729	0.000	-0.003	-0.305	-0.071	-1.643
			22:COM9	-	26:COM1:	18:COM5	18:COM5	35:CVOL4
	5282	-ve	0.380	0.000	0.032	0.000	0.061	0.630
			28:COM1!	-	16:COM3	-	16:COM3	28:COM1!
			-5.163	-2.873	-0.003	-0.305	-0.001	-3.187
			22:COM9	32:CVOL1	26:COM1:	18:COM5	26:COM1:	22:COM9
12882	5265	+ve	4.450	0.000	1.237	1.140	0.275	0.512
			20:COM7	-	16:COM3	35:CVOL4	24:COM11	35:CVOL4
			0.000	-3.936	-0.051	-0.135	-0.921	-0.129
			-	32:CVOL1	26:COM1:	30:COM1'	18:COM5	30:COM1'
	5266	-ve	4.450	0.000	1.237	1.140	1.361	9.451
			20:COM7	-	16:COM3	35:CVOL4	16:COM3	32:CVOL1
			0.000	-6.416	-0.051	-0.135	0.000	0.000
			-	32:CVOL1	26:COM1:	30:COM1'	-	-
12883	5267	+ve	23.560	0.000	2.806	1.326	2.893	34.597
			16:COM3	-	16:COM3	28:COM1!	32:CVOL1	34:CVOL3
			0.000	-30.722	0.000	-4.529	0.000	0.000
			-	34:CVOL3	-	22:COM9	-	-
	5150	-ve	23.560	0.000	2.806	1.326	6.700	93.173
			16:COM3	-	16:COM3	28:COM1!	16:COM3	34:CVOL3
			0.000	-32.848	0.000	-4.529	0.000	0.000
			-	34:CVOL3	-	22:COM9	-	-
12884	5268	+ve	0.000	0.000	0.118	0.032	0.036	5.045
			-	-	20:COM7	28:COM1!	16:COM3	34:CVOL3
			-10.274	-5.528	0.000	-0.269	0.000	0.000
			18:COM5	34:CVOL3	-	22:COM9	-	-
	5269	-ve	0.000	0.000	0.118	0.032	0.245	16.655
			-	-	20:COM7	28:COM1!	34:CVOL3	34:CVOL3
			-10.274	-7.084	0.000	-0.269	0.000	0.000
			18:COM5	34:CVOL3	-	22:COM9	-	-
12885	5269	+ve	0.000	0.000	0.098	0.033	0.309	16.807
			-	-	24:COM11	28:COM1!	16:COM3	34:CVOL3
			-23.797	-5.799	-0.130	-0.470	0.000	0.000
			18:COM5	18:COM5	18:COM5	22:COM9	-	-
	5162	-ve	0.000	0.000	0.098	0.033	0.276	28.558
			-	-	24:COM11	28:COM1!	16:COM3	34:CVOL3
			-23.797	-7.356	-0.130	-0.470	0.000	0.000
			18:COM5	18:COM5	18:COM5	22:COM9	-	-
12886	5268	+ve	0.109	2.272	0.175	0.044	0.000	0.267
			24:COM1'	34:CVOL3	16:COM3	20:COM7	-	20:COM7
			-1.470	0.000	0.000	-0.023	-0.116	0.000
			18:COM5	-	-	30:COM1'	18:COM5	-
	5266	-ve	0.505	0.000	0.175	0.044	0.110	0.471
			16:COM3	-	16:COM3	20:COM7	16:COM3	24:COM1'
			-0.633	-1.783	0.000	-0.023	0.000	-0.294
			26:COM1:	35:CVOL4	-	30:COM1'	-	18:COM5

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
12887	5269	+ve	0.714	0.129	0.236	0.183	0.000	0.262
			28:COM15	24:COM11	16:COM3	20:COM7	-	16:COM3
			-0.803	-2.239	0.000	-0.008	-0.150	-0.062
			22:COM9	18:COM5	-	30:COM17	18:COM5	26:COM13
	5267	-ve	1.530	0.000	0.236	0.183	0.157	5.060
			20:COM7	-	16:COM3	20:COM7	20:COM7	16:COM3
			-0.386	-5.528	0.000	-0.008	0.000	0.000
			30:COM17	18:COM5	-	30:COM17	-	-
12888	5266	+ve	10.894	0.000	2.002	1.006	0.898	9.482
			16:COM3	-	16:COM3	28:COM15	16:COM3	32:CVOL1
			0.000	-13.499	-0.084	-0.937	-0.272	0.000
			-	34:CVOL3	26:COM13	22:COM9	26:COM13	-
	5267	-ve	10.894	0.000	2.002	1.006	3.456	34.917
			16:COM3	-	16:COM3	28:COM15	16:COM3	34:CVOL3
			0.000	-15.625	-0.084	-0.937	0.000	0.000
			-	34:CVOL3	26:COM13	22:COM9	-	-
12889	5255	+ve	25.014	27.619	0.802	0.000	1.872	46.226
			34:CVOL3	34:CVOL3	24:COM11	-	16:COM3	34:CVOL3
			0.000	0.000	-0.949	-27.188	-0.795	0.000
			-	-	18:COM5	18:COM5	26:COM13	-
	5169	-ve	25.014	18.136	0.802	0.000	1.344	0.000
			34:CVOL3	34:CVOL3	24:COM11	-	16:COM3	-
			0.000	0.000	-0.949	-27.188	-0.611	-7.508
			-	-	18:COM5	18:COM5	26:COM13	34:CVOL3
12890	5490	+ve	24.688	0.000	0.426	11.389	1.137	0.000
			16:COM3	-	16:COM3	16:COM3	16:COM3	-
			-9.970	-18.457	-0.423	-3.084	0.000	-11.388
			26:COM13	34:CVOL3	26:COM13	26:COM13	-	18:COM5
	5564	-ve	24.688	0.000	0.426	11.389	1.544	28.689
			16:COM3	-	16:COM3	16:COM3	16:COM3	34:CVOL3
			-9.970	-25.724	-0.423	-3.084	-0.312	0.000
			26:COM13	34:CVOL3	26:COM13	26:COM13	26:COM13	-
12891	5279	+ve	6.565	1.505	0.792	0.000	0.000	2.968
			20:COM7	32:CVOL1	28:COM15	-	-	34:CVOL3
			-1.929	-1.158	-1.348	-3.929	-0.258	0.000
			30:COM17	35:CVOL4	22:COM9	34:CVOL3	34:CVOL3	-
	5271	-ve	6.565	1.182	0.792	0.000	0.096	2.885
			20:COM7	32:CVOL1	28:COM15	-	28:COM15	34:CVOL3
			-1.929	-1.236	-1.348	-3.929	-0.512	0.000
			30:COM17	35:CVOL4	22:COM9	34:CVOL3	22:COM9	-
12893	5278	+ve	0.000	0.000	0.068	0.431	0.042	2.733
			-	-	20:COM7	24:COM17	24:COM11	16:COM3
			-22.076	-7.575	0.000	-1.211	-0.081	0.000
			34:CVOL3	34:CVOL3	-	18:COM5	18:COM5	-
	5563	-ve	0.000	0.000	0.068	0.431	0.124	20.674
			-	-	20:COM7	24:COM17	16:COM3	34:CVOL3
			-22.076	-10.238	0.000	-1.211	-0.020	0.000
			34:CVOL3	34:CVOL3	-	18:COM5	26:COM13	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
12894	5272	+ve	0.312	0.165	0.031	0.000	0.056	0.000
			24:COM1	24:COM11	16:COM3	-	16:COM3	-
			-23.098	-1.743	-0.019	-1.071	-0.044	-9.179
			18:COM5	35:CVOL4	26:COM1	34:CVOL3	26:COM1	34:CVOL3
	5278	-ve	0.312	0.000	0.031	0.000	0.132	3.242
			24:COM1	-	16:COM3	-	16:COM3	34:CVOL3
			-23.098	-5.824	-0.019	-1.071	-0.076	0.000
			18:COM5	34:CVOL3	26:COM1	34:CVOL3	26:COM1	-
12895	5273	+ve	3.992	1.542	0.079	0.216	0.119	0.000
			28:COM1	24:COM11	24:COM11	24:COM1	16:COM3	-
			-23.905	-0.463	-0.101	-0.798	-0.099	-9.907
			22:COM9	18:COM5	18:COM5	18:COM5	26:COM1	34:CVOL3
	5272	-ve	3.992	0.247	0.079	0.216	0.067	0.000
			28:COM1	24:COM11	24:COM11	24:COM1	24:COM11	-
			-23.905	-2.189	-0.101	-0.798	-0.092	-8.948
			22:COM9	18:COM5	18:COM5	18:COM5	18:COM5	34:CVOL3
12896	5274	+ve	11.778	2.757	0.126	0.540	0.137	1.510
			28:COM1	16:COM3	24:COM11	24:COM1	16:COM3	24:COM1
			-31.518	-0.483	-0.148	-0.518	-0.097	-10.934
			22:COM9	26:COM1	18:COM5	18:COM5	26:COM1	18:COM5
	5273	-ve	11.778	1.098	0.126	0.540	0.153	0.000
			28:COM1	24:COM11	24:COM11	24:COM1	24:COM11	-
			-31.518	-1.745	-0.148	-0.518	-0.155	-9.850
			22:COM9	18:COM5	18:COM5	18:COM5	18:COM5	34:CVOL3
12897	5277	+ve	19.295	3.207	0.086	1.072	0.112	5.155
			28:COM1	16:COM3	24:COM11	16:COM3	16:COM3	24:COM1
			-41.062	0.000	-0.146	-0.551	-0.024	-10.896
			22:COM9	-	18:COM5	26:COM1	26:COM1	18:COM5
	5274	-ve	19.295	1.539	0.086	1.072	0.163	1.650
			28:COM1	16:COM3	24:COM11	16:COM3	24:COM11	24:COM1
			-41.062	-1.068	-0.146	-0.551	-0.193	-11.203
			22:COM9	26:COM1	18:COM5	26:COM1	18:COM5	18:COM5
12898	5275	+ve	18.541	4.307	0.075	1.073	0.425	6.258
			24:COM1	34:CVOL3	24:COM11	16:COM3	16:COM3	16:COM3
			-40.523	0.000	-0.235	0.000	-0.213	-5.634
			18:COM5	-	18:COM5	-	26:COM1	26:COM1
	5277	-ve	18.541	2.078	0.075	1.073	0.050	5.286
			24:COM1	16:COM3	24:COM11	16:COM3	28:COM1	24:COM1
			-40.523	-0.164	-0.235	0.000	-0.153	-11.318
			18:COM5	26:COM1	18:COM5	-	22:COM9	18:COM5
12899	5276	+ve	8.328	8.674	0.222	1.740	0.406	11.324
			28:COM1	16:COM3	24:COM11	16:COM3	16:COM3	34:CVOL3
			-32.496	-0.566	-0.398	-0.385	-0.239	0.000
			22:COM9	26:COM1	18:COM5	26:COM1	26:COM1	-
	5275	-ve	8.328	7.042	0.222	1.740	0.190	5.836
			28:COM1	16:COM3	24:COM11	16:COM3	24:COM11	24:COM1
			-32.496	-1.791	-0.398	-0.385	-0.362	-5.728
			22:COM9	26:COM1	18:COM5	26:COM1	18:COM5	18:COM5

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
12901	5281	+ve	0.487	1.790	0.000	0.000	0.383	12.421
			24:COM1	32:CVOL1	-	-	16:COM3	34:CVOL3
			-38.280	-0.365	-0.316	-0.764	0.000	0.000
			18:COM5	35:CVOL4	18:COM5	34:CVOL3	-	-
	5283	-ve	0.487	0.168	0.000	0.000	0.025	12.358
			24:COM1	24:COM11	-	-	24:COM11	34:CVOL3
			-38.280	-1.071	-0.316	-0.764	-0.063	0.000
			18:COM5	18:COM5	18:COM5	34:CVOL3	18:COM5	-
12902	5282	+ve	3.517	0.000	0.172	0.000	0.000	0.390
			24:COM1	-	16:COM3	-	-	28:COM15
			-17.963	-7.439	0.000	-1.227	-0.187	-4.982
			18:COM5	34:CVOL3	-	22:COM9	18:COM5	22:COM9
	5281	-ve	3.834	0.000	0.172	0.000	0.294	20.792
			24:COM1	-	16:COM3	-	16:COM3	34:CVOL3
			-17.540	-10.961	0.000	-1.227	0.000	0.000
			18:COM5	34:CVOL3	-	22:COM9	-	-
12903	5283	+ve	3.314	3.584	0.000	0.000	0.170	12.507
			24:COM1	20:COM7	-	-	16:COM3	20:COM7
			-31.230	0.000	-0.049	-1.284	0.000	0.000
			18:COM5	-	18:COM5	34:CVOL3	-	-
	5171	-ve	3.314	0.808	0.000	0.000	0.017	9.160
			24:COM1	20:COM7	-	-	20:COM7	34:CVOL3
			-31.230	-1.838	-0.049	-1.284	-0.009	0.000
			18:COM5	30:COM17	18:COM5	34:CVOL3	30:COM17	-
12904	5266	+ve	0.766	6.628	0.015	0.007	0.007	1.362
			24:COM1	34:CVOL3	16:COM3	24:COM1	24:COM11	20:COM7
			-5.054	0.000	-0.002	-0.066	-0.023	-0.289
			18:COM5	-	26:COM13	18:COM5	18:COM5	30:COM17
	5282	-ve	1.585	0.000	0.015	0.007	0.033	0.000
			24:COM1	-	16:COM3	24:COM1	16:COM3	-
			-3.292	-5.373	-0.002	-0.066	0.000	-2.110
			18:COM5	35:CVOL4	26:COM13	18:COM5	-	22:COM9
12905	5267	+ve	1.577	9.643	0.007	0.000	0.000	8.408
			24:COM1	35:CVOL4	16:COM3	-	24:COM11	20:COM7
			-7.562	0.000	-0.001	-0.206	-0.018	0.000
			18:COM5	-	26:COM13	18:COM5	18:COM5	-
	5284	-ve	3.007	0.000	0.007	0.000	0.028	11.403
			24:COM1	-	16:COM3	-	16:COM3	20:COM7
			-4.485	-10.202	-0.001	-0.206	-0.004	-0.114
			18:COM5	34:CVOL3	26:COM13	18:COM5	26:COM13	30:COM17
12906	5281	+ve	8.634	0.000	0.201	7.323	2.241	3.974
			34:CVOL3	-	28:COM15	34:CVOL3	16:COM3	34:CVOL3
			0.000	-8.379	-10.556	0.000	0.000	0.000
			-	18:COM5	22:COM9	-	-	-
	5284	-ve	8.634	0.000	0.201	7.323	0.518	9.251
			34:CVOL3	-	28:COM15	34:CVOL3	28:COM15	32:CVOL1
			0.000	-9.344	-10.556	0.000	-4.408	0.000
			-	18:COM5	22:COM9	-	22:COM9	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
12907	5284	+ve	2.253	8.041	0.000	0.000	0.349	8.019
			24:COM1	34:CVOL3	-	-	16:COM3	20:COM7
			-13.962	0.000	-0.423	-0.529	0.000	0.000
			18:COM5	-	18:COM5	34:CVOL3	-	-
	5283	-ve	2.253	4.292	0.000	0.000	0.008	0.619
			24:COM1	20:COM7	-	-	24:COM11	28:COM15
			-13.962	0.000	-0.423	-0.529	-0.181	-0.629
			18:COM5	-	18:COM5	34:CVOL3	18:COM5	22:COM9
12908	5284	+ve	25.956	0.000	0.178	9.338	3.683	7.511
			16:COM3	-	28:COM15	34:CVOL3	34:CVOL3	32:CVOL1
			0.000	-23.930	-2.002	0.000	0.000	0.000
			-	18:COM5	22:COM9	-	-	-
	5149	-ve	25.956	0.000	0.178	9.338	1.474	52.778
			16:COM3	-	28:COM15	34:CVOL3	20:COM7	16:COM3
			0.000	-26.693	-2.002	0.000	-0.329	0.000
			-	18:COM5	22:COM9	-	30:COM1	-
13143	2022	+ve	335.166	43.434	116.302	3.634	284.933	69.039
			20:COM7	16:COM3	28:COM15	20:COM7	20:COM7	16:COM3
			-199.006	-34.108	-134.290	-3.302	-249.799	-56.763
			30:COM1	26:COM1	22:COM9	30:COM1	30:COM1	26:COM1
	2414	-ve	323.658	43.434	116.302	3.634	238.681	86.612
			20:COM7	16:COM3	28:COM15	20:COM7	28:COM15	24:COM1
			-207.637	-34.108	-134.290	-3.302	-279.096	-113.505
			30:COM1	26:COM1	22:COM9	30:COM1	22:COM9	18:COM5
13144	128	+ve	167.801	12.636	15.546	0.327	68.013	24.363
			34:CVOL3	24:COM11	28:COM15	16:COM3	20:COM7	24:COM1
			0.000	-19.801	-37.677	-0.260	-28.965	-39.713
			-	18:COM5	22:COM9	26:COM1	30:COM1	18:COM5
	209	-ve	163.363	12.636	15.546	0.327	33.227	39.547
			34:CVOL3	24:COM11	28:COM15	16:COM3	28:COM15	16:COM3
			0.000	-19.801	-37.677	-0.260	-82.702	-26.241
			-	18:COM5	22:COM9	26:COM1	22:COM9	26:COM1
13145	130	+ve	247.174	7.845	39.972	0.214	16.463	19.433
			34:CVOL3	24:COM11	20:COM7	28:COM15	28:COM15	24:COM1
			0.000	-17.715	-9.554	-0.203	-75.790	-31.760
			-	18:COM5	30:COM1	22:COM9	22:COM9	18:COM5
	210	-ve	242.736	7.845	39.972	0.214	84.106	39.103
			34:CVOL3	24:COM11	20:COM7	28:COM15	20:COM7	16:COM3
			0.000	-17.715	-9.554	-0.203	-21.762	-11.950
			-	18:COM5	30:COM1	22:COM9	30:COM1	26:COM1
13146	132	+ve	165.633	20.762	30.173	0.316	37.260	34.287
			34:CVOL3	16:COM3	20:COM7	16:COM3	28:COM15	16:COM3
			0.000	-10.275	-20.135	-0.256	-55.731	-23.512
			-	26:COM1	30:COM1	26:COM1	22:COM9	26:COM1
	211	-ve	161.195	20.762	30.173	0.316	64.970	17.596
			34:CVOL3	16:COM3	20:COM7	16:COM3	20:COM7	24:COM1
			0.000	-10.275	-20.135	-0.256	-43.288	-48.766
			-	26:COM1	30:COM1	26:COM1	30:COM1	18:COM5

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
13173	2397	+ve	556.357	45.489	16.830	1.664	28.453	68.330
			34:CVOL3	24:COM11	28:COM15	16:COM3	16:COM3	24:COM1
			0.000	-61.734	-12.810	-1.073	-33.803	-87.264
			-	18:COM5	22:COM9	26:COM13	26:COM13	18:COM5
	5312	-ve	548.654	45.489	16.830	1.664	37.388	172.084
			34:CVOL3	24:COM11	28:COM15	16:COM3	28:COM15	16:COM3
			0.000	-61.734	-12.810	-1.073	-25.853	-122.789
			-	18:COM5	22:COM9	26:COM13	22:COM9	26:COM13
13174	5312	+ve	435.356	42.175	17.017	1.492	29.465	117.380
			20:COM7	24:COM11	28:COM15	24:COM1	20:COM7	24:COM1
			0.000	-58.477	-14.998	-1.361	-42.213	-166.377
			-	18:COM5	22:COM9	18:COM5	30:COM17	18:COM5
	3572	-ve	427.653	42.181	17.012	1.492	29.412	79.269
			20:COM7	24:COM11	28:COM15	24:COM1	28:COM15	16:COM3
			0.000	-58.468	-15.004	-1.361	-33.704	-59.828
			-	18:COM5	22:COM9	18:COM5	22:COM9	26:COM13
13175	3572	+ve	368.926	41.687	24.472	1.979	27.075	56.601
			34:CVOL3	24:COM11	20:COM7	16:COM3	28:COM15	28:COM15
			0.000	-55.371	-9.692	-1.625	-39.056	-77.049
			-	18:COM5	30:COM17	26:COM13	22:COM9	22:COM9
	5322	-ve	361.222	41.687	24.472	1.979	63.835	156.816
			34:CVOL3	24:COM11	20:COM7	16:COM3	20:COM7	16:COM3
			0.000	-55.371	-9.692	-1.625	-13.742	-119.791
			-	18:COM5	30:COM17	26:COM13	30:COM17	26:COM13
13176	5322	+ve	269.574	40.682	15.219	1.654	11.877	116.892
			20:COM7	24:COM11	20:COM7	24:COM1	28:COM15	24:COM1
			0.000	-58.475	-10.347	-1.495	-51.278	-160.033
			-	18:COM5	30:COM17	18:COM5	22:COM9	18:COM5
	4288	-ve	261.871	40.682	15.219	1.654	18.242	85.645
			20:COM7	24:COM11	20:COM7	24:COM1	28:COM15	16:COM3
			0.000	-58.475	-10.347	-1.495	-37.180	-54.056
			-	18:COM5	30:COM17	18:COM5	22:COM9	26:COM13
13177	4288	+ve	197.130	41.042	31.857	3.385	56.954	53.579
			34:CVOL3	24:COM11	20:COM7	28:COM15	20:COM7	28:COM15
			0.000	-59.236	-22.000	-3.821	-49.352	-87.603
			-	18:COM5	30:COM17	22:COM9	30:COM17	22:COM9
	5331	-ve	189.426	41.042	31.857	3.385	85.489	162.473
			34:CVOL3	24:COM11	20:COM7	28:COM15	20:COM7	16:COM3
			0.000	-59.236	-22.000	-3.821	-36.488	-120.080
			-	18:COM5	30:COM17	22:COM9	30:COM17	26:COM13
13178	5331	+ve	76.663	37.051	14.127	3.892	4.535	96.008
			16:COM3	24:COM11	16:COM3	20:COM7	28:COM15	24:COM1
			0.000	-66.978	-8.775	-2.754	-40.219	-166.114
			-	18:COM5	26:COM13	30:COM17	22:COM9	18:COM5
	4916	-ve	68.960	37.051	14.127	3.892	31.646	115.227
			16:COM3	24:COM11	16:COM3	20:COM7	24:COM11	16:COM3
			-2.375	-66.978	-8.775	-2.754	-44.851	-59.641
			26:COM13	18:COM5	26:COM13	30:COM17	18:COM5	26:COM13

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
13179	3140	+ve	14.222	9.363	1.537	6.501	0.516	11.362
			20:COM7	16:COM3	20:COM7	32:CVOL1	28:COM15	24:COM1
			-6.088	-6.077	-0.492	0.000	-1.450	-22.932
			30:COM1	26:COM1	30:COM1	-	22:COM9	18:COM5
	5313	-ve	14.222	5.744	1.537	6.501	1.797	0.000
			20:COM7	24:COM1	20:COM7	32:CVOL1	20:COM7	-
			-6.088	-10.032	-0.492	0.000	-0.529	-8.701
			30:COM1	18:COM5	30:COM1	-	30:COM1	22:COM9
13180	2953	+ve	18.121	15.536	0.829	0.000	0.533	26.270
			20:COM7	28:COM15	20:COM7	-	28:COM15	28:COM15
			-8.057	-36.575	-0.437	-12.332	-0.999	-58.975
			30:COM1	22:COM9	30:COM1	22:COM9	22:COM9	22:COM9
	5312	-ve	18.121	13.589	0.829	0.000	0.639	88.965
			20:COM7	28:COM15	20:COM7	-	16:COM3	20:COM7
			-8.057	-39.171	-0.437	-12.332	-0.371	-77.943
			30:COM1	22:COM9	30:COM1	22:COM9	26:COM1	30:COM1
13181	5312	+ve	18.950	44.413	0.437	2.893	1.190	109.775
			20:COM7	16:COM3	28:COM15	24:COM1	20:COM7	16:COM3
			-5.989	-8.439	-1.042	-8.541	-0.577	-63.005
			30:COM1	26:COM1	22:COM9	18:COM5	30:COM1	26:COM1
	5321	-ve	18.950	41.725	0.437	2.893	0.320	30.619
			20:COM7	16:COM3	28:COM15	24:COM1	28:COM15	24:COM1
			-5.989	-10.455	-1.042	-8.541	-0.882	-49.157
			30:COM1	26:COM1	22:COM9	18:COM5	22:COM9	18:COM5
13183	5313	+ve	13.545	2.161	0.055	9.059	0.194	0.000
			20:COM7	24:COM1	28:COM15	20:COM7	16:COM3	-
			-1.341	-10.315	-0.100	0.000	-0.141	-12.292
			30:COM1	18:COM5	22:COM9	-	26:COM1	22:COM9
	5312	-ve	13.545	0.000	0.055	9.059	0.148	54.398
			20:COM7	-	28:COM15	20:COM7	28:COM15	16:COM3
			-1.341	-19.255	-0.100	0.000	-0.286	-0.050
			30:COM1	18:COM5	22:COM9	-	22:COM9	26:COM1
13184	5314	+ve	9.535	8.761	0.091	0.000	0.110	7.847
			20:COM7	24:COM1	28:COM15	-	20:COM7	24:COM1
			-2.993	-19.787	-0.099	-1.596	-0.082	-23.099
			30:COM1	18:COM5	22:COM9	18:COM5	30:COM1	18:COM5
	3179	-ve	9.535	8.182	0.091	0.000	0.072	11.048
			20:COM7	24:COM1	28:COM15	-	20:COM7	20:COM7
			-2.993	-20.559	-0.099	-1.596	-0.059	-6.722
			30:COM1	18:COM5	22:COM9	18:COM5	30:COM1	30:COM1
13185	5312	+ve	6.531	22.008	0.069	19.772	0.091	83.218
			20:COM7	16:COM3	20:COM7	16:COM3	28:COM15	16:COM3
			-3.094	0.000	-0.050	-3.982	-0.131	-14.316
			30:COM1	-	30:COM1	26:COM1	22:COM9	26:COM1
	5314	-ve	6.531	16.708	0.069	19.772	0.214	0.000
			20:COM7	16:COM3	20:COM7	16:COM3	20:COM7	-
			-3.094	-2.438	-0.050	-3.982	-0.166	-17.688
			30:COM1	26:COM1	30:COM1	26:COM1	30:COM1	18:COM5

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
13186	5315	+ve	10.059	5.675	0.057	1.663	0.037	0.000
			20:COM7	16:COM3	16:COM3	16:COM3	28:COM15	-
			-5.109	0.000	-0.053	-0.224	-0.045	-17.451
			30:COM17	-	26:COM13	26:COM13	22:COM9	34:CVOL3
	5316	-ve	10.059	5.235	0.057	1.663	0.062	0.000
			20:COM7	35:CVOL4	16:COM3	16:COM3	24:COM11	-
			-5.109	-0.188	-0.053	-0.224	-0.063	-25.289
			30:COM17	26:COM13	26:COM13	26:COM13	18:COM5	34:CVOL3
13187	2953	+ve	0.000	9.481	0.004	0.055	0.005	20.123
			-	34:CVOL3	20:COM7	24:COM17	28:COM15	34:CVOL3
			-1.382	0.000	-0.002	-0.276	-0.007	0.000
			18:COM5	-	30:COM17	18:COM5	22:COM9	-
	5315	-ve	0.000	0.269	0.004	0.055	0.010	0.905
			-	24:COM11	20:COM7	24:COM17	20:COM7	16:COM3
			-1.382	-0.877	-0.002	-0.276	-0.005	-0.450
			18:COM5	18:COM5	30:COM17	18:COM5	30:COM17	26:COM13
13188	5316	+ve	8.491	0.000	0.053	0.132	0.063	0.000
			20:COM7	-	28:COM15	24:COM17	20:COM7	-
			-3.378	-18.606	-0.063	-1.548	-0.057	-33.157
			30:COM17	18:COM5	22:COM9	18:COM5	30:COM17	18:COM5
	5314	-ve	8.491	0.000	0.053	0.132	0.043	6.776
			20:COM7	-	28:COM15	24:COM17	28:COM15	16:COM3
			-3.378	-19.477	-0.063	-1.548	-0.057	0.000
			30:COM17	18:COM5	22:COM9	18:COM5	22:COM9	-
13189	5312	+ve	1.303	18.232	0.139	14.415	0.235	74.036
			20:COM7	34:CVOL3	20:COM7	16:COM3	20:COM7	34:CVOL3
			-1.282	0.000	-0.133	-9.540	-0.214	0.000
			30:COM17	-	30:COM17	26:COM13	30:COM17	-
	5316	-ve	1.303	6.028	0.139	14.415	0.381	24.687
			20:COM7	16:COM3	20:COM7	16:COM3	20:COM7	35:CVOL4
			-1.282	-0.102	-0.133	-9.540	-0.334	0.000
			30:COM17	26:COM13	30:COM17	26:COM13	30:COM17	-
13190	5313	+ve	0.000	2.789	0.016	0.203	0.011	2.521
			-	35:CVOL4	20:COM7	20:COM7	28:COM15	20:COM7
			-14.638	0.000	-0.005	-0.069	-0.033	0.000
			18:COM5	-	30:COM17	30:COM17	22:COM9	-
	2953	-ve	0.000	0.000	0.016	0.203	0.032	7.049
			-	-	20:COM7	20:COM7	20:COM7	16:COM3
			-14.638	-5.204	-0.005	-0.069	-0.010	0.000
			18:COM5	34:CVOL3	30:COM17	30:COM17	30:COM17	-
13191	5317	+ve	7.441	5.648	0.115	0.146	0.034	2.999
			20:COM7	16:COM3	20:COM7	24:COM17	28:COM15	28:COM15
			-3.184	0.000	-0.054	-0.758	-0.076	-6.154
			30:COM17	-	30:COM17	18:COM5	22:COM9	22:COM9
	3170	-ve	7.441	4.810	0.115	0.146	0.092	0.000
			20:COM7	16:COM3	20:COM7	24:COM17	20:COM7	-
			-3.184	0.000	-0.054	-0.758	-0.045	-12.028
			30:COM17	-	30:COM17	18:COM5	30:COM17	22:COM9

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
13192	5314	+ve	0.352	2.299	0.006	0.642	0.011	7.988
			28:COM15	16:COM3	20:COM7	16:COM3	28:COM15	16:COM3
			-0.963	-0.961	-0.006	-0.001	-0.011	0.000
			22:COM9	26:COM13	30:COM17	26:COM13	22:COM9	-
	5321	-ve	0.352	0.000	0.006	0.642	0.010	19.975
			28:COM15	-	20:COM7	16:COM3	20:COM7	16:COM3
			-0.963	-7.954	-0.006	-0.001	-0.010	0.000
			22:COM9	18:COM5	30:COM17	26:COM13	30:COM17	-
13193	5318	+ve	8.722	7.033	0.023	0.200	0.037	12.035
			20:COM7	35:CVOL4	16:COM3	28:COM15	20:COM7	20:COM7
			-4.464	0.000	-0.019	-0.869	-0.037	0.000
			30:COM17	-	26:COM13	22:COM9	30:COM17	-
	5317	-ve	8.722	5.971	0.023	0.200	0.021	2.954
			20:COM7	35:CVOL4	16:COM3	28:COM15	20:COM7	28:COM15
			-4.464	0.000	-0.019	-0.869	-0.016	-6.363
			30:COM17	-	26:COM13	22:COM9	30:COM17	22:COM9
13194	5318	+ve	1.838	0.000	0.160	10.326	0.312	0.000
			20:COM7	-	20:COM7	16:COM3	28:COM15	-
			0.000	-9.994	-0.163	-0.838	-0.387	-0.687
			-	18:COM5	30:COM17	26:COM13	22:COM9	22:COM9
	5312	-ve	1.838	0.000	0.160	10.326	0.265	61.709
			20:COM7	-	20:COM7	16:COM3	28:COM15	16:COM3
			0.000	-21.286	-0.163	-0.838	-0.352	0.000
			-	18:COM5	30:COM17	26:COM13	22:COM9	-
13197	5320	+ve	17.654	5.786	0.000	12.505	1.101	44.844
			20:COM7	24:COM11	-	16:COM3	20:COM7	24:COM11
			-4.369	-28.347	-1.181	-4.818	0.000	-62.580
			30:COM17	18:COM5	22:COM9	26:COM13	-	18:COM5
	3173	-ve	17.654	3.776	0.000	12.505	0.000	98.637
			20:COM7	24:COM11	-	16:COM3	-	16:COM3
			-4.369	-31.026	-1.181	-4.818	-1.239	-68.156
			30:COM17	18:COM5	22:COM9	26:COM13	22:COM9	26:COM13
13198	5319	+ve	18.679	21.785	0.240	2.823	0.183	0.000
			20:COM7	24:COM11	20:COM7	24:COM11	28:COM15	-
			-6.097	-28.842	-0.212	-6.974	-0.217	-26.999
			30:COM17	18:COM5	30:COM17	18:COM5	22:COM9	22:COM9
	5320	-ve	18.679	19.779	0.240	2.823	0.382	39.633
			20:COM7	24:COM11	20:COM7	24:COM11	20:COM7	24:COM11
			-6.097	-31.517	-0.212	-6.974	-0.362	-61.107
			30:COM17	18:COM5	30:COM17	18:COM5	30:COM17	18:COM5
13199	5321	+ve	17.973	32.195	0.163	4.684	1.074	31.180
			20:COM7	16:COM3	28:COM15	24:COM11	20:COM7	24:COM11
			-5.658	-17.018	-0.881	-11.189	-0.372	-49.899
			30:COM17	26:COM13	22:COM9	18:COM5	30:COM17	18:COM5
	5319	-ve	17.973	29.906	0.163	4.684	0.000	0.000
			20:COM7	16:COM3	28:COM15	24:COM11	-	-
			-5.658	-18.734	-0.881	-11.189	-0.429	-27.326
			30:COM17	26:COM13	22:COM9	18:COM5	22:COM9	34:CVOL3

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
13200	5321	+ve	0.080	5.446	0.303	0.604	0.060	21.022
			28:COM15	20:COM7	20:COM7	16:COM3	28:COM15	16:COM3
			-0.377	0.000	-0.177	-0.028	-0.096	0.000
			22:COM9	-	30:COM17	26:COM13	22:COM9	-
	6277	-ve	0.080	4.067	0.303	0.604	0.110	20.421
			28:COM15	20:COM7	20:COM7	16:COM3	20:COM7	16:COM3
			-0.377	-0.736	-0.177	-0.028	-0.061	0.000
			22:COM9	30:COM17	30:COM17	26:COM13	30:COM17	-
13202	3173	+ve	25.940	4.576	6.259	45.345	1.518	104.272
			20:COM7	24:COM11	20:COM7	16:COM3	20:COM7	16:COM3
			-3.102	-44.344	-5.167	-9.098	-0.431	-67.884
			30:COM17	18:COM5	30:COM17	26:COM13	30:COM17	26:COM13
	2826	-ve	25.940	3.945	6.259	45.345	3.685	131.490
			20:COM7	24:COM11	20:COM7	16:COM3	20:COM7	16:COM3
			-3.102	-45.185	-5.167	-9.098	-1.934	-70.468
			30:COM17	18:COM5	30:COM17	26:COM13	30:COM17	26:COM13
13220	3884	+ve	15.529	10.916	1.428	5.977	0.975	10.796
			16:COM3	16:COM3	20:COM7	16:COM3	28:COM15	24:COM11
			-12.976	-3.659	-1.007	0.000	-1.360	-24.332
			26:COM13	26:COM13	30:COM17	-	22:COM9	18:COM5
	5324	-ve	15.529	6.589	1.428	5.977	1.657	0.000
			16:COM3	16:COM3	20:COM7	16:COM3	20:COM7	-
			-12.976	-6.904	-1.007	0.000	-1.157	-16.575
			26:COM13	26:COM13	30:COM17	-	30:COM17	22:COM9
13221	3714	+ve	20.703	16.857	0.750	0.233	0.632	23.009
			20:COM7	28:COM15	28:COM15	28:COM15	20:COM7	28:COM15
			-17.825	-31.689	-0.579	-8.939	-0.926	-58.356
			30:COM17	22:COM9	22:COM9	22:COM9	30:COM17	22:COM9
	5322	-ve	20.703	14.916	0.750	0.233	0.529	77.898
			20:COM7	28:COM15	28:COM15	28:COM15	28:COM15	28:COM15
			-17.825	-34.277	-0.579	-8.939	-0.504	-81.277
			30:COM17	22:COM9	22:COM9	22:COM9	22:COM9	22:COM9
13222	5322	+ve	16.831	42.481	1.153	3.909	1.374	107.214
			20:COM7	16:COM3	24:COM11	24:COM11	16:COM3	16:COM3
			-14.346	-8.853	-1.078	-9.795	-1.372	-63.251
			30:COM17	26:COM13	18:COM5	18:COM5	26:COM13	26:COM13
	5325	-ve	16.831	40.182	1.153	3.909	0.579	40.628
			20:COM7	16:COM3	24:COM11	24:COM11	16:COM3	24:COM11
			-14.346	-10.577	-1.078	-9.795	-0.453	-49.192
			30:COM17	26:COM13	18:COM5	18:COM5	26:COM13	18:COM5
13224	3714	+ve	0.029	7.544	0.005	0.146	0.012	11.811
			28:COM15	34:CVOL3	28:COM15	24:COM11	20:COM7	34:CVOL3
			-1.111	0.000	-0.006	-0.162	-0.010	0.000
			22:COM9	-	22:COM9	18:COM5	30:COM17	-
	5323	-ve	0.029	0.000	0.005	0.146	0.012	0.832
			28:COM15	-	28:COM15	24:COM11	20:COM7	16:COM3
			-1.111	-2.651	-0.006	-0.162	-0.013	-0.651
			22:COM9	18:COM5	22:COM9	18:COM5	30:COM17	26:COM13

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
13226	5324	+ve	14.565	1.867	0.047	10.526	0.388	0.000
			16:COM3	24:COM11	24:COM11	20:COM7	16:COM3	-
			-7.143	-12.585	-0.172	0.000	-0.168	-20.603
			26:COM13	18:COM5	18:COM5	-	26:COM13	22:COM9
	5322	-ve	14.565	0.000	0.047	10.526	0.084	55.173
			16:COM3	-	24:COM11	20:COM7	28:COM15	16:COM3
			-7.143	-21.521	-0.172	0.000	-0.410	-1.100
			26:COM13	18:COM5	18:COM5	-	22:COM9	26:COM13
13227	5324	+ve	0.000	3.209	0.020	0.237	0.011	2.622
			-	35:CVOL4	20:COM7	20:COM7	28:COM15	20:COM7
			-12.121	0.000	-0.005	-0.043	-0.041	0.000
			18:COM5	-	30:COM17	30:COM17	22:COM9	-
	3714	-ve	0.000	0.000	0.020	0.237	0.040	6.252
			-	-	20:COM7	20:COM7	20:COM7	16:COM3
			-12.121	-4.818	-0.005	-0.043	-0.010	0.000
			18:COM5	34:CVOL3	30:COM17	30:COM17	30:COM17	-
13232	5328	+ve	26.572	7.765	8.661	44.009	1.111	105.436
			20:COM7	24:COM11	16:COM3	16:COM3	16:COM3	16:COM3
			-16.557	-44.206	-5.907	-4.568	-1.006	-71.818
			30:COM17	18:COM5	26:COM13	26:COM13	26:COM13	26:COM13
	3594	-ve	26.572	7.125	8.661	44.009	4.419	132.971
			20:COM7	24:COM11	16:COM3	16:COM3	16:COM3	16:COM3
			-16.557	-45.060	-5.907	-4.568	-2.616	-76.406
			30:COM17	18:COM5	26:COM13	26:COM13	26:COM13	26:COM13
13233	5327	+ve	19.329	8.083	0.000	15.478	1.105	45.440
			20:COM7	24:COM11	-	16:COM3	20:COM7	24:COM17
			-14.413	-26.630	-1.195	-4.658	0.000	-60.740
			30:COM17	18:COM5	18:COM5	26:COM13	-	18:COM5
	5328	-ve	19.329	6.084	0.000	15.478	0.000	96.424
			20:COM7	24:COM11	-	16:COM3	-	16:COM3
			-14.413	-29.295	-1.195	-4.658	-1.257	-71.513
			30:COM17	18:COM5	18:COM5	26:COM13	18:COM5	26:COM13
13234	5326	+ve	18.412	22.400	0.428	5.189	0.306	0.000
			20:COM7	24:COM11	20:COM7	16:COM3	20:COM7	-
			-16.066	-28.148	-0.231	-3.906	-0.232	-23.125
			30:COM17	18:COM5	30:COM17	26:COM13	30:COM17	22:COM9
	5327	-ve	18.412	20.394	0.428	5.189	0.777	40.535
			20:COM7	24:COM11	20:COM7	16:COM3	16:COM3	24:COM17
			-16.066	-30.823	-0.231	-3.906	-0.323	-58.881
			30:COM17	18:COM5	30:COM17	26:COM13	26:COM13	18:COM5
13235	5325	+ve	17.765	31.940	0.081	6.971	0.398	41.075
			20:COM7	16:COM3	24:COM11	24:COM17	16:COM3	24:COM17
			-15.036	-16.061	-0.242	-8.689	-0.333	-49.311
			30:COM17	26:COM13	18:COM5	18:COM5	26:COM13	18:COM5
	5326	-ve	17.765	29.254	0.081	6.971	0.083	0.000
			20:COM7	16:COM3	24:COM11	24:COM17	28:COM15	-
			-15.036	-18.075	-0.242	-8.689	-0.328	-22.830
			30:COM17	26:COM13	18:COM5	18:COM5	22:COM9	22:COM9

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
13236	5329	+ve	10.655	4.391	0.034	0.093	0.085	1.250
			20:COM7	20:COM7	24:COM11	24:COM11	16:COM3	28:COM15
			-9.045	0.000	-0.074	-1.487	-0.059	-3.054
			30:COM17	-	18:COM5	18:COM5	26:COM13	22:COM9
	3907	-ve	10.655	3.580	0.034	0.093	0.035	0.000
			20:COM7	20:COM7	24:COM11	24:COM11	28:COM15	-
			-9.045	0.000	-0.074	-1.487	-0.066	-8.618
			30:COM17	-	18:COM5	18:COM5	22:COM9	22:COM9
13237	5329	+ve	1.042	0.325	0.004	0.492	0.016	0.102
			20:COM7	24:COM11	28:COM15	16:COM3	20:COM7	28:COM15
			0.000	-1.791	-0.008	0.000	-0.010	-0.701
			-	18:COM5	22:COM9	-	30:COM17	22:COM9
	5322	-ve	1.042	0.000	0.004	0.492	0.006	22.560
			20:COM7	-	28:COM15	16:COM3	28:COM15	16:COM3
			0.000	-9.869	-0.008	0.000	-0.015	0.000
			-	18:COM5	22:COM9	-	22:COM9	-
13253	5330	+ve	7.980	10.955	0.097	0.909	0.052	10.315
			20:COM7	24:COM11	20:COM7	16:COM3	28:COM15	24:COM17
			-6.311	-12.380	-0.051	-0.145	-0.086	-11.842
			30:COM17	18:COM5	30:COM17	26:COM13	22:COM9	18:COM5
	3917	-ve	7.980	10.373	0.097	0.909	0.077	10.212
			20:COM7	24:COM11	20:COM7	16:COM3	20:COM7	20:COM7
			-6.311	-13.156	-0.051	-0.145	-0.035	-8.196
			30:COM17	18:COM5	30:COM17	26:COM13	30:COM17	30:COM17
13254	5322	+ve	5.475	17.248	0.145	11.747	0.306	70.381
			16:COM3	16:COM3	16:COM3	16:COM3	24:COM11	16:COM3
			-6.333	-2.145	-0.184	-7.642	-0.213	-25.961
			26:COM13	26:COM13	26:COM13	26:COM13	18:COM5	26:COM13
	5330	-ve	5.475	11.949	0.145	11.747	0.472	4.026
			16:COM3	16:COM3	16:COM3	16:COM3	16:COM3	24:COM17
			-6.333	-6.119	-0.184	-7.642	-0.559	-7.693
			26:COM13	26:COM13	26:COM13	26:COM13	26:COM13	18:COM5
13255	5331	+ve	36.412	49.002	2.983	4.903	2.294	120.118
			28:COM15	16:COM3	20:COM7	24:COM11	28:COM15	16:COM3
			-72.703	-8.803	-1.853	-11.545	-2.843	-61.516
			22:COM9	26:COM13	30:COM17	18:COM5	22:COM9	26:COM13
	5332	-ve	36.412	46.703	2.983	4.903	2.554	42.023
			28:COM15	16:COM3	20:COM7	24:COM11	20:COM7	24:COM17
			-72.703	-10.527	-1.853	-11.545	-1.226	-46.864
			22:COM9	26:COM13	30:COM17	18:COM5	30:COM17	18:COM5
13260	5335	+ve	50.636	5.956	32.643	44.418	2.202	107.593
			28:COM15	24:COM11	20:COM7	16:COM3	28:COM15	16:COM3
			-89.860	-46.096	-23.303	-4.019	-3.201	-73.090
			22:COM9	18:COM5	30:COM17	26:COM13	22:COM9	26:COM13
	4317	-ve	50.636	5.316	32.643	44.418	17.018	136.278
			28:COM15	24:COM11	20:COM7	16:COM3	20:COM7	16:COM3
			-89.860	-46.950	-23.303	-4.019	-12.254	-76.546
			22:COM9	18:COM5	30:COM17	26:COM13	30:COM17	26:COM13

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
13261	5334	+ve	50.536	6.626	0.695	15.325	1.783	45.940
			28:COM15	24:COM11	28:COM15	16:COM3	20:COM7	24:COM11
			-84.094	-29.007	-1.267	-4.759	-0.792	-68.092
			22:COM9	18:COM5	22:COM9	26:COM13	30:COM17	18:COM5
	5335	-ve	50.536	4.627	0.695	15.325	0.778	98.401
			28:COM15	24:COM11	28:COM15	16:COM3	28:COM15	16:COM3
			-84.094	-31.672	-1.267	-4.759	-0.887	-72.960
			22:COM9	18:COM5	22:COM9	26:COM13	22:COM9	26:COM13
13262	5333	+ve	39.893	23.187	1.051	5.888	1.968	0.000
			28:COM15	24:COM11	28:COM15	16:COM3	16:COM3	-
			-75.734	-27.531	-1.443	-4.785	-0.825	-29.384
			22:COM9	18:COM5	22:COM9	26:COM13	26:COM13	22:COM9
	5334	-ve	39.893	21.181	1.051	5.888	2.218	40.998
			28:COM15	24:COM11	28:COM15	16:COM3	20:COM7	24:COM11
			-75.734	-30.205	-1.443	-4.785	-1.834	-66.166
			22:COM9	18:COM5	22:COM9	26:COM13	30:COM17	18:COM5
13263	5332	+ve	39.745	35.960	1.191	7.997	0.988	42.471
			28:COM15	16:COM3	16:COM3	24:COM11	24:COM11	24:COM11
			-72.629	-15.888	-0.627	-9.878	-1.747	-46.851
			22:COM9	26:COM13	26:COM13	18:COM5	18:COM5	18:COM5
	5333	-ve	39.745	33.274	1.191	7.997	0.698	0.000
			28:COM15	16:COM3	16:COM3	24:COM11	16:COM3	-
			-72.629	-17.903	-0.627	-9.878	-0.362	-28.774
			22:COM9	26:COM13	26:COM13	18:COM5	26:COM13	22:COM9
13264	4607	+ve	22.546	11.681	2.875	6.527	4.148	9.543
			28:COM15	16:COM3	28:COM15	16:COM3	20:COM7	24:COM11
			-37.297	-1.774	-4.385	0.000	-2.685	-26.136
			22:COM9	26:COM13	22:COM9	-	30:COM17	18:COM5
	5337	-ve	22.546	7.354	2.875	6.527	3.393	0.000
			28:COM15	16:COM3	28:COM15	16:COM3	28:COM15	-
			-37.297	-5.019	-4.385	0.000	-5.113	-23.616
			22:COM9	26:COM13	22:COM9	-	22:COM9	22:COM9
13265	5336	+ve	20.178	11.892	0.396	0.372	0.163	9.581
			24:COM11	24:COM11	20:COM7	24:COM11	28:COM15	24:COM11
			-44.521	-12.951	-0.187	-0.543	-0.364	-14.715
			18:COM5	18:COM5	30:COM17	18:COM5	22:COM9	18:COM5
	4640	-ve	20.178	10.173	0.396	0.372	0.305	10.127
			24:COM11	24:COM11	20:COM7	24:COM11	20:COM7	28:COM15
			-44.521	-15.242	-0.187	-0.543	-0.155	-10.103
			18:COM5	18:COM5	30:COM17	18:COM5	30:COM17	22:COM9
13266	5331	+ve	10.587	20.548	0.211	13.618	1.359	82.913
			28:COM15	16:COM3	28:COM15	16:COM3	20:COM7	16:COM3
			-21.932	-1.313	-0.558	-6.830	-0.527	-23.456
			22:COM9	26:COM13	22:COM9	26:COM13	30:COM17	26:COM13
	5336	-ve	10.587	15.249	0.211	13.618	0.495	2.933
			28:COM15	16:COM3	28:COM15	16:COM3	28:COM15	24:COM11
			-21.932	-5.287	-0.558	-6.830	-1.260	-10.549
			22:COM9	26:COM13	22:COM9	26:COM13	22:COM9	18:COM5

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
13268	5337	+ve	16.245	1.318	0.376	12.576	1.945	0.000
			24:COM1	24:COM11	28:COM15	20:COM7	20:COM7	-
			-25.901	-13.929	-0.823	0.000	-0.994	-23.641
			18:COM5	18:COM5	22:COM9	-	30:COM17	22:COM9
	5331	-ve	16.245	0.000	0.376	12.576	0.662	57.838
			24:COM1	-	28:COM15	20:COM7	28:COM15	16:COM3
			-25.901	-22.865	-0.823	0.000	-1.655	0.000
			18:COM5	18:COM5	22:COM9	-	22:COM9	-
13269	5337	+ve	0.000	4.299	0.033	0.270	0.046	3.441
			-	35:CVOL4	20:COM7	20:COM7	28:COM15	35:CVOL4
			-13.175	0.000	-0.022	-0.041	-0.067	0.000
			18:COM5	-	30:COM17	30:COM17	22:COM9	-
	4437	-ve	0.000	0.000	0.033	0.270	0.063	7.553
			-	-	20:COM7	20:COM7	20:COM7	34:CVOL3
			-13.175	-6.291	-0.022	-0.041	-0.044	0.000
			18:COM5	34:CVOL3	30:COM17	30:COM17	30:COM17	-
13270	5338	+ve	28.098	0.692	0.136	1.053	0.189	0.000
			28:COM15	28:COM15	28:COM15	16:COM3	20:COM7	-
			-40.745	-0.576	-0.183	-0.726	-0.138	-12.292
			22:COM9	22:COM9	22:COM9	26:COM13	30:COM17	18:COM5
	4540	-ve	28.098	0.000	0.136	1.053	0.133	0.000
			28:COM15	-	28:COM15	16:COM3	28:COM15	-
			-40.745	-3.764	-0.183	-0.726	-0.174	-9.008
			22:COM9	32:CVOL1	22:COM9	26:COM13	22:COM9	18:COM5
13271	4437	+ve	2.309	9.900	0.019	0.139	0.061	16.030
			28:COM15	34:CVOL3	28:COM15	24:COM1	20:COM7	34:CVOL3
			-2.320	0.000	-0.031	-0.198	-0.037	0.000
			22:COM9	-	22:COM9	18:COM5	30:COM17	-
	5338	-ve	2.309	0.000	0.019	0.139	0.041	0.764
			28:COM15	-	28:COM15	24:COM1	28:COM15	16:COM3
			-2.320	-2.903	-0.031	-0.198	-0.069	-0.649
			22:COM9	35:CVOL4	22:COM9	18:COM5	22:COM9	26:COM13
13275	5339	+ve	55.573	7.255	0.864	0.000	1.055	0.304
			20:COM7	35:CVOL4	20:COM7	-	28:COM15	24:COM1
			-56.591	0.000	-0.793	-6.059	-1.171	-7.964
			30:COM17	-	30:COM17	22:COM9	22:COM9	18:COM5
	4630	-ve	55.573	5.633	0.864	0.000	0.175	0.000
			20:COM7	35:CVOL4	20:COM7	-	28:COM15	-
			-56.591	0.000	-0.793	-6.059	-0.190	-16.816
			30:COM17	-	30:COM17	22:COM9	22:COM9	18:COM5
13276	5339	+ve	1.145	0.000	0.019	0.516	0.071	0.000
			16:COM3	-	28:COM15	16:COM3	20:COM7	-
			0.000	-2.554	-0.035	0.000	-0.041	-2.611
			-	18:COM5	22:COM9	-	30:COM17	22:COM9
	5331	-ve	1.145	0.000	0.019	0.516	0.036	25.766
			16:COM3	-	28:COM15	16:COM3	28:COM15	16:COM3
			0.000	-12.519	-0.035	0.000	-0.068	0.000
			-	35:CVOL4	22:COM9	-	22:COM9	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
13345	5367	+ve	15.516	20.490	0.771	2.942	1.110	22.208
			28:COM15	20:COM7	16:COM3	20:COM7	24:COM11	20:COM7
			-60.445	-12.862	-0.679	0.000	-1.450	-16.933
			22:COM9	30:COM17	26:COM13	-	18:COM5	30:COM17
	5582	-ve	15.516	14.481	0.771	2.942	0.509	20.734
			28:COM15	28:COM15	16:COM3	20:COM7	24:COM11	20:COM7
			-60.445	-18.254	-0.679	0.000	-0.619	-20.279
			22:COM9	22:COM9	26:COM13	-	18:COM5	30:COM17
13346	5368	+ve	84.134	277.944	12.493	34.197	18.174	396.577
			28:COM15	20:COM7	24:COM11	20:COM7	16:COM3	20:COM7
			-93.951	-246.656	-13.871	-32.680	-15.815	-339.525
			22:COM9	30:COM17	18:COM5	30:COM17	26:COM13	30:COM17
	5583	-ve	84.134	267.393	12.493	34.197	15.424	286.469
			28:COM15	20:COM7	24:COM11	20:COM7	24:COM11	28:COM15
			-93.951	-253.820	-13.871	-32.680	-16.512	-285.495
			22:COM9	30:COM17	18:COM5	30:COM17	18:COM5	22:COM9
13347	5369	+ve	28.232	409.381	4.356	96.120	4.381	591.934
			28:COM15	20:COM7	20:COM7	20:COM7	24:COM11	20:COM7
			-58.453	-362.708	-2.424	-90.930	-4.705	-516.263
			22:COM9	30:COM17	30:COM17	30:COM17	18:COM5	30:COM17
	5584	-ve	28.232	396.021	4.356	96.120	7.562	401.661
			28:COM15	20:COM7	20:COM7	20:COM7	20:COM7	28:COM15
			-58.453	-371.602	-2.424	-90.930	-3.057	-414.855
			22:COM9	30:COM17	30:COM17	30:COM17	30:COM17	22:COM9
13348	5370	+ve	109.096	327.679	14.422	86.781	14.672	499.433
			28:COM15	20:COM7	20:COM7	20:COM7	20:COM7	20:COM7
			-119.451	-289.473	-14.125	-77.066	-14.378	-424.424
			22:COM9	30:COM17	30:COM17	30:COM17	30:COM17	30:COM17
	5585	-ve	109.096	316.261	14.422	86.781	22.324	309.233
			28:COM15	20:COM7	20:COM7	20:COM7	20:COM7	20:COM7
			-119.451	-297.287	-14.125	-77.066	-21.286	-305.700
			22:COM9	30:COM17	30:COM17	30:COM17	30:COM17	30:COM17
13376	5372	+ve	7.961	27.050	0.618	0.562	0.486	23.135
			24:COM17	16:COM3	20:COM7	28:COM15	28:COM15	16:COM3
			-41.835	-6.857	-0.197	-0.564	-0.556	-6.001
			18:COM5	26:COM13	30:COM17	22:COM9	22:COM9	26:COM13
	599	-ve	7.961	25.934	0.618	0.562	0.709	1.871
			24:COM17	16:COM3	20:COM7	28:COM15	16:COM3	24:COM17
			-41.835	-7.694	-0.197	-0.564	-0.327	-5.394
			18:COM5	26:COM13	30:COM17	22:COM9	26:COM13	18:COM5
13377	5373	+ve	0.000	60.420	2.150	1.632	0.213	45.817
			-	16:COM3	16:COM3	20:COM7	28:COM15	16:COM3
			-34.871	-35.053	-1.118	-1.390	-0.332	-24.317
			22:COM9	26:COM13	26:COM13	30:COM17	22:COM9	26:COM13
	987	-ve	0.000	59.212	2.150	1.632	2.338	13.855
			-	16:COM3	16:COM3	20:COM7	16:COM3	24:COM17
			-34.871	-35.959	-1.118	-1.390	-1.348	-18.488
			22:COM9	26:COM13	26:COM13	30:COM17	26:COM13	18:COM5

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
13378	5374	+ve	545.331	356.388	7.199	1.711	0.547	847.040
			16:COM3	16:COM3	20:COM7	24:COM1	24:COM1	16:COM3
			-518.546	-300.469	-3.311	-3.327	-1.466	-722.419
			26:COM1	26:COM1	30:COM1	18:COM5	18:COM5	26:COM1
	1273	-ve	545.331	352.979	7.199	1.711	6.587	465.869
			16:COM3	16:COM3	20:COM7	24:COM1	20:COM7	16:COM3
			-518.546	-303.026	-3.311	-3.327	-3.327	-398.155
			26:COM1	26:COM1	30:COM1	18:COM5	30:COM1	26:COM1
13379	5375	+ve	97.451	228.690	2.893	6.783	1.333	264.103
			24:COM1	16:COM3	20:COM7	28:COM1	28:COM1	16:COM3
			-116.786	-199.753	-2.378	-7.634	-1.388	-230.254
			18:COM5	26:COM1	30:COM1	22:COM9	22:COM9	26:COM1
	1783	-ve	97.451	226.830	2.893	6.783	1.842	19.335
			24:COM1	16:COM3	20:COM7	28:COM1	20:COM7	16:COM3
			-116.786	-201.148	-2.378	-7.634	-1.344	-14.844
			18:COM5	26:COM1	30:COM1	22:COM9	30:COM1	26:COM1
13380	5376	+ve	144.141	240.047	3.914	6.876	1.016	282.003
			24:COM1	16:COM3	20:COM7	28:COM1	24:COM1	16:COM3
			-152.485	-213.013	-2.963	-8.615	-1.279	-249.269
			18:COM5	26:COM1	30:COM1	22:COM9	18:COM5	26:COM1
	2148	-ve	144.141	238.187	3.914	6.876	3.031	24.997
			24:COM1	16:COM3	20:COM7	28:COM1	20:COM7	16:COM3
			-152.485	-214.407	-2.963	-8.615	-2.271	-19.576
			18:COM5	26:COM1	30:COM1	22:COM9	30:COM1	26:COM1
13381	5377	+ve	144.378	252.163	5.171	8.188	1.848	297.923
			24:COM1	16:COM3	20:COM7	28:COM1	20:COM7	16:COM3
			-154.161	-227.971	-4.971	-9.296	-1.838	-268.991
			18:COM5	26:COM1	30:COM1	22:COM9	30:COM1	26:COM1
	2540	-ve	144.378	250.303	5.171	8.188	3.760	27.871
			24:COM1	16:COM3	20:COM7	28:COM1	20:COM7	16:COM3
			-154.161	-229.365	-4.971	-9.296	-3.535	-23.197
			18:COM5	26:COM1	30:COM1	22:COM9	30:COM1	26:COM1
13382	5378	+ve	162.757	328.198	5.406	11.368	1.771	471.581
			24:COM1	16:COM3	20:COM7	28:COM1	28:COM1	16:COM3
			-174.239	-294.983	-5.249	-12.789	-1.823	-422.127
			18:COM5	26:COM1	30:COM1	22:COM9	22:COM9	26:COM1
	2941	-ve	162.757	325.966	5.406	11.368	4.009	119.972
			24:COM1	16:COM3	20:COM7	28:COM1	20:COM7	16:COM3
			-174.239	-296.657	-5.249	-12.789	-3.891	-104.125
			18:COM5	26:COM1	30:COM1	22:COM9	30:COM1	26:COM1
13383	5379	+ve	164.115	330.830	5.258	12.130	1.881	476.469
			24:COM1	16:COM3	20:COM7	28:COM1	20:COM7	16:COM3
			-168.088	-292.768	-5.201	-13.345	-1.845	-420.528
			18:COM5	26:COM1	30:COM1	22:COM9	30:COM1	26:COM1
	3329	-ve	164.115	328.599	5.258	12.130	3.836	122.031
			24:COM1	16:COM3	20:COM7	28:COM1	20:COM7	16:COM3
			-168.088	-294.442	-5.201	-13.345	-3.738	-104.908
			18:COM5	26:COM1	30:COM1	22:COM9	30:COM1	26:COM1

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
13384	5380	+ve	151.441	320.250	4.749	12.414	1.747	468.015
			16:COM3	16:COM3	28:COM15	28:COM15	20:COM7	16:COM3
			-152.862	-276.522	-4.993	-13.902	-1.423	-403.048
			26:COM13	26:COM13	22:COM9	22:COM9	30:COM17	26:COM13
	3702	-ve	151.441	318.018	4.749	12.414	3.702	124.950
			16:COM3	16:COM3	28:COM15	28:COM15	20:COM7	16:COM3
			-152.862	-278.196	-4.993	-13.902	-3.641	-104.891
			26:COM13	26:COM13	22:COM9	22:COM9	30:COM17	26:COM13
13385	5381	+ve	16.903	175.466	1.701	4.375	0.371	172.133
			24:COM17	16:COM3	20:COM7	20:COM7	28:COM15	16:COM3
			-33.256	-141.849	-1.283	-4.689	-1.108	-138.786
			18:COM5	26:COM13	30:COM17	30:COM17	22:COM9	26:COM13
	4064	-ve	16.903	173.978	1.701	4.375	1.628	14.322
			24:COM17	16:COM3	20:COM7	20:COM7	28:COM15	24:COM17
			-33.256	-142.965	-1.283	-4.689	-1.915	-15.714
			18:COM5	26:COM13	30:COM17	30:COM17	22:COM9	18:COM5
13386	5382	+ve	15.582	238.343	2.174	2.085	0.000	290.911
			24:COM17	16:COM3	16:COM3	20:COM7	-	16:COM3
			-39.697	-188.470	-0.208	-2.406	-2.109	-233.447
			18:COM5	26:COM13	26:COM13	30:COM17	22:COM9	26:COM13
	4425	-ve	15.582	236.483	2.174	2.085	0.519	35.747
			24:COM17	16:COM3	16:COM3	20:COM7	16:COM3	16:COM3
			-39.697	-189.865	-0.208	-2.406	-0.617	-30.147
			18:COM5	26:COM13	26:COM13	30:COM17	26:COM13	26:COM13
13387	5383	+ve	7.275	162.525	0.413	0.568	0.413	160.746
			24:COM17	16:COM3	28:COM15	28:COM15	24:COM11	16:COM3
			-23.276	-116.566	-0.658	-1.630	-0.765	-117.412
			18:COM5	26:COM13	22:COM9	22:COM9	18:COM5	26:COM13
	4751	-ve	7.275	161.037	0.413	0.568	0.000	8.575
			24:COM17	16:COM3	28:COM15	28:COM15	-	24:COM17
			-23.276	-117.682	-0.658	-1.630	-0.578	-13.249
			18:COM5	26:COM13	22:COM9	22:COM9	22:COM9	18:COM5
13388	5384	+ve	24.465	151.811	1.060	1.062	2.082	152.099
			24:COM17	16:COM3	24:COM11	28:COM15	20:COM7	16:COM3
			-26.836	-105.834	-2.983	-1.114	-0.545	-108.520
			18:COM5	26:COM13	18:COM5	22:COM9	30:COM17	26:COM13
	4994	-ve	24.465	150.323	1.060	1.062	0.702	5.893
			24:COM17	16:COM3	24:COM11	28:COM15	24:COM11	24:COM17
			-26.836	-106.950	-2.983	-1.114	-1.231	-10.341
			18:COM5	26:COM13	18:COM5	22:COM9	18:COM5	18:COM5
13389	5385	+ve	19.710	110.879	1.135	1.701	2.494	129.069
			16:COM3	16:COM3	28:COM15	20:COM7	16:COM3	16:COM3
			-16.428	-74.473	-2.003	-1.186	-1.068	-88.820
			26:COM13	26:COM13	22:COM9	30:COM17	26:COM13	26:COM13
	5190	-ve	19.710	109.226	1.135	1.701	3.224	10.799
			16:COM3	16:COM3	28:COM15	20:COM7	16:COM3	16:COM3
			-16.428	-75.712	-2.003	-1.186	-2.731	-8.133
			26:COM13	26:COM13	22:COM9	30:COM17	26:COM13	26:COM13

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
13447	93	+ve	1.54E+3	6.657	21.467	9.540	83.098	62.745
			20:COM7	24:COM11	28:COM15	16:COM3	20:COM7	24:COM11
			-926.596	-23.000	-24.618	-7.532	-73.287	-68.013
			30:COM17	18:COM5	22:COM9	26:COM13	30:COM17	18:COM5
	6090	-ve	1.53E+3	6.657	21.467	9.540	13.159	67.533
			20:COM7	24:COM11	28:COM15	16:COM3	28:COM15	20:COM7
			-934.815	-23.000	-24.618	-7.532	-15.950	-7.429
			30:COM17	18:COM5	22:COM9	26:COM13	22:COM9	30:COM17
13454	158	+ve	49.069	77.958	1.479	2.191	2.994	103.063
			20:COM7	28:COM15	24:COM11	20:COM7	16:COM3	28:COM15
			-39.599	-91.787	-2.103	-0.646	-2.178	-129.115
			30:COM17	22:COM9	18:COM5	30:COM17	26:COM13	22:COM9
	5419	-ve	49.069	72.799	1.479	2.191	1.862	133.686
			20:COM7	28:COM15	24:COM11	20:COM7	24:COM11	20:COM7
			-39.599	-101.386	-2.103	-0.646	-2.744	-102.041
			30:COM17	22:COM9	18:COM5	30:COM17	18:COM5	30:COM17
13455	5419	+ve	43.401	33.789	4.153	4.358	5.595	40.526
			28:COM15	20:COM7	28:COM15	20:COM7	20:COM7	20:COM7
			-78.099	-23.815	-5.004	-3.252	-4.539	-31.719
			22:COM9	30:COM17	22:COM9	30:COM17	30:COM17	30:COM17
	1110	-ve	43.401	26.697	4.153	4.358	5.845	33.208
			28:COM15	28:COM15	28:COM15	20:COM7	28:COM15	20:COM7
			-78.099	-29.149	-5.004	-3.252	-6.918	-33.803
			22:COM9	22:COM9	22:COM9	30:COM17	22:COM9	30:COM17
13456	174	+ve	16.979	40.098	1.817	12.384	1.560	97.556
			16:COM3	16:COM3	16:COM3	20:COM7	24:COM11	16:COM3
			-12.386	-0.606	-0.632	-8.807	-2.796	-20.100
			26:COM13	26:COM13	26:COM13	30:COM17	18:COM5	26:COM13
	6111	-ve	16.979	37.649	1.817	12.384	1.345	14.256
			16:COM3	16:COM3	16:COM3	20:COM7	20:COM7	24:COM11
			-12.386	-2.443	-0.632	-8.807	0.000	-18.158
			26:COM13	26:COM13	26:COM13	30:COM17	-	18:COM5
13458	5419	+ve	7.368	35.491	3.598	9.012	3.619	74.421
			20:COM7	20:COM7	24:COM11	16:COM3	16:COM3	20:COM7
			-6.056	-12.346	-3.390	-4.372	-2.964	-38.017
			30:COM17	30:COM17	18:COM5	26:COM13	26:COM13	30:COM17
	6114	-ve	7.368	33.736	3.598	9.012	2.672	21.898
			20:COM7	20:COM7	24:COM11	16:COM3	24:COM11	16:COM3
			-6.056	-13.662	-3.390	-4.372	-1.692	-19.223
			30:COM17	30:COM17	18:COM5	26:COM13	18:COM5	26:COM13
13459	6111	+ve	1.552	5.919	0.018	0.133	0.023	5.205
			28:COM15	34:CVOL3	16:COM3	28:COM15	28:COM15	20:COM7
			-1.795	0.000	-0.015	-0.268	-0.024	-2.449
			22:COM9	-	26:COM13	22:COM9	22:COM9	30:COM17
	1107	-ve	1.552	0.000	0.018	0.133	0.041	1.930
			28:COM15	-	16:COM3	28:COM15	16:COM3	16:COM3
			-1.795	-5.515	-0.015	-0.268	-0.032	0.000
			22:COM9	35:CVOL4	26:COM13	22:COM9	26:COM13	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
13460	6112	+ve	1.027	6.090	0.003	0.082	0.018	4.766
			20:COM7	34:CVOL3	28:COM15	20:COM7	20:COM7	20:COM7
			-0.909	0.000	-0.011	-0.050	-0.003	-1.401
			30:COM17	-	22:COM9	30:COM17	30:COM17	30:COM17
	1106	-ve	1.027	0.000	0.003	0.082	0.008	1.638
			20:COM7	-	28:COM15	20:COM7	28:COM15	28:COM15
			-0.909	-4.084	-0.011	-0.050	-0.018	-2.098
			30:COM17	35:CVOL4	22:COM9	30:COM17	22:COM9	22:COM9
13461	6110	+ve	0.313	6.054	0.021	0.175	0.028	6.003
			28:COM15	34:CVOL3	16:COM3	20:COM7	24:COM11	20:COM7
			-1.122	0.000	-0.023	-0.115	-0.026	-0.635
			22:COM9	-	26:COM13	30:COM17	18:COM5	30:COM17
	1105	-ve	0.313	0.000	0.021	0.175	0.032	1.135
			28:COM15	-	16:COM3	20:COM7	16:COM3	20:COM7
			-1.122	-2.895	-0.023	-0.115	-0.035	-1.401
			22:COM9	35:CVOL4	26:COM13	30:COM17	26:COM13	30:COM17
13462	6109	+ve	1.463	10.869	0.067	0.217	0.091	12.978
			28:COM15	20:COM7	24:COM11	20:COM7	16:COM3	20:COM7
			-1.818	-1.548	-0.079	-0.188	-0.082	-4.313
			22:COM9	30:COM17	18:COM5	30:COM17	26:COM13	30:COM17
	1104	-ve	1.463	4.786	0.067	0.217	0.078	2.925
			28:COM15	28:COM15	24:COM11	20:COM7	24:COM11	28:COM15
			-1.818	-4.718	-0.079	-0.188	-0.095	-5.366
			22:COM9	22:COM9	18:COM5	30:COM17	18:COM5	22:COM9
13463	6109	+ve	23.223	0.000	4.867	1.597	2.999	18.198
			20:COM7	-	28:COM15	24:COM11	20:COM7	16:COM3
			-17.091	-39.033	-5.471	-4.163	-3.168	-13.112
			30:COM17	22:COM9	22:COM9	18:COM5	30:COM17	26:COM13
	5419	-ve	23.223	0.000	4.867	1.597	5.748	80.737
			20:COM7	-	28:COM15	24:COM11	28:COM15	16:COM3
			-17.091	-41.060	-5.471	-4.163	-7.006	0.000
			30:COM17	22:COM9	22:COM9	18:COM5	22:COM9	-
13464	6110	+ve	16.728	0.000	1.296	3.659	0.609	0.000
			20:COM7	-	20:COM7	24:COM11	24:COM11	-
			-11.910	-17.261	-0.422	-6.916	-1.595	-35.265
			30:COM17	18:COM5	30:COM17	18:COM5	18:COM5	22:COM9
	6109	-ve	16.728	0.000	1.296	3.659	1.513	20.007
			20:COM7	-	20:COM7	24:COM11	20:COM7	16:COM3
			-11.910	-19.678	-0.422	-6.916	-0.621	-12.292
			30:COM17	18:COM5	30:COM17	18:COM5	30:COM17	26:COM13
13465	6112	+ve	17.663	4.262	2.200	4.185	4.267	0.000
			16:COM3	16:COM3	24:COM11	24:COM11	16:COM3	-
			-13.117	-2.374	-3.269	-8.276	-2.816	-34.550
			26:COM13	26:COM13	18:COM5	18:COM5	26:COM13	22:COM9
	6110	-ve	17.663	2.115	2.200	4.185	1.973	0.000
			16:COM3	24:COM11	24:COM11	24:COM11	24:COM11	-
			-13.117	-4.475	-3.269	-8.276	-2.830	-33.495
			26:COM13	18:COM5	18:COM5	18:COM5	18:COM5	18:COM5

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
13466	6111	+ve	9.082	22.380	2.547	18.169	3.325	12.365
			16:COM3	16:COM3	24:COM11	20:COM7	16:COM3	24:COM1
			-7.735	-6.748	-3.768	-5.774	-2.484	-19.541
			26:COM1	26:COM1	18:COM5	30:COM1	26:COM1	18:COM5
	6129	-ve	9.082	20.942	2.547	18.169	1.041	0.000
			16:COM3	16:COM3	24:COM11	20:COM7	28:COM1	-
			-7.735	-7.826	-3.768	-5.774	-1.762	-23.968
			26:COM1	26:COM1	18:COM5	30:COM1	22:COM9	22:COM9
13470	6115	+ve	5.066	10.415	0.007	0.016	0.004	11.185
			24:COM1	20:COM7	20:COM7	28:COM1	24:COM11	20:COM7
			-5.109	0.000	-0.003	-0.610	-0.008	-1.433
			18:COM5	-	30:COM1	22:COM9	18:COM5	30:COM1
	6382	-ve	5.066	2.211	0.007	0.016	0.019	5.566
			24:COM1	28:COM1	20:COM7	28:COM1	20:COM7	28:COM1
			-5.109	-5.180	-0.003	-0.610	-0.010	-11.543
			18:COM5	22:COM9	30:COM1	22:COM9	30:COM1	22:COM9
13472	6114	+ve	6.880	20.826	1.799	11.839	2.815	21.809
			24:COM1	16:COM3	28:COM1	16:COM3	20:COM7	16:COM3
			-10.517	-13.824	-1.786	-3.484	-2.573	-19.835
			18:COM5	26:COM1	22:COM9	26:COM1	30:COM1	26:COM1
	6115	-ve	6.880	18.481	1.799	11.839	1.451	10.835
			24:COM1	16:COM3	28:COM1	16:COM3	28:COM1	24:COM1
			-10.517	-15.583	-1.786	-3.484	-1.181	-19.185
			18:COM5	26:COM1	22:COM9	26:COM1	22:COM9	18:COM5
13493	2020	+ve	11.762	49.428	1.108	26.277	1.062	135.228
			28:COM1	16:COM3	20:COM7	20:COM7	20:COM7	16:COM3
			-16.711	-13.296	-0.817	-15.869	-1.130	-61.904
			22:COM9	26:COM1	30:COM1	30:COM1	30:COM1	26:COM1
	6241	-ve	11.762	46.413	1.108	26.277	1.353	31.869
			28:COM1	16:COM3	20:COM7	20:COM7	20:COM7	16:COM3
			-16.711	-15.557	-0.817	-15.869	-0.787	-31.504
			22:COM9	26:COM1	30:COM1	30:COM1	30:COM1	26:COM1
13494	2010	+ve	214.052	506.700	4.984	18.326	3.399	691.078
			28:COM1	28:COM1	28:COM1	20:COM7	20:COM7	28:COM1
			-223.320	-575.302	-5.620	-9.733	-1.584	-798.523
			22:COM9	22:COM9	22:COM9	30:COM1	30:COM1	22:COM9
	5369	-ve	214.052	497.020	4.984	18.326	12.207	786.454
			28:COM1	28:COM1	28:COM1	20:COM7	28:COM1	20:COM7
			-223.320	-589.840	-5.620	-9.733	-12.123	-674.323
			22:COM9	22:COM9	22:COM9	30:COM1	22:COM9	30:COM1
13495	6241	+ve	10.118	6.025	0.003	0.078	0.008	7.867
			20:COM7	34:CVOL3	20:COM7	28:COM1	28:COM1	20:COM7
			-9.174	0.000	-0.003	-0.092	-0.009	-0.099
			30:COM1	-	30:COM1	22:COM9	22:COM9	30:COM1
	6247	-ve	10.118	0.000	0.003	0.078	0.007	6.567
			20:COM7	-	20:COM7	28:COM1	20:COM7	35:CVOL4
			-9.174	-6.314	-0.003	-0.092	-0.007	0.000
			30:COM1	35:CVOL4	30:COM1	22:COM9	30:COM1	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
13496	6245	+ve	0.578	6.406	0.004	0.100	0.023	12.020
			28:COM15	20:COM7	28:COM15	20:COM7	20:COM7	20:COM7
			-2.026	0.000	-0.008	-0.103	-0.011	-6.118
			22:COM9	-	22:COM9	30:COM17	30:COM17	30:COM17
	6248	-ve	0.578	0.000	0.004	0.100	0.012	6.574
			28:COM15	-	28:COM15	20:COM7	28:COM15	16:COM3
			-2.026	-6.786	-0.008	-0.103	-0.023	0.000
			22:COM9	22:COM9	22:COM9	30:COM17	22:COM9	-
13497	6240	+ve	1.992	7.750	0.007	0.086	0.024	14.132
			28:COM15	20:COM7	28:COM15	16:COM3	20:COM7	20:COM7
			-3.421	0.000	-0.009	-0.067	-0.019	-5.565
			22:COM9	-	22:COM9	26:COM13	30:COM17	30:COM17
	6249	-ve	1.992	0.000	0.007	0.086	0.020	5.433
			28:COM15	-	28:COM15	16:COM3	28:COM15	16:COM3
			-3.421	-7.351	-0.009	-0.067	-0.024	0.000
			22:COM9	22:COM9	22:COM9	26:COM13	22:COM9	-
13498	6239	+ve	3.793	8.960	0.013	0.104	0.035	17.542
			28:COM15	20:COM7	24:COM11	16:COM3	16:COM3	20:COM7
			-5.679	-0.068	-0.014	-0.049	-0.033	-7.790
			22:COM9	30:COM17	18:COM5	26:COM13	26:COM13	30:COM17
	6250	-ve	3.793	0.554	0.013	0.104	0.030	8.038
			28:COM15	28:COM15	24:COM11	16:COM3	24:COM11	20:COM7
			-5.679	-8.047	-0.014	-0.049	-0.032	-1.605
			22:COM9	22:COM9	18:COM5	26:COM13	18:COM5	30:COM17
13499	6239	+ve	15.990	2.008	4.038	1.715	2.428	47.675
			28:COM15	28:COM15	20:COM7	24:COM11	28:COM15	16:COM3
			-18.416	-48.589	-3.479	-6.868	-2.976	-36.611
			22:COM9	22:COM9	30:COM17	18:COM5	22:COM9	26:COM13
	5369	-ve	15.990	0.137	4.038	1.715	4.601	129.287
			28:COM15	28:COM15	20:COM7	24:COM11	20:COM7	16:COM3
			-18.416	-51.083	-3.479	-6.868	-4.142	-30.332
			22:COM9	22:COM9	30:COM17	18:COM5	30:COM17	26:COM13
13500	6240	+ve	13.542	3.264	1.024	5.179	0.599	8.687
			28:COM15	24:COM11	16:COM3	24:COM11	28:COM15	24:COM11
			-16.701	-26.329	-0.734	-9.974	-0.810	-49.578
			22:COM9	18:COM5	26:COM13	18:COM5	22:COM9	18:COM5
	6239	-ve	13.542	1.033	1.024	5.179	1.647	51.212
			28:COM15	24:COM11	16:COM3	24:COM11	16:COM3	16:COM3
			-16.701	-29.304	-0.734	-9.974	-1.235	-36.942
			22:COM9	18:COM5	26:COM13	18:COM5	26:COM13	26:COM13
13501	6245	+ve	12.987	9.805	1.092	7.296	2.591	0.000
			28:COM15	24:COM11	24:COM11	24:COM11	16:COM3	-
			-17.407	-9.910	-1.990	-9.275	-1.371	-41.316
			22:COM9	18:COM5	18:COM5	18:COM5	26:COM13	22:COM9
	6240	-ve	12.987	7.564	1.092	7.296	1.173	9.615
			28:COM15	24:COM11	24:COM11	24:COM11	28:COM15	24:COM11
			-17.407	-12.898	-1.990	-9.275	-1.893	-48.023
			22:COM9	18:COM5	18:COM5	18:COM5	22:COM9	18:COM5

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
13502	6241	+ve	11.790	26.471	1.545	5.490	1.375	26.553
			28:COM15	16:COM3	24:COM11	24:COM11	24:COM11	16:COM3
			-17.936	-4.201	-1.725	-6.921	-1.732	-26.036
			22:COM9	26:COM13	18:COM5	18:COM5	18:COM5	26:COM13
	6245	-ve	11.790	23.459	1.545	5.490	1.775	0.000
			28:COM15	16:COM3	24:COM11	24:COM11	24:COM11	-
			-17.936	-6.460	-1.725	-6.921	-2.522	-37.090
			22:COM9	26:COM13	18:COM5	18:COM5	18:COM5	22:COM9
13504	5369	+ve	22.751	73.189	2.894	12.671	3.061	174.631
			28:COM15	20:COM7	20:COM7	16:COM3	28:COM15	20:COM7
			-23.517	-48.001	-2.246	-8.149	-3.637	-110.600
			22:COM9	30:COM17	30:COM17	26:COM13	22:COM9	30:COM17
	6242	-ve	22.751	70.096	2.894	12.671	2.850	19.297
			28:COM15	20:COM7	20:COM7	16:COM3	20:COM7	16:COM3
			-23.517	-50.321	-2.246	-8.149	-1.979	-5.503
			22:COM9	30:COM17	30:COM17	26:COM13	30:COM17	26:COM13
13505	6242	+ve	6.354	6.069	0.025	0.457	0.043	6.240
			28:COM15	16:COM3	20:COM7	28:COM15	28:COM15	20:COM7
			-7.085	0.000	-0.023	-0.455	-0.046	-4.738
			22:COM9	-	30:COM17	22:COM9	22:COM9	30:COM17
	6251	-ve	6.354	0.000	0.025	0.457	0.048	4.721
			28:COM15	-	20:COM7	28:COM15	20:COM7	16:COM3
			-7.085	-6.550	-0.023	-0.455	-0.044	-1.595
			22:COM9	18:COM5	30:COM17	22:COM9	30:COM17	26:COM13
13508	6242	+ve	10.913	60.758	3.599	18.645	2.025	20.277
			24:COM11	20:COM7	20:COM7	16:COM3	28:COM15	16:COM3
			-14.908	-54.760	-2.723	-9.753	-2.646	-7.051
			18:COM5	30:COM17	30:COM17	26:COM13	22:COM9	26:COM13
	6244	-ve	10.913	58.805	3.599	18.645	2.530	77.521
			24:COM11	20:COM7	20:COM7	16:COM3	20:COM7	20:COM7
			-14.908	-56.226	-2.723	-9.753	-1.914	-70.350
			18:COM5	30:COM17	30:COM17	26:COM13	30:COM17	30:COM17
13526	90	+ve	23.826	25.932	0.931	5.979	0.756	54.837
			16:COM3	20:COM7	16:COM3	28:COM15	24:COM11	20:COM7
			-23.050	0.000	-0.581	-5.464	-1.145	0.000
			26:COM13	-	26:COM13	22:COM9	18:COM5	-
	6094	-ve	23.826	23.669	0.931	5.979	0.938	2.966
			16:COM3	20:COM7	16:COM3	28:COM15	20:COM7	24:COM11
			-23.050	0.000	-0.581	-5.464	-0.563	-6.093
			26:COM13	-	26:COM13	22:COM9	30:COM17	18:COM5
13527	74	+ve	59.258	37.729	0.612	1.333	0.539	50.523
			16:COM3	28:COM15	16:COM3	16:COM3	16:COM3	28:COM15
			-48.839	-55.572	-0.543	-1.201	-0.417	-82.488
			26:COM13	22:COM9	26:COM13	26:COM13	26:COM13	22:COM9
	5367	-ve	59.258	33.345	0.612	1.333	1.281	79.613
			16:COM3	28:COM15	16:COM3	16:COM3	16:COM3	20:COM7
			-48.839	-63.595	-0.543	-1.201	-0.973	-46.160
			26:COM13	22:COM9	26:COM13	26:COM13	26:COM13	30:COM17

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
13529	5367	+ve	6.556	33.553	8.162	3.583	3.213	54.771
			16:COM3	20:COM7	16:COM3	20:COM7	24:COM11	20:COM7
			-0.984	-9.088	-3.897	-3.523	-7.217	-19.584
			26:COM13	30:COM17	26:COM13	30:COM17	18:COM5	30:COM17
	6103	-ve	6.556	31.760	8.162	3.583	6.890	4.449
			16:COM3	20:COM7	16:COM3	20:COM7	16:COM3	24:COM17
			-0.984	-10.434	-3.897	-3.523	-3.524	-8.832
			26:COM13	30:COM17	26:COM13	30:COM17	26:COM13	18:COM5
13530	6094	+ve	0.000	3.153	0.018	0.100	0.044	2.182
			-	20:COM7	24:COM11	28:COM15	16:COM3	20:COM7
			-0.419	0.000	-0.019	-0.157	-0.040	-1.985
			26:COM13	-	18:COM5	22:COM9	26:COM13	30:COM17
	6097	-ve	0.000	0.000	0.018	0.100	0.036	12.774
			-	-	24:COM11	28:COM15	24:COM11	35:CVOL4
			-0.419	-8.922	-0.019	-0.157	-0.039	0.000
			26:COM13	35:CVOL4	18:COM5	22:COM9	18:COM5	-
13531	6095	+ve	1.967	1.844	0.024	0.033	0.061	1.384
			20:COM7	20:COM7	24:COM11	28:COM15	16:COM3	20:COM7
			-1.246	0.000	-0.031	-0.109	-0.047	-2.246
			30:COM17	-	18:COM5	22:COM9	26:COM13	30:COM17
	6098	-ve	1.967	0.000	0.024	0.033	0.044	14.001
			20:COM7	-	24:COM11	28:COM15	24:COM11	35:CVOL4
			-1.246	-9.112	-0.031	-0.109	-0.055	0.000
			30:COM17	35:CVOL4	18:COM5	22:COM9	18:COM5	-
13532	6093	+ve	0.854	2.095	0.032	0.032	0.060	3.528
			20:COM7	20:COM7	16:COM3	28:COM15	16:COM3	20:COM7
			-1.534	0.000	-0.034	-0.065	-0.056	-0.773
			30:COM17	-	26:COM13	22:COM9	26:COM13	30:COM17
	6099	-ve	0.854	0.000	0.032	0.032	0.053	12.709
			20:COM7	-	16:COM3	28:COM15	16:COM3	35:CVOL4
			-1.534	-7.769	-0.034	-0.065	-0.054	0.000
			30:COM17	35:CVOL4	26:COM13	22:COM9	26:COM13	-
13533	6092	+ve	1.744	4.286	0.033	0.126	0.056	7.007
			24:COM17	20:COM7	24:COM11	20:COM7	16:COM3	20:COM7
			-3.386	-1.498	-0.039	-0.082	-0.050	-2.160
			18:COM5	30:COM17	18:COM5	30:COM17	26:COM13	30:COM17
	6100	-ve	1.744	0.114	0.033	0.126	0.046	11.195
			24:COM17	28:COM15	24:COM11	20:COM7	24:COM11	20:COM7
			-3.386	-7.460	-0.039	-0.082	-0.057	0.000
			18:COM5	22:COM9	18:COM5	30:COM17	18:COM5	-
13535	6092	+ve	12.227	0.000	1.956	3.126	1.258	7.043
			16:COM3	-	16:COM3	16:COM3	28:COM15	16:COM3
			-9.587	-25.120	-1.246	-0.912	-1.645	-2.633
			26:COM13	22:COM9	26:COM13	26:COM13	22:COM9	26:COM13
	5367	-ve	12.227	0.000	1.956	3.126	1.915	50.249
			16:COM3	-	16:COM3	16:COM3	16:COM3	20:COM7
			-9.587	-26.991	-1.246	-0.912	-1.022	0.000
			26:COM13	22:COM9	26:COM13	26:COM13	26:COM13	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
13536	6093	+ve	17.534	0.000	1.417	1.949	0.444	0.000
			16:COM3	-	16:COM3	24:COM1	24:COM1	-
			-15.830	-11.073	-0.669	-2.502	-1.100	-21.629
			26:COM1	22:COM9	26:COM1	18:COM5	18:COM5	22:COM9
	6092	-ve	17.534	0.000	1.417	1.949	1.962	8.719
			16:COM3	-	16:COM3	24:COM1	16:COM3	16:COM3
			-15.830	-13.304	-0.669	-2.502	-1.010	-2.098
			26:COM1	22:COM9	26:COM1	18:COM5	26:COM1	26:COM1
13537	6095	+ve	18.634	2.388	0.329	1.443	1.729	0.000
			16:COM3	20:COM7	24:COM1	24:COM1	16:COM3	-
			-16.941	-0.488	-1.357	-4.057	-0.361	-22.434
			26:COM1	30:COM1	18:COM5	18:COM5	26:COM1	22:COM9
	6093	-ve	18.634	0.423	0.329	1.443	0.352	0.000
			16:COM3	28:COM1	24:COM1	24:COM1	24:COM1	-
			-16.941	-2.444	-1.357	-4.057	-1.202	-20.113
			26:COM1	22:COM9	18:COM5	18:COM5	18:COM5	22:COM9
13538	6094	+ve	20.512	12.280	1.402	11.935	1.434	1.782
			24:COM1	20:COM7	28:COM1	20:COM7	20:COM7	24:COM1
			-22.268	-2.182	-2.355	-2.275	-1.010	-7.239
			18:COM5	30:COM1	22:COM9	30:COM1	30:COM1	18:COM5
	6096	-ve	20.512	10.956	1.402	11.935	0.924	0.000
			24:COM1	20:COM7	28:COM1	20:COM7	24:COM1	-
			-22.268	-3.175	-2.355	-2.275	-1.716	-16.455
			18:COM5	30:COM1	22:COM9	30:COM1	18:COM5	22:COM9
13559	268	+ve	48.027	67.089	12.013	11.169	16.652	165.466
			20:COM7	16:COM3	20:COM7	20:COM7	28:COM1	16:COM3
			-46.254	-20.830	-13.430	-4.794	-15.465	-99.548
			30:COM1	26:COM1	30:COM1	30:COM1	22:COM9	26:COM1
	6145	-ve	48.027	60.181	12.013	11.169	10.816	43.956
			20:COM7	16:COM3	20:COM7	20:COM7	28:COM1	24:COM1
			-46.254	-26.012	-13.430	-4.794	-12.717	-65.636
			30:COM1	26:COM1	30:COM1	30:COM1	22:COM9	18:COM5
13560	252	+ve	48.901	257.779	6.479	23.300	9.223	362.752
			16:COM3	28:COM1	24:COM1	24:COM1	16:COM3	28:COM1
			-36.388	-276.527	-6.514	-23.965	-9.087	-404.249
			26:COM1	22:COM9	18:COM5	18:COM5	26:COM1	22:COM9
	5368	-ve	48.901	251.111	6.479	23.300	8.576	364.200
			16:COM3	28:COM1	24:COM1	24:COM1	16:COM3	20:COM7
			-36.388	-287.595	-6.514	-23.965	-8.538	-330.566
			26:COM1	22:COM9	18:COM5	18:COM5	26:COM1	30:COM1
13562	5368	+ve	143.080	188.620	10.978	10.266	10.022	488.990
			20:COM7	20:COM7	16:COM3	24:COM1	24:COM1	20:COM7
			-77.901	-109.980	-9.500	-9.958	-10.682	-267.312
			30:COM1	30:COM1	26:COM1	18:COM5	18:COM5	30:COM1
	6147	-ve	143.080	181.533	10.978	10.266	13.875	77.057
			20:COM7	20:COM7	16:COM3	24:COM1	16:COM3	20:COM7
			-77.901	-115.295	-9.500	-9.958	-11.234	-17.251
			30:COM1	30:COM1	26:COM1	18:COM5	26:COM1	30:COM1

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
13563	6145	+ve	3.332	7.919	0.008	0.016	0.025	9.618
			28:COM15	34:CVOL3	28:COM15	28:COM15	20:COM7	20:COM7
			-13.402	0.000	-0.007	-0.022	-0.021	0.000
			22:COM9	-	22:COM9	22:COM9	30:COM17	-
	6176	-ve	3.332	0.000	0.008	0.016	0.027	8.241
			28:COM15	-	28:COM15	28:COM15	20:COM7	20:COM7
			-13.402	-7.798	-0.007	-0.022	-0.020	0.000
			22:COM9	35:CVOL4	22:COM9	22:COM9	30:COM17	-
13564	6144	+ve	2.154	7.404	0.010	0.034	0.044	9.213
			28:COM15	34:CVOL3	28:COM15	20:COM7	20:COM7	20:COM7
			-8.148	0.000	-0.015	-0.031	-0.027	0.000
			22:COM9	-	22:COM9	30:COM17	30:COM17	-
	6177	-ve	2.154	0.000	0.010	0.034	0.032	7.403
			28:COM15	-	28:COM15	20:COM7	28:COM15	20:COM7
			-8.148	-7.052	-0.015	-0.031	-0.042	0.000
			22:COM9	35:CVOL4	22:COM9	30:COM17	22:COM9	-
13565	6143	+ve	0.383	7.012	0.014	0.063	0.048	8.633
			28:COM15	20:COM7	28:COM15	20:COM7	20:COM7	20:COM7
			-5.313	0.000	-0.019	-0.039	-0.034	0.000
			22:COM9	-	22:COM9	30:COM17	30:COM17	-
	6178	-ve	0.383	0.000	0.014	0.063	0.037	6.748
			28:COM15	-	28:COM15	20:COM7	28:COM15	20:COM7
			-5.313	-6.597	-0.019	-0.039	-0.053	0.000
			22:COM9	22:COM9	22:COM9	30:COM17	22:COM9	-
13566	6142	+ve	0.000	6.489	0.010	0.104	0.036	7.360
			-	20:COM7	28:COM15	20:COM7	20:COM7	20:COM7
			-4.197	0.000	-0.017	-0.058	-0.022	0.000
			22:COM9	-	22:COM9	30:COM17	30:COM17	-
	6179	-ve	0.000	0.000	0.010	0.104	0.024	5.976
			-	-	28:COM15	20:COM7	28:COM15	20:COM7
			-4.197	-6.130	-0.017	-0.058	-0.047	0.000
			22:COM9	22:COM9	22:COM9	30:COM17	22:COM9	-
13567	6147	+ve	5.600	4.930	0.049	0.207	0.072	4.211
			16:COM3	16:COM3	20:COM7	20:COM7	28:COM15	16:COM3
			-3.996	0.000	-0.038	-0.154	-0.094	-0.465
			26:COM13	-	30:COM17	30:COM17	22:COM9	26:COM13
	6183	-ve	5.600	0.000	0.049	0.207	0.091	4.072
			16:COM3	-	20:COM7	20:COM7	20:COM7	16:COM3
			-3.996	-5.251	-0.038	-0.154	-0.070	0.000
			26:COM13	18:COM5	30:COM17	30:COM17	30:COM17	-
13569	6142	+ve	159.582	5.328	3.451	4.777	4.813	185.805
			20:COM7	24:COM11	24:COM11	16:COM3	20:COM7	20:COM7
			-83.690	-88.933	-6.403	-6.316	-2.565	-118.019
			30:COM17	18:COM5	18:COM5	26:COM13	30:COM17	30:COM17
	5368	-ve	159.582	1.041	3.451	4.777	4.407	345.491
			20:COM7	24:COM11	24:COM11	16:COM3	24:COM11	20:COM7
			-83.690	-94.649	-6.403	-6.316	-7.479	-118.001
			30:COM17	18:COM5	18:COM5	26:COM13	18:COM5	30:COM17

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
13570	6143	+ve	105.363	16.727	5.031	5.979	5.969	88.398
			20:COM7	24:COM11	24:COM11	16:COM3	16:COM3	28:COM15
			-79.506	-68.854	-5.241	-6.702	-5.648	-107.525
			30:COM17	18:COM5	18:COM5	26:COM13	26:COM13	22:COM9
	6142	-ve	105.363	11.615	5.031	5.979	5.244	226.600
			20:COM7	24:COM11	24:COM11	16:COM3	24:COM11	20:COM7
			-79.506	-75.670	-5.241	-6.702	-5.374	-120.887
			30:COM17	18:COM5	18:COM5	26:COM13	18:COM5	30:COM17
13571	6144	+ve	63.182	29.335	6.708	3.667	9.771	38.783
			28:COM15	24:COM11	24:COM11	24:COM17	16:COM3	28:COM15
			-69.581	-47.977	-7.704	-6.019	-7.945	-84.793
			22:COM9	18:COM5	18:COM5	18:COM5	26:COM13	22:COM9
	6143	-ve	63.182	24.192	6.708	3.667	6.560	117.925
			28:COM15	24:COM11	24:COM11	24:COM17	24:COM11	20:COM7
			-69.581	-54.834	-7.704	-6.019	-6.887	-110.660
			22:COM9	18:COM5	18:COM5	18:COM5	18:COM5	30:COM17
13572	6145	+ve	45.967	46.400	4.810	3.503	5.078	61.186
			28:COM15	16:COM3	16:COM3	24:COM17	24:COM11	24:COM17
			-59.296	-30.097	-4.974	-5.540	-5.562	-75.601
			22:COM9	26:COM13	26:COM13	18:COM5	18:COM5	18:COM5
	6144	-ve	45.967	39.508	4.810	3.503	4.912	53.979
			28:COM15	16:COM3	16:COM3	24:COM17	16:COM3	28:COM15
			-59.296	-35.266	-4.974	-5.540	-5.752	-90.719
			22:COM9	26:COM13	26:COM13	18:COM5	26:COM13	22:COM9
13594	1655	+ve	14.836	47.350	3.280	23.517	2.763	130.191
			24:COM17	16:COM3	20:COM7	20:COM7	28:COM15	16:COM3
			-22.662	-8.037	-2.319	-12.170	-3.680	-46.226
			18:COM5	26:COM13	30:COM17	30:COM17	22:COM9	26:COM13
	6260	-ve	14.836	44.838	3.280	23.517	3.465	30.881
			24:COM17	16:COM3	20:COM7	20:COM7	20:COM7	16:COM3
			-22.662	-9.921	-2.319	-12.170	-2.288	-27.764
			18:COM5	26:COM13	30:COM17	30:COM17	30:COM17	26:COM13
13595	1645	+ve	58.284	494.133	4.145	35.081	5.567	642.892
			20:COM7	28:COM15	24:COM11	20:COM7	16:COM3	28:COM15
			-47.947	-548.431	-4.042	-23.843	-3.578	-726.593
			30:COM17	22:COM9	18:COM5	30:COM17	26:COM13	22:COM9
	5417	-ve	58.284	484.454	4.145	35.081	8.155	785.213
			20:COM7	28:COM15	24:COM11	20:COM7	16:COM3	20:COM7
			-47.947	-562.969	-4.042	-23.843	-5.887	-688.253
			30:COM17	22:COM9	18:COM5	30:COM17	26:COM13	30:COM17
13596	6260	+ve	7.980	6.393	0.000	0.035	0.014	8.066
			28:COM15	34:CVOL3	-	24:COM17	20:COM7	20:COM7
			-11.052	0.000	-0.004	-0.238	0.000	-0.088
			22:COM9	-	22:COM9	18:COM5	-	30:COM17
	2377	-ve	7.980	0.000	0.000	0.035	0.000	7.490
			28:COM15	-	-	24:COM17	-	35:CVOL4
			-11.052	-6.950	-0.004	-0.238	-0.011	0.000
			22:COM9	35:CVOL4	22:COM9	18:COM5	22:COM9	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
13598	6258	+ve	6.881	6.372	0.012	0.364	0.026	17.733
			28:COM15	20:COM7	24:COM11	20:COM7	16:COM3	20:COM7
			-9.198	0.000	-0.019	-0.180	-0.013	-0.833
			22:COM9	-	18:COM5	30:COM17	26:COM13	30:COM17
	6255	-ve	6.881	0.000	0.012	0.364	0.031	15.611
			28:COM15	-	24:COM11	20:COM7	24:COM11	16:COM3
			-9.198	-4.826	-0.019	-0.180	-0.042	-2.042
			22:COM9	22:COM9	18:COM5	30:COM17	18:COM5	26:COM13
13599	6258	+ve	15.215	1.520	1.763	2.355	1.449	0.000
			24:COM17	24:COM11	24:COM11	24:COM17	16:COM3	-
			-24.784	-21.131	-1.856	-9.305	-1.268	-47.211
			18:COM5	18:COM5	18:COM5	18:COM5	26:COM13	18:COM5
	6257	-ve	15.215	0.000	1.763	2.355	2.367	27.702
			24:COM17	-	24:COM11	24:COM17	24:COM11	24:COM17
			-24.784	-23.504	-1.856	-9.305	-2.377	-31.797
			18:COM5	18:COM5	18:COM5	18:COM5	18:COM5	18:COM5
13600	6259	+ve	23.639	8.838	0.046	5.161	1.809	0.000
			24:COM17	16:COM3	24:COM11	24:COM17	16:COM3	-
			-34.777	-8.452	-1.853	-6.367	0.000	-43.513
			18:COM5	26:COM13	18:COM5	18:COM5	-	22:COM9
	6258	-ve	23.639	7.100	0.046	5.161	0.223	0.000
			24:COM17	24:COM11	24:COM11	24:COM17	24:COM11	-
			-34.777	-10.355	-1.853	-6.367	-1.574	-47.904
			18:COM5	18:COM5	18:COM5	18:COM5	18:COM5	18:COM5
13601	6260	+ve	16.503	27.109	0.494	4.452	1.410	26.256
			24:COM17	16:COM3	28:COM15	16:COM3	20:COM7	16:COM3
			-26.974	-1.681	-1.067	-2.398	-1.056	-23.926
			18:COM5	26:COM13	22:COM9	26:COM13	30:COM17	26:COM13
	6259	-ve	16.503	24.603	0.494	4.452	0.116	0.000
			24:COM17	16:COM3	28:COM15	16:COM3	24:COM11	-
			-26.974	-3.560	-1.067	-2.398	-1.006	-39.767
			18:COM5	26:COM13	22:COM9	26:COM13	18:COM5	22:COM9
13619	5417	+ve	4.602	61.366	3.638	9.417	2.548	136.099
			24:COM17	20:COM7	16:COM3	16:COM3	28:COM15	20:COM7
			-10.144	-41.800	-3.016	-4.422	-2.909	-82.786
			18:COM5	30:COM17	26:COM13	26:COM13	22:COM9	30:COM17
	6253	-ve	4.602	59.566	3.638	9.417	2.783	48.139
			24:COM17	20:COM7	16:COM3	16:COM3	16:COM3	16:COM3
			-10.144	-43.150	-3.016	-4.422	-2.172	-22.906
			18:COM5	30:COM17	26:COM13	26:COM13	26:COM13	26:COM13
13625	2412	+ve	27.518	50.237	1.290	26.102	1.914	135.535
			28:COM15	16:COM3	16:COM3	20:COM7	24:COM11	16:COM3
			-27.723	-12.847	-1.268	-18.797	-1.916	-59.023
			22:COM9	26:COM13	26:COM13	30:COM17	18:COM5	26:COM13
	5660	-ve	27.518	47.254	1.290	26.102	1.021	31.932
			28:COM15	16:COM3	16:COM3	20:COM7	16:COM3	16:COM3
			-27.723	-15.084	-1.268	-18.797	-0.977	-30.386
			22:COM9	26:COM13	26:COM13	30:COM17	26:COM13	26:COM13

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
13626	2402	+ve	422.408	445.343	27.144	36.095	21.126	680.346
			20:COM7	28:COM15	20:COM7	20:COM7	28:COM15	28:COM15
			-372.402	-521.912	-23.804	-28.540	-23.765	-808.201
			30:COM17	22:COM9	30:COM17	30:COM17	22:COM9	22:COM9
	5370	-ve	422.408	436.841	27.144	36.095	50.153	629.085
			20:COM7	28:COM15	20:COM7	20:COM7	20:COM7	20:COM7
			-372.402	-534.337	-23.804	-28.540	-43.704	-520.167
			30:COM17	22:COM9	30:COM17	30:COM17	30:COM17	30:COM17
13628	5370	+ve	21.568	73.301	30.884	11.769	25.584	161.942
			28:COM15	20:COM7	20:COM7	16:COM3	28:COM15	20:COM7
			-29.431	-42.801	-27.165	-8.524	-28.901	-88.655
			22:COM9	30:COM17	30:COM17	26:COM13	22:COM9	30:COM17
	6163	-ve	21.568	71.141	30.884	11.769	19.306	50.646
			28:COM15	20:COM7	20:COM7	16:COM3	20:COM7	16:COM3
			-29.431	-44.421	-27.165	-8.524	-16.819	-22.013
			22:COM9	30:COM17	30:COM17	26:COM13	30:COM17	26:COM13
13629	5660	+ve	0.326	7.194	0.012	0.154	0.029	14.301
			28:COM15	20:COM7	20:COM7	28:COM15	28:COM15	20:COM7
			-1.798	0.000	-0.010	-0.185	-0.034	-8.379
			22:COM9	-	30:COM17	22:COM9	22:COM9	30:COM17
	6167	-ve	0.326	0.000	0.012	0.154	0.039	8.461
			28:COM15	-	20:COM7	28:COM15	20:COM7	20:COM7
			-1.798	-8.363	-0.010	-0.185	-0.031	0.000
			22:COM9	22:COM9	30:COM17	22:COM9	30:COM17	-
13630	6157	+ve	1.801	6.951	0.028	0.109	0.071	13.354
			28:COM15	20:COM7	20:COM7	20:COM7	28:COM15	20:COM7
			-2.402	0.000	-0.025	-0.107	-0.079	-5.654
			22:COM9	-	30:COM17	30:COM17	22:COM9	30:COM17
	6168	-ve	1.801	0.000	0.028	0.109	0.081	7.192
			28:COM15	-	20:COM7	20:COM7	20:COM7	20:COM7
			-2.402	-6.953	-0.025	-0.107	-0.070	0.000
			22:COM9	22:COM9	30:COM17	30:COM17	30:COM17	-
13631	6156	+ve	4.627	7.538	0.033	0.100	0.069	15.476
			28:COM15	20:COM7	20:COM7	16:COM3	28:COM15	20:COM7
			-5.126	0.000	-0.027	-0.072	-0.086	-6.385
			22:COM9	-	30:COM17	26:COM13	22:COM9	30:COM17
	6169	-ve	4.627	0.000	0.033	0.100	0.088	4.633
			28:COM15	-	20:COM7	16:COM3	20:COM7	16:COM3
			-5.126	-6.798	-0.027	-0.072	-0.070	0.000
			22:COM9	22:COM9	30:COM17	26:COM13	30:COM17	-
13632	6155	+ve	5.480	9.048	0.027	0.126	0.051	19.965
			28:COM15	20:COM7	20:COM7	16:COM3	28:COM15	20:COM7
			-7.159	-0.347	-0.021	-0.059	-0.065	-9.441
			22:COM9	30:COM17	30:COM17	26:COM13	22:COM9	30:COM17
	6170	-ve	5.480	1.086	0.027	0.126	0.064	7.396
			28:COM15	28:COM15	20:COM7	16:COM3	20:COM7	20:COM7
			-7.159	-7.820	-0.021	-0.059	-0.050	-1.538
			22:COM9	22:COM9	30:COM17	26:COM13	30:COM17	30:COM17

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
13633	6165	+ve	11.237	6.620	0.061	0.401	0.132	8.627
			20:COM7	20:COM7	28:COM15	20:COM7	20:COM7	20:COM7
			-10.862	-1.706	-0.063	-0.357	-0.126	-8.914
			30:COM17	30:COM17	22:COM9	30:COM17	30:COM17	30:COM17
	6171	-ve	11.237	0.757	0.061	0.401	0.102	6.926
			20:COM7	28:COM15	28:COM15	20:COM7	28:COM15	20:COM7
			-10.862	-8.001	-0.063	-0.357	-0.103	-2.857
			30:COM17	22:COM9	22:COM9	30:COM17	22:COM9	30:COM17
13635	6155	+ve	35.403	4.400	17.287	2.808	17.487	43.153
			16:COM3	28:COM15	28:COM15	24:COM17	20:COM7	16:COM3
			-35.264	-50.562	-21.212	-9.610	-14.465	-30.942
			26:COM13	22:COM9	22:COM9	18:COM5	30:COM17	26:COM13
	5370	-ve	35.403	2.529	17.287	2.808	16.699	124.934
			16:COM3	28:COM15	28:COM15	24:COM17	28:COM15	16:COM3
			-35.264	-53.057	-21.212	-9.610	-20.751	-25.586
			26:COM13	22:COM9	22:COM9	18:COM5	22:COM9	26:COM13
13636	6156	+ve	28.571	3.285	2.070	5.603	1.711	4.802
			28:COM15	28:COM15	28:COM15	24:COM17	20:COM7	24:COM17
			-29.476	-26.385	-2.574	-11.219	-1.281	-44.546
			22:COM9	22:COM9	22:COM9	18:COM5	30:COM17	18:COM5
	6155	-ve	28.571	1.054	2.070	5.603	3.183	47.380
			28:COM15	28:COM15	28:COM15	24:COM17	28:COM15	16:COM3
			-29.476	-29.359	-2.574	-11.219	-3.837	-31.887
			22:COM9	22:COM9	22:COM9	18:COM5	22:COM9	26:COM13
13637	6157	+ve	26.193	8.836	2.732	7.352	4.002	0.000
			28:COM15	24:COM11	28:COM15	24:COM17	20:COM7	-
			-28.123	-9.538	-3.342	-9.690	-3.093	-40.713
			22:COM9	18:COM5	22:COM9	18:COM5	30:COM17	22:COM9
	6156	-ve	26.193	6.592	2.732	7.352	2.824	5.571
			28:COM15	24:COM11	28:COM15	24:COM17	28:COM15	24:COM17
			-28.123	-12.530	-3.342	-9.690	-3.235	-42.748
			22:COM9	18:COM5	22:COM9	18:COM5	22:COM9	18:COM5
13638	5660	+ve	26.567	25.315	0.582	4.459	1.312	26.523
			24:COM17	16:COM3	24:COM11	24:COM17	20:COM7	16:COM3
			-30.052	-2.880	-1.724	-6.481	0.000	-25.087
			18:COM5	26:COM13	18:COM5	18:COM5	-	26:COM13
	6157	-ve	26.567	22.268	0.582	4.459	1.857	0.000
			24:COM17	16:COM3	24:COM11	24:COM17	28:COM15	-
			-30.052	-5.165	-1.724	-6.481	-3.042	-36.304
			18:COM5	26:COM13	18:COM5	18:COM5	22:COM9	22:COM9
13640	6163	+ve	29.052	63.655	5.895	18.169	3.252	51.247
			28:COM15	20:COM7	20:COM7	16:COM3	24:COM11	16:COM3
			-38.830	-44.320	-5.048	-10.808	-3.435	-23.623
			22:COM9	30:COM17	30:COM17	26:COM13	18:COM5	26:COM13
	6165	-ve	29.052	62.494	5.895	18.169	2.228	18.683
			28:COM15	20:COM7	20:COM7	16:COM3	20:COM7	20:COM7
			-38.830	-45.191	-5.048	-10.808	-1.700	-6.430
			22:COM9	30:COM17	30:COM17	26:COM13	30:COM17	30:COM17

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
13661	5463	+ve	304.812	17.675	0.423	7.959	13.682	21.426
			16:COM3	24:COM11	28:COM15	20:COM7	16:COM3	24:COM11
			-226.611	-25.177	-3.184	-10.064	-6.790	-33.411
			26:COM13	18:COM5	22:COM9	30:COM17	26:COM13	18:COM5
	6337	-ve	304.812	15.443	0.423	7.959	11.103	12.518
			16:COM3	24:COM11	28:COM15	20:COM7	16:COM3	16:COM3
			-226.611	-28.153	-3.184	-10.064	-8.961	-7.116
			26:COM13	18:COM5	22:COM9	30:COM17	26:COM13	26:COM13
13662	5464	+ve	43.214	17.336	2.825	9.249	1.589	36.155
			16:COM3	16:COM3	16:COM3	20:COM7	24:COM11	16:COM3
			-33.537	0.000	-1.491	-7.785	-3.272	-0.275
			26:COM13	-	26:COM13	30:COM17	18:COM5	26:COM13
	6116	-ve	43.214	15.981	2.825	9.249	2.284	4.914
			16:COM3	16:COM3	16:COM3	20:COM7	16:COM3	24:COM11
			-33.537	0.000	-1.491	-7.785	-1.357	-9.280
			26:COM13	-	26:COM13	30:COM17	26:COM13	18:COM5
13663	5465	+ve	69.950	49.982	3.775	7.523	2.193	158.624
			34:CVOL3	34:CVOL3	28:COM15	16:COM3	24:COM11	34:CVOL3
			0.000	0.000	-3.828	0.000	-5.198	0.000
			-	-	22:COM9	-	18:COM5	-
	1563	-ve	69.950	47.382	3.775	7.523	1.281	78.784
			34:CVOL3	34:CVOL3	28:COM15	16:COM3	28:COM15	34:CVOL3
			0.000	0.000	-3.828	0.000	-4.372	0.000
			-	-	22:COM9	-	22:COM9	-
13664	5466	+ve	0.894	40.516	4.483	4.691	1.333	127.602
			20:COM7	34:CVOL3	16:COM3	16:COM3	24:COM11	34:CVOL3
			-0.504	0.000	-1.374	-2.085	-4.317	0.000
			30:COM17	-	26:COM13	26:COM13	18:COM5	-
	1980	-ve	0.894	38.624	4.483	4.691	3.039	62.706
			20:COM7	34:CVOL3	16:COM3	16:COM3	16:COM3	34:CVOL3
			-0.504	0.000	-1.374	-2.085	-0.926	0.000
			30:COM17	-	26:COM13	26:COM13	26:COM13	-
13665	5467	+ve	1.736	34.876	2.638	4.638	0.677	111.347
			24:COM11	34:CVOL3	20:COM7	16:COM3	28:COM15	34:CVOL3
			-1.953	0.000	-0.767	-1.977	-2.405	0.000
			18:COM5	-	30:COM17	26:COM13	22:COM9	-
	2345	-ve	1.736	32.984	2.638	4.638	1.924	55.701
			24:COM11	34:CVOL3	20:COM7	16:COM3	20:COM7	34:CVOL3
			-1.953	0.000	-0.767	-1.977	-0.582	0.000
			18:COM5	-	30:COM17	26:COM13	30:COM17	-
13666	5468	+ve	3.426	35.261	2.852	4.701	0.976	112.435
			28:COM15	34:CVOL3	20:COM7	16:COM3	28:COM15	34:CVOL3
			-5.003	0.000	-0.962	-2.167	-2.762	0.000
			22:COM9	-	30:COM17	26:COM13	22:COM9	-
	2737	-ve	3.426	33.370	2.852	4.701	1.918	56.156
			28:COM15	34:CVOL3	20:COM7	16:COM3	20:COM7	34:CVOL3
			-5.003	0.000	-0.962	-2.167	-0.605	0.000
			22:COM9	-	30:COM17	26:COM13	30:COM17	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
13667	5469	+ve	3.455	34.650	2.172	4.481	0.695	110.778
			28:COM15	34:CVOL3	20:COM7	16:COM3	28:COM15	34:CVOL3
			-4.535	0.000	-0.707	-2.571	-2.059	0.000
			22:COM9	-	30:COM17	26:COM13	22:COM9	-
	3106	-ve	3.455	32.759	2.172	4.481	1.504	55.501
			28:COM15	34:CVOL3	20:COM7	16:COM3	20:COM7	34:CVOL3
			-4.535	0.000	-0.707	-2.571	-0.465	0.000
			22:COM9	-	30:COM17	26:COM13	30:COM17	-
13668	5470	+ve	2.426	34.627	1.645	4.280	0.294	110.730
			28:COM15	34:CVOL3	20:COM7	16:COM3	28:COM15	34:CVOL3
			-3.212	0.000	-0.300	-2.430	-1.539	0.000
			22:COM9	-	30:COM17	26:COM13	22:COM9	-
	3483	-ve	2.426	32.736	1.645	4.280	1.159	55.491
			28:COM15	34:CVOL3	20:COM7	16:COM3	20:COM7	34:CVOL3
			-3.212	0.000	-0.300	-2.430	-0.199	0.000
			22:COM9	-	30:COM17	26:COM13	30:COM17	-
13669	5471	+ve	2.029	34.607	1.342	4.128	0.035	110.673
			20:COM7	34:CVOL3	16:COM3	16:COM3	28:COM15	34:CVOL3
			-2.466	0.000	-0.053	-2.286	-1.254	0.000
			30:COM17	-	26:COM13	26:COM13	22:COM9	-
	3856	-ve	2.029	32.715	1.342	4.128	0.953	55.468
			20:COM7	34:CVOL3	16:COM3	16:COM3	16:COM3	34:CVOL3
			-2.466	0.000	-0.053	-2.286	-0.057	0.000
			30:COM17	-	26:COM13	26:COM13	26:COM13	-
13670	5472	+ve	2.139	41.084	1.149	4.662	0.124	129.621
			28:COM15	34:CVOL3	16:COM3	16:COM3	24:COM11	34:CVOL3
			-2.723	0.000	-0.135	-2.205	-1.091	0.000
			22:COM9	-	26:COM13	26:COM13	18:COM5	-
	4217	-ve	2.139	39.193	1.149	4.662	0.795	63.793
			28:COM15	34:CVOL3	16:COM3	16:COM3	16:COM3	34:CVOL3
			-2.723	0.000	-0.135	-2.205	-0.098	0.000
			22:COM9	-	26:COM13	26:COM13	26:COM13	-
13671	5473	+ve	1.701	41.774	0.610	4.717	0.086	131.398
			28:COM15	34:CVOL3	20:COM7	16:COM3	28:COM15	34:CVOL3
			-2.503	0.000	-0.060	-2.004	-0.604	0.000
			22:COM9	-	30:COM17	26:COM13	22:COM9	-
	4579	-ve	1.701	39.883	0.610	4.717	0.397	64.438
			28:COM15	34:CVOL3	20:COM7	16:COM3	20:COM7	34:CVOL3
			-2.503	0.000	-0.060	-2.004	-0.014	0.000
			22:COM9	-	30:COM17	26:COM13	30:COM17	-
13672	5474	+ve	1.586	41.831	0.754	4.591	0.364	131.526
			28:COM15	34:CVOL3	20:COM7	16:COM3	28:COM15	34:CVOL3
			-2.562	0.000	-0.346	-1.772	-0.788	0.000
			22:COM9	-	30:COM17	26:COM13	22:COM9	-
	4844	-ve	1.586	39.939	0.754	4.591	0.450	64.472
			28:COM15	34:CVOL3	20:COM7	16:COM3	20:COM7	34:CVOL3
			-2.562	0.000	-0.346	-1.772	-0.204	0.000
			22:COM9	-	30:COM17	26:COM13	30:COM17	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
13673	5475	+ve	3.740	35.858	0.487	3.723	0.608	114.078
			16:COM3	34:CVOL3	28:COM15	16:COM3	20:COM7	34:CVOL3
			-1.461	0.000	-0.590	-1.637	-0.496	0.000
			26:COM13	-	22:COM9	26:COM13	30:COM17	-
	5086	-ve	3.740	33.967	0.487	3.723	0.304	56.820
			16:COM3	34:CVOL3	28:COM15	16:COM3	28:COM15	34:CVOL3
			-1.461	0.000	-0.590	-1.637	-0.360	0.000
			26:COM13	-	22:COM9	26:COM13	22:COM9	-
13674	5476	+ve	19.443	44.074	3.374	3.063	4.575	128.243
			20:COM7	34:CVOL3	16:COM3	16:COM3	16:COM3	34:CVOL3
			0.000	0.000	-1.088	-2.052	0.000	0.000
			-	-	26:COM13	26:COM13	-	-
	5246	-ve	19.443	42.182	3.374	3.063	6.766	57.511
			20:COM7	34:CVOL3	16:COM3	16:COM3	16:COM3	34:CVOL3
			0.000	0.000	-1.088	-2.052	0.000	0.000
			-	-	26:COM13	26:COM13	-	-
13675	5477	+ve	35.709	13.971	1.095	3.187	1.449	18.823
			16:COM3	16:COM3	16:COM3	28:COM15	24:COM11	16:COM3
			-33.761	-3.868	-0.827	-8.931	-1.900	-21.485
			26:COM13	26:COM13	26:COM13	22:COM9	18:COM5	26:COM13
	6336	-ve	35.709	12.261	1.095	3.187	0.216	1.680
			16:COM3	16:COM3	16:COM3	28:COM15	16:COM3	24:COM11
			-33.761	-5.151	-0.827	-8.931	-0.225	-18.520
			26:COM13	26:COM13	26:COM13	22:COM9	26:COM13	18:COM5
13676	5478	+ve	41.719	50.185	2.126	10.678	2.276	100.899
			16:COM3	35:CVOL4	20:COM7	20:COM7	28:COM15	16:COM3
			-30.384	0.000	-2.192	-3.255	-2.184	0.000
			26:COM13	-	30:COM17	30:COM17	22:COM9	-
	6117	-ve	41.719	47.921	2.126	10.678	2.162	12.380
			16:COM3	35:CVOL4	20:COM7	20:COM7	20:COM7	24:COM11
			-30.384	0.000	-2.192	-3.255	-2.202	-19.843
			26:COM13	-	30:COM17	30:COM17	30:COM17	18:COM5
13677	5479	+ve	62.257	56.997	8.456	0.000	0.000	142.915
			20:COM7	20:COM7	16:COM3	-	-	20:COM7
			0.000	0.000	0.000	-17.349	-7.243	0.000
			-	-	-	22:COM9	18:COM5	-
	1565	-ve	62.257	54.218	8.456	0.000	6.619	53.581
			20:COM7	20:COM7	16:COM3	-	20:COM7	20:COM7
			0.000	0.000	0.000	-17.349	0.000	0.000
			-	-	-	22:COM9	-	-
13678	5480	+ve	8.461	48.020	1.787	0.000	2.833	126.017
			16:COM3	20:COM7	28:COM15	-	20:COM7	20:COM7
			-1.976	0.000	-3.348	-9.828	-1.649	0.000
			26:COM13	-	22:COM9	22:COM9	30:COM17	-
	1982	-ve	8.461	45.797	1.787	0.000	1.222	51.140
			16:COM3	20:COM7	28:COM15	-	28:COM15	34:CVOL3
			-1.976	0.000	-3.348	-9.828	-2.548	0.000
			26:COM13	-	22:COM9	22:COM9	22:COM9	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
13679	5481	+ve	10.953	49.783	2.711	0.000	3.018	128.569
			16:COM3	20:COM7	28:COM15	-	20:COM7	20:COM7
			-4.817	0.000	-3.684	-8.758	-2.291	0.000
			26:COM13	-	22:COM9	22:COM9	30:COM17	-
	2347	-ve	10.953	47.560	2.711	0.000	2.068	50.383
			16:COM3	20:COM7	28:COM15	-	28:COM15	20:COM7
			-4.817	0.000	-3.684	-8.758	-2.905	0.000
			26:COM13	-	22:COM9	22:COM9	22:COM9	-
13680	5482	+ve	13.574	50.238	2.736	0.000	2.826	129.385
			20:COM7	20:COM7	28:COM15	-	20:COM7	20:COM7
			-4.375	0.000	-3.361	-9.734	-2.402	0.000
			30:COM17	-	22:COM9	22:COM9	30:COM17	-
	2739	-ve	13.574	48.014	2.736	0.000	1.994	50.474
			20:COM7	20:COM7	28:COM15	-	28:COM15	20:COM7
			-4.375	0.000	-3.361	-9.734	-2.574	0.000
			30:COM17	-	22:COM9	22:COM9	22:COM9	-
13681	5483	+ve	12.745	45.032	2.144	0.000	2.255	117.543
			16:COM3	34:CVOL3	28:COM15	-	20:COM7	34:CVOL3
			-5.596	0.000	-2.629	-5.248	-1.915	0.000
			26:COM13	-	22:COM9	22:COM9	30:COM17	-
	3108	-ve	12.745	42.809	2.144	0.000	1.530	46.981
			16:COM3	34:CVOL3	28:COM15	-	28:COM15	34:CVOL3
			-5.596	0.000	-2.629	-5.248	-1.969	0.000
			26:COM13	-	22:COM9	22:COM9	22:COM9	-
13682	5484	+ve	11.008	45.125	1.202	0.000	1.726	117.749
			16:COM3	34:CVOL3	28:COM15	-	20:COM7	34:CVOL3
			-5.408	0.000	-2.009	-5.551	-1.047	0.000
			26:COM13	-	22:COM9	22:COM9	30:COM17	-
	3485	-ve	11.008	42.902	1.202	0.000	0.888	47.037
			16:COM3	34:CVOL3	28:COM15	-	28:COM15	34:CVOL3
			-5.408	0.000	-2.009	-5.551	-1.505	0.000
			26:COM13	-	22:COM9	22:COM9	22:COM9	-
13683	5485	+ve	10.368	45.220	0.849	0.000	1.415	118.010
			16:COM3	34:CVOL3	28:COM15	-	20:COM7	34:CVOL3
			-5.454	0.000	-1.621	-5.510	-0.727	0.000
			26:COM13	-	22:COM9	22:COM9	30:COM17	-
	3858	-ve	10.368	42.996	0.849	0.000	0.641	47.147
			16:COM3	34:CVOL3	28:COM15	-	28:COM15	34:CVOL3
			-5.454	0.000	-1.621	-5.510	-1.193	0.000
			26:COM13	-	22:COM9	22:COM9	22:COM9	-
13684	5486	+ve	9.985	52.345	1.245	0.000	1.237	136.363
			16:COM3	34:CVOL3	20:COM7	-	28:COM15	34:CVOL3
			-5.623	0.000	-1.471	-7.307	-1.091	0.000
			26:COM13	-	30:COM17	34:CVOL3	22:COM9	-
	4219	-ve	9.985	50.122	1.245	0.000	0.911	54.052
			16:COM3	34:CVOL3	20:COM7	-	20:COM7	34:CVOL3
			-5.623	0.000	-1.471	-7.307	-1.128	0.000
			26:COM13	-	30:COM17	34:CVOL3	30:COM17	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
13685	5487	+ve	8.785	49.594	0.957	0.000	0.953	128.859
			16:COM3	34:CVOL3	28:COM15	-	28:COM15	34:CVOL3
			-5.491	0.000	-1.178	-11.997	-0.908	0.000
			26:COM13	-	22:COM9	34:CVOL3	22:COM9	-
	4581	-ve	8.785	47.370	0.957	0.000	0.643	50.968
			16:COM3	34:CVOL3	28:COM15	-	28:COM15	34:CVOL3
			-5.491	0.000	-1.178	-11.997	-0.953	0.000
			26:COM13	-	22:COM9	34:CVOL3	22:COM9	-
13686	5488	+ve	7.633	48.431	0.834	0.000	1.528	126.581
			16:COM3	34:CVOL3	28:COM15	-	20:COM7	34:CVOL3
			-6.432	0.000	-1.820	-12.905	-0.804	0.000
			26:COM13	-	22:COM9	34:CVOL3	30:COM17	-
	4846	-ve	7.633	46.208	0.834	0.000	0.537	50.558
			16:COM3	34:CVOL3	28:COM15	-	28:COM15	34:CVOL3
			-6.432	0.000	-1.820	-12.905	-1.396	0.000
			26:COM13	-	22:COM9	34:CVOL3	22:COM9	-
13687	5489	+ve	8.739	41.882	1.735	0.000	1.172	109.650
			16:COM3	34:CVOL3	20:COM7	-	28:COM15	34:CVOL3
			-6.308	0.000	-1.174	-9.129	-1.446	0.000
			26:COM13	-	30:COM17	34:CVOL3	22:COM9	-
	5088	-ve	8.739	39.659	1.735	0.000	1.343	44.149
			16:COM3	34:CVOL3	20:COM7	-	20:COM7	34:CVOL3
			-6.308	0.000	-1.174	-9.129	-0.715	0.000
			26:COM13	-	30:COM17	34:CVOL3	30:COM17	-
13688	5490	+ve	56.466	43.666	1.655	0.000	6.590	100.488
			34:CVOL3	34:CVOL3	28:COM15	-	20:COM7	34:CVOL3
			0.000	0.000	-3.626	-9.998	0.000	0.000
			-	-	22:COM9	34:CVOL3	-	-
	5248	-ve	56.466	41.196	1.655	0.000	3.806	32.319
			34:CVOL3	34:CVOL3	28:COM15	-	20:COM7	34:CVOL3
			0.000	0.000	-3.626	-9.998	-0.379	0.000
			-	-	22:COM9	34:CVOL3	30:COM17	-
13704	5494	+ve	58.957	10.514	0.966	1.870	0.915	9.037
			28:COM15	16:COM3	24:COM11	16:COM3	16:COM3	16:COM3
			-81.894	-0.569	-1.238	-1.368	-0.739	-2.320
			22:COM9	26:COM13	18:COM5	26:COM13	26:COM13	26:COM13
	5522	-ve	58.957	3.982	0.966	1.870	1.717	4.142
			28:COM15	24:COM11	24:COM11	16:COM3	24:COM11	24:COM11
			-81.894	-5.439	-1.238	-1.368	-2.220	-8.036
			22:COM9	18:COM5	18:COM5	26:COM13	18:COM5	18:COM5
13706	5496	+ve	18.854	4.702	0.904	0.000	1.103	2.830
			24:COM11	20:COM7	20:COM7	-	28:COM15	16:COM3
			-67.636	0.000	-0.722	-0.781	-1.700	-0.571
			18:COM5	-	30:COM17	18:COM5	22:COM9	26:COM13
	5528	-ve	18.854	0.000	0.904	0.000	0.758	3.095
			24:COM11	-	20:COM7	-	24:COM11	20:COM7
			-67.636	-4.716	-0.722	-0.781	-0.901	-0.897
			18:COM5	22:COM9	30:COM17	18:COM5	18:COM5	30:COM17

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
13707	5497	+ve	0.000	5.551	0.207	0.286	0.071	19.381
			-	16:COM3	16:COM3	16:COM3	24:COM11	16:COM3
			-17.007	0.000	-0.083	-0.271	-0.214	0.000
			18:COM5	-	26:COM13	26:COM13	18:COM5	-
	1568	-ve	0.000	4.200	0.207	0.286	0.126	11.530
			-	16:COM3	16:COM3	16:COM3	16:COM3	34:CVOL3
			-17.007	-0.415	-0.083	-0.271	-0.065	0.000
			18:COM5	26:COM13	26:COM13	26:COM13	26:COM13	-
13708	5498	+ve	11.444	12.774	1.242	2.909	1.245	16.317
			24:COM11	20:COM7	16:COM3	16:COM3	24:COM11	16:COM3
			-70.123	0.000	0.000	-2.305	-4.553	-2.968
			18:COM5	-	-	26:COM13	18:COM5	26:COM13
	5529	-ve	11.444	3.531	1.242	2.909	1.649	9.528
			24:COM11	28:COM15	16:COM3	16:COM3	16:COM3	20:COM7
			-70.123	-6.104	0.000	-2.305	-1.759	-10.122
			18:COM5	22:COM9	-	26:COM13	26:COM13	30:COM17
13709	5499	+ve	2.186	7.608	0.265	0.527	0.000	32.402
			24:COM11	16:COM3	16:COM3	16:COM3	-	16:COM3
			-6.747	-0.477	0.000	-0.697	-0.249	0.000
			18:COM5	26:COM13	-	26:COM13	18:COM5	-
	1985	-ve	2.186	6.257	0.265	0.527	0.189	21.835
			24:COM11	16:COM3	16:COM3	16:COM3	16:COM3	34:CVOL3
			-6.747	-1.490	0.000	-0.697	0.000	0.000
			18:COM5	26:COM13	-	26:COM13	-	-
13710	5500	+ve	10.537	6.348	0.000	0.046	0.424	4.813
			24:COM11	20:COM7	-	24:COM11	16:COM3	20:COM7
			-43.126	-0.431	-0.472	-1.185	0.000	-1.332
			18:COM5	30:COM17	22:COM9	18:COM5	-	30:COM17
	5532	-ve	10.537	0.429	0.000	0.046	0.070	6.385
			24:COM11	28:COM15	-	24:COM11	28:COM15	20:COM7
			-43.126	-6.441	-0.472	-1.185	-0.804	-2.785
			18:COM5	22:COM9	22:COM9	18:COM5	22:COM9	30:COM17
13711	5501	+ve	1.366	7.513	0.252	0.554	0.030	30.971
			28:COM15	16:COM3	20:COM7	24:COM11	28:COM15	16:COM3
			-4.050	-0.859	-0.009	-0.777	-0.237	0.000
			22:COM9	26:COM13	30:COM17	18:COM5	22:COM9	-
	2742	-ve	1.366	6.084	0.252	0.554	0.179	19.841
			28:COM15	16:COM3	20:COM7	24:COM11	20:COM7	16:COM3
			-4.050	-1.931	-0.009	-0.777	0.000	0.000
			22:COM9	26:COM13	30:COM17	18:COM5	-	-
13712	5502	+ve	0.816	7.264	0.217	0.530	0.015	30.233
			24:COM11	16:COM3	20:COM7	24:COM11	28:COM15	16:COM3
			-2.685	-0.664	0.000	-0.803	-0.197	0.000
			18:COM5	26:COM13	-	18:COM5	22:COM9	-
	3111	-ve	0.816	5.834	0.217	0.530	0.161	19.466
			24:COM11	16:COM3	20:COM7	24:COM11	20:COM7	16:COM3
			-2.685	-1.736	0.000	-0.803	0.000	0.000
			18:COM5	26:COM13	-	18:COM5	-	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
13713	5503	+ve	0.836	7.137	0.185	0.495	0.000	29.836
			24:COM1	16:COM3	20:COM7	24:COM1	-	16:COM3
			-2.738	-0.558	0.000	-0.777	-0.163	0.000
			18:COM5	26:COM1	-	18:COM5	22:COM9	-
	3488	-ve	0.836	5.707	0.185	0.495	0.143	19.283
			24:COM1	16:COM3	20:COM7	24:COM1	20:COM7	16:COM3
			-2.738	-1.630	0.000	-0.777	0.000	0.000
			18:COM5	26:COM1	-	18:COM5	-	-
13714	5504	+ve	1.202	7.013	0.169	0.466	0.000	29.469
			28:COM1	16:COM3	20:COM7	24:COM1	-	16:COM3
			-3.082	-0.432	0.000	-0.748	-0.148	0.000
			22:COM9	26:COM1	-	18:COM5	22:COM9	-
	3861	-ve	1.202	5.583	0.169	0.466	0.132	19.125
			28:COM1	16:COM3	20:COM7	24:COM1	20:COM7	16:COM3
			-3.082	-1.504	0.000	-0.748	0.000	0.000
			22:COM9	26:COM1	-	18:COM5	-	-
13715	5505	+ve	2.042	7.363	0.156	0.436	0.000	31.831
			24:COM1	16:COM3	20:COM7	24:COM1	-	16:COM3
			-3.271	-0.183	0.000	-0.701	-0.137	0.000
			18:COM5	26:COM1	-	18:COM5	22:COM9	-
	4222	-ve	2.042	5.835	0.156	0.436	0.125	21.752
			24:COM1	16:COM3	20:COM7	24:COM1	20:COM7	34:CVOL3
			-3.271	-1.329	0.000	-0.701	0.000	0.000
			18:COM5	26:COM1	-	18:COM5	-	-
13716	5506	+ve	2.038	7.150	0.142	0.407	0.000	31.584
			24:COM1	16:COM3	34:CVOL3	24:COM1	-	16:COM3
			-2.617	0.000	0.000	-0.671	-0.122	0.000
			18:COM5	-	-	18:COM5	22:COM9	-
	4584	-ve	2.038	5.622	0.142	0.407	0.121	22.052
			24:COM1	16:COM3	34:CVOL3	24:COM1	34:CVOL3	34:CVOL3
			-2.617	-1.133	0.000	-0.671	0.000	0.000
			18:COM5	26:COM1	-	18:COM5	-	-
13717	5507	+ve	0.528	7.420	0.204	0.550	0.000	30.644
			24:COM1	16:COM3	20:COM7	24:COM1	-	16:COM3
			-3.037	-0.817	0.000	-0.733	-0.180	0.000
			18:COM5	26:COM1	-	18:COM5	22:COM9	-
	2350	-ve	0.528	6.069	0.204	0.550	0.156	19.609
			24:COM1	16:COM3	20:COM7	24:COM1	20:COM7	16:COM3
			-3.037	-1.830	0.000	-0.733	0.000	0.000
			18:COM5	26:COM1	-	18:COM5	-	-
13718	5508	+ve	5.267	6.963	0.315	0.397	0.248	6.137
			24:COM1	20:COM7	16:COM3	24:COM1	16:COM3	20:COM7
			-33.640	-0.749	-0.222	-1.536	-0.320	-2.031
			18:COM5	30:COM1	26:COM1	18:COM5	26:COM1	30:COM1
	5535	-ve	5.267	1.434	0.315	0.397	0.488	5.972
			24:COM1	28:COM1	16:COM3	24:COM1	16:COM3	20:COM7
			-33.640	-6.148	-0.222	-1.536	-0.326	-3.740
			18:COM5	22:COM9	26:COM1	18:COM5	26:COM1	30:COM1

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
13719	5509	+ve	10.506	6.648	0.031	0.377	0.099	5.663
			28:COM15	20:COM7	24:COM11	24:COM11	16:COM3	20:COM7
			-35.168	-0.231	-0.085	-1.501	-0.046	-1.411
			22:COM9	30:COM17	18:COM5	18:COM5	26:COM13	30:COM17
	5538	-ve	10.506	1.058	0.031	0.377	0.075	5.175
			28:COM15	28:COM15	24:COM11	24:COM11	24:COM11	20:COM7
			-35.168	-5.569	-0.085	-1.501	-0.158	-3.304
			22:COM9	22:COM9	18:COM5	18:COM5	18:COM5	30:COM17
13720	5510	+ve	7.141	4.365	0.082	0.256	0.172	3.978
			24:COM11	16:COM3	28:COM15	24:COM11	16:COM3	16:COM3
			-28.919	0.000	-0.108	-1.448	-0.122	-0.455
			18:COM5	-	22:COM9	18:COM5	26:COM13	26:COM13
	5541	-ve	7.141	0.000	0.082	0.256	0.152	2.798
			24:COM11	-	28:COM15	24:COM11	28:COM15	20:COM7
			-28.919	-4.117	-0.108	-1.448	-0.166	0.000
			18:COM5	18:COM5	22:COM9	18:COM5	22:COM9	-
13721	5511	+ve	3.523	4.642	0.137	0.339	0.227	4.099
			24:COM11	20:COM7	28:COM15	24:COM11	16:COM3	16:COM3
			-23.503	0.000	-0.148	-1.508	-0.197	-0.556
			18:COM5	-	22:COM9	18:COM5	26:COM13	26:COM13
	5544	-ve	3.523	0.000	0.137	0.339	0.188	3.545
			24:COM11	-	28:COM15	24:COM11	28:COM15	20:COM7
			-23.503	-4.380	-0.148	-1.508	-0.188	-0.697
			18:COM5	22:COM9	22:COM9	18:COM5	22:COM9	30:COM17
13722	5512	+ve	2.397	4.913	0.087	0.444	0.204	4.177
			24:COM11	20:COM7	28:COM15	24:COM11	24:COM11	16:COM3
			-19.540	0.000	-0.125	-1.627	-0.190	-0.546
			18:COM5	-	22:COM9	18:COM5	18:COM5	26:COM13
	5547	-ve	2.397	0.000	0.087	0.444	0.104	3.832
			24:COM11	-	28:COM15	24:COM11	28:COM15	20:COM7
			-19.540	-4.607	-0.125	-1.627	-0.185	-1.002
			18:COM5	22:COM9	22:COM9	18:COM5	22:COM9	30:COM17
13723	5513	+ve	1.792	5.441	0.100	0.452	0.227	4.449
			24:COM11	20:COM7	24:COM11	24:COM11	24:COM11	16:COM3
			-15.730	0.000	-0.131	-1.733	-0.213	-0.468
			18:COM5	-	18:COM5	18:COM5	18:COM5	26:COM13
	5550	-ve	1.792	0.000	0.100	0.452	0.109	3.916
			24:COM11	-	24:COM11	24:COM11	28:COM15	20:COM7
			-15.730	-5.031	-0.131	-1.733	-0.172	-0.918
			18:COM5	22:COM9	18:COM5	18:COM5	22:COM9	30:COM17
13724	5514	+ve	0.915	5.333	0.158	0.474	0.177	4.437
			24:COM11	20:COM7	16:COM3	24:COM11	24:COM11	16:COM3
			-11.891	0.000	-0.078	-1.743	-0.255	-0.491
			18:COM5	-	26:COM13	18:COM5	18:COM5	26:COM13
	5553	-ve	0.915	0.000	0.158	0.474	0.177	3.814
			24:COM11	-	16:COM3	24:COM11	16:COM3	20:COM7
			-11.891	-5.001	-0.078	-1.743	-0.054	-0.732
			18:COM5	22:COM9	26:COM13	18:COM5	26:COM13	30:COM17

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
13725	5515	+ve	2.407	6.978	0.149	0.372	0.000	31.158
			24:COM1	16:COM3	20:COM7	16:COM3	-	16:COM3
			-3.527	0.000	0.000	-0.625	-0.130	0.000
			18:COM5	-	-	26:COM1	22:COM9	-
	4849	-ve	2.407	5.450	0.149	0.372	0.121	22.151
			24:COM1	16:COM3	20:COM7	16:COM3	16:COM3	34:CVOL3
			-3.527	-0.895	0.000	-0.625	0.000	0.000
			18:COM5	26:COM1	-	26:COM1	-	-
13726	5516	+ve	0.166	5.359	0.011	0.507	0.316	4.619
			24:COM1	16:COM3	24:COM1	24:COM1	34:CVOL3	16:COM3
			-8.703	0.000	-0.291	-1.693	0.000	-0.361
			18:COM5	-	18:COM5	18:COM5	-	26:COM1
	5556	-ve	0.166	0.000	0.011	0.507	0.149	3.339
			24:COM1	-	24:COM1	24:COM1	24:COM1	20:COM7
			-8.703	-4.699	-0.291	-1.693	-0.495	-0.503
			18:COM5	18:COM5	18:COM5	18:COM5	18:COM5	30:COM1
13727	5517	+ve	2.950	6.122	0.160	0.308	0.000	27.479
			20:COM7	16:COM3	16:COM3	24:COM1	-	16:COM3
			-2.644	0.000	0.000	-0.631	-0.140	0.000
			30:COM1	-	-	18:COM5	22:COM9	-
	5091	-ve	2.950	4.594	0.160	0.308	0.130	18.949
			20:COM7	16:COM3	16:COM3	24:COM1	16:COM3	34:CVOL3
			-2.644	-0.716	0.000	-0.631	0.000	0.000
			30:COM1	26:COM1	-	18:COM5	-	-
13728	5518	+ve	0.333	4.638	0.471	0.267	0.054	3.918
			24:COM1	20:COM7	16:COM3	28:COM1	24:COM1	16:COM3
			-3.520	0.000	-0.095	-2.060	-0.787	-0.328
			18:COM5	-	26:COM1	22:COM9	18:COM5	26:COM1
	5559	-ve	0.333	0.000	0.471	0.267	0.390	3.254
			24:COM1	-	16:COM3	28:COM1	16:COM3	20:COM7
			-3.520	-4.316	-0.095	-2.060	-0.185	-0.424
			18:COM5	22:COM9	26:COM1	22:COM9	26:COM1	30:COM1
13729	5519	+ve	0.000	5.636	0.000	0.260	0.407	29.516
			-	16:COM3	-	16:COM3	34:CVOL3	34:CVOL3
			-27.480	0.000	-0.188	-0.351	0.000	0.000
			34:CVOL3	-	18:COM5	26:COM1	-	-
	5249	-ve	0.000	4.246	0.000	0.260	0.212	22.811
			-	16:COM3	-	16:COM3	16:COM3	34:CVOL3
			-27.480	0.000	-0.188	-0.351	0.000	0.000
			34:CVOL3	-	18:COM5	26:COM1	-	-
13730	5520	+ve	0.000	5.662	3.089	1.419	0.729	4.374
			-	35:CVOL4	16:COM3	16:COM3	24:COM1	16:COM3
			-7.378	0.000	-0.924	-1.467	-3.725	0.000
			22:COM9	-	26:COM1	26:COM1	18:COM5	-
	5562	-ve	0.000	0.000	3.089	1.419	4.165	3.986
			-	-	16:COM3	16:COM3	16:COM3	20:COM7
			-5.391	-5.461	-0.924	-1.467	-1.632	0.000
			22:COM9	34:CVOL3	26:COM1	26:COM1	26:COM1	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
13731	5522	+ve	72.535	22.012	0.359	0.772	2.095	22.014
			16:COM3	20:COM7	28:COM15	16:COM3	16:COM3	20:COM7
			-13.178	-15.363	-1.846	-0.472	-0.703	-12.002
			26:COM13	30:COM17	22:COM9	26:COM13	26:COM13	30:COM17
	5477	-ve	72.535	17.754	0.359	0.772	0.460	17.074
			16:COM3	28:COM15	28:COM15	16:COM3	24:COM11	20:COM7
			-13.178	-18.631	-1.846	-0.472	-1.521	-11.825
			26:COM13	22:COM9	22:COM9	26:COM13	18:COM5	30:COM17
13737	5524	+ve	26.394	31.891	0.358	4.226	0.339	42.739
			16:COM3	20:COM7	24:COM11	24:COM11	28:COM15	20:COM7
			-25.249	-21.086	-0.410	-5.470	-0.415	-37.388
			26:COM13	30:COM17	18:COM5	18:COM5	22:COM9	30:COM17
	6102	-ve	26.394	26.635	0.358	4.226	0.458	2.759
			16:COM3	20:COM7	24:COM11	24:COM11	24:COM11	28:COM15
			-25.249	-23.959	-0.410	-5.470	-0.626	-9.422
			26:COM13	30:COM17	18:COM5	18:COM5	18:COM5	22:COM9
13745	5527	+ve	33.155	29.210	1.370	12.416	0.283	49.455
			16:COM3	16:COM3	20:COM7	24:COM11	28:COM15	20:COM7
			-28.398	-13.378	-0.516	-18.953	-1.177	-28.788
			26:COM13	26:COM13	30:COM17	18:COM5	22:COM9	30:COM17
	6115	-ve	33.155	23.897	1.370	12.416	1.268	3.442
			16:COM3	16:COM3	20:COM7	24:COM11	20:COM7	20:COM7
			-28.398	-16.026	-0.516	-18.953	-0.640	-3.900
			26:COM13	26:COM13	30:COM17	18:COM5	30:COM17	30:COM17
13750	5528	+ve	6.521	6.382	1.412	1.660	2.952	4.328
			24:COM11	20:COM7	24:COM11	24:COM11	16:COM3	20:COM7
			-23.985	-1.525	-2.848	-3.762	-1.670	-1.272
			18:COM5	30:COM17	18:COM5	18:COM5	26:COM13	30:COM17
	5478	-ve	6.521	2.421	1.412	1.660	0.719	3.731
			24:COM11	28:COM15	24:COM11	24:COM11	24:COM11	20:COM7
			-23.985	-4.932	-2.848	-3.762	-1.805	-2.611
			18:COM5	22:COM9	18:COM5	18:COM5	18:COM5	30:COM17
13757	5529	+ve	11.661	27.430	2.673	15.072	0.000	15.125
			24:COM11	20:COM7	16:COM3	24:COM11	-	20:COM7
			-53.164	-16.680	-0.657	-24.487	-1.345	-8.750
			18:COM5	30:COM17	26:COM13	18:COM5	35:CVOL4	30:COM17
	5479	-ve	11.661	20.697	2.673	15.072	3.374	22.497
			24:COM11	20:COM7	16:COM3	24:COM11	16:COM3	28:COM15
			-53.164	-20.736	-0.657	-24.487	-1.350	-24.985
			18:COM5	30:COM17	26:COM13	18:COM5	26:COM13	22:COM9
13758	5531	+ve	85.549	163.948	9.538	31.798	8.980	251.598
			28:COM15	28:COM15	16:COM3	24:COM11	24:COM11	28:COM15
			-86.995	-169.851	-9.078	-43.111	-10.563	-285.199
			22:COM9	22:COM9	26:COM13	18:COM5	18:COM5	22:COM9
	6149	-ve	85.549	159.592	9.538	31.798	6.611	26.809
			28:COM15	28:COM15	16:COM3	24:COM11	24:COM11	28:COM15
			-86.995	-177.080	-9.078	-43.111	-7.376	-39.628
			22:COM9	22:COM9	26:COM13	18:COM5	18:COM5	22:COM9

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
13771	5532	+ve	10.903	13.005	1.018	4.787	1.496	6.625
			24:COM1	20:COM7	24:COM1	24:COM1	16:COM3	20:COM7
			-45.085	-10.158	-1.574	-10.245	-0.851	-6.345
			18:COM5	30:COM1	18:COM5	18:COM5	26:COM1	30:COM1
	5480	-ve	10.903	8.996	1.018	4.787	0.881	13.023
			24:COM1	28:COM1	24:COM1	24:COM1	24:COM1	20:COM7
			-45.085	-14.045	-1.574	-10.245	-1.156	-10.921
			18:COM5	22:COM9	18:COM5	18:COM5	18:COM5	30:COM1
13772	6261	+ve	0.888	22.779	0.769	14.920	1.514	53.273
			24:COM1	20:COM7	24:COM1	20:COM7	16:COM3	20:COM7
			-6.384	-9.176	-1.799	-10.913	-0.584	-26.324
			18:COM5	30:COM1	18:COM5	30:COM1	26:COM1	30:COM1
	6262	-ve	0.888	20.883	0.769	14.920	0.697	17.389
			24:COM1	20:COM7	24:COM1	20:COM7	24:COM1	20:COM7
			-6.384	-10.598	-1.799	-10.913	-1.460	-10.073
			18:COM5	30:COM1	18:COM5	30:COM1	18:COM5	30:COM1
13773	5534	+ve	16.912	78.774	0.503	11.780	0.149	129.034
			20:COM7	20:COM7	20:COM7	24:COM1	24:COM1	20:COM7
			-9.341	-45.697	-0.218	-38.132	-0.326	-79.603
			30:COM1	30:COM1	30:COM1	18:COM5	18:COM5	30:COM1
	6261	-ve	16.912	73.377	0.503	11.780	0.703	6.827
			20:COM7	20:COM7	20:COM7	24:COM1	20:COM7	24:COM1
			-9.341	-48.945	-0.218	-38.132	-0.372	-8.489
			30:COM1	30:COM1	30:COM1	18:COM5	30:COM1	18:COM5
13784	5535	+ve	10.085	15.651	0.973	4.878	0.786	8.154
			28:COM1	20:COM7	16:COM3	24:COM1	24:COM1	20:COM7
			-42.326	-12.112	-1.191	-10.369	-0.622	-7.198
			22:COM9	30:COM1	26:COM1	18:COM5	18:COM5	30:COM1
	5481	-ve	10.085	11.963	0.973	4.878	1.010	15.333
			28:COM1	28:COM1	16:COM3	24:COM1	16:COM3	20:COM7
			-42.326	-15.657	-1.191	-10.369	-1.207	-14.248
			22:COM9	22:COM9	26:COM1	18:COM5	26:COM1	30:COM1
13786	5481	+ve	35.724	42.003	1.199	10.004	0.789	24.522
			28:COM1	28:COM1	16:COM3	16:COM3	24:COM1	28:COM1
			-67.593	-45.992	-0.631	-4.847	-1.310	-27.552
			22:COM9	22:COM9	26:COM1	26:COM1	18:COM5	22:COM9
	5537	-ve	35.724	38.713	1.199	10.004	0.907	60.165
			28:COM1	28:COM1	16:COM3	16:COM3	16:COM3	20:COM7
			-67.593	-51.459	-0.631	-4.847	-0.406	-48.133
			22:COM9	22:COM9	26:COM1	26:COM1	26:COM1	30:COM1
13787	5537	+ve	24.007	94.159	1.681	14.738	1.091	143.101
			20:COM7	20:COM7	16:COM3	24:COM1	24:COM1	20:COM7
			-18.793	-74.204	-1.283	-34.912	-1.417	-131.853
			30:COM1	30:COM1	26:COM1	18:COM5	18:COM5	30:COM1
	6244	-ve	24.007	88.762	1.681	14.738	1.578	10.196
			20:COM7	20:COM7	16:COM3	24:COM1	16:COM3	24:COM1
			-18.793	-77.453	-1.283	-34.912	-1.196	-26.725
			30:COM1	30:COM1	26:COM1	18:COM5	26:COM1	18:COM5

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
13800	5538	+ve	0.256	14.273	0.217	4.937	0.765	7.553
			24:COM1	20:COM7	28:COM1	24:COM1	20:COM7	20:COM7
			-29.565	-10.773	-0.708	-10.796	-0.436	-6.344
			18:COM5	30:COM1	22:COM9	18:COM5	30:COM1	30:COM1
	5482	-ve	0.256	10.546	0.217	4.937	0.220	13.990
			24:COM1	28:COM1	28:COM1	24:COM1	24:COM1	20:COM7
			-29.565	-14.280	-0.708	-10.796	-0.704	-12.588
			18:COM5	22:COM9	22:COM9	18:COM5	18:COM5	30:COM1
13801	5540	+ve	106.885	86.285	2.331	15.011	1.032	140.755
			20:COM7	20:COM7	20:COM7	24:COM1	28:COM1	28:COM1
			-95.426	-77.681	-1.673	-35.314	-1.595	-148.198
			30:COM1	30:COM1	30:COM1	18:COM5	22:COM9	22:COM9
	6162	-ve	106.885	81.551	2.331	15.011	2.550	7.386
			20:COM7	28:COM1	20:COM7	24:COM1	20:COM7	24:COM1
			-95.426	-81.237	-1.673	-35.314	-1.944	-22.752
			30:COM1	22:COM9	30:COM1	18:COM5	30:COM1	18:COM5
13814	5541	+ve	8.603	4.865	0.372	4.292	0.620	2.675
			28:COM1	20:COM7	28:COM1	24:COM1	20:COM7	28:COM1
			-35.452	-5.070	-0.658	-10.350	-0.411	-3.345
			22:COM9	30:COM1	22:COM9	18:COM5	30:COM1	22:COM9
	5483	-ve	8.603	1.873	0.372	4.292	0.367	8.511
			28:COM1	28:COM1	28:COM1	24:COM1	24:COM1	20:COM7
			-35.452	-9.312	-0.658	-10.350	-0.632	-2.856
			22:COM9	22:COM9	22:COM9	18:COM5	18:COM5	30:COM1
13815	5542	+ve	1.106	7.091	0.062	0.193	0.128	12.055
			28:COM1	32:CVOL1	28:COM1	24:COM1	20:COM7	16:COM3
			-3.835	0.000	-0.148	-2.139	-0.055	0.000
			22:COM9	-	22:COM9	18:COM5	30:COM1	-
	3187	-ve	1.106	4.513	0.062	0.193	0.048	3.387
			28:COM1	32:CVOL1	28:COM1	24:COM1	28:COM1	16:COM3
			-3.835	0.000	-0.148	-2.139	-0.115	-0.203
			22:COM9	-	22:COM9	18:COM5	22:COM9	26:COM1
13816	5543	+ve	15.354	24.918	0.506	10.468	0.436	58.020
			20:COM7	16:COM3	16:COM3	24:COM1	24:COM1	16:COM3
			-8.942	0.000	-0.388	-15.104	-0.600	0.000
			30:COM1	-	26:COM1	18:COM5	18:COM5	-
	5542	-ve	15.354	16.609	0.506	10.468	0.883	0.148
			20:COM7	16:COM3	16:COM3	24:COM1	16:COM3	24:COM1
			-8.942	-0.582	-0.388	-15.104	-0.704	-2.796
			30:COM1	26:COM1	26:COM1	18:COM5	26:COM1	18:COM5
13827	5544	+ve	8.351	4.180	0.404	4.092	0.338	3.320
			28:COM1	20:COM7	24:COM1	24:COM1	20:COM7	28:COM1
			-31.376	-5.275	-0.632	-10.249	-0.221	-4.242
			22:COM9	30:COM1	18:COM5	18:COM5	30:COM1	22:COM9
	5484	-ve	8.351	1.354	0.404	4.092	0.556	8.256
			28:COM1	28:COM1	24:COM1	24:COM1	24:COM1	20:COM7
			-31.376	-9.683	-0.632	-10.249	-0.817	-1.380
			22:COM9	22:COM9	18:COM5	18:COM5	18:COM5	30:COM1

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
13828	5545	+ve	0.339	7.036	0.031	0.149	0.084	11.991
			28:COM15	32:CVOL1	28:COM15	24:COM17	20:COM7	16:COM3
			-2.348	0.000	-0.100	-2.104	-0.027	0.000
			22:COM9	-	22:COM9	18:COM5	30:COM17	-
	3550	-ve	0.339	4.458	0.031	0.149	0.028	3.333
			28:COM15	32:CVOL1	28:COM15	24:COM17	24:COM11	16:COM3
			-2.348	0.000	-0.100	-2.104	-0.084	-0.153
			22:COM9	-	22:COM9	18:COM5	18:COM5	26:COM13
13829	5546	+ve	8.458	24.679	0.363	10.004	0.359	57.327
			20:COM7	16:COM3	16:COM3	24:COM17	28:COM15	16:COM3
			-4.408	0.000	-0.297	-14.842	-0.407	0.000
			30:COM17	-	26:COM13	18:COM5	22:COM9	-
	5545	-ve	8.458	16.370	0.363	10.004	0.671	0.087
			20:COM7	16:COM3	16:COM3	24:COM17	16:COM3	24:COM17
			-4.408	-0.480	-0.297	-14.842	-0.526	-2.778
			30:COM17	26:COM13	26:COM13	18:COM5	26:COM13	18:COM5
13840	5547	+ve	4.882	2.560	0.306	3.851	0.399	2.764
			28:COM15	28:COM15	24:COM11	24:COM17	16:COM3	28:COM15
			-23.693	-4.427	-0.636	-10.077	-0.181	-4.055
			22:COM9	22:COM9	18:COM5	18:COM5	26:COM13	22:COM9
	5485	-ve	4.882	0.000	0.306	3.851	0.462	7.093
			28:COM15	-	24:COM11	24:COM17	24:COM11	20:COM7
			-23.693	-8.844	-0.636	-10.077	-0.789	0.000
			22:COM9	22:COM9	18:COM5	18:COM5	18:COM5	-
13841	5548	+ve	0.011	6.999	0.035	0.109	0.064	11.842
			28:COM15	32:CVOL1	24:COM11	24:COM17	20:COM7	16:COM3
			-1.571	0.000	-0.081	-2.036	-0.026	0.000
			22:COM9	-	18:COM5	18:COM5	30:COM17	-
	3923	-ve	0.011	4.421	0.035	0.109	0.038	3.225
			28:COM15	32:CVOL1	24:COM11	24:COM17	24:COM11	16:COM3
			-1.571	0.000	-0.081	-2.036	-0.074	-0.105
			22:COM9	-	18:COM5	18:COM5	18:COM5	26:COM13
13842	5549	+ve	5.013	24.234	0.329	9.422	0.284	56.067
			20:COM7	16:COM3	16:COM3	24:COM17	24:COM11	16:COM3
			-2.618	0.000	-0.239	-14.667	-0.355	0.000
			30:COM17	-	26:COM13	18:COM5	18:COM5	-
	5548	-ve	5.013	15.925	0.329	9.422	0.622	0.019
			20:COM7	16:COM3	16:COM3	24:COM17	16:COM3	24:COM17
			-2.618	-0.188	-0.239	-14.667	-0.431	-2.734
			30:COM17	26:COM13	26:COM13	18:COM5	26:COM13	18:COM5
13853	5550	+ve	2.820	2.059	0.364	3.554	0.297	2.386
			28:COM15	20:COM7	24:COM11	24:COM17	16:COM3	20:COM7
			-17.373	-3.563	-0.455	-10.062	-0.243	-3.482
			22:COM9	30:COM17	18:COM5	18:COM5	26:COM13	30:COM17
	5486	-ve	2.820	0.000	0.364	3.554	0.499	6.201
			28:COM15	-	24:COM11	24:COM17	24:COM11	20:COM7
			-17.373	-8.293	-0.455	-10.062	-0.594	0.000
			22:COM9	22:COM9	18:COM5	18:COM5	18:COM5	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
13854	5551	+ve	0.031	6.936	0.058	0.013	0.075	11.692
			28:COM15	32:CVOL1	24:COM11	24:COM11	16:COM3	16:COM3
			-1.627	0.000	-0.103	-2.035	-0.040	0.000
			22:COM9	-	18:COM5	18:COM5	26:COM13	-
	4266	-ve	0.031	4.469	0.058	0.013	0.055	3.249
			28:COM15	34:CVOL3	24:COM11	24:COM11	24:COM11	16:COM3
			-1.627	0.000	-0.103	-2.035	-0.092	0.000
			22:COM9	-	18:COM5	18:COM5	18:COM5	-
13855	5552	+ve	3.915	24.868	0.269	7.971	0.154	56.950
			20:COM7	16:COM3	16:COM3	24:COM11	24:COM11	16:COM3
			-1.850	0.000	-0.105	-13.295	-0.364	0.000
			30:COM17	-	26:COM13	18:COM5	18:COM5	-
	5551	-ve	3.915	15.974	0.269	7.971	0.435	0.000
			20:COM7	16:COM3	16:COM3	24:COM11	16:COM3	-
			-1.850	0.000	-0.105	-13.295	-0.166	-2.852
			30:COM17	-	26:COM13	18:COM5	26:COM13	18:COM5
13866	5553	+ve	0.706	1.470	0.432	3.259	0.128	1.976
			28:COM15	20:COM7	16:COM3	24:COM11	24:COM11	28:COM15
			-11.704	-3.261	-0.235	-9.477	-0.349	-3.239
			22:COM9	30:COM17	26:COM13	18:COM5	18:COM5	22:COM9
	5487	-ve	0.706	0.000	0.432	3.259	0.523	6.243
			28:COM15	-	16:COM3	24:COM11	16:COM3	32:CVOL1
			-11.704	-8.105	-0.235	-9.477	-0.418	0.000
			22:COM9	22:COM9	26:COM13	18:COM5	26:COM13	-
13867	5554	+ve	0.434	8.673	0.062	0.000	0.091	16.114
			28:COM15	34:CVOL3	24:COM11	-	16:COM3	34:CVOL3
			-2.043	0.000	-0.118	-2.368	-0.045	0.000
			22:COM9	-	18:COM5	34:CVOL3	26:COM13	-
	4669	-ve	0.434	5.697	0.062	0.000	0.055	4.470
			28:COM15	34:CVOL3	24:COM11	-	24:COM11	34:CVOL3
			-2.043	0.000	-0.118	-2.368	-0.100	0.000
			22:COM9	-	18:COM5	34:CVOL3	18:COM5	-
13868	5555	+ve	3.396	29.187	0.271	12.695	0.102	55.969
			20:COM7	34:CVOL3	16:COM3	16:COM3	24:COM11	34:CVOL3
			-1.383	0.000	-0.106	-2.217	-0.276	0.000
			30:COM17	-	26:COM13	26:COM13	18:COM5	-
	5554	-ve	3.396	20.590	0.271	12.695	0.358	0.315
			20:COM7	34:CVOL3	16:COM3	16:COM3	16:COM3	24:COM11
			-1.383	0.000	-0.106	-2.217	-0.151	-2.364
			30:COM17	-	26:COM13	26:COM13	26:COM13	18:COM5
13879	5556	+ve	0.119	1.181	0.070	2.856	0.399	1.574
			28:COM15	20:COM7	16:COM3	24:COM11	24:COM11	20:COM7
			-7.819	-2.735	-0.297	-8.886	-0.220	-2.699
			22:COM9	30:COM17	26:COM13	18:COM5	18:COM5	30:COM17
	5488	-ve	0.119	0.000	0.070	2.856	0.224	6.209
			28:COM15	-	16:COM3	24:COM11	16:COM3	32:CVOL1
			-7.819	-7.490	-0.297	-8.886	-0.420	0.000
			22:COM9	22:COM9	26:COM13	18:COM5	26:COM13	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
13880	5557	+ve	0.871	8.685	0.065	0.000	0.094	15.774
			28:COM15	32:CVOL1	28:COM15	-	20:COM7	34:CVOL3
			-1.854	0.000	-0.119	-2.388	-0.053	0.000
			22:COM9	-	22:COM9	34:CVOL3	30:COM17	-
	4902	-ve	0.871	5.338	0.065	0.000	0.055	4.712
			28:COM15	34:CVOL3	28:COM15	-	24:COM11	34:CVOL3
			-1.854	0.000	-0.119	-2.388	-0.101	0.000
			22:COM9	-	22:COM9	34:CVOL3	18:COM5	-
13881	5558	+ve	3.523	26.840	0.134	13.430	0.209	51.910
			20:COM7	34:CVOL3	24:COM11	16:COM3	16:COM3	32:CVOL1
			-2.161	0.000	-0.157	-0.821	-0.139	0.000
			30:COM17	-	18:COM5	26:COM13	26:COM13	-
	5557	-ve	3.523	19.710	0.134	13.430	0.172	0.253
			20:COM7	32:CVOL1	24:COM11	16:COM3	24:COM11	24:COM11
			-2.161	0.000	-0.157	-0.821	-0.156	-2.129
			30:COM17	-	18:COM5	26:COM13	18:COM5	18:COM5
13892	5559	+ve	0.848	0.874	0.375	2.006	0.793	1.398
			28:COM15	28:COM15	24:COM11	24:COM11	16:COM3	28:COM15
			-2.793	-2.462	-1.071	-8.628	-0.172	-2.542
			22:COM9	22:COM9	18:COM5	18:COM5	26:COM13	22:COM9
	5489	-ve	0.848	0.000	0.375	2.006	0.456	5.773
			28:COM15	-	24:COM11	24:COM11	24:COM11	32:CVOL1
			-2.793	-6.879	-1.071	-8.628	-0.987	0.000
			22:COM9	22:COM9	18:COM5	18:COM5	18:COM5	-
13893	5560	+ve	1.597	8.551	0.106	0.000	0.067	15.122
			20:COM7	32:CVOL1	20:COM7	-	28:COM15	32:CVOL1
			-1.395	0.000	-0.073	-2.026	-0.083	0.000
			30:COM17	-	30:COM17	34:CVOL3	22:COM9	-
	5127	-ve	1.597	5.078	0.106	0.000	0.088	4.078
			20:COM7	32:CVOL1	20:COM7	-	20:COM7	32:CVOL1
			-1.395	0.000	-0.073	-2.026	-0.051	0.000
			30:COM17	-	30:COM17	34:CVOL3	30:COM17	-
13894	5561	+ve	3.939	26.453	0.140	10.511	0.133	52.194
			28:COM15	32:CVOL1	16:COM3	16:COM3	24:COM11	32:CVOL1
			-4.574	0.000	-0.136	-1.757	-0.169	0.000
			22:COM9	-	26:COM13	26:COM13	18:COM5	-
	5560	-ve	3.939	19.877	0.140	10.511	0.167	0.107
			28:COM15	32:CVOL1	16:COM3	16:COM3	24:COM11	24:COM11
			-4.574	0.000	-0.136	-1.757	-0.192	-2.062
			22:COM9	-	26:COM13	26:COM13	18:COM5	18:COM5
13905	5562	+ve	17.324	2.586	1.517	1.988	0.514	1.103
			20:COM7	16:COM3	20:COM7	24:COM11	28:COM15	20:COM7
			-11.815	-0.943	-0.550	-8.396	-0.979	-0.993
			30:COM17	26:COM13	30:COM17	18:COM5	22:COM9	30:COM17
	5490	-ve	18.470	0.000	1.517	1.988	1.593	4.653
			20:COM7	-	20:COM7	24:COM11	20:COM7	32:CVOL1
			-11.180	-6.244	-0.550	-8.396	-0.431	0.000
			30:COM17	18:COM5	30:COM17	18:COM5	30:COM17	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
13906	5563	+ve	0.000	6.266	0.000	0.000	0.389	11.995
			-	34:CVOL3	-	-	16:COM3	34:CVOL3
			-14.008	0.000	-0.396	-2.233	0.000	0.000
			34:CVOL3	-	22:COM9	34:CVOL3	-	-
	5279	-ve	0.000	4.126	0.000	0.000	0.000	3.574
			-	34:CVOL3	-	-	-	34:CVOL3
			-14.008	0.000	-0.396	-2.233	-0.284	0.000
			34:CVOL3	-	22:COM9	34:CVOL3	22:COM9	-
13907	5564	+ve	22.409	25.841	1.332	10.444	0.196	47.403
			16:COM3	34:CVOL3	16:COM3	16:COM3	24:COM11	34:CVOL3
			-2.427	0.000	-0.336	-0.724	-1.698	0.000
			26:COM13	-	26:COM13	26:COM13	18:COM5	-
	5563	-ve	22.409	16.504	1.332	10.444	1.385	0.022
			16:COM3	34:CVOL3	16:COM3	16:COM3	16:COM3	24:COM11
			-2.427	0.000	-0.336	-0.724	-0.583	-1.898
			26:COM13	-	26:COM13	26:COM13	26:COM13	18:COM5
13986	6103	+ve	4.569	5.678	0.021	0.343	0.031	4.532
			24:COM11	20:COM7	24:COM11	20:COM7	16:COM3	20:COM7
			-10.152	-0.969	-0.024	-0.290	-0.025	-3.017
			18:COM5	30:COM17	18:COM5	30:COM17	26:COM13	30:COM17
	6343	-ve	4.569	0.920	0.021	0.343	0.033	4.364
			24:COM11	28:COM15	24:COM11	20:COM7	24:COM11	20:COM7
			-10.152	-5.694	-0.024	-0.290	-0.033	-2.761
			18:COM5	22:COM9	18:COM5	30:COM17	18:COM5	30:COM17
14025	3215	+ve	26.975	61.343	0.304	31.020	0.857	164.045
			24:COM11	20:COM7	24:COM11	16:COM3	16:COM3	20:COM7
			-38.746	-14.669	-0.660	-2.878	-0.416	-62.538
			18:COM5	30:COM17	18:COM5	26:COM13	26:COM13	30:COM17
	5681	-ve	26.975	58.991	0.304	31.020	0.288	41.354
			24:COM11	20:COM7	24:COM11	16:COM3	24:COM11	20:COM7
			-38.746	-16.434	-0.660	-2.878	-0.574	-30.842
			18:COM5	30:COM17	18:COM5	26:COM13	18:COM5	30:COM17
14027	3588	+ve	35.253	58.864	0.739	29.325	2.012	158.935
			24:COM11	20:COM7	28:COM15	16:COM3	20:COM7	20:COM7
			-54.178	-16.740	-1.705	-3.782	-0.908	-68.610
			18:COM5	30:COM17	22:COM9	26:COM13	30:COM17	30:COM17
	5702	-ve	35.253	56.512	0.739	29.325	0.627	41.298
			24:COM11	20:COM7	28:COM15	16:COM3	28:COM15	20:COM7
			-54.178	-18.504	-1.705	-3.782	-1.494	-32.689
			18:COM5	30:COM17	22:COM9	26:COM13	22:COM9	30:COM17
14041	5582	+ve	29.594	43.380	11.903	0.666	5.954	34.724
			20:COM7	28:COM15	16:COM3	24:COM11	24:COM11	28:COM15
			-7.948	-51.546	-6.755	-3.749	-10.727	-43.128
			30:COM17	22:COM9	26:COM13	18:COM5	18:COM5	22:COM9
	93	-ve	29.594	40.479	11.903	0.666	10.716	54.462
			20:COM7	28:COM15	16:COM3	24:COM11	16:COM3	20:COM7
			-7.948	-56.854	-6.755	-3.749	-6.221	-40.778
			30:COM17	22:COM9	26:COM13	18:COM5	26:COM13	30:COM17

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
14042	5583	+ve	48.065	325.216	14.315	24.775	19.777	333.475
			20:COM7	28:COM15	24:COM11	16:COM3	16:COM3	28:COM15
			-16.679	-346.551	-20.958	-15.552	-13.861	-333.852
			30:COM17	22:COM9	18:COM5	26:COM13	26:COM13	22:COM9
	271	-ve	48.065	320.058	14.315	24.775	11.951	297.489
			20:COM7	28:COM15	24:COM11	16:COM3	24:COM11	20:COM7
			-16.679	-354.148	-20.958	-15.552	-17.993	-247.983
			30:COM17	22:COM9	18:COM5	26:COM13	18:COM5	30:COM17
14043	5584	+ve	52.237	470.523	7.324	33.210	9.948	447.303
			20:COM7	28:COM15	24:COM11	20:COM7	20:COM7	28:COM15
			-24.273	-489.564	-8.658	-28.020	-9.893	-451.590
			30:COM17	22:COM9	18:COM5	30:COM17	30:COM17	22:COM9
	2022	-ve	52.237	464.119	7.324	33.210	4.425	438.353
			20:COM7	28:COM15	24:COM11	20:COM7	24:COM11	20:COM7
			-24.273	-499.183	-8.658	-28.020	-6.773	-393.947
			30:COM17	22:COM9	18:COM5	30:COM17	18:COM5	30:COM17
14044	5585	+ve	0.000	246.434	3.593	24.844	1.929	212.301
			-	20:COM7	20:COM7	16:COM3	24:COM11	20:COM7
			-7.840	-242.382	-1.861	-15.852	-2.772	-186.463
			22:COM9	30:COM17	30:COM17	26:COM13	18:COM5	30:COM17
	2414	-ve	0.000	240.340	3.593	24.844	5.380	261.733
			-	28:COM15	20:COM7	16:COM3	20:COM7	20:COM7
			-7.840	-250.136	-1.861	-15.852	-3.106	-230.725
			22:COM9	22:COM9	30:COM17	26:COM13	30:COM17	30:COM17
14068	622	+ve	5.480	6.154	0.009	0.080	0.024	7.343
			24:COM17	20:COM7	24:COM11	28:COM15	16:COM3	20:COM7
			-6.234	0.000	-0.010	-0.237	-0.021	-2.986
			18:COM5	-	18:COM5	22:COM9	26:COM13	30:COM17
	6103	-ve	5.480	0.000	0.009	0.080	0.014	4.501
			24:COM17	-	24:COM11	28:COM15	24:COM11	20:COM7
			-6.234	-6.180	-0.010	-0.237	-0.017	0.000
			18:COM5	22:COM9	18:COM5	22:COM9	18:COM5	-
14102	133	+ve	3.884	13.421	0.003	0.000	0.012	22.912
			24:COM17	35:CVOL4	16:COM3	-	24:COM11	35:CVOL4
			-4.320	0.000	-0.003	-0.390	-0.012	0.000
			18:COM5	-	26:COM13	34:CVOL3	18:COM5	-
	548	-ve	3.884	0.000	0.003	0.000	0.012	4.044
			24:COM17	-	16:COM3	-	16:COM3	20:COM7
			-4.320	-7.895	-0.003	-0.390	-0.008	-1.818
			18:COM5	34:CVOL3	26:COM13	34:CVOL3	26:COM13	30:COM17
14103	536	+ve	2.821	13.839	0.004	0.228	0.008	23.666
			16:COM3	35:CVOL4	16:COM3	35:CVOL4	24:COM11	35:CVOL4
			-2.049	0.000	-0.002	0.000	-0.013	0.000
			26:COM13	-	26:COM13	-	18:COM5	-
	550	-ve	2.821	0.000	0.004	0.228	0.015	0.000
			16:COM3	-	16:COM3	35:CVOL4	16:COM3	-
			-2.049	-6.445	-0.002	0.000	-0.007	-3.865
			26:COM13	34:CVOL3	26:COM13	-	26:COM13	18:COM5

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
14105	537	+ve	3.155	14.651	0.007	0.000	0.011	27.368
			24:COM1	35:CVOL4	16:COM3	-	24:COM1	35:CVOL4
			-3.004	0.000	-0.003	-0.234	-0.023	0.000
			18:COM5	-	26:COM1	22:COM9	18:COM5	-
	549	-ve	3.155	0.000	0.007	0.000	0.029	0.000
			24:COM1	-	16:COM3	-	16:COM3	-
			-3.004	-6.149	-0.003	-0.234	-0.010	-4.878
			18:COM5	34:CVOL3	26:COM1	22:COM9	26:COM1	18:COM5
14108	600	+ve	4.864	10.394	0.006	0.046	0.023	15.129
			16:COM3	35:CVOL4	24:COM1	24:COM1	24:COM1	20:COM7
			-2.102	0.000	-0.006	-0.091	-0.025	0.000
			26:COM1	-	18:COM5	18:COM5	18:COM5	-
	90	-ve	4.864	0.000	0.006	0.046	0.022	16.072
			16:COM3	-	24:COM1	24:COM1	24:COM1	20:COM7
			-2.102	-10.595	-0.006	-0.091	-0.025	0.000
			26:COM1	34:CVOL3	18:COM5	18:COM5	18:COM5	-
14110	79	+ve	5.027	8.103	0.011	0.199	0.037	11.035
			24:COM1	20:COM7	24:COM1	16:COM3	16:COM3	20:COM7
			-6.342	0.000	-0.012	0.000	-0.032	-1.193
			18:COM5	-	18:COM5	-	26:COM1	30:COM1
	6092	-ve	5.027	0.000	0.011	0.199	0.026	8.733
			24:COM1	-	24:COM1	16:COM3	24:COM1	20:COM7
			-6.342	-7.563	-0.012	0.000	-0.028	-0.943
			18:COM5	22:COM9	18:COM5	-	18:COM5	30:COM1
14111	603	+ve	2.589	9.857	0.011	0.170	0.043	13.465
			24:COM1	35:CVOL4	24:COM1	16:COM3	16:COM3	20:COM7
			-3.732	0.000	-0.014	-0.011	-0.037	0.000
			18:COM5	-	18:COM5	26:COM1	26:COM1	-
	6093	-ve	2.589	0.000	0.011	0.170	0.032	5.066
			24:COM1	-	24:COM1	16:COM3	24:COM1	20:COM7
			-3.732	-7.030	-0.014	-0.011	-0.039	-0.134
			18:COM5	34:CVOL3	18:COM5	26:COM1	18:COM5	30:COM1
14113	599	+ve	1.822	10.760	0.008	0.028	0.023	15.517
			28:COM1	35:CVOL4	24:COM1	24:COM1	24:COM1	20:COM7
			-1.923	0.000	-0.008	-0.175	-0.026	0.000
			22:COM9	-	18:COM5	18:COM5	18:COM5	-
	6094	-ve	1.822	0.000	0.008	0.028	0.027	8.550
			28:COM1	-	24:COM1	24:COM1	24:COM1	20:COM7
			-1.923	-8.995	-0.008	-0.175	-0.030	0.000
			22:COM9	34:CVOL3	18:COM5	18:COM5	18:COM5	-
14126	212	+ve	3.589	14.882	0.009	0.000	0.030	25.710
			20:COM7	35:CVOL4	20:COM7	-	28:COM1	20:COM7
			-2.096	0.000	-0.008	-0.419	-0.034	0.000
			30:COM1	-	30:COM1	22:COM9	22:COM9	-
	943	-ve	3.589	0.000	0.009	0.000	0.034	7.836
			20:COM7	-	20:COM7	-	20:COM7	20:COM7
			-2.096	-9.762	-0.008	-0.419	-0.028	-2.055
			30:COM1	34:CVOL3	30:COM1	22:COM9	30:COM1	30:COM1

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
14127	933	+ve	3.394	16.025	0.010	0.044	0.020	28.635
			20:COM7	35:CVOL4	20:COM7	28:COM15	28:COM15	35:CVOL4
			-1.548	0.000	-0.005	-0.290	-0.034	0.000
			30:COM17	-	30:COM17	22:COM9	22:COM9	-
	944	-ve	3.394	0.000	0.010	0.044	0.037	1.483
			20:COM7	-	20:COM7	28:COM15	20:COM7	24:COM11
			-1.548	-8.016	-0.005	-0.290	-0.018	-2.985
			30:COM17	34:CVOL3	30:COM17	22:COM9	30:COM17	18:COM5
14128	932	+ve	1.996	15.245	0.011	0.217	0.026	25.283
			20:COM7	35:CVOL4	20:COM7	34:CVOL3	28:COM15	35:CVOL4
			-1.239	0.000	-0.008	0.000	-0.039	0.000
			30:COM17	-	30:COM17	-	22:COM9	-
	945	-ve	1.996	0.000	0.011	0.217	0.041	1.784
			20:COM7	-	20:COM7	34:CVOL3	20:COM7	16:COM3
			-1.239	-8.198	-0.008	0.000	-0.028	-2.303
			30:COM17	34:CVOL3	30:COM17	-	30:COM17	26:COM13
14149	295	+ve	16.611	11.577	0.022	0.000	0.063	16.674
			28:COM15	34:CVOL3	28:COM15	-	20:COM7	20:COM7
			-18.615	0.000	-0.032	-0.316	-0.040	0.000
			22:COM9	-	22:COM9	22:COM9	30:COM17	-
	1511	-ve	16.611	0.000	0.022	0.000	0.063	0.000
			28:COM15	-	28:COM15	-	28:COM15	-
			-18.615	-2.786	-0.032	-0.316	-0.084	-5.480
			22:COM9	35:CVOL4	22:COM9	22:COM9	22:COM9	34:CVOL3
14150	1227	+ve	9.313	11.915	0.041	0.095	0.054	18.483
			28:COM15	34:CVOL3	20:COM7	28:COM15	28:COM15	16:COM3
			-15.072	0.000	-0.031	-0.238	-0.073	0.000
			22:COM9	-	30:COM17	22:COM9	22:COM9	-
	1510	-ve	9.313	0.147	0.041	0.095	0.115	0.000
			28:COM15	24:COM11	20:COM7	28:COM15	20:COM7	-
			-15.072	-2.955	-0.031	-0.238	-0.091	-5.191
			22:COM9	18:COM5	30:COM17	22:COM9	30:COM17	34:CVOL3
14151	1226	+ve	8.919	12.444	0.054	0.176	0.062	18.379
			28:COM15	34:CVOL3	16:COM3	20:COM7	24:COM11	34:CVOL3
			-12.847	0.000	-0.030	-0.099	-0.116	0.000
			22:COM9	-	26:COM13	30:COM17	18:COM5	-
	1521	-ve	8.919	0.000	0.054	0.176	0.138	0.000
			28:COM15	-	16:COM3	20:COM7	20:COM7	-
			-12.847	-2.262	-0.030	-0.099	-0.078	-6.705
			22:COM9	35:CVOL4	26:COM13	30:COM17	30:COM17	34:CVOL3
14188	6257	+ve	12.021	0.974	3.139	1.385	2.449	27.828
			28:COM15	28:COM15	20:COM7	24:COM11	28:COM15	24:COM11
			-20.313	-44.685	-2.584	-9.569	-3.111	-31.540
			22:COM9	22:COM9	30:COM17	18:COM5	22:COM9	18:COM5
	5417	-ve	12.021	0.000	3.139	1.385	4.002	123.006
			28:COM15	-	20:COM7	24:COM11	20:COM7	16:COM3
			-20.313	-47.282	-2.584	-9.569	-3.415	-23.194
			22:COM9	22:COM9	30:COM17	18:COM5	30:COM17	26:COM13

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
14213	6257	+ve	2.661	10.047	0.029	0.689	0.051	22.042
			28:COM15	20:COM7	24:COM11	20:COM7	16:COM3	20:COM7
			-2.747	-0.341	-0.032	-0.322	-0.049	-6.461
			22:COM9	30:COM17	18:COM5	30:COM17	26:COM13	30:COM17
	6264	-ve	2.661	3.568	0.029	0.689	0.046	2.412
			28:COM15	28:COM15	24:COM11	20:COM7	28:COM15	16:COM3
			-2.747	-4.971	-0.032	-0.322	-0.051	-0.191
			22:COM9	22:COM9	18:COM5	30:COM17	22:COM9	26:COM13
14215	1664	+ve	0.000	12.590	0.020	0.125	0.014	33.072
			-	34:CVOL3	16:COM3	28:COM15	24:COM11	20:COM7
			-7.730	0.000	-0.007	-0.538	-0.040	-4.010
			22:COM9	-	26:COM13	22:COM9	18:COM5	30:COM17
	1931	-ve	0.000	2.105	0.020	0.125	0.052	2.538
			-	20:COM7	16:COM3	28:COM15	16:COM3	28:COM15
			-7.730	-1.440	-0.007	-0.538	-0.018	-13.268
			22:COM9	30:COM17	26:COM13	22:COM9	26:COM13	22:COM9
14216	1770	+ve	1.456	12.979	0.054	0.326	0.060	34.624
			28:COM15	16:COM3	16:COM3	28:COM15	24:COM11	16:COM3
			-3.300	0.000	-0.032	-0.563	-0.105	-1.548
			22:COM9	-	26:COM13	22:COM9	18:COM5	26:COM13
	1930	-ve	1.456	2.818	0.054	0.326	0.144	0.812
			28:COM15	24:COM11	16:COM3	28:COM15	16:COM3	28:COM15
			-3.300	-2.792	-0.032	-0.563	-0.088	-4.762
			22:COM9	18:COM5	26:COM13	22:COM9	26:COM13	22:COM9
14217	1769	+ve	1.845	12.334	0.032	0.300	0.005	29.425
			24:COM17	34:CVOL3	20:COM7	16:COM3	28:COM15	16:COM3
			-4.436	0.000	-0.002	-0.170	-0.067	0.000
			18:COM5	-	30:COM17	26:COM13	22:COM9	-
	1941	-ve	1.845	2.106	0.032	0.300	0.081	2.174
			24:COM17	24:COM11	20:COM7	16:COM3	20:COM7	28:COM15
			-4.436	-2.088	-0.002	-0.170	-0.005	-7.751
			18:COM5	18:COM5	30:COM17	26:COM13	30:COM17	22:COM9
14236	2029	+ve	2.022	13.986	0.012	0.061	0.008	37.870
			28:COM15	34:CVOL3	20:COM7	28:COM15	28:COM15	20:COM7
			-5.954	0.000	-0.005	-0.676	-0.022	-3.868
			22:COM9	-	30:COM17	22:COM9	22:COM9	30:COM17
	2296	-ve	2.022	3.503	0.012	0.061	0.034	2.402
			28:COM15	20:COM7	20:COM7	28:COM15	20:COM7	24:COM17
			-5.954	-0.998	-0.005	-0.676	-0.014	-16.681
			22:COM9	30:COM17	30:COM17	22:COM9	30:COM17	18:COM5
14237	2135	+ve	0.059	14.383	0.043	0.237	0.042	40.375
			24:COM17	16:COM3	20:COM7	28:COM15	28:COM15	16:COM3
			-0.860	0.000	-0.023	-0.780	-0.082	0.000
			18:COM5	-	30:COM17	22:COM9	22:COM9	-
	2295	-ve	0.059	4.072	0.043	0.237	0.117	0.351
			24:COM17	16:COM3	20:COM7	28:COM15	20:COM7	28:COM15
			-0.860	-1.801	-0.023	-0.780	-0.067	-6.096
			18:COM5	26:COM13	30:COM17	22:COM9	30:COM17	22:COM9

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
14238	2134	+ve	0.541	14.828	0.035	0.222	0.019	36.942
			24:COM1	34:CVOL3	20:COM7	24:COM1	28:COM15	16:COM3
			-1.745	0.000	-0.009	-0.336	-0.071	0.000
			18:COM5	-	30:COM1	18:COM5	22:COM9	-
	2306	-ve	0.541	3.853	0.035	0.222	0.093	1.454
			24:COM1	16:COM3	20:COM7	24:COM1	20:COM7	28:COM15
			-1.745	-0.535	-0.009	-0.336	-0.025	-9.911
			18:COM5	26:COM13	30:COM1	18:COM5	30:COM1	22:COM9
14258	2421	+ve	2.436	11.622	0.017	0.168	0.000	33.548
			28:COM15	20:COM7	20:COM7	28:COM15	-	20:COM7
			-4.846	0.000	0.000	-0.563	-0.032	-7.479
			22:COM9	-	-	22:COM9	22:COM9	30:COM1
	2688	-ve	2.436	2.295	0.017	0.168	0.045	3.859
			28:COM15	28:COM15	20:COM7	28:COM15	20:COM7	28:COM15
			-4.846	-1.979	0.000	-0.563	0.000	-13.848
			22:COM9	22:COM9	-	22:COM9	-	22:COM9
14259	2527	+ve	0.261	12.364	0.041	0.400	0.037	34.227
			20:COM7	16:COM3	20:COM7	28:COM15	28:COM15	16:COM3
			-0.572	0.000	-0.021	-0.673	-0.078	-3.386
			30:COM1	-	30:COM1	22:COM9	22:COM9	26:COM13
	2687	-ve	0.261	3.077	0.041	0.400	0.112	1.114
			20:COM7	24:COM11	20:COM7	28:COM15	20:COM7	28:COM15
			-0.572	-3.093	-0.021	-0.673	-0.061	-4.967
			30:COM1	18:COM5	30:COM1	22:COM9	30:COM1	22:COM9
14260	2526	+ve	0.628	11.754	0.037	0.281	0.031	28.992
			24:COM1	16:COM3	20:COM7	16:COM3	28:COM15	16:COM3
			-1.522	0.000	-0.015	-0.202	-0.075	0.000
			18:COM5	-	30:COM1	26:COM13	22:COM9	-
	2698	-ve	0.628	2.417	0.037	0.281	0.095	2.735
			24:COM1	24:COM11	20:COM7	16:COM3	20:COM7	28:COM15
			-1.522	-2.266	-0.015	-0.202	-0.040	-8.373
			18:COM5	18:COM5	30:COM1	26:COM13	30:COM1	22:COM9
14289	5664	+ve	0.000	0.000	1.018	0.000	1.082	47.092
			-	-	28:COM15	-	28:COM15	20:COM7
			-20.842	-31.296	-3.826	-23.438	-0.974	0.000
			22:COM9	22:COM9	22:COM9	22:COM9	22:COM9	-
	2801	-ve	0.000	0.000	1.018	0.000	1.501	63.095
			-	-	28:COM15	-	28:COM15	20:COM7
			-20.842	-31.996	-3.826	-23.438	-2.814	0.000
			22:COM9	22:COM9	22:COM9	22:COM9	22:COM9	-
14290	5664	+ve	1.815	10.121	0.000	0.641	0.017	16.997
			20:COM7	34:CVOL3	-	20:COM7	28:COM15	32:CVOL1
			-0.202	0.000	-0.056	0.000	-0.021	0.000
			30:COM1	-	22:COM9	-	22:COM9	-
	6189	-ve	1.815	8.147	0.000	0.641	0.000	4.169
			20:COM7	34:CVOL3	-	20:COM7	-	32:CVOL1
			-0.202	0.000	-0.056	0.000	-0.066	0.000
			30:COM1	-	22:COM9	-	22:COM9	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
14296	5665	+ve	0.000	0.000	0.000	0.000	1.959	40.253
			-	-	-	-	20:COM7	20:COM7
			-14.775	-28.890	-12.494	-15.011	0.000	0.000
			22:COM9	22:COM9	22:COM9	32:CVOL1	-	-
	3160	-ve	0.000	0.000	0.000	0.000	0.480	55.010
			-	-	-	-	28:COM1	20:COM7
			-14.775	-29.473	-12.494	-15.011	-5.363	0.000
			22:COM9	22:COM9	22:COM9	32:CVOL1	22:COM9	-
14297	5665	+ve	0.000	10.044	0.326	0.738	0.000	11.832
			-	34:CVOL3	20:COM7	20:COM7	-	32:CVOL1
			-9.942	0.000	0.000	0.000	-0.317	0.000
			22:COM9	-	-	-	22:COM9	-
	6228	-ve	0.000	8.070	0.326	0.738	0.158	0.000
			-	34:CVOL3	20:COM7	20:COM7	20:COM7	-
			-9.942	0.000	0.000	0.000	0.000	-3.844
			22:COM9	-	-	-	-	35:CVOL4
14303	2827	+ve	1.816	11.470	0.018	0.181	0.000	33.565
			28:COM1	20:COM7	20:COM7	28:COM1	-	20:COM7
			-4.228	0.000	0.000	-0.584	-0.039	-6.681
			22:COM9	-	-	22:COM9	18:COM5	30:COM1
	3063	-ve	1.816	2.157	0.018	0.181	0.047	4.388
			28:COM1	28:COM1	20:COM7	28:COM1	20:COM7	28:COM1
			-4.228	-1.797	0.000	-0.584	0.000	-13.763
			22:COM9	22:COM9	-	22:COM9	-	22:COM9
14304	2928	+ve	0.260	12.416	0.037	0.416	0.026	34.566
			28:COM1	16:COM3	20:COM7	28:COM1	28:COM1	16:COM3
			-1.052	0.000	-0.016	-0.682	-0.072	-2.895
			22:COM9	-	30:COM1	22:COM9	22:COM9	26:COM1
	3062	-ve	0.260	3.124	0.037	0.416	0.101	1.255
			28:COM1	24:COM1	20:COM7	28:COM1	20:COM7	28:COM1
			-1.052	-2.987	-0.016	-0.682	-0.047	-4.986
			22:COM9	18:COM5	30:COM1	22:COM9	30:COM1	22:COM9
14305	2927	+ve	0.448	11.771	0.042	0.306	0.032	29.182
			28:COM1	16:COM3	16:COM3	16:COM3	24:COM1	16:COM3
			-1.939	0.000	-0.016	-0.193	-0.086	0.000
			22:COM9	-	26:COM1	26:COM1	18:COM5	-
	3071	-ve	0.448	2.460	0.042	0.306	0.109	2.951
			28:COM1	24:COM1	16:COM3	16:COM3	20:COM7	28:COM1
			-1.939	-2.293	-0.016	-0.193	-0.042	-8.333
			22:COM9	18:COM5	26:COM1	26:COM1	30:COM1	22:COM9
14316	2818	+ve	21.699	59.729	0.511	31.265	1.394	157.588
			28:COM1	20:COM7	24:COM1	16:COM3	16:COM3	20:COM7
			-32.128	-13.551	-1.196	-2.788	-0.795	-59.032
			22:COM9	30:COM1	18:COM5	26:COM1	26:COM1	30:COM1
	5673	-ve	21.699	57.377	0.511	31.265	0.278	38.204
			28:COM1	20:COM7	24:COM1	16:COM3	24:COM1	20:COM7
			-32.128	-15.315	-1.196	-2.788	-1.076	-29.633
			22:COM9	30:COM1	18:COM5	26:COM1	18:COM5	30:COM1

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
14318	3186	+ve	1.144	0.918	3.614	0.000	2.951	0.000
			28:COM1	28:COM1	28:COM1	-	20:COM7	-
			-5.255	-3.832	-5.745	-2.258	-1.898	-6.648
			22:COM9	22:COM9	22:COM9	34:CVOL	30:COM1	18:COM5
	5670	-ve	1.144	0.000	3.614	0.000	1.958	3.699
			28:COM1	-	28:COM1	-	28:COM1	28:COM1
			-5.255	-5.284	-5.745	-2.258	-3.179	-6.273
			22:COM9	22:COM9	22:COM9	34:CVOL	22:COM9	22:COM9
14319	5671	+ve	22.328	6.836	0.938	6.016	2.126	0.000
			28:COM1	28:COM1	24:COM1	28:COM1	16:COM3	-
			-36.096	-8.014	-1.515	-12.476	-1.319	-37.264
			22:COM9	22:COM9	18:COM5	22:COM9	26:COM1	22:COM9
	5678	-ve	22.328	4.870	0.938	6.016	0.826	10.769
			28:COM1	28:COM1	24:COM1	28:COM1	24:COM1	28:COM1
			-36.096	-10.635	-1.515	-12.476	-1.331	-48.728
			22:COM9	22:COM9	18:COM5	22:COM9	18:COM5	22:COM9
14320	5671	+ve	3.469	5.293	0.096	0.895	0.215	0.000
			24:COM1	20:COM7	24:COM1	20:COM7	16:COM3	-
			-6.880	-0.171	-0.203	-0.130	-0.095	-9.671
			18:COM5	30:COM1	18:COM5	30:COM1	26:COM1	22:COM9
	5677	-ve	3.469	4.377	0.096	0.895	0.097	0.000
			24:COM1	20:COM7	24:COM1	20:COM7	24:COM1	-
			-6.880	-0.858	-0.203	-0.130	-0.189	-19.229
			18:COM5	30:COM1	18:COM5	30:COM1	18:COM5	22:COM9
14321	5672	+ve	23.743	21.564	2.614	2.575	5.488	0.000
			28:COM1	20:COM7	28:COM1	28:COM1	20:COM7	-
			-41.635	0.000	-6.045	-7.174	-2.710	-23.014
			22:COM9	-	22:COM9	22:COM9	30:COM1	18:COM5
	5671	-ve	23.743	19.782	2.614	2.575	1.457	0.000
			28:COM1	20:COM7	28:COM1	28:COM1	24:COM1	-
			-41.635	0.000	-6.045	-7.174	-3.983	-43.321
			22:COM9	-	22:COM9	22:COM9	18:COM5	22:COM9
14322	5672	+ve	1.713	10.992	0.211	0.657	0.448	16.847
			24:COM1	20:COM7	28:COM1	20:COM7	20:COM7	20:COM7
			-1.618	0.000	-0.449	0.000	-0.220	0.000
			18:COM5	-	22:COM9	-	30:COM1	-
	5675	-ve	1.713	8.435	0.211	0.657	0.175	3.996
			24:COM1	20:COM7	28:COM1	20:COM7	28:COM1	20:COM7
			-1.618	-0.036	-0.449	0.000	-0.394	-1.630
			18:COM5	30:COM1	22:COM9	-	22:COM9	30:COM1
14323	5673	+ve	22.061	33.629	2.104	17.709	1.001	24.480
			28:COM1	20:COM7	20:COM7	20:COM7	28:COM1	20:COM7
			-36.782	0.000	-1.971	-0.677	-0.984	-11.307
			22:COM9	-	30:COM1	30:COM1	22:COM9	30:COM1
	5672	-ve	22.061	32.549	2.104	17.709	1.013	0.000
			28:COM1	20:COM7	20:COM7	20:COM7	20:COM7	-
			-36.782	0.000	-1.971	-0.677	-0.871	-20.564
			22:COM9	-	30:COM1	30:COM1	30:COM1	18:COM5

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
14327	5675	+ve	2.351	8.655	0.427	1.509	0.206	5.351
			20:COM7	34:CVOL3	24:COM11	20:COM7	16:COM3	20:COM7
			-1.267	0.000	-0.667	0.000	-0.134	-1.273
			30:COM17	-	18:COM5	-	26:COM13	30:COM17
	6231	-ve	2.351	7.505	0.427	1.509	0.169	2.834
			20:COM7	34:CVOL3	24:COM11	20:COM7	24:COM11	28:COM15
			-1.267	0.000	-0.667	0.000	-0.254	-5.980
			30:COM17	-	18:COM5	-	18:COM5	22:COM9
14328	5671	+ve	2.225	8.283	0.027	0.000	0.085	14.278
			20:COM7	20:COM7	24:COM11	-	16:COM3	20:COM7
			-2.097	0.000	-0.080	-0.429	-0.031	0.000
			30:COM17	-	18:COM5	34:CVOL3	26:COM13	-
	5675	-ve	2.225	4.110	0.027	0.000	0.026	1.557
			20:COM7	20:COM7	24:COM11	-	24:COM11	20:COM7
			-2.097	-0.679	-0.080	-0.429	-0.081	0.000
			30:COM17	30:COM17	18:COM5	34:CVOL3	18:COM5	-
14329	5676	+ve	1.829	5.376	0.067	0.491	0.056	11.107
			28:COM15	16:COM3	20:COM7	16:COM3	28:COM15	20:COM7
			-3.242	0.000	-0.057	-0.478	-0.064	0.000
			22:COM9	-	30:COM17	26:COM13	22:COM9	-
	3188	-ve	1.829	1.212	0.067	0.491	0.074	4.388
			28:COM15	16:COM3	20:COM7	16:COM3	20:COM7	20:COM7
			-3.242	-0.174	-0.057	-0.478	-0.062	-0.397
			22:COM9	26:COM13	30:COM17	26:COM13	30:COM17	30:COM17
14331	5678	+ve	6.984	5.565	0.242	0.221	0.181	3.815
			28:COM15	20:COM7	24:COM11	28:COM15	16:COM3	16:COM3
			-19.445	-1.387	-0.373	-0.360	-0.113	-0.057
			22:COM9	30:COM17	18:COM5	22:COM9	26:COM13	26:COM13
	5677	-ve	6.984	3.624	0.242	0.221	0.135	4.853
			28:COM15	20:COM7	24:COM11	28:COM15	24:COM11	20:COM7
			-19.445	-2.536	-0.373	-0.360	-0.200	-3.784
			22:COM9	30:COM17	18:COM5	22:COM9	18:COM5	30:COM17
14332	5676	+ve	15.625	0.000	1.568	0.942	1.210	26.769
			28:COM15	-	28:COM15	28:COM15	20:COM7	28:COM15
			-25.573	-23.426	-1.727	-11.431	-1.235	-29.332
			22:COM9	18:COM5	22:COM9	22:COM9	30:COM17	22:COM9
	2810	-ve	15.625	0.000	1.568	0.942	2.252	80.550
			28:COM15	-	28:COM15	28:COM15	28:COM15	16:COM3
			-25.573	-25.987	-1.727	-11.431	-2.630	-14.480
			22:COM9	18:COM5	22:COM9	22:COM9	22:COM9	26:COM13
14333	5678	+ve	17.515	0.000	0.253	4.980	0.390	10.844
			28:COM15	-	24:COM11	28:COM15	16:COM3	28:COM15
			-31.796	-10.904	-0.584	-13.046	-0.036	-48.028
			22:COM9	18:COM5	18:COM5	22:COM9	26:COM13	22:COM9
	5676	-ve	17.515	0.000	0.253	4.980	0.600	29.212
			28:COM15	-	24:COM11	28:COM15	24:COM11	24:COM17
			-31.796	-13.550	-0.584	-13.046	-1.006	-32.373
			22:COM9	18:COM5	18:COM5	22:COM9	18:COM5	18:COM5

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
14334	5677	+ve	4.932	2.475	0.174	1.563	0.181	0.000
			24:COM1	28:COM1	16:COM3	20:COM7	28:COM1	-
			-8.253	-6.690	-0.161	-1.552	-0.194	-14.709
			18:COM5	22:COM9	26:COM1	30:COM1	22:COM9	18:COM5
	3188	-ve	4.932	1.760	0.174	1.563	0.166	2.642
			24:COM1	28:COM1	16:COM3	20:COM7	16:COM3	28:COM1
			-8.253	-7.644	-0.161	-1.552	-0.153	-12.600
			18:COM5	22:COM9	26:COM1	30:COM1	26:COM1	22:COM9
14355	5679	+ve	34.402	21.695	4.496	3.050	6.509	0.000
			24:COM1	20:COM7	28:COM1	28:COM1	20:COM7	-
			-51.597	0.000	-7.245	-7.315	-4.280	-22.198
			18:COM5	-	22:COM9	22:COM9	30:COM1	22:COM9
	5680	-ve	34.402	19.912	4.496	3.050	2.745	0.000
			24:COM1	20:COM7	28:COM1	28:COM1	24:COM1	-
			-51.597	0.000	-7.245	-7.315	-4.766	-42.334
			18:COM5	-	22:COM9	22:COM9	18:COM5	18:COM5
14356	5679	+ve	1.311	11.419	0.364	0.658	0.566	17.085
			28:COM1	20:COM7	28:COM1	20:COM7	20:COM7	20:COM7
			-2.359	0.000	-0.567	0.000	-0.369	0.000
			22:COM9	-	22:COM9	-	30:COM1	-
	5683	-ve	1.311	8.862	0.364	0.658	0.316	4.273
			28:COM1	20:COM7	28:COM1	20:COM7	24:COM1	20:COM7
			-2.359	-0.556	-0.567	0.000	-0.500	-2.233
			22:COM9	30:COM1	22:COM9	-	18:COM5	30:COM1
14358	3551	+ve	6.588	7.765	0.140	1.554	0.197	3.071
			24:COM1	20:COM7	28:COM1	20:COM7	20:COM7	28:COM1
			-10.477	-2.297	-0.205	-1.416	-0.132	-12.855
			18:COM5	30:COM1	22:COM9	30:COM1	30:COM1	22:COM9
	5685	-ve	6.588	6.811	0.140	1.554	0.158	0.000
			24:COM1	20:COM7	28:COM1	20:COM7	28:COM1	-
			-10.477	-3.012	-0.205	-1.416	-0.227	-14.393
			18:COM5	30:COM1	22:COM9	30:COM1	22:COM9	22:COM9
14359	5681	+ve	31.491	34.182	3.392	18.478	1.057	26.852
			24:COM1	20:COM7	20:COM7	20:COM7	28:COM1	20:COM7
			-47.518	0.000	-2.264	-1.598	-1.661	-11.932
			18:COM5	-	30:COM1	30:COM1	22:COM9	30:COM1
	5679	-ve	31.491	33.101	3.392	18.478	1.529	0.000
			24:COM1	20:COM7	20:COM7	20:COM7	20:COM7	-
			-47.518	0.000	-2.264	-1.598	-1.075	-20.111
			18:COM5	-	30:COM1	30:COM1	30:COM1	22:COM9
14362	5682	+ve	1.472	5.541	4.868	0.000	3.775	4.404
			24:COM1	20:COM7	28:COM1	-	20:COM7	28:COM1
			-5.517	-0.175	-6.804	-2.255	-2.694	-7.108
			18:COM5	30:COM1	22:COM9	34:CVOL3	30:COM1	22:COM9
	3549	-ve	1.472	4.089	4.868	0.000	2.500	0.013
			24:COM1	20:COM7	28:COM1	-	28:COM1	28:COM1
			-5.517	-1.265	-6.804	-2.255	-3.485	-7.087
			18:COM5	30:COM1	22:COM9	34:CVOL3	22:COM9	22:COM9

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
14363	5683	+ve	2.691	8.722	0.526	1.759	0.204	5.859
			24:COM1	20:COM7	24:COM1	20:COM7	16:COM3	20:COM7
			-2.825	0.000	-0.778	0.000	-0.134	-2.086
			18:COM5	-	18:COM5	-	26:COM1	30:COM1
	6271	-ve	2.691	7.825	0.526	1.759	0.218	3.824
			24:COM1	20:COM7	24:COM1	20:COM7	24:COM1	28:COM1
			-2.825	0.000	-0.778	0.000	-0.314	-6.995
			18:COM5	-	18:COM5	-	18:COM5	22:COM9
14364	5684	+ve	3.016	5.179	0.035	0.496	0.039	10.608
			28:COM1	20:COM7	20:COM7	16:COM3	24:COM1	20:COM7
			-3.994	0.000	-0.035	-0.506	-0.041	0.000
			22:COM9	-	30:COM1	26:COM1	18:COM5	-
	3551	-ve	3.016	1.016	0.035	0.496	0.032	4.261
			28:COM1	20:COM7	20:COM7	16:COM3	28:COM1	20:COM7
			-3.994	-0.171	-0.035	-0.506	-0.034	-0.400
			22:COM9	30:COM1	30:COM1	26:COM1	22:COM9	30:COM1
14366	5686	+ve	3.073	6.379	0.142	0.477	0.080	10.724
			28:COM1	20:COM7	20:COM7	28:COM1	28:COM1	20:COM7
			-4.463	-0.753	-0.130	-0.678	-0.093	-2.802
			22:COM9	30:COM1	30:COM1	22:COM9	22:COM9	30:COM1
	5685	-ve	3.073	4.305	0.142	0.477	0.054	11.086
			28:COM1	20:COM7	20:COM7	28:COM1	28:COM1	20:COM7
			-4.463	-2.002	-0.130	-0.678	-0.055	-7.214
			22:COM9	30:COM1	30:COM1	22:COM9	22:COM9	30:COM1
14367	5684	+ve	23.140	0.000	1.480	1.631	1.335	28.636
			28:COM1	-	28:COM1	28:COM1	20:COM7	28:COM1
			-32.842	-23.119	-1.663	-11.745	-1.259	-31.592
			22:COM9	18:COM5	22:COM9	22:COM9	30:COM1	22:COM9
	3207	-ve	23.140	0.000	1.480	1.631	2.036	80.563
			28:COM1	-	28:COM1	28:COM1	28:COM1	16:COM3
			-32.842	-25.680	-1.663	-11.745	-2.366	-13.886
			22:COM9	18:COM5	22:COM9	22:COM9	22:COM9	26:COM1
14368	5686	+ve	24.530	0.000	0.500	6.014	0.680	11.450
			28:COM1	-	28:COM1	28:COM1	20:COM7	28:COM1
			-37.214	-11.127	-0.637	-14.467	-0.555	-49.531
			22:COM9	18:COM5	22:COM9	22:COM9	30:COM1	22:COM9
	5684	-ve	24.530	0.000	0.500	6.014	0.646	30.698
			28:COM1	-	28:COM1	28:COM1	28:COM1	28:COM1
			-37.214	-13.774	-0.637	-14.467	-0.834	-33.821
			22:COM9	18:COM5	22:COM9	22:COM9	22:COM9	22:COM9
14369	5685	+ve	6.136	1.643	0.147	1.058	0.235	0.000
			24:COM1	28:COM1	24:COM1	20:COM7	16:COM3	-
			-9.924	-4.622	-0.244	-0.397	-0.145	-20.376
			18:COM5	22:COM9	18:COM5	30:COM1	26:COM1	22:COM9
	5680	-ve	6.136	0.956	0.147	1.058	0.148	0.000
			24:COM1	28:COM1	24:COM1	20:COM7	24:COM1	-
			-9.924	-5.538	-0.244	-0.397	-0.250	-10.357
			18:COM5	22:COM9	18:COM5	30:COM1	18:COM5	22:COM9

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
14392	3222	+ve	1.855	12.159	0.019	0.138	0.000	35.495
			28:COM15	20:COM7	20:COM7	28:COM15	28:COM15	20:COM7
			-4.166	0.000	0.000	-0.652	-0.040	-5.629
			22:COM9	-	-	22:COM9	22:COM9	30:COM17
	3442	-ve	1.855	2.796	0.019	0.138	0.048	3.771
			28:COM15	20:COM7	20:COM7	28:COM15	20:COM7	28:COM15
			-4.166	-1.331	0.000	-0.652	0.000	-15.261
			22:COM9	30:COM17	-	22:COM9	-	22:COM9
14393	3320	+ve	0.510	13.173	0.036	0.347	0.027	37.555
			28:COM15	16:COM3	20:COM7	28:COM15	28:COM15	16:COM3
			-1.022	0.000	-0.016	-0.793	-0.070	-0.978
			22:COM9	-	30:COM17	22:COM9	22:COM9	26:COM13
	3441	-ve	0.510	3.788	0.036	0.347	0.097	0.977
			28:COM15	16:COM3	20:COM7	28:COM15	20:COM7	28:COM15
			-1.022	-2.404	-0.016	-0.793	-0.048	-5.561
			22:COM9	26:COM13	30:COM17	22:COM9	30:COM17	22:COM9
14394	3319	+ve	0.761	12.932	0.046	0.224	0.035	33.580
			28:COM15	16:COM3	16:COM3	24:COM17	24:COM11	16:COM3
			-1.854	0.000	-0.017	-0.290	-0.094	0.000
			22:COM9	-	26:COM13	18:COM5	18:COM5	-
	3449	-ve	0.761	3.524	0.046	0.224	0.118	2.389
			28:COM15	16:COM3	16:COM3	24:COM17	16:COM3	28:COM15
			-1.854	-1.506	-0.017	-0.290	-0.044	-9.401
			22:COM9	26:COM13	26:COM13	18:COM5	26:COM13	22:COM9
14406	3595	+ve	2.047	11.628	0.018	0.174	0.004	33.883
			28:COM15	20:COM7	20:COM7	28:COM15	28:COM15	20:COM7
			-4.440	0.000	-0.001	-0.596	-0.039	-5.764
			22:COM9	-	30:COM17	22:COM9	22:COM9	30:COM17
	3815	-ve	2.047	2.265	0.018	0.174	0.045	4.121
			28:COM15	20:COM7	20:COM7	28:COM15	20:COM7	28:COM15
			-4.440	-1.460	-0.001	-0.596	-0.001	-14.314
			22:COM9	30:COM17	30:COM17	22:COM9	30:COM17	22:COM9
14407	3693	+ve	0.751	12.649	0.032	0.399	0.028	35.476
			20:COM7	16:COM3	20:COM7	28:COM15	28:COM15	16:COM3
			-1.043	0.000	-0.016	-0.699	-0.062	-2.234
			30:COM17	-	30:COM17	22:COM9	22:COM9	26:COM13
	3814	-ve	0.751	3.263	0.032	0.399	0.086	1.183
			20:COM7	16:COM3	20:COM7	28:COM15	20:COM7	28:COM15
			-1.043	-2.739	-0.016	-0.699	-0.048	-5.128
			30:COM17	26:COM13	30:COM17	22:COM9	30:COM17	22:COM9
14408	3692	+ve	1.398	12.118	0.045	0.294	0.041	30.514
			28:COM15	16:COM3	20:COM7	16:COM3	24:COM11	16:COM3
			-2.236	0.000	-0.020	-0.190	-0.092	0.000
			22:COM9	-	30:COM17	26:COM13	18:COM5	-
	3822	-ve	1.398	2.710	0.045	0.294	0.116	2.835
			28:COM15	16:COM3	20:COM7	16:COM3	20:COM7	28:COM15
			-2.236	-2.100	-0.020	-0.190	-0.052	-8.571
			22:COM9	26:COM13	30:COM17	26:COM13	30:COM17	22:COM9

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
14411	5693	+ve	0.000	0.000	0.000	0.000	2.005	40.738
			-	-	-	-	20:COM7	20:COM7
			-16.919	-29.031	-11.665	-15.302	0.000	0.000
			22:COM9	22:COM9	22:COM9	22:COM9	-	-
	3527	-ve	0.000	0.000	0.000	0.000	0.335	55.565
			-	-	-	-	28:COM15	20:COM7
			-16.919	-29.614	-11.665	-15.302	-4.927	0.000
			22:COM9	22:COM9	22:COM9	22:COM9	22:COM9	-
14412	5693	+ve	0.000	10.060	0.356	0.744	0.000	11.965
			-	34:CVOL3	16:COM3	20:COM7	-	32:CVOL1
			-9.423	0.000	0.000	0.000	-0.335	0.000
			22:COM9	-	-	-	18:COM5	-
	6268	-ve	0.000	8.086	0.356	0.744	0.184	0.000
			-	34:CVOL3	16:COM3	20:COM7	16:COM3	-
			-9.423	0.000	0.000	0.000	0.000	-3.715
			22:COM9	-	-	-	-	35:CVOL4
14416	5694	+ve	0.000	0.000	0.000	0.000	1.580	41.399
			-	-	-	-	20:COM7	20:COM7
			-19.949	-28.689	-11.448	-14.703	0.000	0.000
			22:COM9	22:COM9	22:COM9	22:COM9	-	-
	3900	-ve	0.000	0.000	0.000	0.000	0.367	56.054
			-	-	-	-	28:COM15	20:COM7
			-19.949	-29.272	-11.448	-14.703	-4.957	0.000
			22:COM9	22:COM9	22:COM9	22:COM9	22:COM9	-
14417	5694	+ve	0.000	9.868	0.523	0.737	0.000	11.114
			-	32:CVOL1	16:COM3	20:COM7	-	32:CVOL1
			-9.165	0.000	0.000	0.000	-0.440	0.000
			22:COM9	-	-	-	22:COM9	-
	6279	-ve	0.000	7.565	0.523	0.737	0.321	0.000
			-	32:CVOL1	16:COM3	20:COM7	16:COM3	-
			-9.165	0.000	0.000	0.000	0.000	-3.583
			22:COM9	-	-	-	-	33:CVOL2
14418	5695	+ve	42.845	21.178	6.173	3.492	8.254	0.000
			24:COM1	20:COM7	28:COM15	28:COM15	20:COM7	-
			-66.798	0.000	-9.251	-7.147	-5.616	-20.647
			18:COM5	-	22:COM9	22:COM9	30:COM1	22:COM9
	5699	-ve	42.845	19.385	6.173	3.492	3.988	0.000
			24:COM1	20:COM7	28:COM15	28:COM15	28:COM15	-
			-66.798	0.000	-9.251	-7.147	-6.136	-39.092
			18:COM5	-	22:COM9	22:COM9	22:COM9	18:COM5
14419	5695	+ve	1.291	8.826	0.478	0.570	0.728	14.825
			28:COM15	20:COM7	28:COM15	20:COM7	20:COM7	20:COM7
			-2.182	-0.510	-0.737	0.000	-0.473	0.000
			22:COM9	30:COM1	22:COM9	-	30:COM1	-
	5700	-ve	1.291	7.960	0.478	0.570	0.424	6.046
			28:COM15	20:COM7	28:COM15	20:COM7	28:COM15	20:COM7
			-2.182	-1.160	-0.737	0.000	-0.657	-1.775
			22:COM9	30:COM1	22:COM9	-	22:COM9	30:COM1

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
14420	5696	+ve	17.662	2.263	0.011	0.031	0.115	0.000
			20:COM7	35:CVOL4	28:COM15	28:COM15	20:COM7	-
			-4.185	0.000	-0.059	-0.658	-0.021	-3.734
			30:COM17	-	22:COM9	22:COM9	30:COM17	18:COM5
	3931	-ve	17.662	0.000	0.011	0.031	0.024	5.790
			20:COM7	-	28:COM15	28:COM15	28:COM15	20:COM7
			-4.185	-5.776	-0.059	-0.658	-0.116	0.000
			30:COM17	34:CVOL3	22:COM9	22:COM9	22:COM9	-
14421	5696	+ve	1.728	5.065	5.763	0.000	4.617	5.823
			24:COM17	20:COM7	28:COM15	-	20:COM7	28:COM15
			-5.044	-0.539	-8.251	-2.096	-3.225	-5.417
			18:COM5	30:COM17	22:COM9	32:CVOL1	30:COM17	22:COM9
	3922	-ve	1.728	4.573	5.763	0.000	2.924	1.240
			24:COM17	20:COM7	28:COM15	-	28:COM15	28:COM15
			-5.044	-0.908	-8.251	-2.096	-4.186	-5.204
			18:COM5	30:COM17	22:COM9	32:CVOL1	22:COM9	22:COM9
14422	5697	+ve	2.890	5.115	0.061	0.493	0.050	10.166
			28:COM15	20:COM7	20:COM7	24:COM17	28:COM15	20:COM7
			-4.666	0.000	-0.050	-0.536	-0.065	0.000
			22:COM9	-	30:COM17	18:COM5	22:COM9	-
	3924	-ve	2.890	0.968	0.061	0.493	0.061	3.950
			28:COM15	28:COM15	20:COM7	24:COM17	20:COM7	20:COM7
			-4.666	-0.181	-0.050	-0.536	-0.052	-0.508
			22:COM9	22:COM9	30:COM17	18:COM5	30:COM17	30:COM17
14423	5698	+ve	3.226	6.144	0.164	0.489	0.071	10.076
			24:COM17	20:COM7	20:COM7	28:COM15	28:COM15	20:COM7
			-4.553	-0.880	-0.112	-0.701	-0.106	-3.186
			18:COM5	30:COM17	30:COM17	22:COM9	22:COM9	30:COM17
	5701	-ve	3.226	4.074	0.164	0.489	0.062	11.033
			24:COM17	20:COM7	20:COM7	28:COM15	20:COM7	20:COM7
			-4.553	-2.126	-0.112	-0.701	-0.045	-7.820
			18:COM5	30:COM17	30:COM17	22:COM9	30:COM17	30:COM17
14425	5697	+ve	25.984	0.000	1.645	2.071	1.726	29.617
			28:COM15	-	28:COM15	28:COM15	20:COM7	28:COM15
			-39.356	-21.653	-2.145	-11.422	-1.375	-33.327
			22:COM9	18:COM5	22:COM9	22:COM9	30:COM17	22:COM9
	3580	-ve	25.984	0.000	1.645	2.071	2.283	77.749
			28:COM15	-	28:COM15	28:COM15	28:COM15	20:COM7
			-39.356	-24.214	-2.145	-11.422	-3.043	-14.672
			22:COM9	18:COM5	22:COM9	22:COM9	22:COM9	30:COM17
14426	5698	+ve	28.962	0.000	0.282	6.619	0.522	12.546
			28:COM15	-	28:COM15	28:COM15	20:COM7	28:COM15
			-46.585	-10.182	-0.386	-14.116	-0.388	-48.887
			22:COM9	18:COM5	22:COM9	22:COM9	30:COM17	22:COM9
	5697	-ve	28.962	0.000	0.282	6.619	0.331	31.631
			28:COM15	-	28:COM15	28:COM15	28:COM15	28:COM15
			-46.585	-12.828	-0.386	-14.116	-0.434	-35.611
			22:COM9	18:COM5	22:COM9	22:COM9	22:COM9	22:COM9

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
14427	5699	+ve	31.796	8.257	0.761	6.915	1.761	0.000
			28:COM15	28:COM15	24:COM11	28:COM15	16:COM3	-
			-52.280	-7.442	-1.160	-11.505	-1.081	-33.355
			22:COM9	22:COM9	18:COM5	22:COM9	26:COM13	22:COM9
	5698	-ve	31.796	6.299	0.761	6.915	0.656	11.122
			28:COM15	28:COM15	24:COM11	28:COM15	24:COM11	28:COM15
			-52.280	-10.052	-1.160	-11.505	-0.877	-48.911
			22:COM9	22:COM9	18:COM5	22:COM9	18:COM5	22:COM9
14428	5700	+ve	3.596	7.060	0.495	1.841	0.204	7.792
			16:COM3	20:COM7	24:COM11	20:COM7	16:COM3	20:COM7
			-2.513	0.000	-0.826	-0.044	-0.111	-1.677
			26:COM13	-	18:COM5	30:COM17	26:COM13	30:COM17
	6282	-ve	3.596	6.756	0.495	1.841	0.216	5.645
			16:COM3	20:COM7	24:COM11	20:COM7	24:COM11	20:COM7
			-2.513	0.000	-0.826	-0.044	-0.341	-5.154
			26:COM13	-	18:COM5	30:COM17	18:COM5	30:COM17
14429	5699	+ve	2.420	7.367	0.072	0.000	0.112	12.989
			20:COM7	20:COM7	28:COM15	-	20:COM7	20:COM7
			-1.685	0.000	-0.117	-0.406	-0.067	0.000
			30:COM17	-	22:COM9	32:CVOL1	30:COM17	-
	5700	-ve	2.420	3.186	0.072	0.000	0.082	2.126
			20:COM7	20:COM7	28:COM15	-	28:COM15	20:COM7
			-1.685	-1.180	-0.117	-0.406	-0.129	-0.049
			30:COM17	30:COM17	22:COM9	32:CVOL1	22:COM9	30:COM17
14431	5699	+ve	7.216	5.266	0.163	1.050	0.268	0.000
			28:COM15	20:COM7	24:COM11	20:COM7	16:COM3	-
			-12.816	-1.121	-0.266	-0.411	-0.160	-9.867
			22:COM9	30:COM17	18:COM5	30:COM17	26:COM13	22:COM9
	5701	-ve	7.216	4.354	0.163	1.050	0.162	0.060
			28:COM15	20:COM7	24:COM11	20:COM7	24:COM11	28:COM15
			-12.816	-1.806	-0.266	-0.411	-0.258	-19.296
			22:COM9	30:COM17	18:COM5	30:COM17	18:COM5	22:COM9
14433	5701	+ve	7.607	3.414	0.114	1.650	0.223	0.000
			24:COM11	28:COM15	24:COM11	20:COM7	16:COM3	-
			-13.120	-6.859	-0.188	-1.441	-0.141	-13.392
			18:COM5	22:COM9	18:COM5	30:COM17	26:COM13	22:COM9
	3924	-ve	7.607	2.698	0.114	1.650	0.094	3.375
			24:COM11	28:COM15	24:COM11	20:COM7	24:COM11	28:COM15
			-13.120	-7.813	-0.188	-1.441	-0.166	-12.187
			18:COM5	22:COM9	18:COM5	30:COM17	18:COM5	22:COM9
14434	5702	+ve	38.218	31.066	3.362	16.784	1.214	26.425
			24:COM11	20:COM7	20:COM7	20:COM7	28:COM15	20:COM7
			-60.684	0.000	-2.573	-2.574	-1.669	-13.682
			18:COM5	-	30:COM17	30:COM17	22:COM9	30:COM17
	5695	-ve	38.218	29.985	3.362	16.784	1.490	1.516
			24:COM11	20:COM7	20:COM7	20:COM7	20:COM7	28:COM15
			-60.684	0.000	-2.573	-2.574	-1.205	-19.098
			18:COM5	-	30:COM17	30:COM17	30:COM17	22:COM9

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
14475	3957	+ve	5.112	12.152	0.023	0.089	0.030	35.220
			28:COM15	20:COM7	20:COM7	28:COM15	28:COM15	20:COM7
			-5.784	0.000	-0.012	-0.566	-0.050	-6.585
			22:COM9	-	30:COM17	22:COM9	22:COM9	30:COM17
	4176	-ve	5.112	2.331	0.023	0.089	0.059	4.108
			28:COM15	28:COM15	20:COM7	28:COM15	20:COM7	28:COM15
			-5.784	-2.554	-0.012	-0.566	-0.025	-11.174
			22:COM9	22:COM9	30:COM17	22:COM9	30:COM17	22:COM9
14476	4055	+ve	3.033	14.863	0.022	0.328	0.037	40.979
			20:COM7	16:COM3	20:COM7	28:COM15	28:COM15	16:COM3
			-2.467	0.000	-0.016	-0.665	-0.048	-3.242
			30:COM17	-	30:COM17	22:COM9	22:COM9	26:COM13
	4175	-ve	3.033	4.552	0.022	0.328	0.053	1.176
			20:COM7	16:COM3	20:COM7	28:COM15	20:COM7	28:COM15
			-2.467	-2.758	-0.016	-0.665	-0.035	-8.635
			30:COM17	26:COM13	30:COM17	22:COM9	30:COM17	22:COM9
14477	4054	+ve	6.593	14.847	0.027	0.281	0.074	35.234
			20:COM7	20:COM7	28:COM15	16:COM3	20:COM7	16:COM3
			-5.253	0.000	-0.033	-0.114	-0.061	-0.020
			30:COM17	-	22:COM9	26:COM13	30:COM17	26:COM13
	4183	-ve	6.593	4.513	0.027	0.281	0.064	5.137
			20:COM7	20:COM7	28:COM15	16:COM3	28:COM15	28:COM15
			-5.253	-2.231	-0.033	-0.114	-0.079	-17.571
			30:COM17	30:COM17	22:COM9	26:COM13	22:COM9	22:COM9
14486	5713	+ve	5.451	10.459	0.023	0.731	0.092	24.215
			24:COM17	34:CVOL3	28:COM15	28:COM15	20:COM7	20:COM7
			-7.565	0.000	-0.031	-2.324	-0.063	0.000
			18:COM5	-	22:COM9	22:COM9	30:COM17	-
	5709	-ve	5.451	6.583	0.023	0.731	0.014	6.025
			24:COM17	34:CVOL3	28:COM15	28:COM15	20:COM7	28:COM15
			-7.565	0.000	-0.031	-2.324	-0.008	-7.458
			18:COM5	-	22:COM9	22:COM9	30:COM17	22:COM9
14488	5707	+ve	26.537	9.125	0.059	1.832	0.245	2.255
			28:COM15	20:COM7	28:COM15	20:COM7	20:COM7	28:COM15
			-32.963	-2.110	-0.180	-1.272	-0.097	-11.632
			22:COM9	30:COM17	22:COM9	30:COM17	30:COM17	22:COM9
	5711	-ve	26.537	6.422	0.059	1.832	0.038	0.000
			28:COM15	20:COM7	28:COM15	20:COM7	24:COM11	-
			-32.963	-4.137	-0.180	-1.272	-0.129	-16.549
			22:COM9	30:COM17	22:COM9	30:COM17	18:COM5	22:COM9
14496	5711	+ve	13.528	2.333	0.098	1.204	0.062	0.000
			28:COM15	28:COM15	16:COM3	28:COM15	28:COM15	-
			-18.140	-4.246	-0.081	-1.213	-0.072	-16.040
			22:COM9	22:COM9	26:COM13	22:COM9	22:COM9	22:COM9
	4267	-ve	13.528	0.222	0.098	1.204	0.152	6.603
			28:COM15	28:COM15	16:COM3	28:COM15	16:COM3	28:COM15
			-18.140	-7.061	-0.081	-1.213	-0.127	-16.044
			22:COM9	22:COM9	26:COM13	22:COM9	26:COM13	22:COM9

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
14497	5712	+ve	8.160	20.966	3.801	2.189	1.887	14.751
			28:COM15	28:COM15	20:COM7	28:COM15	28:COM15	16:COM3
			-13.307	-24.536	-3.015	-3.338	-2.369	-2.070
			22:COM9	22:COM9	30:COM17	22:COM9	22:COM9	26:COM13
	5713	-ve	8.160	19.658	3.801	2.189	2.007	34.148
			28:COM15	28:COM15	20:COM7	28:COM15	20:COM7	20:COM7
			-13.307	-26.971	-3.015	-3.338	-1.584	-15.204
			22:COM9	22:COM9	30:COM17	22:COM9	30:COM17	30:COM17
14498	5712	+ve	37.607	18.417	0.475	2.959	1.052	33.347
			28:COM15	20:COM7	28:COM15	28:COM15	20:COM7	20:COM7
			-47.460	-1.444	-0.973	-2.517	-0.545	-13.332
			22:COM9	30:COM17	22:COM9	22:COM9	30:COM17	30:COM17
	5707	-ve	37.607	15.636	0.475	2.959	0.428	1.873
			28:COM15	20:COM7	28:COM15	28:COM15	28:COM15	28:COM15
			-47.460	-3.529	-0.973	-2.517	-0.937	-11.561
			22:COM9	30:COM17	22:COM9	22:COM9	22:COM9	22:COM9
14500	3950	+ve	7.198	45.938	3.824	24.149	4.754	124.234
			24:COM17	20:COM7	28:COM15	20:COM7	20:COM7	20:COM7
			-9.721	-9.677	-3.679	-4.873	-4.644	-30.550
			18:COM5	30:COM17	22:COM9	30:COM17	30:COM17	30:COM17
	5714	-ve	7.198	43.590	3.824	24.149	3.169	33.087
			24:COM17	20:COM7	28:COM15	20:COM7	20:COM7	20:COM7
			-9.721	-11.439	-3.679	-4.873	-2.762	-9.053
			18:COM5	30:COM17	22:COM9	30:COM17	30:COM17	30:COM17
14501	5714	+ve	13.844	35.697	6.698	19.695	3.270	33.040
			28:COM15	20:COM7	28:COM15	20:COM7	20:COM7	20:COM7
			-20.267	-14.447	-9.636	-11.661	-2.372	-9.295
			22:COM9	30:COM17	22:COM9	30:COM17	30:COM17	30:COM17
	5713	-ve	13.844	34.541	6.698	19.695	4.346	6.255
			28:COM15	20:COM7	28:COM15	20:COM7	28:COM15	20:COM7
			-20.267	-15.314	-9.636	-11.661	-6.393	-2.793
			22:COM9	30:COM17	22:COM9	30:COM17	22:COM9	30:COM17
14503	4016	+ve	9.614	14.694	0.120	1.440	0.161	21.993
			28:COM15	20:COM7	28:COM15	24:COM17	20:COM7	16:COM3
			-10.766	-12.361	-0.153	-2.104	-0.115	-12.466
			22:COM9	30:COM17	22:COM9	18:COM5	30:COM17	26:COM13
	5716	-ve	9.614	12.197	0.120	1.440	0.162	32.582
			28:COM15	28:COM15	28:COM15	24:COM17	28:COM15	20:COM7
			-10.766	-15.328	-0.153	-2.104	-0.191	-22.141
			22:COM9	22:COM9	22:COM9	18:COM5	22:COM9	30:COM17
14504	5715	+ve	58.377	19.365	1.421	7.338	1.407	13.593
			28:COM15	28:COM15	20:COM7	20:COM7	28:COM15	24:COM17
			-84.875	-41.106	-1.288	-1.393	-1.795	-38.242
			22:COM9	22:COM9	30:COM17	30:COM17	22:COM9	18:COM5
	3950	-ve	58.377	17.555	1.421	7.338	1.997	110.904
			28:COM15	28:COM15	20:COM7	20:COM7	28:COM15	20:COM7
			-84.875	-43.519	-1.288	-1.393	-2.035	-73.172
			22:COM9	22:COM9	30:COM17	30:COM17	22:COM9	30:COM17

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
14505	5715	+ve	38.848	24.889	7.221	3.335	2.177	38.038
			28:COM15	16:COM3	16:COM3	20:COM7	24:COM11	20:COM7
			-52.221	-10.128	-6.894	-2.452	-2.338	0.000
			22:COM9	26:COM13	26:COM13	30:COM17	18:COM5	-
	5712	-ve	38.848	24.113	7.221	3.335	1.776	37.354
			28:COM15	16:COM3	16:COM3	20:COM7	16:COM3	20:COM7
			-52.221	-10.710	-6.894	-2.452	-1.751	-6.482
			22:COM9	26:COM13	26:COM13	30:COM17	26:COM13	30:COM17
14506	5716	+ve	11.364	9.660	0.078	0.328	0.078	7.221
			24:COM17	20:COM7	16:COM3	20:COM7	24:COM11	28:COM15
			-14.246	-7.668	-0.065	-0.314	-0.101	-8.144
			18:COM5	30:COM17	26:COM13	30:COM17	18:COM5	22:COM9
	3950	-ve	11.364	6.040	0.078	0.328	0.097	16.707
			24:COM17	28:COM15	16:COM3	20:COM7	16:COM3	20:COM7
			-14.246	-12.227	-0.065	-0.314	-0.088	-12.311
			18:COM5	22:COM9	26:COM13	30:COM17	26:COM13	30:COM17
14507	5716	+ve	14.672	1.915	0.510	1.549	0.312	31.960
			28:COM15	28:COM15	20:COM7	20:COM7	28:COM15	20:COM7
			-19.690	-12.832	-0.476	-1.423	-0.335	-21.269
			22:COM9	22:COM9	30:COM17	30:COM17	22:COM9	30:COM17
	5715	-ve	14.672	0.512	0.510	1.549	0.369	50.520
			28:COM15	28:COM15	20:COM7	20:COM7	20:COM7	20:COM7
			-19.690	-14.703	-0.476	-1.423	-0.346	-22.577
			22:COM9	22:COM9	30:COM17	30:COM17	30:COM17	30:COM17
14534	5717	+ve	5.008	11.774	0.002	0.000	0.009	18.027
			16:COM3	35:CVOL4	16:COM3	-	24:COM11	20:COM7
			-4.267	0.000	-0.003	-0.328	-0.011	0.000
			26:COM13	-	26:COM13	34:CVOL3	18:COM5	-
	547	-ve	5.008	0.000	0.002	0.000	0.008	12.039
			16:COM3	-	16:COM3	-	24:COM11	20:COM7
			-4.267	-10.081	-0.003	-0.328	-0.011	0.000
			26:COM13	34:CVOL3	26:COM13	34:CVOL3	18:COM5	-
14537	604	+ve	0.869	10.560	0.009	0.061	0.046	14.448
			28:COM15	35:CVOL4	24:COM11	24:COM17	16:COM3	20:COM7
			-2.847	0.000	-0.014	-0.099	-0.032	0.000
			22:COM9	-	18:COM5	18:COM5	26:COM13	-
	6095	-ve	0.869	0.000	0.009	0.061	0.028	5.477
			28:COM15	-	24:COM11	24:COM17	24:COM11	34:CVOL3
			-2.847	-7.858	-0.014	-0.099	-0.044	0.000
			22:COM9	34:CVOL3	18:COM5	18:COM5	18:COM5	-
14550	991	+ve	1.976	12.157	0.002	0.111	0.018	18.077
			24:COM17	35:CVOL4	24:COM11	24:COM17	20:COM7	20:COM7
			-3.361	0.000	-0.006	-0.222	-0.006	0.000
			18:COM5	-	18:COM5	18:COM5	30:COM17	-
	6112	-ve	1.976	0.000	0.002	0.111	0.008	6.896
			24:COM17	-	24:COM11	24:COM17	24:COM11	34:CVOL3
			-3.361	-9.137	-0.006	-0.222	-0.019	0.000
			18:COM5	34:CVOL3	18:COM5	18:COM5	18:COM5	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
14560	1277	+ve	16.450	11.007	0.115	0.161	0.076	15.369
			28:COM15	20:COM7	16:COM3	20:COM7	24:COM11	20:COM7
			-29.282	0.000	-0.053	-0.056	-0.140	-1.541
			22:COM9	-	26:COM13	30:COM17	18:COM5	30:COM17
	1260	-ve	16.450	5.259	0.115	0.161	0.119	0.000
			28:COM15	20:COM7	16:COM3	20:COM7	16:COM3	-
			-29.282	-0.836	-0.053	-0.056	-0.044	-4.910
			22:COM9	30:COM17	26:COM13	30:COM17	26:COM13	22:COM9
14561	1787	+ve	8.454	12.014	0.098	0.185	0.091	31.671
			28:COM15	20:COM7	16:COM3	28:COM15	24:COM11	20:COM7
			-12.362	0.000	-0.065	-0.321	-0.131	-11.723
			22:COM9	-	26:COM13	22:COM9	18:COM5	30:COM17
	1776	-ve	8.454	6.996	0.098	0.185	0.098	10.439
			28:COM15	20:COM7	16:COM3	28:COM15	20:COM7	28:COM15
			-12.362	-2.021	-0.065	-0.321	-0.063	-10.425
			22:COM9	30:COM17	26:COM13	22:COM9	30:COM17	22:COM9
14566	5722	+ve	3.497	8.352	0.016	0.317	0.057	11.051
			28:COM15	20:COM7	28:COM15	24:COM17	20:COM7	28:COM15
			-4.914	-2.508	-0.028	-0.374	-0.036	-12.319
			22:COM9	30:COM17	22:COM9	18:COM5	30:COM17	22:COM9
	6245	-ve	3.497	1.474	0.016	0.317	0.035	11.947
			28:COM15	28:COM15	28:COM15	24:COM17	28:COM15	20:COM7
			-4.914	-10.435	-0.028	-0.374	-0.062	-6.529
			22:COM9	22:COM9	22:COM9	18:COM5	22:COM9	30:COM17
14576	2544	+ve	12.627	13.204	0.140	0.309	0.107	36.483
			28:COM15	20:COM7	20:COM7	28:COM15	28:COM15	20:COM7
			-18.455	-0.497	-0.096	-0.326	-0.158	-17.484
			22:COM9	30:COM17	30:COM17	22:COM9	22:COM9	30:COM17
	2533	-ve	12.627	8.637	0.140	0.309	0.157	12.328
			28:COM15	20:COM7	20:COM7	28:COM15	20:COM7	28:COM15
			-18.455	-3.248	-0.096	-0.326	-0.109	-13.687
			22:COM9	30:COM17	30:COM17	22:COM9	30:COM17	22:COM9
14585	2945	+ve	6.420	11.305	0.073	0.198	0.055	34.978
			28:COM15	20:COM7	20:COM7	24:COM17	28:COM15	20:COM7
			-10.601	0.000	-0.039	-0.520	-0.099	-14.026
			22:COM9	-	30:COM17	18:COM5	22:COM9	30:COM17
	5851	-ve	6.420	6.722	0.073	0.198	0.066	14.634
			28:COM15	20:COM7	20:COM7	24:COM17	20:COM7	20:COM7
			-10.601	-2.744	-0.039	-0.520	-0.034	-10.953
			22:COM9	30:COM17	30:COM17	18:COM5	30:COM17	30:COM17
14591	5724	+ve	72.022	41.194	0.237	15.049	0.354	59.292
			16:COM3	20:COM7	28:COM15	20:COM7	16:COM3	20:COM7
			-16.677	0.000	-0.596	0.000	-0.231	0.000
			26:COM13	-	22:COM9	-	26:COM13	-
	536	-ve	72.022	39.893	0.237	15.049	0.234	9.942
			16:COM3	20:COM7	28:COM15	20:COM7	28:COM15	28:COM15
			-16.677	0.000	-0.596	0.000	-0.562	-13.550
			26:COM13	-	22:COM9	-	22:COM9	22:COM9

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
14592	5725	+ve	145.496	51.549	0.196	18.133	1.103	86.037
			16:COM3	20:COM7	28:COM15	20:COM7	20:COM7	20:COM7
			-119.642	0.000	-1.987	-2.319	-0.264	-26.685
			26:COM13	-	22:COM9	30:COM17	30:COM17	30:COM17
	932	-ve	145.496	50.139	0.196	18.133	0.067	24.365
			16:COM3	20:COM7	28:COM15	20:COM7	24:COM11	28:COM15
			-119.642	0.000	-1.987	-2.319	-1.474	-29.593
			26:COM13	-	22:COM9	30:COM17	18:COM5	22:COM9
14593	5726	+ve	290.281	303.848	9.704	27.066	5.626	962.175
			20:COM7	20:COM7	24:COM11	16:COM3	16:COM3	20:COM7
			-270.813	-257.911	-12.340	-19.148	-4.652	-910.641
			30:COM17	30:COM17	18:COM5	26:COM13	26:COM13	30:COM17
	1226	-ve	290.281	299.873	9.704	27.066	7.515	584.149
			20:COM7	20:COM7	24:COM11	16:COM3	24:COM11	28:COM15
			-270.813	-260.892	-12.340	-19.148	-9.844	-585.829
			30:COM17	30:COM17	18:COM5	26:COM13	18:COM5	22:COM9
14594	5727	+ve	28.789	113.685	1.364	16.417	1.310	290.674
			16:COM3	20:COM7	16:COM3	16:COM3	20:COM7	20:COM7
			-5.148	-58.749	-1.803	-4.251	-0.922	-227.804
			26:COM13	30:COM17	26:COM13	26:COM13	30:COM17	30:COM17
	1769	-ve	28.789	111.517	1.364	16.417	0.891	150.714
			16:COM3	20:COM7	16:COM3	16:COM3	16:COM3	28:COM15
			-5.148	-60.375	-1.803	-4.251	-1.053	-154.321
			26:COM13	30:COM17	26:COM13	26:COM13	26:COM13	22:COM9
14595	5728	+ve	90.557	138.983	0.568	22.385	1.356	343.180
			20:COM7	20:COM7	24:COM11	16:COM3	20:COM7	20:COM7
			-43.262	-61.279	-2.339	0.000	-0.838	-250.104
			30:COM17	30:COM17	18:COM5	-	30:COM17	30:COM17
	2134	-ve	90.557	136.814	0.568	22.385	0.155	171.297
			20:COM7	20:COM7	24:COM11	16:COM3	24:COM11	28:COM15
			-43.262	-62.905	-2.339	0.000	-1.858	-173.253
			30:COM17	30:COM17	18:COM5	-	18:COM5	22:COM9
14596	5729	+ve	109.061	128.719	0.858	18.526	1.490	351.245
			20:COM7	20:COM7	24:COM11	16:COM3	20:COM7	20:COM7
			-50.254	-72.532	-2.151	-4.596	-1.025	-275.774
			30:COM17	30:COM17	18:COM5	26:COM13	30:COM17	30:COM17
	2526	-ve	109.061	126.551	0.858	18.526	0.321	191.241
			20:COM7	20:COM7	24:COM11	16:COM3	24:COM11	20:COM7
			-50.254	-74.158	-2.151	-4.596	-1.477	-183.829
			30:COM17	30:COM17	18:COM5	26:COM13	18:COM5	30:COM17
14597	5730	+ve	133.857	133.772	1.028	18.408	1.308	367.370
			20:COM7	20:COM7	24:COM11	16:COM3	20:COM7	20:COM7
			-77.095	-74.337	-1.618	-4.644	-0.949	-281.352
			30:COM17	30:COM17	18:COM5	26:COM13	30:COM17	30:COM17
	2927	-ve	133.857	131.603	1.028	18.408	0.487	201.033
			20:COM7	20:COM7	24:COM11	16:COM3	24:COM11	20:COM7
			-77.095	-75.964	-1.618	-4.644	-0.869	-187.144
			30:COM17	30:COM17	18:COM5	26:COM13	18:COM5	30:COM17

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
14598	5731	+ve	131.832	143.180	0.513	22.924	1.545	384.896
			20:COM7	20:COM7	24:COM11	16:COM3	20:COM7	20:COM7
			-80.487	-73.145	-2.256	-0.711	-0.761	-280.115
			30:COM17	30:COM17	18:COM5	26:COM13	30:COM17	30:COM17
	3319	-ve	131.832	141.011	0.513	22.924	0.015	206.764
			20:COM7	20:COM7	24:COM11	16:COM3	24:COM11	20:COM7
			-80.487	-74.771	-2.256	-0.711	-1.415	-187.401
			30:COM17	30:COM17	18:COM5	26:COM13	18:COM5	30:COM17
14599	5732	+ve	136.228	136.416	0.350	18.804	1.605	375.627
			20:COM7	20:COM7	28:COM15	16:COM3	20:COM7	20:COM7
			-80.969	-71.231	-1.661	-3.483	-0.902	-271.918
			30:COM17	30:COM17	22:COM9	26:COM13	30:COM17	30:COM17
	3692	-ve	136.228	134.248	0.350	18.804	0.287	205.975
			20:COM7	20:COM7	28:COM15	16:COM3	28:COM15	20:COM7
			-80.969	-72.858	-1.661	-3.483	-1.228	-181.604
			30:COM17	30:COM17	22:COM9	26:COM13	22:COM9	30:COM17
14600	5733	+ve	16.431	97.433	0.550	18.380	0.691	239.324
			20:COM7	20:COM7	24:COM11	16:COM3	28:COM15	20:COM7
			-11.819	-34.538	-0.792	-2.182	-1.037	-147.116
			30:COM17	30:COM17	18:COM5	26:COM13	22:COM9	30:COM17
	4054	-ve	16.431	95.698	0.550	18.380	1.086	118.269
			20:COM7	20:COM7	24:COM11	16:COM3	24:COM11	20:COM7
			-11.819	-35.839	-0.792	-2.182	-1.735	-103.005
			30:COM17	30:COM17	18:COM5	26:COM13	18:COM5	30:COM17
14601	5734	+ve	122.402	121.277	0.507	20.728	0.858	269.867
			28:COM15	20:COM7	28:COM15	34:CVOL3	20:COM7	20:COM7
			-130.059	-30.921	-0.888	0.000	-0.774	-137.031
			22:COM9	30:COM17	22:COM9	-	30:COM17	30:COM17
	4415	-ve	122.402	119.542	0.507	20.728	0.218	118.921
			28:COM15	20:COM7	28:COM15	34:CVOL3	24:COM11	20:COM7
			-130.059	-32.222	-0.888	0.000	-0.612	-97.454
			22:COM9	30:COM17	22:COM9	-	18:COM5	30:COM17
14602	5735	+ve	40.113	84.275	0.534	11.124	0.165	199.804
			16:COM3	20:COM7	16:COM3	20:COM7	24:COM11	20:COM7
			-15.845	-22.636	-0.352	0.000	-0.695	-110.676
			26:COM13	30:COM17	26:COM13	-	18:COM5	30:COM17
	4741	-ve	40.113	82.541	0.534	11.124	0.040	95.245
			16:COM3	20:COM7	16:COM3	20:COM7	24:COM11	20:COM7
			-15.845	-23.938	-0.352	0.000	-0.342	-81.486
			26:COM13	30:COM17	26:COM13	-	18:COM5	30:COM17
14803	2954	+ve	16.597	44.849	0.611	3.024	1.001	5.921
			28:COM15	28:COM15	24:COM11	28:COM15	24:COM11	28:COM15
			-17.597	-57.401	-0.643	-5.527	-1.000	-21.369
			22:COM9	22:COM9	18:COM5	22:COM9	18:COM5	22:COM9
	2811	-ve	16.597	43.126	0.611	3.024	0.526	148.293
			28:COM15	28:COM15	24:COM11	28:COM15	24:COM11	20:COM7
			-17.597	-59.698	-0.643	-5.527	-0.604	-127.481
			22:COM9	22:COM9	18:COM5	22:COM9	18:COM5	30:COM17

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
14812	5851	+ve	1.571	6.722	0.018	0.197	0.046	14.634
			28:COM15	20:COM7	24:COM11	24:COM11	16:COM3	20:COM7
			-1.523	-2.744	-0.034	-0.520	-0.020	-10.953
			22:COM9	30:COM17	18:COM5	18:COM5	26:COM13	30:COM17
	5671	-ve	1.571	1.854	0.018	0.197	0.037	6.939
			28:COM15	28:COM15	24:COM11	24:COM11	24:COM11	16:COM3
			-1.523	-8.340	-0.034	-0.520	-0.065	0.000
			22:COM9	22:COM9	18:COM5	18:COM5	18:COM5	-
14818	3706	+ve	6.222	11.571	0.083	0.346	0.068	35.642
			28:COM15	20:COM7	16:COM3	28:COM15	28:COM15	20:COM7
			-10.388	-0.067	-0.048	-0.615	-0.123	-15.048
			22:COM9	30:COM17	26:COM13	22:COM9	22:COM9	30:COM17
	3699	-ve	6.222	7.004	0.083	0.346	0.069	14.755
			28:COM15	20:COM7	16:COM3	28:COM15	16:COM3	20:COM7
			-10.388	-2.818	-0.048	-0.615	-0.045	-11.813
			22:COM9	30:COM17	26:COM13	22:COM9	26:COM13	30:COM17
14824	3333	+ve	5.791	11.460	0.068	0.348	0.060	35.685
			28:COM15	20:COM7	20:COM7	28:COM15	28:COM15	20:COM7
			-9.145	-0.097	-0.040	-0.633	-0.099	-14.850
			22:COM9	30:COM17	30:COM17	22:COM9	22:COM9	30:COM17
	3326	-ve	5.791	6.893	0.068	0.348	0.054	15.045
			28:COM15	20:COM7	20:COM7	28:COM15	20:COM7	20:COM7
			-9.145	-2.848	-0.040	-0.633	-0.032	-11.545
			22:COM9	30:COM17	30:COM17	22:COM9	30:COM17	30:COM17
14825	4068	+ve	15.071	12.085	0.244	0.434	0.235	34.105
			28:COM15	20:COM7	20:COM7	28:COM15	28:COM15	20:COM7
			-18.925	0.000	-0.183	-0.721	-0.310	-10.128
			22:COM9	-	30:COM17	22:COM9	22:COM9	30:COM17
	4061	-ve	15.071	7.068	0.244	0.434	0.251	12.559
			28:COM15	20:COM7	20:COM7	28:COM15	20:COM7	20:COM7
			-18.925	-1.025	-0.183	-0.721	-0.187	-10.917
			22:COM9	30:COM17	30:COM17	22:COM9	30:COM17	30:COM17
14830	4205	+ve	20.320	0.000	0.995	4.376	2.493	0.000
			28:COM15	-	28:COM15	20:COM7	20:COM7	-
			-30.609	-9.583	-2.752	-1.110	-0.902	-40.529
			22:COM9	22:COM9	22:COM9	30:COM17	30:COM17	22:COM9
	4206	-ve	20.320	0.000	0.995	4.376	1.038	0.000
			28:COM15	-	28:COM15	20:COM7	28:COM15	-
			-30.609	-10.933	-2.752	-1.110	-2.872	-22.245
			22:COM9	22:COM9	22:COM9	30:COM17	22:COM9	18:COM5
14831	4196	+ve	15.635	6.711	0.353	0.000	0.804	16.543
			28:COM15	28:COM15	16:COM3	-	24:COM11	28:COM15
			-26.842	-9.925	-0.311	-2.386	-0.983	-30.870
			22:COM9	22:COM9	26:COM13	18:COM5	18:COM5	22:COM9
	4205	-ve	15.635	3.235	0.353	0.000	0.893	36.366
			28:COM15	28:COM15	16:COM3	-	16:COM3	20:COM7
			-26.842	-15.355	-0.311	-2.386	-0.852	-9.952
			22:COM9	22:COM9	26:COM13	18:COM5	26:COM13	30:COM17

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
14832	5853	+ve	22.585	7.063	9.239	12.849	3.119	5.607
			24:COM1	16:COM3	28:COM1	20:COM7	20:COM7	28:COM1
			-25.762	-2.847	-11.963	-2.311	-2.352	-37.695
			18:COM5	26:COM1	22:COM9	30:COM1	30:COM1	22:COM9
	4195	-ve	22.585	6.121	9.239	12.849	3.124	2.776
			24:COM1	16:COM3	28:COM1	20:COM7	28:COM1	28:COM1
			-25.762	-3.554	-11.963	-2.311	-3.969	-36.872
			18:COM5	26:COM1	22:COM9	30:COM1	22:COM9	22:COM9
14833	5854	+ve	15.657	14.734	15.278	22.434	2.593	0.000
			28:COM1	16:COM3	20:COM7	20:COM7	20:COM7	-
			-23.112	0.000	-11.058	-3.504	-2.432	-20.985
			22:COM9	-	30:COM1	30:COM1	30:COM1	18:COM5
	4204	-ve	15.657	14.525	15.278	22.434	2.286	0.000
			28:COM1	16:COM3	20:COM7	20:COM7	20:COM7	-
			-23.112	0.000	-11.058	-3.504	-0.850	-23.741
			22:COM9	-	30:COM1	30:COM1	30:COM1	18:COM5
14834	5853	+ve	13.794	4.035	0.219	0.527	0.584	5.020
			28:COM1	28:COM1	16:COM3	28:COM1	24:COM1	28:COM1
			-17.626	-4.548	-0.176	-2.808	-0.759	-20.124
			22:COM9	22:COM9	26:COM1	22:COM9	18:COM5	22:COM9
	5854	-ve	13.794	0.000	0.219	0.527	0.650	30.202
			28:COM1	-	16:COM3	28:COM1	16:COM3	20:COM7
			-17.626	-11.084	-0.176	-2.808	-0.551	-7.751
			22:COM9	22:COM9	26:COM1	22:COM9	26:COM1	30:COM1
14835	5855	+ve	10.794	27.183	5.310	9.655	4.236	61.254
			24:COM1	20:COM7	20:COM7	20:COM7	28:COM1	20:COM7
			-20.038	0.000	-4.293	-2.754	-4.437	0.000
			18:COM5	-	30:COM1	30:COM1	22:COM9	-
	4203	-ve	10.794	26.219	5.310	9.655	2.984	28.506
			24:COM1	20:COM7	20:COM7	20:COM7	20:COM7	16:COM3
			-20.038	0.000	-4.293	-2.754	-1.769	-5.292
			18:COM5	-	30:COM1	30:COM1	30:COM1	26:COM1
14836	4173	+ve	29.545	7.546	0.198	2.165	0.639	14.636
			20:COM7	28:COM1	28:COM1	20:COM7	24:COM1	28:COM1
			-28.021	-8.342	-0.205	-1.321	-0.670	-45.169
			30:COM1	22:COM9	22:COM9	30:COM1	18:COM5	22:COM9
	5855	-ve	29.545	2.439	0.198	2.165	0.913	51.529
			20:COM7	28:COM1	28:COM1	20:COM7	28:COM1	20:COM7
			-28.021	-16.324	-0.205	-1.321	-1.000	-24.734
			30:COM1	22:COM9	22:COM9	30:COM1	22:COM9	30:COM1
14837	5856	+ve	11.176	0.000	10.186	20.848	5.755	4.806
			28:COM1	-	28:COM1	20:COM7	28:COM1	28:COM1
			-15.928	-25.435	-11.160	-12.116	-5.611	-17.790
			22:COM9	22:COM9	22:COM9	30:COM1	22:COM9	22:COM9
	4100	-ve	11.176	0.000	10.186	20.848	5.306	21.779
			28:COM1	-	28:COM1	20:COM7	28:COM1	16:COM3
			-15.928	-26.176	-11.160	-12.116	-6.204	-2.116
			22:COM9	22:COM9	22:COM9	30:COM1	22:COM9	26:COM1

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
14838	4012	+ve	21.402	8.693	0.119	0.516	0.447	29.998
			28:COM15	20:COM7	16:COM3	16:COM3	24:COM11	28:COM15
			-21.630	-5.985	-0.092	-0.569	-0.558	-59.165
			22:COM9	30:COM17	26:COM13	26:COM13	18:COM5	22:COM9
	5856	-ve	21.402	2.074	0.119	0.516	0.566	39.428
			28:COM15	28:COM15	16:COM3	16:COM3	16:COM3	20:COM7
			-21.630	-15.244	-0.092	-0.569	-0.429	-19.039
			22:COM9	22:COM9	26:COM13	26:COM13	26:COM13	30:COM17
14839	5857	+ve	18.747	3.635	6.736	14.322	4.197	4.340
			24:COM17	28:COM15	28:COM15	20:COM7	20:COM7	28:COM15
			-20.157	-29.794	-7.943	-11.527	-3.444	-15.776
			18:COM5	22:COM9	22:COM9	30:COM17	30:COM17	22:COM9
	4231	-ve	18.747	2.456	6.736	14.322	3.211	20.680
			24:COM17	28:COM15	28:COM15	20:COM7	28:COM15	16:COM3
			-20.157	-31.366	-7.943	-11.527	-3.651	-4.916
			18:COM5	22:COM9	22:COM9	30:COM17	22:COM9	26:COM13
14840	5858	+ve	10.863	0.000	1.423	4.440	1.769	0.000
			28:COM15	-	28:COM15	20:COM7	20:COM7	-
			-14.676	-9.055	-2.385	-1.357	-1.068	-36.256
			22:COM9	18:COM5	22:COM9	30:COM17	30:COM17	22:COM9
	4101	-ve	10.863	0.000	1.423	4.440	1.509	0.000
			28:COM15	-	28:COM15	20:COM7	28:COM15	-
			-14.676	-10.306	-2.385	-1.357	-2.546	-25.644
			22:COM9	18:COM5	22:COM9	30:COM17	22:COM9	22:COM9
14841	5857	+ve	15.254	8.041	0.086	0.000	0.429	23.461
			28:COM15	20:COM7	16:COM3	-	24:COM11	28:COM15
			-18.326	-1.764	-0.081	-2.286	-0.450	-26.508
			22:COM9	30:COM17	26:COM13	22:COM9	18:COM5	22:COM9
	5858	-ve	15.254	0.000	0.086	0.000	0.469	37.357
			28:COM15	-	16:COM3	-	16:COM3	20:COM7
			-18.326	-11.429	-0.081	-2.286	-0.436	-11.347
			22:COM9	22:COM9	26:COM13	22:COM9	26:COM13	30:COM17
14842	5859	+ve	7.555	11.915	12.530	22.402	3.977	0.000
			28:COM15	16:COM3	20:COM7	20:COM7	20:COM7	-
			-11.748	0.000	-11.302	-1.310	-3.867	-20.456
			22:COM9	-	30:COM17	30:COM17	30:COM17	18:COM5
	4103	-ve	7.555	11.503	12.530	22.402	3.647	0.000
			28:COM15	16:COM3	20:COM7	20:COM7	20:COM7	-
			-11.748	0.000	-11.302	-1.310	-2.807	-24.672
			22:COM9	-	30:COM17	30:COM17	30:COM17	18:COM5
14843	4229	+ve	16.543	7.228	0.062	0.000	0.389	16.163
			28:COM15	20:COM7	24:COM11	-	16:COM3	28:COM15
			-17.159	-0.671	-0.064	-1.759	-0.393	-29.463
			22:COM9	30:COM17	18:COM5	18:COM5	26:COM13	22:COM9
	5859	-ve	16.543	0.000	0.062	0.000	0.345	34.732
			28:COM15	-	24:COM11	-	24:COM11	20:COM7
			-17.159	-11.466	-0.064	-1.759	-0.379	-6.401
			22:COM9	22:COM9	18:COM5	18:COM5	18:COM5	30:COM17

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
14844	5860	+ve	10.172	8.199	8.815	10.358	3.416	0.000
			24:COM1	16:COM3	20:COM7	20:COM7	28:COM1	-
			-11.085	-0.047	-6.604	-3.056	-4.556	-44.140
			18:COM5	26:COM1	30:COM1	30:COM1	22:COM9	22:COM9
	4170	-ve	10.172	6.656	8.815	10.358	3.989	0.000
			24:COM1	16:COM3	20:COM7	20:COM7	20:COM7	-
			-11.085	-1.204	-6.604	-3.056	-2.986	-45.902
			18:COM5	26:COM1	30:COM1	30:COM1	30:COM1	22:COM9
14845	5861	+ve	2.935	27.333	3.702	8.533	3.202	49.555
			28:COM1	20:COM7	20:COM7	20:COM7	20:COM7	20:COM7
			-12.511	0.000	-3.263	0.000	-2.830	0.000
			22:COM9	-	30:COM1	-	30:COM1	-
	4104	-ve	2.935	26.400	3.702	8.533	2.285	20.191
			28:COM1	20:COM7	20:COM7	20:COM7	20:COM7	16:COM3
			-12.511	0.000	-3.263	0.000	-1.322	-5.578
			22:COM9	-	30:COM1	-	30:COM1	26:COM1
14846	5860	+ve	20.233	7.111	0.063	0.622	0.438	8.364
			20:COM7	20:COM7	28:COM1	20:COM7	20:COM7	28:COM1
			-15.436	-0.170	-0.082	-0.250	-0.378	-26.962
			30:COM1	30:COM1	22:COM9	30:COM1	30:COM1	22:COM9
	5861	-ve	20.233	0.000	0.063	0.622	0.462	44.609
			20:COM7	-	28:COM1	20:COM7	28:COM1	20:COM7
			-15.436	-12.154	-0.082	-0.250	-0.645	-8.327
			30:COM1	22:COM9	22:COM9	30:COM1	22:COM9	30:COM1
14847	5862	+ve	4.299	0.000	21.210	40.733	1.020	10.513
			24:COM1	-	28:COM1	20:COM7	28:COM1	24:COM1
			-8.720	-23.911	-25.261	-9.981	-1.041	-12.947
			18:COM5	22:COM9	22:COM9	30:COM1	22:COM9	18:COM5
	4228	-ve	4.299	0.000	21.210	40.733	1.604	12.814
			24:COM1	-	28:COM1	20:COM7	28:COM1	16:COM3
			-8.720	-23.993	-25.261	-9.981	-2.106	-11.514
			18:COM5	22:COM9	22:COM9	30:COM1	22:COM9	26:COM1
14848	4172	+ve	26.269	8.273	0.040	2.086	0.304	16.571
			20:COM7	20:COM7	24:COM1	20:COM7	16:COM3	28:COM1
			-21.854	0.000	-0.044	0.000	-0.304	-30.857
			30:COM1	-	18:COM5	-	26:COM1	22:COM9
	5862	-ve	26.269	0.000	0.040	2.086	0.281	42.050
			20:COM7	-	24:COM1	20:COM7	24:COM1	20:COM7
			-21.854	-12.428	-0.044	0.000	-0.333	-7.855
			30:COM1	22:COM9	18:COM5	-	18:COM5	30:COM1
14849	5863	+ve	6.141	0.000	20.366	25.092	3.956	0.000
			24:COM1	-	28:COM1	20:COM7	20:COM7	-
			-11.659	-10.973	-26.275	-8.367	-2.230	-28.220
			18:COM5	18:COM5	22:COM9	30:COM1	30:COM1	22:COM9
	4227	-ve	6.141	0.000	20.366	25.092	2.391	0.000
			24:COM1	-	28:COM1	20:COM7	20:COM7	-
			-11.659	-11.122	-26.275	-8.367	-1.933	-27.092
			18:COM5	18:COM5	22:COM9	30:COM1	30:COM1	22:COM9

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
14850	4018	+ve	29.972	10.453	0.034	1.738	0.214	36.394
			20:COM7	20:COM7	16:COM3	16:COM3	24:COM11	20:COM7
			-22.167	0.000	-0.027	-0.362	-0.278	-24.630
			30:COM17	-	26:COM13	26:COM13	18:COM5	30:COM17
	5863	-ve	29.972	0.000	0.034	1.738	0.251	34.541
			20:COM7	-	16:COM3	16:COM3	16:COM3	20:COM7
			-22.167	-11.584	-0.027	-0.362	-0.208	-10.137
			30:COM17	22:COM9	26:COM13	26:COM13	26:COM13	30:COM17
14851	4207	+ve	18.618	8.323	2.590	2.437	1.648	0.000
			24:COM11	20:COM7	20:COM7	28:COM15	28:COM15	-
			-35.628	0.000	-2.418	-3.838	-1.885	-18.204
			18:COM5	-	30:COM17	22:COM9	22:COM9	18:COM5
	5872	-ve	18.618	7.296	2.590	2.437	1.989	0.000
			24:COM11	20:COM7	20:COM7	28:COM15	20:COM7	-
			-35.628	0.000	-2.418	-3.838	-1.971	-23.756
			18:COM5	-	30:COM17	22:COM9	30:COM17	34:CVOL3
14853	4209	+ve	18.463	0.000	6.249	5.223	2.739	0.000
			24:COM11	-	28:COM15	28:COM15	20:COM7	-
			-34.021	-9.223	-6.299	-12.417	-2.561	-16.833
			18:COM5	18:COM5	22:COM9	22:COM9	30:COM17	18:COM5
	5874	-ve	18.463	0.000	6.249	5.223	3.269	5.568
			24:COM11	-	28:COM15	28:COM15	20:COM7	24:COM11
			-34.021	-9.863	-6.299	-12.417	-3.138	-12.821
			18:COM5	18:COM5	22:COM9	22:COM9	30:COM17	18:COM5
14856	4210	+ve	17.197	0.770	0.568	3.496	1.137	21.070
			28:COM15	28:COM15	28:COM15	28:COM15	20:COM7	16:COM3
			-33.172	-21.381	-1.234	-4.875	-0.396	-7.687
			22:COM9	22:COM9	22:COM9	22:COM9	30:COM17	26:COM13
	4013	-ve	17.197	0.000	0.568	3.496	0.725	55.039
			28:COM15	-	28:COM15	28:COM15	28:COM15	20:COM7
			-33.172	-22.730	-1.234	-4.875	-1.281	0.000
			22:COM9	22:COM9	22:COM9	22:COM9	22:COM9	-
14860	5869	+ve	2.668	0.000	3.084	15.991	2.027	0.000
			28:COM15	-	24:COM11	20:COM7	20:COM7	-
			-3.225	-7.545	-4.287	-7.672	-1.472	-14.564
			22:COM9	34:CVOL3	18:COM5	30:COM17	30:COM17	22:COM9
	4178	-ve	2.668	0.000	3.084	15.991	1.529	2.825
			28:COM15	-	24:COM11	20:COM7	24:COM11	28:COM15
			-3.225	-9.503	-4.287	-7.672	-2.113	-7.957
			22:COM9	34:CVOL3	18:COM5	30:COM17	18:COM5	22:COM9
14861	5870	+ve	12.977	7.704	9.180	20.267	1.712	2.810
			24:COM11	16:COM3	16:COM3	20:COM7	24:COM11	24:COM11
			-23.613	-0.202	-6.103	-3.688	-2.241	-18.850
			18:COM5	26:COM13	26:COM13	30:COM17	18:COM5	18:COM5
	4225	-ve	12.977	7.340	9.180	20.267	2.598	0.496
			24:COM11	16:COM3	16:COM3	20:COM7	16:COM3	24:COM11
			-23.613	-0.475	-6.103	-3.688	-1.507	-20.319
			18:COM5	26:COM13	26:COM13	30:COM17	26:COM13	18:COM5

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
14862	5869	+ve	7.938	7.848	0.046	0.576	0.459	17.510
			24:COM1	20:COM7	24:COM1	16:COM3	16:COM3	28:COM1
			-11.037	0.000	-0.080	0.000	-0.264	-23.525
			18:COM5	-	18:COM5	-	26:COM1	22:COM9
	5870	-ve	7.938	0.000	0.046	0.576	0.320	32.145
			24:COM1	-	24:COM1	16:COM3	24:COM1	20:COM7
			-11.037	-10.876	-0.080	0.000	-0.556	-7.568
			18:COM5	22:COM9	18:COM5	-	18:COM5	30:COM1
14863	5871	+ve	32.962	3.897	3.601	10.096	2.194	0.000
			20:COM7	28:COM1	28:COM1	20:COM7	20:COM7	-
			-29.896	-12.015	-4.245	-4.173	-1.939	-25.741
			30:COM1	22:COM9	22:COM9	30:COM1	30:COM1	22:COM9
	4182	-ve	32.962	2.713	3.601	10.096	1.640	0.000
			20:COM7	28:COM1	28:COM1	20:COM7	28:COM1	-
			-29.896	-13.594	-4.245	-4.173	-2.024	-13.060
			30:COM1	22:COM9	22:COM9	30:COM1	22:COM9	22:COM9
14864	5872	+ve	19.368	2.144	8.578	13.956	1.476	0.000
			24:COM1	24:COM1	20:COM7	20:COM7	28:COM1	-
			-36.546	-4.605	-5.993	-4.874	-2.014	-24.246
			18:COM5	18:COM5	30:COM1	30:COM1	22:COM9	18:COM5
	4208	-ve	19.368	1.902	8.578	13.956	2.106	0.000
			24:COM1	24:COM1	20:COM7	20:COM7	20:COM7	-
			-36.546	-4.927	-5.993	-4.874	-1.439	-23.128
			18:COM5	18:COM5	30:COM1	30:COM1	30:COM1	34:CVOL3
14865	5871	+ve	7.977	4.272	0.193	2.104	1.221	6.000
			28:COM1	20:COM7	24:COM1	28:COM1	20:COM7	28:COM1
			-10.390	-3.042	-0.361	-2.031	-0.676	-23.512
			22:COM9	30:COM1	18:COM5	22:COM9	30:COM1	22:COM9
	5872	-ve	7.977	0.000	0.193	2.104	0.621	17.784
			28:COM1	-	24:COM1	28:COM1	24:COM1	20:COM7
			-10.390	-9.645	-0.361	-2.031	-1.176	-7.300
			22:COM9	22:COM9	18:COM5	22:COM9	18:COM5	30:COM1
14866	5873	+ve	11.677	1.602	5.300	16.592	2.379	47.603
			28:COM1	28:COM1	20:COM7	20:COM7	28:COM1	20:COM7
			-14.144	-29.363	-4.870	-5.831	-2.507	-20.054
			22:COM9	22:COM9	30:COM1	30:COM1	22:COM9	30:COM1
	4010	-ve	11.677	0.421	5.300	16.592	2.736	77.391
			28:COM1	28:COM1	20:COM7	20:COM7	20:COM7	20:COM7
			-14.144	-30.938	-4.870	-5.831	-2.439	-21.025
			22:COM9	22:COM9	30:COM1	30:COM1	30:COM1	30:COM1
14867	5874	+ve	19.268	0.000	5.632	15.335	2.841	4.748
			24:COM1	-	28:COM1	20:COM7	28:COM1	24:COM1
			-34.901	-19.238	-5.645	-10.417	-3.017	-13.683
			18:COM5	18:COM5	22:COM9	30:COM1	22:COM9	18:COM5
	4210	-ve	19.268	0.000	5.632	15.335	2.798	21.014
			24:COM1	-	28:COM1	20:COM7	28:COM1	16:COM3
			-34.901	-19.947	-5.645	-10.417	-2.988	-7.788
			18:COM5	18:COM5	22:COM9	30:COM1	22:COM9	26:COM1

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
14868	5873	+ve	11.302	7.480	0.110	2.138	0.820	17.015
			20:COM7	20:COM7	24:COM11	20:COM7	20:COM7	28:COM15
			-11.338	-2.999	-0.185	-0.456	-0.478	-29.270
			30:COM17	30:COM17	18:COM5	30:COM17	30:COM17	22:COM9
	5874	-ve	11.302	0.901	0.110	2.138	0.492	27.747
			20:COM7	28:COM15	24:COM11	20:COM7	24:COM11	20:COM7
			-11.338	-10.988	-0.185	-0.456	-0.799	-15.635
			30:COM17	22:COM9	18:COM5	30:COM17	18:COM5	30:COM17
14869	5875	+ve	10.632	12.749	7.320	12.602	3.236	5.701
			20:COM7	16:COM3	20:COM7	20:COM7	28:COM15	16:COM3
			-9.225	-1.340	-6.629	-11.017	-3.668	-5.504
			30:COM17	26:COM13	30:COM17	30:COM17	22:COM9	26:COM13
	4179	-ve	10.632	11.257	7.320	12.602	3.199	0.000
			20:COM7	16:COM3	20:COM7	20:COM7	20:COM7	-
			-9.225	-2.459	-6.629	-11.017	-2.984	-6.966
			30:COM17	26:COM13	30:COM17	30:COM17	30:COM17	22:COM9
14870	5876	+ve	16.407	21.392	1.318	2.854	0.418	47.460
			28:COM15	20:COM7	20:COM7	16:COM3	24:COM11	20:COM7
			-31.417	0.000	-0.141	-1.441	-1.235	0.000
			22:COM9	-	30:COM17	26:COM13	18:COM5	-
	4224	-ve	16.407	20.206	1.318	2.854	1.191	20.599
			28:COM15	20:COM7	20:COM7	16:COM3	20:COM7	16:COM3
			-31.417	-0.333	-0.141	-1.441	0.000	-5.409
			22:COM9	30:COM17	30:COM17	26:COM13	-	26:COM13
14871	5875	+ve	17.983	10.467	0.070	1.818	0.557	29.722
			20:COM7	20:COM7	28:COM15	16:COM3	20:COM7	20:COM7
			-16.313	-3.604	-0.114	0.000	-0.343	-30.435
			30:COM17	30:COM17	22:COM9	-	30:COM17	30:COM17
	5876	-ve	17.983	1.916	0.070	1.818	0.408	51.065
			20:COM7	28:COM15	28:COM15	16:COM3	28:COM15	20:COM7
			-16.313	-13.051	-0.114	0.000	-0.673	-28.844
			30:COM17	22:COM9	22:COM9	-	22:COM9	30:COM17
14891	5892	+ve	1.260	11.038	0.003	0.065	0.014	11.979
			16:COM3	35:CVOL4	16:COM3	20:COM7	24:COM11	35:CVOL4
			-0.640	0.000	-0.003	0.000	-0.014	0.000
			26:COM13	-	26:COM13	-	18:COM5	-
	439	-ve	1.260	0.000	0.003	0.065	0.013	15.502
			16:COM3	-	16:COM3	20:COM7	16:COM3	20:COM7
			-0.640	-11.783	-0.003	0.000	-0.012	0.000
			26:COM13	34:CVOL3	26:COM13	-	26:COM13	-
14892	5893	+ve	0.661	11.438	0.004	0.000	0.014	13.605
			20:COM7	35:CVOL4	16:COM3	-	24:COM11	35:CVOL4
			-0.301	0.000	-0.003	-0.090	-0.015	0.000
			30:COM17	-	26:COM13	22:COM9	18:COM5	-
	440	-ve	0.661	0.000	0.004	0.000	0.014	11.955
			20:COM7	-	16:COM3	-	16:COM3	20:COM7
			-0.301	-10.971	-0.003	-0.090	-0.013	0.000
			30:COM17	34:CVOL3	26:COM13	22:COM9	26:COM13	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
14893	5879	+ve	0.541	12.047	0.004	0.000	0.014	16.621
			20:COM7	35:CVOL4	16:COM3	-	24:COM11	35:CVOL4
			-0.185	0.000	-0.003	-0.140	-0.015	0.000
			30:COM17	-	26:COM13	35:CVOL4	18:COM5	-
	441	-ve	0.541	0.000	0.004	0.000	0.014	9.088
			20:COM7	-	16:COM3	-	16:COM3	20:COM7
			-0.185	-10.004	-0.003	-0.140	-0.013	0.000
			30:COM17	34:CVOL3	26:COM13	35:CVOL4	26:COM13	-
14894	5880	+ve	1.551	12.725	0.003	0.080	0.012	21.424
			16:COM3	35:CVOL4	16:COM3	16:COM3	24:COM11	35:CVOL4
			-0.653	0.000	-0.003	0.000	-0.013	0.000
			26:COM13	-	26:COM13	-	18:COM5	-
	443	-ve	1.551	0.000	0.003	0.080	0.012	8.071
			16:COM3	-	16:COM3	16:COM3	16:COM3	20:COM7
			-0.653	-8.468	-0.003	0.000	-0.011	-1.750
			26:COM13	34:CVOL3	26:COM13	-	26:COM13	30:COM17
14895	5881	+ve	0.839	12.720	0.004	0.000	0.014	20.293
			16:COM3	35:CVOL4	16:COM3	-	16:COM3	35:CVOL4
			-0.375	0.000	-0.003	-0.140	-0.014	0.000
			26:COM13	-	26:COM13	35:CVOL4	26:COM13	-
	442	-ve	0.839	0.000	0.004	0.000	0.013	6.959
			16:COM3	-	16:COM3	-	16:COM3	20:COM7
			-0.375	-8.875	-0.003	-0.140	-0.012	-0.414
			26:COM13	34:CVOL3	26:COM13	35:CVOL4	26:COM13	30:COM17
14897	5882	+ve	1.231	10.436	0.004	0.094	0.013	13.036
			16:COM3	35:CVOL4	16:COM3	16:COM3	24:COM11	35:CVOL4
			-0.588	0.000	-0.004	0.000	-0.014	0.000
			26:COM13	-	26:COM13	-	18:COM5	-
	464	-ve	1.231	0.000	0.004	0.094	0.013	12.732
			16:COM3	-	16:COM3	16:COM3	24:COM11	20:COM7
			-0.588	-9.981	-0.004	0.000	-0.013	0.000
			26:COM13	34:CVOL3	26:COM13	-	18:COM5	-
14898	5883	+ve	1.303	10.484	0.004	0.000	0.013	12.749
			16:COM3	35:CVOL4	16:COM3	-	24:COM11	34:CVOL3
			-0.761	0.000	-0.004	-0.108	-0.015	0.000
			26:COM13	-	26:COM13	35:CVOL4	18:COM5	-
	465	-ve	1.303	0.000	0.004	0.000	0.014	10.137
			16:COM3	-	16:COM3	-	16:COM3	20:COM7
			-0.761	-9.549	-0.004	-0.108	-0.013	0.000
			26:COM13	34:CVOL3	26:COM13	35:CVOL4	26:COM13	-
14899	5884	+ve	1.120	10.841	0.004	0.000	0.011	13.816
			16:COM3	35:CVOL4	16:COM3	-	24:COM11	34:CVOL3
			-0.655	0.000	-0.003	-0.210	-0.013	0.000
			26:COM13	-	26:COM13	35:CVOL4	18:COM5	-
	466	-ve	1.120	0.000	0.004	0.000	0.012	7.549
			16:COM3	-	16:COM3	-	16:COM3	20:COM7
			-0.655	-8.809	-0.003	-0.210	-0.011	0.000
			26:COM13	34:CVOL3	26:COM13	35:CVOL4	26:COM13	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
14900	5885	+ve	1.526	11.244	0.004	0.000	0.011	15.370
			16:COM3	35:CVOL4	16:COM3	-	24:COM11	34:CVOL3
			-0.662	0.000	-0.003	-0.167	-0.013	0.000
			26:COM13	-	26:COM13	34:CVOL3	18:COM5	-
	467	-ve	1.526	0.000	0.004	0.000	0.013	5.989
			16:COM3	-	16:COM3	-	16:COM3	20:COM7
			-0.662	-8.027	-0.003	-0.167	-0.010	-1.030
			26:COM13	34:CVOL3	26:COM13	34:CVOL3	26:COM13	30:COM17
14901	5886	+ve	2.468	11.171	0.003	0.080	0.010	15.928
			16:COM3	35:CVOL4	16:COM3	16:COM3	24:COM11	20:COM7
			-1.162	0.000	-0.003	0.000	-0.010	0.000
			26:COM13	-	26:COM13	-	18:COM5	-
	468	-ve	2.468	0.000	0.003	0.080	0.010	7.216
			16:COM3	-	16:COM3	16:COM3	16:COM3	20:COM7
			-1.162	-7.726	-0.003	0.000	-0.009	-2.434
			26:COM13	34:CVOL3	26:COM13	-	26:COM13	30:COM17
14908	5892	+ve	13.899	34.107	0.792	0.000	0.732	0.000
			20:COM7	34:CVOL3	20:COM7	-	20:COM7	-
			-7.331	0.000	-0.633	-6.022	-0.646	-23.781
			30:COM17	-	30:COM17	22:COM9	30:COM17	18:COM5
	5878	-ve	13.899	32.063	0.792	0.000	0.610	0.000
			20:COM7	34:CVOL3	20:COM7	-	20:COM7	-
			-7.331	0.000	-0.633	-6.022	-0.289	-72.334
			30:COM17	-	30:COM17	22:COM9	30:COM17	35:CVOL4
14910	5893	+ve	13.760	7.730	0.552	0.000	0.471	0.000
			20:COM7	16:COM3	16:COM3	-	24:COM11	-
			-6.817	0.000	-0.452	-3.352	-0.554	-70.918
			30:COM17	-	26:COM13	35:CVOL4	18:COM5	35:CVOL4
	5879	-ve	13.760	5.310	0.552	0.000	0.416	0.000
			20:COM7	16:COM3	16:COM3	-	16:COM3	-
			-6.817	0.000	-0.452	-3.352	-0.324	-81.443
			30:COM17	-	26:COM13	35:CVOL4	26:COM13	34:CVOL3
14911	71	+ve	14.409	36.504	0.966	0.000	1.665	85.796
			16:COM3	35:CVOL4	24:COM11	-	16:COM3	35:CVOL4
			-13.072	0.000	-1.818	-23.898	-0.901	0.000
			26:COM13	-	18:COM5	22:COM9	26:COM13	-
	5904	-ve	14.409	34.457	0.966	0.000	1.009	15.799
			16:COM3	35:CVOL4	24:COM11	-	24:COM11	35:CVOL4
			-13.072	0.000	-1.818	-23.898	-1.925	0.000
			26:COM13	-	18:COM5	22:COM9	18:COM5	-
14918	5903	+ve	14.475	0.000	0.000	14.191	0.898	17.339
			24:COM11	-	-	34:CVOL3	20:COM7	16:COM3
			-15.860	-34.067	-2.271	0.000	0.000	0.000
			18:COM5	35:CVOL4	22:COM9	-	-	-
	5909	-ve	14.475	0.000	0.000	14.191	0.000	56.135
			24:COM11	-	-	34:CVOL3	-	35:CVOL4
			-15.860	-35.279	-2.271	0.000	-1.814	0.000
			18:COM5	35:CVOL4	22:COM9	-	22:COM9	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
14919	5902	+ve	15.672	0.000	0.000	13.472	1.716	0.000
			24:COM1	-	-	20:COM7	16:COM3	-
			-14.895	-22.145	-2.902	0.000	0.000	-25.051
			18:COM5	35:CVOL4	18:COM5	-	-	35:CVOL4
	5908	-ve	15.672	0.000	0.000	13.472	0.000	1.400
			24:COM1	-	-	20:COM7	-	24:COM1
			-14.895	-23.169	-2.902	0.000	-1.183	-5.521
			18:COM5	35:CVOL4	18:COM5	-	22:COM9	18:COM5
14920	5901	+ve	16.693	0.000	0.546	9.495	1.509	0.000
			16:COM3	-	24:COM1	20:COM7	16:COM3	-
			-14.620	-7.455	-3.125	0.000	-0.364	-43.783
			26:COM1	35:CVOL4	18:COM5	-	26:COM1	35:CVOL4
	5907	-ve	16.693	0.000	0.546	9.495	0.165	0.000
			16:COM3	-	24:COM1	20:COM7	28:COM1	-
			-14.620	-8.293	-3.125	0.000	-1.102	-37.426
			26:COM1	35:CVOL4	18:COM5	-	22:COM9	35:CVOL4
14921	5900	+ve	18.538	2.139	1.114	2.313	1.265	0.000
			16:COM3	16:COM3	24:COM1	35:CVOL4	16:COM3	-
			-14.948	0.000	-3.664	0.000	-0.601	-41.666
			26:COM1	-	18:COM5	-	26:COM1	35:CVOL4
	5906	-ve	18.538	1.488	1.114	2.313	0.129	0.000
			16:COM3	16:COM3	24:COM1	35:CVOL4	24:COM1	-
			-14.948	-0.135	-3.664	0.000	-1.065	-42.463
			26:COM1	26:COM1	18:COM5	-	18:COM5	35:CVOL4
14922	5899	+ve	21.096	11.583	1.535	0.093	1.169	0.000
			16:COM3	35:CVOL4	24:COM1	28:COM1	16:COM3	-
			-16.357	0.000	-5.818	-8.986	-0.715	-23.183
			26:COM1	-	18:COM5	22:COM9	26:COM1	35:CVOL4
	5905	-ve	21.096	11.119	1.535	0.093	0.000	0.000
			16:COM3	35:CVOL4	24:COM1	28:COM1	-	-
			-16.357	0.000	-5.818	-8.986	-1.457	-28.266
			26:COM1	-	18:COM5	22:COM9	18:COM5	35:CVOL4
14924	5905	+ve	16.360	12.107	1.045	2.233	0.538	0.000
			16:COM3	34:CVOL3	20:COM7	20:COM7	28:COM1	-
			-14.367	0.000	-0.669	0.000	-0.753	-24.522
			26:COM1	-	30:COM1	-	22:COM9	35:CVOL4
	5900	-ve	16.360	10.525	1.045	2.233	0.869	0.000
			16:COM3	34:CVOL3	20:COM7	20:COM7	16:COM3	-
			-14.367	0.000	-0.669	0.000	-0.512	-41.763
			26:COM1	-	30:COM1	-	26:COM1	35:CVOL4
14925	5905	+ve	2.399	0.340	0.003	0.058	0.008	0.000
			16:COM3	28:COM1	28:COM1	28:COM1	20:COM7	-
			-1.021	-2.191	-0.004	-0.111	-0.007	-10.563
			26:COM1	22:COM9	22:COM9	22:COM9	30:COM1	22:COM9
	5915	-ve	2.399	0.000	0.003	0.058	0.007	16.481
			16:COM3	-	28:COM1	28:COM1	28:COM1	34:CVOL3
			-1.021	-12.045	-0.004	-0.111	-0.008	0.000
			26:COM1	34:CVOL3	22:COM9	22:COM9	22:COM9	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
14926	5906	+ve	17.519	4.077	1.073	7.047	0.176	0.000
			16:COM3	16:COM3	20:COM7	20:COM7	28:COM15	-
			-14.731	0.000	-0.370	0.000	-0.801	-40.408
			26:COM13	-	30:COM17	-	22:COM9	35:CVOL4
	5901	-ve	17.519	2.681	1.073	7.047	0.651	0.000
			16:COM3	16:COM3	20:COM7	20:COM7	28:COM15	-
			-14.731	-0.533	-0.370	0.000	-0.329	-43.729
			26:COM13	26:COM13	30:COM17	-	22:COM9	35:CVOL4
14927	5906	+ve	1.414	0.000	0.008	0.044	0.012	0.000
			16:COM3	-	28:COM15	28:COM15	28:COM15	-
			-0.440	-2.603	-0.008	-0.154	-0.012	-5.879
			26:COM13	22:COM9	22:COM9	22:COM9	22:COM9	22:COM9
	5914	-ve	1.414	0.000	0.008	0.044	0.012	14.478
			16:COM3	-	28:COM15	28:COM15	28:COM15	34:CVOL3
			-0.440	-10.744	-0.008	-0.154	-0.013	0.000
			26:COM13	34:CVOL3	22:COM9	22:COM9	22:COM9	-
14928	5907	+ve	18.337	0.000	1.453	8.652	0.000	0.000
			16:COM3	-	20:COM7	20:COM7	-	-
			-15.728	-11.148	0.000	0.000	-1.105	-38.564
			26:COM13	35:CVOL4	-	-	22:COM9	35:CVOL4
	5902	-ve	18.337	0.000	1.453	8.652	0.618	0.000
			16:COM3	-	20:COM7	20:COM7	20:COM7	-
			-15.728	-12.357	0.000	0.000	0.000	-24.867
			26:COM13	35:CVOL4	-	-	-	35:CVOL4
14929	5907	+ve	1.196	0.000	0.014	0.082	0.019	3.221
			20:COM7	-	28:COM15	28:COM15	20:COM7	16:COM3
			-0.276	-1.271	-0.019	-0.124	-0.014	-0.218
			30:COM17	18:COM5	22:COM9	22:COM9	30:COM17	26:COM13
	5913	-ve	1.196	0.000	0.014	0.082	0.015	13.982
			20:COM7	-	28:COM15	28:COM15	28:COM15	35:CVOL4
			-0.276	-10.942	-0.019	-0.124	-0.020	0.000
			30:COM17	34:CVOL3	22:COM9	22:COM9	22:COM9	-
14930	5908	+ve	18.756	0.000	4.619	6.893	0.000	0.000
			24:COM17	-	20:COM7	20:COM7	-	-
			-18.192	-22.831	0.000	-2.167	-1.376	-8.951
			18:COM5	35:CVOL4	-	30:COM17	18:COM5	18:COM5
	5903	-ve	18.756	0.000	4.619	6.893	3.305	17.534
			24:COM17	-	20:COM7	20:COM7	20:COM7	16:COM3
			-18.192	-23.854	0.000	-2.167	-0.047	0.000
			18:COM5	35:CVOL4	-	30:COM17	30:COM17	-
14931	5908	+ve	2.664	0.000	0.029	0.149	0.038	10.591
			20:COM7	-	28:COM15	20:COM7	20:COM7	35:CVOL4
			-0.471	-0.338	-0.062	-0.118	-0.016	0.000
			30:COM17	35:CVOL4	22:COM9	30:COM17	30:COM17	-
	5912	-ve	2.664	0.000	0.029	0.149	0.020	13.121
			20:COM7	-	28:COM15	20:COM7	28:COM15	35:CVOL4
			-0.471	-3.795	-0.062	-0.118	-0.038	0.000
			30:COM17	35:CVOL4	22:COM9	30:COM17	22:COM9	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
14932	5909	+ve	17.399	0.000	3.062	5.332	0.169	49.984
			24:COM1	-	20:COM7	20:COM7	24:COM1	35:CVOL4
			-19.265	-35.676	-2.252	-3.904	-1.025	0.000
			18:COM5	35:CVOL4	30:COM1	30:COM1	18:COM5	-
	73	-ve	17.399	0.000	3.062	5.332	2.412	79.071
			24:COM1	-	20:COM7	20:COM7	28:COM1	35:CVOL4
			-19.265	-36.512	-2.252	-3.904	-2.616	0.000
			18:COM5	35:CVOL4	30:COM1	30:COM1	22:COM9	-
14933	5909	+ve	0.938	0.654	0.585	0.121	0.109	14.381
			20:COM7	20:COM7	28:COM1	28:COM1	20:COM7	35:CVOL4
			-0.517	-0.135	-0.575	-0.215	-0.118	0.000
			30:COM1	30:COM1	22:COM9	22:COM9	30:COM1	-
	5911	-ve	0.938	0.426	0.585	0.121	0.079	14.398
			20:COM7	28:COM1	28:COM1	28:COM1	28:COM1	20:COM7
			-0.517	-0.325	-0.575	-0.215	-0.085	0.000
			30:COM1	22:COM9	22:COM9	22:COM9	22:COM9	-
14934	5904	+ve	15.383	22.651	1.299	0.000	1.939	19.281
			16:COM3	35:CVOL4	28:COM1	-	20:COM7	35:CVOL4
			-13.775	0.000	-1.386	-10.294	-1.405	0.000
			26:COM1	-	22:COM9	22:COM9	30:COM1	-
	5899	-ve	15.383	20.603	1.299	0.000	1.285	0.000
			16:COM3	35:CVOL4	28:COM1	-	16:COM3	-
			-13.775	0.000	-1.386	-10.294	-0.922	-23.388
			26:COM1	-	22:COM9	22:COM9	26:COM1	35:CVOL4
14935	5904	+ve	3.199	3.578	0.000	0.180	0.011	1.187
			16:COM3	20:COM7	28:COM1	20:COM7	20:COM7	28:COM1
			-2.178	-1.261	-0.004	-0.020	-0.001	-11.176
			26:COM1	30:COM1	22:COM9	30:COM1	30:COM1	22:COM9
	5916	-ve	3.199	0.000	0.000	0.180	0.001	17.557
			16:COM3	-	28:COM1	20:COM7	28:COM1	20:COM7
			-2.178	-11.605	-0.004	-0.020	-0.007	0.000
			26:COM1	22:COM9	22:COM9	30:COM1	22:COM9	-
14936	5911	+ve	28.970	0.000	5.586	16.048	0.554	66.699
			16:COM3	-	20:COM7	20:COM7	24:COM1	16:COM3
			-26.642	-53.595	-4.540	-7.287	-1.830	0.000
			26:COM1	35:CVOL4	30:COM1	30:COM1	18:COM5	-
	73	-ve	28.970	0.000	5.586	16.048	4.091	103.491
			16:COM3	-	20:COM7	20:COM7	28:COM1	16:COM3
			-26.642	-54.606	-4.540	-7.287	-4.602	0.000
			26:COM1	35:CVOL4	30:COM1	30:COM1	22:COM9	-
14937	5912	+ve	25.172	0.000	0.911	10.772	0.836	0.000
			16:COM3	-	28:COM1	20:COM7	28:COM1	-
			-22.693	-40.461	-1.141	-4.381	-0.771	-22.619
			26:COM1	35:CVOL4	22:COM9	30:COM1	22:COM9	18:COM5
	5911	-ve	25.172	0.000	0.911	10.772	1.289	66.699
			16:COM3	-	28:COM1	20:COM7	24:COM1	16:COM3
			-22.693	-43.160	-1.141	-4.381	-1.672	0.000
			26:COM1	35:CVOL4	22:COM9	30:COM1	18:COM5	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
14938	5913	+ve	21.682	0.000	0.502	9.164	0.370	0.000
			16:COM3	-	16:COM3	20:COM7	24:COM11	-
			-18.738	-23.266	-0.257	-1.795	-0.555	-65.985
			26:COM13	35:CVOL4	26:COM13	30:COM17	18:COM5	34:CVOL3
	5912	-ve	21.682	0.000	0.502	9.164	0.507	0.000
			16:COM3	-	16:COM3	20:COM7	20:COM7	-
			-18.738	-25.965	-0.257	-1.795	-0.213	-22.606
			26:COM13	35:CVOL4	26:COM13	30:COM17	30:COM17	18:COM5
14939	5914	+ve	18.758	2.941	0.567	6.526	0.525	0.000
			16:COM3	16:COM3	24:COM11	20:COM7	24:COM11	-
			-15.216	-1.494	-0.504	-0.754	-0.612	-67.096
			26:COM13	26:COM13	18:COM5	30:COM17	18:COM5	34:CVOL3
	5913	-ve	18.758	0.816	0.567	6.526	0.512	0.000
			16:COM3	24:COM11	24:COM11	20:COM7	24:COM11	-
			-15.216	-4.092	-0.504	-0.754	-0.476	-65.867
			26:COM13	18:COM5	18:COM5	30:COM17	18:COM5	34:CVOL3
14940	5915	+ve	16.205	23.917	0.492	1.730	0.458	0.000
			16:COM3	34:CVOL3	24:COM11	20:COM7	16:COM3	-
			-11.979	0.000	-0.513	-0.494	-0.496	-25.960
			26:COM13	-	18:COM5	30:COM17	26:COM13	18:COM5
	5914	-ve	16.205	21.218	0.492	1.730	0.481	0.000
			16:COM3	34:CVOL3	24:COM11	20:COM7	24:COM11	-
			-11.979	0.000	-0.513	-0.494	-0.558	-67.128
			26:COM13	-	18:COM5	30:COM17	18:COM5	34:CVOL3
14941	5916	+ve	14.409	48.084	0.551	0.207	0.978	70.339
			16:COM3	34:CVOL3	24:COM11	28:COM15	16:COM3	16:COM3
			-8.540	0.000	-0.833	-7.133	-0.628	0.000
			26:COM13	-	18:COM5	22:COM9	26:COM13	-
	5915	-ve	14.409	45.385	0.551	0.207	0.522	0.000
			16:COM3	34:CVOL3	24:COM11	28:COM15	24:COM11	-
			-8.540	0.000	-0.833	-7.133	-0.723	-26.015
			26:COM13	-	18:COM5	22:COM9	18:COM5	18:COM5
14942	5915	+ve	1.791	9.435	0.003	0.111	0.010	10.720
			16:COM3	35:CVOL4	24:COM11	16:COM3	16:COM3	20:COM7
			-0.382	0.000	-0.003	0.000	-0.010	0.000
			26:COM13	-	18:COM5	-	26:COM13	-
	469	-ve	1.791	0.000	0.003	0.111	0.010	11.552
			16:COM3	-	24:COM11	16:COM3	24:COM11	20:COM7
			-0.382	-9.201	-0.003	0.000	-0.010	0.000
			26:COM13	34:CVOL3	18:COM5	-	18:COM5	-
14943	5914	+ve	1.265	9.769	0.003	0.000	0.011	11.153
			16:COM3	35:CVOL4	24:COM11	-	16:COM3	35:CVOL4
			-0.110	0.000	-0.003	-0.090	-0.010	0.000
			26:COM13	-	18:COM5	18:COM5	26:COM13	-
	470	-ve	1.265	0.000	0.003	0.000	0.010	9.220
			16:COM3	-	24:COM11	-	24:COM11	20:COM7
			-0.110	-8.809	-0.003	-0.090	-0.012	0.000
			26:COM13	34:CVOL3	18:COM5	18:COM5	18:COM5	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
14944	5913	+ve	1.261	10.314	0.003	0.000	0.011	12.802
			20:COM7	35:CVOL4	28:COM15	-	20:COM7	20:COM7
			-0.009	0.000	-0.003	-0.157	-0.010	0.000
			30:COM17	-	22:COM9	35:CVOL4	30:COM17	-
	471	-ve	1.261	0.000	0.003	0.000	0.010	7.428
			20:COM7	-	28:COM15	-	24:COM11	20:COM7
			-0.009	-8.211	-0.003	-0.157	-0.011	-0.353
			30:COM17	34:CVOL3	22:COM9	35:CVOL4	18:COM5	30:COM17
14945	5912	+ve	1.391	10.701	0.004	0.000	0.012	15.377
			20:COM7	35:CVOL4	28:COM15	-	20:COM7	20:COM7
			0.000	0.000	-0.004	-0.133	-0.012	0.000
			-	-	22:COM9	22:COM9	30:COM17	-
	472	-ve	1.391	0.000	0.004	0.000	0.012	7.238
			20:COM7	-	28:COM15	-	28:COM15	20:COM7
			0.000	-7.777	-0.004	-0.133	-0.012	-1.974
			-	34:CVOL3	22:COM9	22:COM9	22:COM9	30:COM17
14946	5911	+ve	1.909	10.364	0.003	0.070	0.013	16.849
			16:COM3	20:COM7	28:COM15	20:COM7	20:COM7	20:COM7
			0.000	0.000	-0.004	0.000	-0.010	-1.027
			-	-	22:COM9	-	30:COM17	30:COM17
	473	-ve	1.909	0.000	0.003	0.070	0.012	10.299
			16:COM3	-	28:COM15	20:COM7	28:COM15	20:COM7
			0.000	-8.539	-0.004	0.000	-0.014	-3.355
			-	22:COM9	22:COM9	-	22:COM9	30:COM17
14947	5916	+ve	3.098	9.503	0.003	0.294	0.009	13.005
			16:COM3	35:CVOL4	16:COM3	34:CVOL3	24:COM11	20:COM7
			-1.294	0.000	-0.003	0.000	-0.009	0.000
			26:COM13	-	26:COM13	-	18:COM5	-
	88	-ve	3.098	0.000	0.003	0.294	0.008	13.975
			16:COM3	-	16:COM3	34:CVOL3	16:COM3	20:COM7
			-1.294	-9.201	-0.003	0.000	-0.008	-1.632
			26:COM13	34:CVOL3	26:COM13	-	26:COM13	30:COM17
14948	6096	+ve	9.810	11.493	0.941	0.000	1.264	3.604
			16:COM3	35:CVOL4	24:COM11	-	16:COM3	28:COM15
			-10.925	0.000	-1.903	-9.714	-1.271	-12.946
			26:COM13	-	18:COM5	22:COM9	26:COM13	22:COM9
	6095	-ve	9.810	10.561	0.941	0.000	0.000	0.000
			16:COM3	35:CVOL4	24:COM11	-	-	-
			-10.925	0.000	-1.903	-9.714	-0.772	-21.198
			26:COM13	-	18:COM5	22:COM9	18:COM5	22:COM9
14949	77	+ve	11.879	14.143	0.211	0.762	0.625	34.128
			16:COM3	20:COM7	24:COM11	24:COM11	16:COM3	20:COM7
			-9.909	-1.373	-0.296	-3.073	-0.458	-9.660
			26:COM13	30:COM17	18:COM5	18:COM5	26:COM13	30:COM17
	6096	-ve	11.879	11.032	0.211	0.762	0.490	1.763
			16:COM3	20:COM7	24:COM11	24:COM11	24:COM11	28:COM15
			-9.909	-3.705	-0.296	-3.073	-0.707	-22.466
			26:COM13	30:COM17	18:COM5	18:COM5	18:COM5	22:COM9

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
14962	5918	+ve	8.875	39.537	1.296	12.367	1.490	20.622
			20:COM7	34:CVOL3	24:COM11	20:COM7	16:COM3	16:COM3
			-7.205	0.000	-3.070	-0.138	-0.384	0.000
			30:COM17	-	18:COM5	30:COM17	26:COM13	-
	5882	-ve	8.875	37.869	1.296	12.367	1.193	0.000
			20:COM7	34:CVOL3	24:COM11	20:COM7	24:COM11	-
			-7.205	0.000	-3.070	-0.138	-2.226	-30.150
			30:COM17	-	18:COM5	30:COM17	18:COM5	35:CVOL4
14964	5919	+ve	9.814	11.325	1.380	18.103	1.404	0.000
			20:COM7	16:COM3	24:COM11	35:CVOL4	16:COM3	-
			-7.661	0.000	-3.057	0.000	-0.126	-62.662
			30:COM17	-	18:COM5	-	26:COM13	34:CVOL3
	5883	-ve	9.814	9.903	1.380	18.103	1.323	0.000
			20:COM7	16:COM3	24:COM11	35:CVOL4	24:COM11	-
			-7.661	0.000	-3.057	0.000	-1.769	-73.425
			30:COM17	-	18:COM5	-	18:COM5	34:CVOL3
14966	5920	+ve	6.439	0.000	2.337	19.645	0.708	0.000
			28:COM15	-	16:COM3	35:CVOL4	28:COM15	-
			-7.255	-14.301	-1.972	0.000	-1.704	-77.871
			22:COM9	35:CVOL4	26:COM13	-	22:COM9	34:CVOL3
	5884	-ve	6.439	0.000	2.337	19.645	2.228	0.000
			28:COM15	-	16:COM3	35:CVOL4	24:COM11	-
			-7.255	-15.483	-1.972	0.000	-2.912	-65.173
			22:COM9	35:CVOL4	26:COM13	-	18:COM5	34:CVOL3
14967	5921	+ve	7.383	0.000	2.786	12.707	2.600	0.000
			28:COM15	-	24:COM11	20:COM7	16:COM3	-
			-7.003	-35.493	-6.411	0.000	-0.330	-34.418
			22:COM9	34:CVOL3	18:COM5	-	26:COM13	34:CVOL3
	5885	-ve	7.383	0.000	2.786	12.707	1.647	1.121
			28:COM15	-	24:COM11	20:COM7	24:COM11	24:COM11
			-7.003	-36.437	-6.411	0.000	-1.851	-13.938
			22:COM9	34:CVOL3	18:COM5	-	18:COM5	18:COM5
14968	71	+ve	10.803	6.277	0.000	0.752	0.175	15.427
			16:COM3	28:COM15	-	28:COM15	20:COM7	28:COM15
			-9.876	-10.958	-0.054	-1.261	0.000	-42.292
			26:COM13	22:COM9	18:COM5	22:COM9	-	22:COM9
	132	-ve	10.803	2.513	0.000	0.752	0.023	35.890
			16:COM3	28:COM15	-	28:COM15	24:COM11	20:COM7
			-9.876	-15.978	-0.054	-1.261	-0.150	-10.102
			26:COM13	22:COM9	18:COM5	22:COM9	18:COM5	30:COM17
14969	71	+ve	3.085	7.579	0.000	0.304	0.006	9.184
			16:COM3	20:COM7	28:COM15	35:CVOL4	20:COM7	20:COM7
			-2.692	0.000	-0.002	0.000	0.000	-7.181
			26:COM13	-	22:COM9	-	-	30:COM17
	5886	-ve	3.085	0.000	0.000	0.304	0.002	13.949
			16:COM3	-	28:COM15	35:CVOL4	28:COM15	20:COM7
			-2.692	-10.109	-0.002	0.000	-0.005	-0.223
			26:COM13	22:COM9	22:COM9	-	22:COM9	30:COM17

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
14970	5923	+ve	8.029	60.318	2.731	0.000	1.501	69.739
			16:COM3	34:CVOL3	24:COM11	-	24:COM11	34:CVOL3
			-4.272	0.000	-3.039	-13.717	-1.599	0.000
			26:COM13	-	18:COM5	22:COM9	18:COM5	-
	5877	-ve	8.029	58.668	2.731	0.000	1.713	4.609
			16:COM3	34:CVOL3	24:COM11	-	24:COM11	24:COM11
			-4.272	0.000	-3.039	-13.717	-2.177	-6.062
			26:COM13	-	18:COM5	22:COM9	18:COM5	18:COM5
14971	5923	+ve	2.086	10.954	0.002	0.260	0.007	13.396
			20:COM7	35:CVOL4	16:COM3	34:CVOL3	24:COM11	20:COM7
			-1.260	0.000	-0.002	0.000	-0.009	0.000
			30:COM17	-	26:COM13	-	18:COM5	-
	84	-ve	2.086	0.000	0.002	0.260	0.007	19.338
			20:COM7	-	16:COM3	34:CVOL3	16:COM3	20:COM7
			-1.260	-12.283	-0.002	0.000	-0.005	0.000
			30:COM17	34:CVOL3	26:COM13	-	26:COM13	-
14972	5924	+ve	6.711	58.097	3.052	0.000	0.678	71.022
			20:COM7	34:CVOL3	24:COM11	-	24:COM11	34:CVOL3
			-6.089	0.000	-2.682	-23.086	-0.952	0.000
			30:COM17	-	18:COM5	22:COM9	18:COM5	-
	5918	-ve	6.711	57.060	3.052	0.000	1.355	30.355
			20:COM7	34:CVOL3	24:COM11	-	24:COM11	16:COM3
			-6.089	0.000	-2.682	-23.086	-1.353	0.000
			30:COM17	-	18:COM5	22:COM9	18:COM5	-
14973	5924	+ve	2.134	10.772	0.003	0.310	0.011	16.025
			16:COM3	35:CVOL4	16:COM3	34:CVOL3	24:COM11	20:COM7
			-0.837	0.000	-0.003	0.000	-0.012	0.000
			26:COM13	-	26:COM13	-	18:COM5	-
	86	-ve	2.134	0.000	0.003	0.310	0.010	15.106
			16:COM3	-	16:COM3	34:CVOL3	16:COM3	20:COM7
			-0.837	-10.034	-0.003	0.000	-0.009	-0.334
			26:COM13	34:CVOL3	26:COM13	-	26:COM13	30:COM17
15004	102	+ve	9.767	127.029	14.786	20.244	11.961	56.738
			16:COM3	20:COM7	28:COM15	20:COM7	20:COM7	20:COM7
			-5.144	-43.983	-15.776	-9.234	-11.061	-12.914
			26:COM13	30:COM17	22:COM9	30:COM17	30:COM17	30:COM17
	81	-ve	9.767	125.437	14.786	20.244	5.960	38.561
			16:COM3	20:COM7	28:COM15	20:COM7	28:COM15	28:COM15
			-5.144	-45.176	-15.776	-9.234	-6.198	-88.639
			26:COM13	30:COM17	22:COM9	30:COM17	22:COM9	22:COM9
15007	101	+ve	25.044	98.606	15.211	9.800	9.103	39.674
			20:COM7	16:COM3	20:COM7	20:COM7	28:COM15	16:COM3
			-17.448	-27.645	-13.517	-7.273	-9.713	-6.361
			30:COM17	26:COM13	30:COM17	30:COM17	22:COM9	26:COM13
	80	-ve	25.044	97.413	15.211	9.800	7.788	25.947
			20:COM7	16:COM3	20:COM7	20:COM7	20:COM7	24:COM11
			-17.448	-28.540	-13.517	-7.273	-6.451	-73.039
			30:COM17	26:COM13	30:COM17	30:COM17	30:COM17	18:COM5

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
15014	121	+ve	14.983	0.000	1.009	0.000	2.161	0.000
			28:COM15	-	28:COM15	-	20:COM7	-
			-20.983	-10.897	-1.597	-2.196	-1.451	-9.408
			22:COM9	18:COM5	22:COM9	22:COM9	30:COM17	22:COM9
	60	-ve	14.983	0.000	1.009	0.000	0.483	16.124
			28:COM15	-	28:COM15	-	24:COM11	16:COM3
			-20.983	-16.197	-1.597	-2.196	-0.830	0.000
			22:COM9	34:CVOL3	22:COM9	22:COM9	18:COM5	-
15016	60	+ve	40.607	15.178	0.266	0.000	0.656	28.391
			16:COM3	20:COM7	20:COM7	-	28:COM15	28:COM15
			-26.334	-10.024	-0.182	-2.205	-0.971	-40.166
			26:COM13	30:COM17	30:COM17	18:COM5	22:COM9	22:COM9
	82	-ve	40.607	4.146	0.266	0.000	0.532	51.990
			16:COM3	28:COM15	20:COM7	-	20:COM7	20:COM7
			-26.334	-24.669	-0.182	-2.205	-0.375	-20.499
			26:COM13	22:COM9	30:COM17	18:COM5	30:COM17	30:COM17
15039	113	+ve	8.108	233.963	4.384	6.183	2.749	169.143
			28:COM15	16:COM3	20:COM7	16:COM3	28:COM15	16:COM3
			-14.384	-106.681	-2.942	-4.847	-4.004	-72.993
			22:COM9	26:COM13	30:COM17	26:COM13	22:COM9	26:COM13
	61	-ve	8.108	229.685	4.384	6.183	2.356	83.498
			28:COM15	16:COM3	20:COM7	16:COM3	20:COM7	24:COM17
			-14.384	-109.019	-2.942	-4.847	-1.521	-167.202
			22:COM9	26:COM13	30:COM17	26:COM13	30:COM17	18:COM5
15041	694	+ve	25.117	1.576	0.786	1.880	0.953	0.995
			24:COM17	24:COM11	16:COM3	20:COM7	24:COM11	24:COM17
			-26.982	-15.640	-0.666	-1.752	-1.231	-23.825
			18:COM5	18:COM5	26:COM13	30:COM17	18:COM5	18:COM5
	695	-ve	25.117	0.000	0.786	1.880	0.768	24.618
			24:COM17	-	16:COM3	20:COM7	16:COM3	16:COM3
			-26.982	-23.012	-0.666	-1.752	-0.745	0.000
			18:COM5	18:COM5	26:COM13	30:COM17	26:COM13	-
15072	138	+ve	12.678	5.435	9.511	0.209	12.607	2.710
			28:COM15	20:COM7	20:COM7	24:COM17	28:COM15	20:COM7
			-18.951	-0.387	-7.402	-8.588	-17.354	-0.645
			22:COM9	30:COM17	30:COM17	18:COM5	22:COM9	30:COM17
	101	-ve	12.678	1.920	9.511	0.209	5.583	2.819
			28:COM15	20:COM7	20:COM7	24:COM17	24:COM11	28:COM15
			-18.951	-3.023	-7.402	-8.588	-6.043	-4.763
			22:COM9	30:COM17	30:COM17	18:COM5	18:COM5	22:COM9
15095	6337	+ve	222.882	8.810	8.288	2.918	9.287	5.099
			16:COM3	24:COM11	28:COM15	24:COM17	16:COM3	24:COM17
			-157.234	-14.997	-14.264	-7.949	-3.414	-10.041
			26:COM13	18:COM5	22:COM9	18:COM5	26:COM13	18:COM5
	6328	-ve	222.882	6.771	8.288	2.918	11.891	15.706
			16:COM3	24:COM11	28:COM15	24:COM17	28:COM15	16:COM3
			-157.234	-17.716	-14.264	-7.949	-15.411	-7.185
			26:COM13	18:COM5	22:COM9	18:COM5	22:COM9	26:COM13

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
15100	6103	+ve	4.394	20.054	4.172	7.666	3.759	4.483
			16:COM3	20:COM7	16:COM3	20:COM7	24:COM11	24:COM1
			-1.111	-10.623	-3.803	-4.572	-4.036	-9.314
			26:COM1	30:COM1	26:COM1	30:COM1	18:COM5	18:COM5
	6102	-ve	4.394	18.063	4.172	7.666	3.974	18.370
			16:COM3	20:COM7	16:COM3	20:COM7	16:COM3	28:COM1
			-1.111	-12.116	-3.803	-4.572	-3.543	-37.951
			26:COM1	30:COM1	26:COM1	30:COM1	26:COM1	22:COM9
15127	5989	+ve	548.396	12.817	20.468	4.905	57.046	42.927
			20:COM7	16:COM3	28:COM1	20:COM7	28:COM1	16:COM3
			-95.973	-11.393	-23.078	-4.201	-59.252	-38.100
			30:COM1	26:COM1	22:COM9	30:COM1	22:COM9	26:COM1
	259	-ve	537.757	12.817	20.468	4.905	61.296	28.134
			20:COM7	16:COM3	28:COM1	20:COM7	28:COM1	24:COM1
			-103.952	-11.393	-23.078	-4.201	-78.637	-31.566
			30:COM1	26:COM1	22:COM9	30:COM1	22:COM9	18:COM5
15129	6005	+ve	2.363	11.489	0.004	0.026	0.013	12.166
			28:COM1	35:CVOL4	16:COM3	16:COM3	24:COM11	35:CVOL4
			-3.005	0.000	-0.003	-0.042	-0.014	0.000
			22:COM9	-	26:COM1	26:COM1	18:COM5	-
	853	-ve	2.363	0.000	0.004	0.026	0.015	17.428
			28:COM1	-	16:COM3	16:COM3	16:COM3	20:COM7
			-3.005	-12.563	-0.003	-0.042	-0.015	0.000
			22:COM9	34:CVOL3	26:COM1	26:COM1	26:COM1	-
15130	6006	+ve	1.655	12.156	0.003	0.000	0.012	14.947
			28:COM1	35:CVOL4	20:COM7	-	28:COM1	34:CVOL3
			-2.379	0.000	-0.003	-0.140	-0.013	0.000
			22:COM9	-	30:COM1	18:COM5	22:COM9	-
	854	-ve	1.655	0.000	0.003	0.000	0.014	12.878
			28:COM1	-	20:COM7	-	20:COM7	20:COM7
			-2.379	-11.461	-0.003	-0.140	-0.014	0.000
			22:COM9	34:CVOL3	30:COM1	18:COM5	30:COM1	-
15131	5992	+ve	1.175	12.932	0.006	0.001	0.023	18.693
			28:COM1	35:CVOL4	28:COM1	24:COM1	28:COM1	34:CVOL3
			-1.999	0.000	-0.006	-0.167	-0.024	0.000
			22:COM9	-	22:COM9	18:COM5	22:COM9	-
	855	-ve	1.175	0.000	0.006	0.001	0.023	9.394
			28:COM1	-	28:COM1	24:COM1	28:COM1	20:COM7
			-1.999	-10.305	-0.006	-0.167	-0.023	-0.326
			22:COM9	34:CVOL3	22:COM9	18:COM5	22:COM9	30:COM1
15132	5993	+ve	4.144	22.673	0.061	0.967	0.196	40.629
			24:COM1	35:CVOL4	16:COM3	20:COM7	24:COM11	35:CVOL4
			-8.168	0.000	-0.053	0.000	-0.226	0.000
			18:COM5	-	26:COM1	-	18:COM5	-
	857	-ve	4.144	0.000	0.061	0.967	0.235	15.929
			24:COM1	-	16:COM3	20:COM7	16:COM3	20:COM7
			-8.168	-14.051	-0.053	0.000	-0.202	-4.685
			18:COM5	22:COM9	26:COM1	-	26:COM1	30:COM1

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
15133	5994	+ve	1.324	13.572	0.004	0.023	0.012	22.330
			24:COM1	35:CVOL4	16:COM3	24:COM1	24:COM1	34:CVOL3
			-2.585	0.000	-0.003	-0.111	-0.013	0.000
			18:COM5	-	26:COM1	18:COM5	18:COM5	-
	856	-ve	1.324	0.000	0.004	0.023	0.014	7.434
			24:COM1	-	16:COM3	24:COM1	16:COM3	20:COM7
			-2.585	-9.183	-0.003	-0.111	-0.013	-1.998
			18:COM5	34:CVOL3	26:COM1	18:COM5	26:COM1	30:COM1
15139	5995	+ve	2.054	22.340	0.051	0.722	0.211	32.432
			24:COM1	35:CVOL4	24:COM1	16:COM3	16:COM3	34:CVOL3
			-5.707	0.000	-0.059	0.000	-0.185	0.000
			18:COM5	-	18:COM5	-	26:COM1	-
	878	-ve	2.054	0.000	0.051	0.722	0.187	27.882
			24:COM1	-	24:COM1	16:COM3	24:COM1	20:COM7
			-5.707	-19.276	-0.059	0.000	-0.212	0.000
			18:COM5	34:CVOL3	18:COM5	-	18:COM5	-
15140	5996	+ve	0.610	11.154	0.006	0.000	0.019	14.181
			24:COM1	35:CVOL4	24:COM1	-	16:COM3	34:CVOL3
			-1.794	0.000	-0.005	-0.156	-0.019	0.000
			18:COM5	-	18:COM5	18:COM5	26:COM1	-
	879	-ve	0.610	0.000	0.006	0.000	0.020	11.351
			24:COM1	-	24:COM1	-	24:COM1	20:COM7
			-1.794	-9.958	-0.005	-0.156	-0.020	0.000
			18:COM5	34:CVOL3	18:COM5	18:COM5	18:COM5	-
15141	5997	+ve	0.691	11.421	0.006	0.000	0.021	14.629
			24:COM1	35:CVOL4	24:COM1	-	16:COM3	34:CVOL3
			-1.613	0.000	-0.006	-0.256	-0.021	0.000
			18:COM5	-	18:COM5	18:COM5	26:COM1	-
	880	-ve	0.691	0.000	0.006	0.000	0.022	8.834
			24:COM1	-	24:COM1	-	24:COM1	20:COM7
			-1.613	-9.287	-0.006	-0.256	-0.023	-0.598
			18:COM5	34:CVOL3	18:COM5	18:COM5	18:COM5	30:COM1
15142	5998	+ve	1.441	11.675	0.007	0.000	0.024	15.622
			24:COM1	35:CVOL4	16:COM3	-	24:COM1	34:CVOL3
			-2.303	0.000	-0.007	-0.197	-0.024	0.000
			18:COM5	-	26:COM1	18:COM5	18:COM5	-
	881	-ve	1.441	0.000	0.007	0.000	0.026	7.805
			24:COM1	-	16:COM3	-	16:COM3	20:COM7
			-2.303	-8.633	-0.007	-0.197	-0.026	-2.198
			18:COM5	34:CVOL3	26:COM1	18:COM5	26:COM1	30:COM1
15143	5999	+ve	2.688	11.377	0.008	0.050	0.025	15.363
			24:COM1	35:CVOL4	16:COM3	20:COM7	24:COM1	20:COM7
			-3.934	0.000	-0.008	-0.011	-0.027	0.000
			18:COM5	-	26:COM1	30:COM1	18:COM5	-
	882	-ve	2.688	0.000	0.008	0.050	0.030	9.899
			24:COM1	-	16:COM3	20:COM7	16:COM3	20:COM7
			-3.934	-8.540	-0.008	-0.011	-0.028	-3.935
			18:COM5	34:CVOL3	26:COM1	30:COM1	26:COM1	30:COM1

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
15145	6009	+ve	2.732	9.987	0.009	0.084	0.032	11.069
			24:COM1	35:CVOL4	24:COM1	24:COM1	16:COM3	20:COM7
			-3.880	0.000	-0.009	-0.145	-0.029	0.000
			18:COM5	-	18:COM5	18:COM5	26:COM1	-
	883	-ve	2.732	0.000	0.009	0.084	0.028	12.636
			24:COM1	-	24:COM1	24:COM1	24:COM1	20:COM7
			-3.880	-9.659	-0.009	-0.145	-0.031	-2.092
			18:COM5	34:CVOL3	18:COM5	18:COM5	18:COM5	30:COM1
15146	6010	+ve	1.820	10.464	0.009	0.000	0.032	11.256
			24:COM1	35:CVOL4	24:COM1	-	16:COM3	16:COM3
			-2.498	0.000	-0.009	-0.141	-0.030	0.000
			18:COM5	-	18:COM5	18:COM5	26:COM1	-
	884	-ve	1.820	0.000	0.009	0.000	0.028	9.337
			24:COM1	-	24:COM1	-	24:COM1	20:COM7
			-2.498	-9.120	-0.009	-0.141	-0.029	-1.721
			18:COM5	34:CVOL3	18:COM5	18:COM5	18:COM5	30:COM1
15147	6011	+ve	0.753	10.859	0.009	0.000	0.035	12.477
			24:COM1	35:CVOL4	24:COM1	-	16:COM3	20:COM7
			-1.048	0.000	-0.010	-0.081	-0.032	0.000
			18:COM5	-	18:COM5	35:CVOL4	26:COM1	-
	885	-ve	0.753	0.000	0.009	0.000	0.030	7.731
			24:COM1	-	24:COM1	-	24:COM1	20:COM7
			-1.048	-8.669	-0.010	-0.081	-0.031	-2.248
			18:COM5	34:CVOL3	18:COM5	35:CVOL4	18:COM5	30:COM1
15148	6012	+ve	2.073	11.040	0.013	0.091	0.047	15.398
			16:COM3	35:CVOL4	24:COM1	20:COM7	16:COM3	20:COM7
			-1.963	0.000	-0.013	-0.036	-0.044	-0.271
			26:COM1	-	18:COM5	30:COM1	26:COM1	30:COM1
	886	-ve	2.073	0.000	0.013	0.091	0.041	8.868
			16:COM3	-	24:COM1	20:COM7	24:COM1	20:COM7
			-1.963	-8.444	-0.013	-0.036	-0.041	-3.667
			26:COM1	34:CVOL3	18:COM5	30:COM1	18:COM5	30:COM1
15149	6013	+ve	4.963	10.874	0.007	0.251	0.034	18.068
			20:COM7	20:COM7	24:COM1	16:COM3	16:COM3	20:COM7
			-2.692	0.000	-0.009	-0.030	-0.022	-4.780
			30:COM1	-	18:COM5	26:COM1	26:COM1	30:COM1
	887	-ve	4.963	0.000	0.007	0.251	0.022	14.035
			20:COM7	-	24:COM1	16:COM3	24:COM1	20:COM7
			-2.692	-9.799	-0.009	-0.030	-0.027	-5.540
			30:COM1	22:COM9	18:COM5	26:COM1	18:COM5	30:COM1
15150	6005	+ve	22.088	35.195	2.342	0.000	1.512	0.000
			20:COM7	34:CVOL3	24:COM1	-	24:COM1	-
			-9.433	0.000	-2.619	-7.037	-1.423	-26.339
			30:COM1	-	18:COM5	22:COM9	18:COM5	18:COM5
	5991	-ve	22.088	33.407	2.342	0.000	2.729	0.000
			20:COM7	34:CVOL3	24:COM1	-	28:COM1	-
			-9.433	0.000	-2.619	-7.037	-3.049	-76.658
			30:COM1	-	18:COM5	22:COM9	22:COM9	35:CVOL4

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
15152	6006	+ve	21.159	7.904	1.950	0.000	0.997	0.000
			20:COM7	16:COM3	28:COM15	-	28:COM15	-
			-10.065	0.000	-1.918	-4.691	-1.048	-74.638
			30:COM17	-	22:COM9	34:CVOL3	22:COM9	35:CVOL4
	5992	-ve	21.159	5.786	1.950	0.000	2.382	0.000
			20:COM7	16:COM3	28:COM15	-	28:COM15	-
			-10.065	-0.673	-1.918	-4.691	-2.377	-85.158
			30:COM17	26:COM13	22:COM9	34:CVOL3	22:COM9	34:CVOL3
15153	6007	+ve	13.977	62.117	1.338	0.000	2.344	70.257
			20:COM7	34:CVOL3	24:COM11	-	20:COM7	34:CVOL3
			-3.900	0.000	-3.190	-14.146	-1.609	0.000
			30:COM17	-	18:COM5	22:COM9	30:COM17	-
	5990	-ve	13.977	60.673	1.338	0.000	1.875	6.761
			20:COM7	34:CVOL3	24:COM11	-	24:COM11	24:COM11
			-3.900	0.000	-3.190	-14.146	-3.348	-9.079
			30:COM17	-	18:COM5	22:COM9	18:COM5	18:COM5
15154	6007	+ve	4.399	11.177	0.003	0.325	0.013	12.216
			20:COM7	35:CVOL4	16:COM3	16:COM3	24:COM11	20:COM7
			-4.038	0.000	-0.003	-0.037	-0.014	0.000
			30:COM17	-	26:COM13	26:COM13	18:COM5	-
	168	-ve	4.399	0.000	0.003	0.325	0.014	22.159
			20:COM7	-	16:COM3	16:COM3	16:COM3	20:COM7
			-4.038	-13.314	-0.003	-0.037	-0.014	0.000
			30:COM17	34:CVOL3	26:COM13	26:COM13	26:COM13	-
15155	6008	+ve	24.117	78.960	0.746	1.468	1.080	83.802
			16:COM3	34:CVOL3	28:COM15	28:COM15	20:COM7	34:CVOL3
			-9.530	0.000	-0.835	-10.879	-1.061	0.000
			26:COM13	-	22:COM9	22:COM9	30:COM17	-
	6015	-ve	24.117	78.053	0.746	1.468	0.469	28.028
			16:COM3	34:CVOL3	28:COM15	28:COM15	20:COM7	16:COM3
			-9.530	0.000	-0.835	-10.879	-0.517	0.000
			26:COM13	-	22:COM9	22:COM9	30:COM17	-
15156	6008	+ve	3.332	11.512	0.007	0.472	0.024	17.155
			28:COM15	35:CVOL4	24:COM11	16:COM3	16:COM3	20:COM7
			-4.517	0.000	-0.007	0.000	-0.023	0.000
			22:COM9	-	18:COM5	-	26:COM13	-
	170	-ve	3.332	0.000	0.007	0.472	0.025	16.995
			28:COM15	-	24:COM11	16:COM3	24:COM11	20:COM7
			-4.517	-10.415	-0.007	0.000	-0.025	-2.273
			22:COM9	34:CVOL3	18:COM5	-	18:COM5	30:COM17
15165	6012	+ve	21.274	0.000	13.019	5.408	6.314	16.077
			20:COM7	-	16:COM3	28:COM15	16:COM3	24:COM11
			-9.936	-32.520	-13.761	-23.353	-5.480	-36.677
			30:COM17	18:COM5	26:COM13	22:COM9	26:COM13	18:COM5
	6004	-ve	21.274	0.000	13.019	5.408	3.898	33.052
			20:COM7	-	16:COM3	28:COM15	16:COM3	16:COM3
			-9.936	-33.377	-13.761	-23.353	-3.588	-27.090
			30:COM17	18:COM5	26:COM13	22:COM9	26:COM13	26:COM13

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
15167	6013	+ve	31.586	0.000	10.174	13.315	0.668	88.979
			16:COM3	-	16:COM3	28:COM1	28:COM1	16:COM3
			-14.531	-59.206	-5.124	-24.778	-3.755	-20.299
			26:COM1	18:COM5	26:COM1	22:COM9	22:COM9	26:COM1
	157	-ve	31.586	0.000	10.174	13.315	4.929	132.216
			16:COM3	-	16:COM3	28:COM1	24:COM1	16:COM3
			-14.531	-60.090	-5.124	-24.778	-4.330	-11.391
			26:COM1	18:COM5	26:COM1	22:COM9	18:COM5	26:COM1
15169	6014	+ve	5.562	9.915	0.010	0.322	0.031	13.094
			16:COM3	35:CVOL4	24:COM1	16:COM3	16:COM3	20:COM7
			-5.813	0.000	-0.010	-0.122	-0.030	0.000
			26:COM1	-	18:COM5	26:COM1	26:COM1	-
	172	-ve	5.562	0.000	0.010	0.322	0.033	16.217
			16:COM3	-	24:COM1	16:COM3	24:COM1	20:COM7
			-5.813	-9.799	-0.010	-0.122	-0.033	-4.160
			26:COM1	34:CVOL3	18:COM5	26:COM1	18:COM5	30:COM1
15170	6015	+ve	24.103	78.053	0.762	1.468	0.469	28.028
			16:COM3	34:CVOL3	28:COM1	28:COM1	20:COM7	16:COM3
			-9.516	0.000	-0.851	-10.879	-0.517	0.000
			26:COM1	-	22:COM9	22:COM9	30:COM1	-
	5995	-ve	24.103	76.593	0.762	1.468	0.446	0.000
			16:COM3	34:CVOL3	28:COM1	28:COM1	28:COM1	-
			-9.516	0.000	-0.851	-10.879	-0.601	-68.253
			26:COM1	-	22:COM9	22:COM9	22:COM9	35:CVOL4
15172	6016	+ve	26.668	7.158	2.587	23.622	0.632	0.000
			16:COM3	16:COM3	20:COM7	35:CVOL4	28:COM1	-
			-11.814	-0.153	-1.009	0.000	-1.359	-86.005
			26:COM1	26:COM1	30:COM1	-	22:COM9	34:CVOL3
	5996	-ve	26.668	5.913	2.587	23.622	1.504	0.000
			16:COM3	16:COM3	20:COM7	35:CVOL4	20:COM7	-
			-11.814	-1.087	-1.009	0.000	-0.609	-92.706
			26:COM1	26:COM1	30:COM1	-	30:COM1	34:CVOL3
15173	6017	+ve	25.248	0.000	3.857	18.851	0.245	0.000
			16:COM3	-	20:COM7	34:CVOL3	28:COM1	-
			-13.465	-16.604	-1.423	0.000	-1.589	-90.229
			26:COM1	34:CVOL3	30:COM1	-	22:COM9	34:CVOL3
	5997	-ve	25.248	0.000	3.857	18.851	2.170	0.000
			16:COM3	-	20:COM7	34:CVOL3	16:COM3	-
			-13.465	-17.638	-1.423	0.000	-1.436	-75.612
			26:COM1	34:CVOL3	30:COM1	-	26:COM1	34:CVOL3
15175	6018	+ve	37.512	0.000	7.846	15.551	2.812	0.000
			16:COM3	-	24:COM1	20:COM7	16:COM3	-
			-23.665	-40.625	-6.973	0.000	-3.183	-42.741
			26:COM1	34:CVOL3	18:COM5	-	26:COM1	34:CVOL3
	5998	-ve	37.512	0.000	7.846	15.551	2.175	0.457
			16:COM3	-	24:COM1	20:COM7	24:COM1	24:COM1
			-23.665	-41.451	-6.973	0.000	-1.950	-17.727
			26:COM1	34:CVOL3	18:COM5	-	18:COM5	18:COM5

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
15187	6024	+ve	4.975	7.948	0.122	0.779	0.404	2.217
			24:COM1	34:CVOL3	24:COM1	28:COM1	16:COM3	28:COM1
			-5.276	0.000	-0.122	-1.525	-0.365	-2.892
			18:COM5	-	18:COM5	22:COM9	26:COM1	22:COM9
	6030	-ve	4.975	0.000	0.122	0.779	0.389	14.447
			24:COM1	-	24:COM1	28:COM1	16:COM3	35:CVOL4
			-5.276	-12.842	-0.122	-1.525	-0.351	0.000
			18:COM5	35:CVOL4	18:COM5	22:COM9	26:COM1	-
15188	6030	+ve	5.168	13.812	0.081	1.701	0.235	19.443
			24:COM1	35:CVOL4	20:COM7	35:CVOL4	20:COM7	20:COM7
			-6.411	0.000	-0.080	0.000	-0.225	0.000
			18:COM5	-	30:COM1	-	30:COM1	-
	6383	-ve	5.168	0.000	0.081	1.701	0.244	0.423
			24:COM1	-	20:COM7	35:CVOL4	20:COM7	28:COM1
			-6.411	-5.621	-0.080	0.000	-0.224	-5.263
			18:COM5	34:CVOL3	30:COM1	-	30:COM1	22:COM9
15191	6021	+ve	112.443	10.149	3.534	4.472	5.458	13.629
			16:COM3	20:COM7	24:COM1	16:COM3	16:COM3	28:COM1
			-102.930	-8.036	-3.973	-2.107	-4.558	-13.361
			26:COM1	30:COM1	18:COM5	26:COM1	26:COM1	22:COM9
	6086	-ve	112.443	8.618	3.534	4.472	3.915	8.478
			16:COM3	28:COM1	24:COM1	16:COM3	24:COM1	24:COM1
			-102.930	-9.406	-3.973	-2.107	-4.066	-9.796
			26:COM1	22:COM9	18:COM5	26:COM1	18:COM5	18:COM5
15192	6021	+ve	72.357	41.591	29.509	4.620	15.879	20.711
			16:COM3	24:COM1	24:COM1	24:COM1	16:COM3	28:COM1
			-57.935	-41.904	-41.048	-13.828	-10.956	-20.866
			26:COM1	18:COM5	18:COM5	18:COM5	26:COM1	22:COM9
	6026	-ve	72.357	40.808	29.509	4.620	11.705	12.767
			16:COM3	24:COM1	24:COM1	24:COM1	24:COM1	16:COM3
			-57.935	-43.409	-41.048	-13.828	-15.638	-11.804
			26:COM1	18:COM5	18:COM5	18:COM5	18:COM5	26:COM1
15193	6026	+ve	24.177	7.016	0.455	0.424	1.891	6.949
			24:COM1	34:CVOL3	28:COM1	24:COM1	20:COM7	20:COM7
			-32.716	0.000	-0.620	-1.817	-1.342	0.000
			18:COM5	-	22:COM9	18:COM5	30:COM1	-
	6025	-ve	24.177	0.000	0.455	0.424	1.517	7.995
			24:COM1	-	28:COM1	24:COM1	24:COM1	35:CVOL4
			-32.716	-7.359	-0.620	-1.817	-1.994	0.000
			18:COM5	35:CVOL4	22:COM9	18:COM5	18:COM5	-
15194	6025	+ve	13.274	8.363	0.581	1.909	1.738	11.376
			28:COM1	16:COM3	28:COM1	16:COM3	20:COM7	16:COM3
			-20.848	-2.800	-0.973	-0.917	-1.050	-8.142
			22:COM9	26:COM1	22:COM9	26:COM1	30:COM1	26:COM1
	6020	-ve	13.274	2.879	0.581	1.909	1.093	9.949
			28:COM1	24:COM1	28:COM1	16:COM3	28:COM1	16:COM3
			-20.848	-8.262	-0.973	-0.917	-1.843	-7.045
			22:COM9	18:COM5	22:COM9	26:COM1	22:COM9	26:COM1

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
15200	6025	+ve	18.034	28.564	3.679	0.000	6.041	47.025
			16:COM3	16:COM3	28:COM15	-	20:COM7	16:COM3
			-13.522	0.000	-4.462	-7.541	-4.716	-9.979
			26:COM13	-	22:COM9	22:COM9	30:COM17	26:COM13
	6047	-ve	18.034	26.298	3.679	0.000	2.722	1.001
			16:COM3	16:COM3	28:COM15	-	28:COM15	24:COM11
			-13.522	0.000	-4.462	-7.541	-2.975	-28.033
			26:COM13	-	22:COM9	22:COM9	22:COM9	18:COM5
15201	6026	+ve	79.689	17.359	15.059	15.221	18.200	48.149
			16:COM3	35:CVOL4	24:COM11	16:COM3	16:COM3	16:COM3
			-64.994	0.000	-15.048	0.000	-17.481	-3.952
			26:COM13	-	18:COM5	-	26:COM13	26:COM13
	6053	-ve	79.689	15.093	15.059	15.221	12.993	18.138
			16:COM3	35:CVOL4	24:COM11	16:COM3	16:COM3	16:COM3
			-64.994	0.000	-15.048	0.000	-12.251	-13.618
			26:COM13	-	18:COM5	-	26:COM13	26:COM13
15218	6020	+ve	10.273	12.641	0.674	0.249	2.883	18.983
			20:COM7	16:COM3	28:COM15	28:COM15	16:COM3	16:COM3
			-10.067	0.000	-2.048	-4.491	-1.168	-9.103
			30:COM17	-	22:COM9	22:COM9	26:COM13	26:COM13
	6085	-ve	10.273	10.898	0.674	0.249	1.027	0.000
			20:COM7	16:COM3	28:COM15	28:COM15	28:COM15	-
			-10.067	-0.692	-2.048	-4.491	-2.079	-13.155
			30:COM17	26:COM13	22:COM9	22:COM9	22:COM9	18:COM5
15219	6047	+ve	30.703	13.387	3.175	0.553	3.201	1.060
			16:COM3	16:COM3	20:COM7	28:COM15	24:COM11	24:COM11
			-28.504	-2.872	-2.457	-4.539	-3.808	-27.956
			26:COM13	26:COM13	30:COM17	22:COM9	18:COM5	18:COM5
	6048	-ve	30.703	11.121	3.175	0.553	3.299	0.000
			16:COM3	16:COM3	20:COM7	28:COM15	20:COM7	-
			-28.504	-4.571	-2.457	-4.539	-2.459	-35.468
			26:COM13	26:COM13	30:COM17	22:COM9	30:COM17	34:CVOL3
15220	6048	+ve	39.991	2.576	3.846	5.116	2.680	0.000
			16:COM3	24:COM11	20:COM7	20:COM7	28:COM15	-
			-40.223	-16.037	-2.867	-3.328	-3.561	-35.625
			26:COM13	18:COM5	30:COM17	30:COM17	22:COM9	34:CVOL3
	6049	-ve	39.991	0.877	3.846	5.116	4.352	12.707
			16:COM3	24:COM11	20:COM7	20:COM7	20:COM7	24:COM11
			-40.223	-18.303	-2.867	-3.328	-3.260	-25.876
			26:COM13	18:COM5	30:COM17	30:COM17	30:COM17	18:COM5
15221	6049	+ve	47.597	0.000	6.540	17.936	3.838	12.657
			28:COM15	-	20:COM7	20:COM7	28:COM15	24:COM11
			-52.304	-33.174	-5.591	-7.666	-4.769	-26.176
			22:COM9	18:COM5	30:COM17	30:COM17	22:COM9	18:COM5
	164	-ve	47.597	0.000	6.540	17.936	8.608	77.319
			28:COM15	-	20:COM7	20:COM7	20:COM7	16:COM3
			-52.304	-35.440	-5.591	-7.666	-7.626	-8.191
			22:COM9	18:COM5	30:COM17	30:COM17	30:COM17	26:COM13

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
15223	6047	+ve	2.519	6.752	0.065	0.145	0.133	5.261
			24:COM1	34:CVOL3	28:COM1	20:COM7	20:COM7	20:COM7
			-3.328	0.000	-0.074	0.000	-0.118	0.000
			18:COM5	-	22:COM9	-	30:COM1	-
	6085	-ve	2.519	0.000	0.065	0.145	0.123	2.338
			24:COM1	-	28:COM1	20:COM7	28:COM1	35:CVOL4
			-3.328	-5.235	-0.074	0.000	-0.138	0.000
			18:COM5	35:CVOL4	22:COM9	-	22:COM9	-
15225	6048	+ve	3.257	6.684	0.061	0.021	0.120	5.185
			24:COM1	34:CVOL3	28:COM1	28:COM1	20:COM7	34:CVOL3
			-3.334	0.000	-0.069	-0.022	-0.106	0.000
			18:COM5	-	22:COM9	22:COM9	30:COM1	-
	6084	-ve	3.257	0.000	0.061	0.021	0.117	2.798
			24:COM1	-	28:COM1	28:COM1	28:COM1	20:COM7
			-3.334	-5.296	-0.069	-0.022	-0.133	0.000
			18:COM5	35:CVOL4	22:COM9	22:COM9	22:COM9	-
15227	6049	+ve	3.189	7.627	0.052	0.000	0.102	8.020
			24:COM1	20:COM7	28:COM1	-	20:COM7	20:COM7
			-2.995	0.000	-0.060	-0.135	-0.090	-0.517
			18:COM5	-	22:COM9	35:CVOL4	30:COM1	30:COM1
	6083	-ve	3.189	0.000	0.052	0.000	0.102	4.827
			24:COM1	-	28:COM1	-	28:COM1	20:COM7
			-2.995	-5.589	-0.060	-0.135	-0.117	-2.761
			18:COM5	22:COM9	22:COM9	35:CVOL4	22:COM9	30:COM1
15228	6053	+ve	102.415	15.977	3.327	3.731	3.114	18.781
			16:COM3	16:COM3	24:COM1	16:COM3	16:COM3	16:COM3
			-85.185	0.000	-3.492	-0.214	-2.642	-13.571
			26:COM1	-	18:COM5	26:COM1	26:COM1	26:COM1
	6054	-ve	102.415	13.711	3.327	3.731	4.069	0.000
			16:COM3	16:COM3	24:COM1	16:COM3	16:COM3	-
			-85.185	-0.645	-3.492	-0.214	-3.931	-23.638
			26:COM1	26:COM1	18:COM5	26:COM1	26:COM1	18:COM5
15229	6054	+ve	110.901	10.633	2.494	0.000	1.480	0.000
			16:COM3	16:COM3	20:COM7	-	28:COM1	-
			-90.585	-4.398	-1.982	-7.698	-1.882	-23.505
			26:COM1	26:COM1	30:COM1	18:COM5	22:COM9	18:COM5
	6055	-ve	110.901	8.368	2.494	0.000	3.481	0.000
			16:COM3	16:COM3	20:COM7	-	20:COM7	-
			-90.585	-6.097	-1.982	-7.698	-2.852	-29.870
			26:COM1	26:COM1	30:COM1	18:COM5	30:COM1	18:COM5
15230	6055	+ve	113.614	2.998	4.802	1.678	2.716	0.000
			16:COM3	24:COM1	20:COM7	24:COM1	28:COM1	-
			-92.058	-14.836	-4.345	-10.365	-3.470	-29.890
			26:COM1	18:COM5	30:COM1	18:COM5	22:COM9	18:COM5
	6056	-ve	113.614	1.299	4.802	1.678	6.244	17.269
			16:COM3	24:COM1	20:COM7	24:COM1	20:COM7	24:COM1
			-92.058	-17.101	-4.345	-10.365	-6.077	-22.536
			26:COM1	18:COM5	30:COM1	18:COM5	30:COM1	18:COM5

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
15231	6056	+ve	135.874	6.757	9.930	9.972	4.636	11.518
			16:COM3	28:COM15	20:COM7	28:COM15	28:COM15	24:COM11
			-110.753	-28.299	-5.262	-11.096	-9.154	-22.046
			26:COM13	22:COM9	30:COM17	22:COM9	22:COM9	18:COM5
	203	-ve	135.874	4.972	9.930	9.972	11.870	55.667
			16:COM3	28:COM15	20:COM7	28:COM15	20:COM7	20:COM7
			-110.753	-30.679	-5.262	-11.096	-6.508	-16.189
			26:COM13	22:COM9	30:COM17	22:COM9	30:COM17	30:COM17
15232	6053	+ve	12.702	8.714	0.038	0.070	0.127	5.824
			24:COM11	35:CVOL4	24:COM11	16:COM3	20:COM7	35:CVOL4
			-13.517	0.000	-0.042	-0.045	-0.113	0.000
			18:COM5	-	18:COM5	26:COM13	30:COM17	-
	6047	-ve	12.702	0.000	0.038	0.070	0.121	8.910
			24:COM11	-	24:COM11	16:COM3	24:COM11	34:CVOL3
			-13.517	-9.711	-0.042	-0.045	-0.134	0.000
			18:COM5	34:CVOL3	18:COM5	26:COM13	18:COM5	-
15233	6054	+ve	13.238	8.124	0.032	0.153	0.110	3.899
			24:COM11	35:CVOL4	28:COM15	34:CVOL3	20:COM7	20:COM7
			-14.048	0.000	-0.036	0.000	-0.099	-0.705
			18:COM5	-	22:COM9	-	30:COM17	30:COM17
	6048	-ve	13.238	0.000	0.032	0.153	0.100	10.367
			24:COM11	-	28:COM15	34:CVOL3	28:COM15	20:COM7
			-14.048	-10.314	-0.036	0.000	-0.111	0.000
			18:COM5	34:CVOL3	22:COM9	-	22:COM9	-
15234	6055	+ve	11.116	7.394	0.027	0.201	0.093	4.379
			24:COM11	35:CVOL4	28:COM15	16:COM3	20:COM7	20:COM7
			-11.957	0.000	-0.030	-0.003	-0.082	-3.274
			18:COM5	-	22:COM9	26:COM13	30:COM17	30:COM17
	6049	-ve	11.116	0.000	0.027	0.201	0.083	15.082
			24:COM11	-	28:COM15	16:COM3	28:COM15	20:COM7
			-11.957	-11.064	-0.030	-0.003	-0.093	0.000
			18:COM5	34:CVOL3	22:COM9	26:COM13	22:COM9	-
15235	6056	+ve	23.688	10.753	0.281	1.522	1.271	14.575
			24:COM11	20:COM7	28:COM15	24:COM11	20:COM7	28:COM15
			-24.292	-6.071	-0.388	-3.108	-0.911	-27.997
			18:COM5	30:COM17	22:COM9	18:COM5	30:COM17	22:COM9
	164	-ve	23.688	0.272	0.281	1.522	0.837	50.456
			24:COM11	28:COM15	28:COM15	24:COM11	28:COM15	20:COM7
			-24.292	-21.364	-0.388	-3.108	-1.135	-13.093
			18:COM5	22:COM9	22:COM9	18:COM5	22:COM9	30:COM17
15236	203	+ve	35.176	29.605	4.676	1.158	4.378	21.636
			28:COM15	20:COM7	24:COM11	28:COM15	16:COM3	20:COM7
			-69.303	-25.807	-5.521	-5.125	-1.615	-19.881
			22:COM9	30:COM17	18:COM5	22:COM9	26:COM13	30:COM17
	146	-ve	35.176	26.499	4.676	1.158	8.979	29.351
			28:COM15	28:COM15	24:COM11	28:COM15	20:COM7	20:COM7
			-69.303	-29.419	-5.521	-5.125	-7.734	-28.385
			22:COM9	22:COM9	18:COM5	22:COM9	30:COM17	30:COM17

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
15237	998	+ve	11.791	10.921	0.018	0.134	0.078	17.071
			20:COM7	20:COM7	28:COM15	24:COM11	20:COM7	20:COM7
			-4.839	0.000	-0.024	-0.238	-0.059	-3.773
			30:COM17	-	22:COM9	18:COM5	30:COM17	30:COM17
	203	-ve	11.791	0.301	0.018	0.134	0.052	14.789
			20:COM7	28:COM15	28:COM15	24:COM11	28:COM15	20:COM7
			-4.839	-9.567	-0.024	-0.238	-0.070	-8.626
			30:COM17	22:COM9	22:COM9	18:COM5	22:COM9	30:COM17
15238	6058	+ve	50.582	18.140	1.057	0.272	3.723	7.003
			20:COM7	28:COM15	24:COM11	24:COM11	16:COM3	24:COM11
			-12.114	-24.811	-2.157	-3.463	-1.654	-17.987
			30:COM17	22:COM9	18:COM5	18:COM5	26:COM13	18:COM5
	166	-ve	50.582	13.327	1.057	0.272	2.388	86.385
			20:COM7	28:COM15	24:COM11	24:COM11	24:COM11	20:COM7
			-12.114	-33.375	-2.157	-3.463	-4.255	-49.579
			30:COM17	22:COM9	18:COM5	18:COM5	18:COM5	30:COM17
15239	6058	+ve	5.293	8.892	0.030	0.326	0.048	6.916
			20:COM7	20:COM7	28:COM15	20:COM7	20:COM7	20:COM7
			-1.362	-7.073	-0.031	-0.354	-0.043	-8.016
			30:COM17	30:COM17	22:COM9	30:COM17	30:COM17	30:COM17
	997	-ve	5.293	4.568	0.030	0.326	0.048	19.658
			20:COM7	28:COM15	28:COM15	20:COM7	24:COM11	20:COM7
			-1.362	-12.674	-0.031	-0.354	-0.044	-11.600
			30:COM17	22:COM9	22:COM9	30:COM17	18:COM5	30:COM17
15241	6059	+ve	73.198	27.772	2.464	0.000	5.838	82.372
			20:COM7	16:COM3	28:COM15	-	20:COM7	16:COM3
			-64.212	0.000	-5.107	-3.823	-3.369	0.000
			30:COM17	-	22:COM9	34:CVOL3	30:COM17	-
	1055	-ve	73.198	26.085	2.464	0.000	1.797	30.017
			20:COM7	16:COM3	28:COM15	-	28:COM15	16:COM3
			-64.212	0.000	-5.107	-3.823	-4.482	-9.765
			30:COM17	-	22:COM9	34:CVOL3	22:COM9	26:COM13
15243	5989	+ve	79.187	18.781	0.802	2.460	0.689	46.667
			28:COM15	16:COM3	24:COM11	28:COM15	16:COM3	16:COM3
			-84.675	-5.290	-0.891	-3.607	-0.672	-23.532
			22:COM9	26:COM13	18:COM5	22:COM9	26:COM13	26:COM13
	6062	-ve	79.187	16.907	0.802	2.460	1.146	8.942
			28:COM15	16:COM3	24:COM11	28:COM15	24:COM11	24:COM11
			-84.675	-6.696	-0.891	-3.607	-1.321	-11.485
			22:COM9	26:COM13	18:COM5	22:COM9	18:COM5	18:COM5
15246	6061	+ve	107.470	9.458	5.209	3.941	1.908	10.636
			20:COM7	24:COM11	20:COM7	20:COM7	28:COM15	24:COM11
			-108.047	-14.490	-3.159	-0.395	-3.877	-18.634
			30:COM17	18:COM5	30:COM17	30:COM17	22:COM9	18:COM5
	6059	-ve	107.470	8.052	5.209	3.941	7.489	41.816
			20:COM7	24:COM11	20:COM7	20:COM7	20:COM7	16:COM3
			-108.047	-16.364	-3.159	-0.395	-5.016	-35.355
			30:COM17	18:COM5	30:COM17	30:COM17	30:COM17	26:COM13

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
15247	6062	+ve	89.796	13.276	0.520	2.274	1.691	8.974
			28:COM15	16:COM3	24:COM11	20:COM7	20:COM7	24:COM11
			-93.731	-9.066	-1.357	-1.043	-0.722	-11.498
			22:COM9	26:COM13	18:COM5	30:COM17	30:COM17	18:COM5
	6061	-ve	89.796	11.402	0.520	2.274	1.047	10.599
			28:COM15	16:COM3	24:COM11	20:COM7	24:COM11	24:COM11
			-93.731	-10.471	-1.357	-1.043	-1.891	-18.692
			22:COM9	26:COM13	18:COM5	30:COM17	18:COM5	18:COM5
15248	146	+ve	44.342	29.917	6.488	2.273	3.993	65.902
			20:COM7	20:COM7	28:COM15	28:COM15	16:COM3	28:COM15
			0.000	-27.092	-7.430	-6.151	-4.670	-79.823
			-	30:COM17	22:COM9	22:COM9	26:COM13	22:COM9
	6058	-ve	44.342	25.421	6.488	2.273	8.765	10.883
			20:COM7	28:COM15	28:COM15	28:COM15	28:COM15	28:COM15
			0.000	-30.272	-7.430	-6.151	-11.375	-22.724
			-	22:COM9	22:COM9	22:COM9	22:COM9	22:COM9
15253	6027	+ve	13.706	7.333	0.201	0.000	0.704	9.355
			24:COM11	34:CVOL3	24:COM11	-	24:COM11	16:COM3
			-20.979	0.000	-0.227	-1.004	-0.668	0.000
			18:COM5	-	18:COM5	22:COM9	18:COM5	-
	137	-ve	13.706	0.000	0.201	0.000	0.570	6.029
			24:COM11	-	24:COM11	-	24:COM11	35:CVOL4
			-20.979	-6.388	-0.227	-1.004	-0.696	0.000
			18:COM5	35:CVOL4	18:COM5	22:COM9	18:COM5	-
15254	137	+ve	9.964	1.491	7.811	2.857	7.619	1.678
			24:COM11	20:COM7	28:COM15	16:COM3	20:COM7	20:COM7
			-13.336	-1.123	-8.136	0.000	-7.225	-0.724
			18:COM5	30:COM17	22:COM9	-	30:COM17	30:COM17
	138	-ve	9.964	0.000	7.811	2.857	6.311	3.958
			24:COM11	-	28:COM15	16:COM3	28:COM15	20:COM7
			-13.336	-4.146	-8.136	0.000	-6.479	0.000
			18:COM5	22:COM9	22:COM9	-	22:COM9	-
15255	137	+ve	16.894	27.088	7.206	1.346	7.326	41.267
			16:COM3	20:COM7	28:COM15	24:COM11	20:COM7	20:COM7
			-4.252	0.000	-8.080	-0.870	-6.581	-2.542
			26:COM13	-	22:COM9	18:COM5	30:COM17	30:COM17
	6066	-ve	16.894	25.393	7.206	1.346	5.186	0.669
			16:COM3	20:COM7	28:COM15	24:COM11	28:COM15	28:COM15
			-4.252	0.000	-8.080	-0.870	-5.869	-10.291
			26:COM13	-	22:COM9	18:COM5	22:COM9	22:COM9
15256	6064	+ve	13.727	3.890	1.842	1.764	0.386	3.944
			28:COM15	20:COM7	16:COM3	24:COM11	24:COM11	20:COM7
			-26.190	-0.756	-0.492	-3.001	-1.328	-0.657
			22:COM9	30:COM17	26:COM13	18:COM5	18:COM5	30:COM17
	6065	-ve	13.727	2.760	1.842	1.764	1.689	1.304
			28:COM15	20:COM7	16:COM3	24:COM11	16:COM3	28:COM15
			-26.190	-1.603	-0.492	-3.001	-0.426	-1.520
			22:COM9	30:COM17	26:COM13	18:COM5	26:COM13	22:COM9

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
15257	6065	+ve	29.055	11.694	5.907	12.576	1.954	6.065
			28:COM15	20:COM7	16:COM3	16:COM3	24:COM11	20:COM7
			-48.921	-7.283	-1.798	-5.244	-5.504	-3.618
			22:COM9	30:COM17	26:COM13	26:COM13	18:COM5	30:COM17
	113	-ve	29.055	10.564	5.907	12.576	4.145	8.966
			28:COM15	20:COM7	16:COM3	16:COM3	16:COM3	28:COM15
			-48.921	-8.130	-1.798	-5.244	-0.986	-12.107
			22:COM9	30:COM17	26:COM13	26:COM13	26:COM13	22:COM9
15258	6066	+ve	25.035	15.549	4.434	4.949	1.899	0.956
			20:COM7	20:COM7	20:COM7	20:COM7	28:COM15	28:COM15
			-11.229	-4.318	-2.335	-1.678	-3.153	-10.254
			30:COM17	30:COM17	30:COM17	30:COM17	22:COM9	22:COM9
	6067	-ve	25.035	13.854	4.434	4.949	4.094	0.041
			20:COM7	20:COM7	20:COM7	20:COM7	20:COM7	28:COM15
			-11.229	-5.589	-2.335	-1.678	-1.921	-25.257
			30:COM17	30:COM17	30:COM17	30:COM17	30:COM17	22:COM9
15259	6067	+ve	37.934	7.026	8.128	8.543	2.962	0.000
			20:COM7	28:COM15	16:COM3	20:COM7	24:COM11	-
			-25.490	-13.728	-5.416	-7.506	-5.477	-25.065
			30:COM17	22:COM9	26:COM13	30:COM17	18:COM5	22:COM9
	121	-ve	37.934	5.755	8.128	8.543	7.797	22.503
			20:COM7	28:COM15	16:COM3	20:COM7	16:COM3	28:COM15
			-25.490	-15.423	-5.416	-7.506	-5.883	-34.456
			30:COM17	22:COM9	26:COM13	30:COM17	26:COM13	22:COM9
15260	6064	+ve	2.800	9.286	0.021	0.000	0.066	11.073
			24:COM17	34:CVOL3	16:COM3	-	24:COM11	16:COM3
			-5.406	0.000	-0.020	-0.172	-0.072	0.000
			18:COM5	-	26:COM13	22:COM9	18:COM5	-
	6066	-ve	2.800	0.000	0.021	0.000	0.055	6.936
			24:COM17	-	16:COM3	-	24:COM11	35:CVOL4
			-5.406	-8.092	-0.020	-0.172	-0.056	0.000
			18:COM5	35:CVOL4	26:COM13	22:COM9	18:COM5	-
15261	6065	+ve	4.537	6.952	0.024	0.024	0.062	12.745
			24:COM17	16:COM3	16:COM3	28:COM15	24:COM11	16:COM3
			-9.417	0.000	-0.018	-0.085	-0.085	0.000
			18:COM5	-	26:COM13	22:COM9	18:COM5	-
	6067	-ve	4.537	0.000	0.024	0.024	0.063	5.495
			24:COM17	-	16:COM3	28:COM15	16:COM3	16:COM3
			-9.417	-5.107	-0.018	-0.085	-0.048	-0.985
			18:COM5	18:COM5	26:COM13	22:COM9	26:COM13	26:COM13
15262	6066	+ve	4.501	4.780	0.028	0.187	0.071	5.250
			28:COM15	20:COM7	28:COM15	20:COM7	28:COM15	20:COM7
			-5.174	0.000	-0.028	-0.054	-0.070	0.000
			22:COM9	-	22:COM9	30:COM17	22:COM9	-
	613	-ve	4.501	0.000	0.028	0.187	0.075	5.932
			28:COM15	-	28:COM15	20:COM7	28:COM15	20:COM7
			-5.174	-4.836	-0.028	-0.054	-0.076	0.000
			22:COM9	22:COM9	22:COM9	30:COM17	22:COM9	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
15263	6067	+ve	6.357	5.793	0.016	0.131	0.042	7.435
			20:COM7	20:COM7	20:COM7	20:COM7	28:COM15	20:COM7
			-5.456	0.000	-0.014	-0.063	-0.048	-0.688
			30:COM17	-	30:COM17	30:COM17	22:COM9	30:COM17
	612	-ve	6.357	0.000	0.016	0.131	0.050	9.075
			20:COM7	-	20:COM7	20:COM7	20:COM7	20:COM7
			-5.456	-6.288	-0.014	-0.063	-0.048	0.000
			30:COM17	22:COM9	30:COM17	30:COM17	30:COM17	-
15264	138	+ve	31.328	19.491	1.068	1.172	1.265	18.086
			28:COM15	16:COM3	20:COM7	20:COM7	28:COM15	16:COM3
			-36.073	-5.920	-0.633	-1.149	-1.864	-4.486
			22:COM9	26:COM13	30:COM17	30:COM17	22:COM9	26:COM13
	80	-ve	31.328	14.877	1.068	1.172	0.644	13.459
			28:COM15	16:COM3	20:COM7	20:COM7	20:COM7	24:COM11
			-36.073	-9.380	-0.633	-1.149	-0.229	-22.120
			22:COM9	26:COM13	30:COM17	30:COM17	30:COM17	18:COM5
15294	6083	+ve	80.854	0.000	2.220	7.758	0.836	10.226
			28:COM15	-	20:COM7	20:COM7	28:COM15	24:COM11
			-91.904	-13.502	-1.996	-4.168	-0.852	-14.984
			22:COM9	18:COM5	30:COM17	30:COM17	22:COM9	18:COM5
	5989	-ve	80.854	0.000	2.220	7.758	3.776	37.589
			28:COM15	-	20:COM7	20:COM7	20:COM7	16:COM3
			-91.904	-15.245	-1.996	-4.168	-3.339	-10.790
			22:COM9	18:COM5	30:COM17	30:COM17	30:COM17	26:COM13
15295	6084	+ve	57.080	2.243	1.029	2.931	1.476	0.000
			28:COM15	24:COM11	16:COM3	20:COM7	24:COM11	-
			-63.341	-7.634	-1.000	-1.407	-1.454	-16.048
			22:COM9	18:COM5	26:COM13	30:COM17	18:COM5	18:COM5
	6083	-ve	57.080	0.936	1.029	2.931	0.620	10.175
			28:COM15	24:COM11	16:COM3	20:COM7	16:COM3	24:COM11
			-63.341	-9.377	-1.000	-1.407	-0.540	-15.085
			22:COM9	18:COM5	26:COM13	30:COM17	26:COM13	18:COM5
15296	6085	+ve	33.620	6.449	1.160	0.719	1.524	0.000
			28:COM15	16:COM3	24:COM11	28:COM15	16:COM3	-
			-35.735	-2.479	-1.280	-2.258	-1.404	-13.298
			22:COM9	26:COM13	18:COM5	22:COM9	26:COM13	18:COM5
	6084	-ve	33.620	4.707	1.160	0.719	1.035	0.000
			28:COM15	16:COM3	24:COM11	28:COM15	28:COM15	-
			-35.735	-3.786	-1.280	-2.258	-1.156	-16.046
			22:COM9	26:COM13	18:COM5	22:COM9	22:COM9	18:COM5
15297	6086	+ve	122.614	17.682	6.672	0.053	4.405	14.707
			24:COM17	16:COM3	24:COM11	28:COM15	16:COM3	16:COM3
			-128.969	-13.338	-8.935	-2.130	-3.527	-10.986
			18:COM5	26:COM13	18:COM5	22:COM9	26:COM13	26:COM13
	6122	-ve	122.614	17.098	6.672	0.053	2.176	2.689
			24:COM17	16:COM3	24:COM11	28:COM15	28:COM15	20:COM7
			-128.969	-13.776	-8.935	-2.130	-3.208	-2.204
			18:COM5	26:COM13	18:COM5	22:COM9	22:COM9	30:COM17

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
15299	6088	+ve	52.645	14.396	11.416	28.084	6.176	0.966
			20:COM7	16:COM3	24:COM11	16:COM3	16:COM3	20:COM7
			-31.766	-7.091	-13.686	-16.460	-5.008	-0.298
			30:COM17	26:COM13	18:COM5	26:COM13	26:COM13	30:COM17
	197	-ve	52.645	13.738	11.416	28.084	5.874	7.406
			20:COM7	16:COM3	24:COM11	16:COM3	24:COM11	28:COM15
			-31.766	-7.585	-13.686	-16.460	-6.865	-13.139
			30:COM17	26:COM13	18:COM5	26:COM13	18:COM5	22:COM9
15300	6086	+ve	37.404	14.501	0.386	0.019	0.397	18.518
			16:COM3	16:COM3	24:COM11	24:COM17	16:COM3	16:COM3
			-36.572	0.000	-0.394	-0.683	-0.392	-0.931
			26:COM13	-	18:COM5	18:COM5	26:COM13	26:COM13
	6053	-ve	37.404	9.599	0.386	0.019	0.404	0.000
			16:COM3	16:COM3	24:COM11	24:COM17	24:COM11	-
			-36.572	-0.372	-0.394	-0.683	-0.417	-6.530
			26:COM13	26:COM13	18:COM5	18:COM5	18:COM5	34:CVOL3
15301	6123	+ve	30.533	11.823	0.115	0.125	0.190	18.847
			24:COM17	16:COM3	16:COM3	24:COM17	24:COM11	16:COM3
			-31.639	0.000	-0.115	-0.367	-0.188	0.000
			18:COM5	-	26:COM13	18:COM5	18:COM5	-
	6054	-ve	30.533	3.736	0.115	0.125	0.204	0.000
			24:COM17	16:COM3	16:COM3	24:COM17	16:COM3	-
			-31.639	-1.448	-0.115	-0.367	-0.203	-7.690
			18:COM5	26:COM13	26:COM13	18:COM5	26:COM13	18:COM5
15302	6088	+ve	26.454	8.447	0.041	0.254	0.088	9.756
			24:COM17	34:CVOL3	16:COM3	20:COM7	24:COM11	20:COM7
			-30.696	0.000	-0.039	-0.019	-0.093	-0.253
			18:COM5	-	26:COM13	30:COM17	18:COM5	30:COM17
	6055	-ve	26.454	0.000	0.041	0.254	0.098	2.668
			24:COM17	-	16:COM3	20:COM7	16:COM3	20:COM7
			-30.696	-5.425	-0.039	-0.019	-0.095	-2.309
			18:COM5	35:CVOL4	26:COM13	30:COM17	26:COM13	30:COM17
15303	692	+ve	49.549	16.409	0.186	4.895	0.663	23.831
			24:COM17	16:COM3	28:COM15	16:COM3	16:COM3	16:COM3
			-65.204	-2.932	-0.300	-1.444	-0.545	-8.152
			18:COM5	26:COM13	22:COM9	26:COM13	26:COM13	26:COM13
	6056	-ve	49.549	6.840	0.186	4.895	0.179	12.858
			24:COM17	24:COM11	28:COM15	16:COM3	28:COM15	28:COM15
			-65.204	-7.898	-0.300	-1.444	-0.460	-18.852
			18:COM5	18:COM5	22:COM9	26:COM13	22:COM9	22:COM9
15304	1110	+ve	24.342	87.828	27.228	0.872	20.000	68.563
			16:COM3	28:COM15	28:COM15	24:COM17	20:COM7	28:COM15
			-14.948	-96.261	-31.956	-7.570	-16.076	-79.068
			26:COM13	22:COM9	22:COM9	18:COM5	30:COM17	22:COM9
	6121	-ve	24.342	87.131	27.228	0.872	13.309	25.424
			16:COM3	28:COM15	28:COM15	24:COM17	28:COM15	28:COM15
			-14.948	-97.190	-31.956	-7.570	-14.468	-25.990
			26:COM13	22:COM9	22:COM9	18:COM5	22:COM9	22:COM9

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
15305	6090	+ve	1.39E+3	23.253	32.816	5.905	88.901	34.501
			20:COM7	24:COM11	28:COM15	20:COM7	20:COM7	24:COM11
			-867.745	-26.995	-36.033	-4.571	-77.209	-70.480
			30:COM17	18:COM5	22:COM9	30:COM17	30:COM17	18:COM5
	271	-ve	1.38E+3	23.253	32.816	5.905	113.227	87.497
			20:COM7	24:COM11	28:COM15	20:COM7	28:COM15	24:COM11
			-879.663	-26.995	-36.033	-4.571	-120.192	-101.775
			30:COM17	18:COM5	22:COM9	30:COM17	22:COM9	18:COM5
15306	6090	+ve	2.859	11.568	1.696	0.000	1.519	18.825
			16:COM3	35:CVOL4	20:COM7	-	28:COM15	20:COM7
			-1.859	0.000	-1.202	-13.221	-2.052	0.000
			26:COM13	-	30:COM17	18:COM5	22:COM9	-
	6370	-ve	2.859	7.361	1.696	0.000	1.343	0.415
			16:COM3	20:COM7	20:COM7	-	20:COM7	20:COM7
			-1.859	0.000	-1.202	-13.221	-0.885	-0.082
			26:COM13	-	30:COM17	18:COM5	30:COM17	30:COM17
15309	6102	+ve	1.576	11.201	1.249	0.512	1.178	18.950
			20:COM7	20:COM7	28:COM15	24:COM17	20:COM7	28:COM15
			-0.532	-9.396	-1.380	-2.444	-0.947	-37.717
			30:COM17	30:COM17	22:COM9	18:COM5	30:COM17	22:COM9
	6342	-ve	1.576	9.472	1.249	0.512	1.240	2.883
			20:COM7	20:COM7	28:COM15	24:COM17	20:COM7	28:COM15
			-0.532	-10.692	-1.380	-2.444	-1.228	-22.137
			30:COM17	30:COM17	22:COM9	18:COM5	30:COM17	22:COM9
15314	6116	+ve	28.743	9.427	1.015	2.642	1.607	4.845
			16:COM3	16:COM3	24:COM11	28:COM15	16:COM3	24:COM11
			-19.238	0.000	-1.383	-3.433	-1.106	-9.418
			26:COM13	-	18:COM5	22:COM9	26:COM13	18:COM5
	6024	-ve	28.743	8.073	1.015	2.642	0.881	0.000
			16:COM3	16:COM3	24:COM11	28:COM15	24:COM11	-
			-19.238	0.000	-1.383	-3.433	-1.101	-18.502
			26:COM13	-	18:COM5	22:COM9	18:COM5	34:CVOL3
15315	6117	+ve	24.633	25.839	2.417	5.851	2.246	12.352
			16:COM3	16:COM3	20:COM7	20:COM7	28:COM15	24:COM11
			-20.822	0.000	-1.839	-3.474	-2.973	-19.707
			26:COM13	-	30:COM17	30:COM17	22:COM9	18:COM5
	6030	-ve	24.633	23.575	2.417	5.851	1.895	0.000
			16:COM3	16:COM3	20:COM7	20:COM7	20:COM7	-
			-20.822	0.000	-1.839	-3.474	-1.458	-54.163
			26:COM13	-	30:COM17	30:COM17	30:COM17	35:CVOL4
15317	6116	+ve	3.217	7.472	0.006	0.010	0.023	6.656
			24:COM11	34:CVOL3	24:COM11	28:COM15	16:COM3	20:COM7
			-5.294	0.000	-0.008	-0.169	-0.014	-4.397
			18:COM5	-	18:COM5	22:COM9	26:COM13	30:COM17
	6117	-ve	3.217	0.000	0.006	0.010	0.026	12.692
			24:COM11	-	24:COM11	28:COM15	16:COM3	35:CVOL4
			-5.294	-10.748	-0.008	-0.169	-0.024	0.000
			18:COM5	35:CVOL4	18:COM5	22:COM9	26:COM13	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
15318	6117	+ve	0.412	12.068	0.003	0.041	0.004	16.946
			24:COM1	35:CVOL4	20:COM7	16:COM3	28:COM15	35:CVOL4
			-1.992	0.000	-0.001	-0.051	-0.006	0.000
			18:COM5	-	30:COM1	26:COM1	22:COM9	-
	6384	-ve	0.412	0.000	0.003	0.041	0.012	3.686
			24:COM1	-	20:COM7	16:COM3	20:COM7	20:COM7
			-1.992	-7.743	-0.001	-0.051	-0.007	-1.388
			18:COM5	34:CVOL3	30:COM1	26:COM1	30:COM1	30:COM1
15323	6121	+ve	3.402	82.415	6.969	2.209	1.598	22.830
			16:COM3	28:COM15	24:COM11	28:COM15	24:COM11	20:COM7
			0.000	-99.249	-7.404	-6.977	-2.074	-19.570
			-	22:COM9	18:COM5	22:COM9	18:COM5	30:COM1
	6090	-ve	3.402	81.944	6.969	2.209	3.747	95.267
			16:COM3	28:COM15	24:COM11	28:COM15	24:COM11	20:COM7
			0.000	-100.601	-7.404	-6.977	-4.538	-79.141
			-	22:COM9	18:COM5	22:COM9	18:COM5	30:COM1
15324	6114	+ve	7.826	6.644	0.016	0.514	0.031	6.138
			28:COM15	20:COM7	20:COM7	20:COM7	16:COM3	20:COM7
			-10.473	-1.020	-0.014	-0.379	-0.030	-3.949
			22:COM9	30:COM1	30:COM1	30:COM1	26:COM1	30:COM1
	6121	-ve	7.826	0.698	0.016	0.514	0.045	8.521
			28:COM15	28:COM15	20:COM7	20:COM7	20:COM7	20:COM7
			-10.473	-7.473	-0.014	-0.379	-0.034	-4.238
			22:COM9	22:COM9	30:COM1	30:COM1	30:COM1	30:COM1
15351	6122	+ve	50.623	6.087	0.894	2.787	1.176	4.426
			20:COM7	16:COM3	20:COM7	16:COM3	16:COM3	16:COM3
			-42.886	-2.880	-1.044	-0.555	-1.076	-2.634
			30:COM1	26:COM1	30:COM1	26:COM1	26:COM1	26:COM1
	6123	-ve	50.623	4.957	0.894	2.787	1.013	2.855
			20:COM7	16:COM3	20:COM7	16:COM3	20:COM7	24:COM1
			-42.886	-3.728	-1.044	-0.555	-1.157	-4.685
			30:COM1	26:COM1	30:COM1	26:COM1	30:COM1	18:COM5
15352	6123	+ve	54.303	2.600	5.942	2.609	2.512	5.142
			28:COM15	16:COM3	20:COM7	24:COM1	28:COM15	16:COM3
			-54.246	-0.983	-3.747	-2.523	-3.346	-2.255
			22:COM9	26:COM1	30:COM1	18:COM5	22:COM9	26:COM1
	6124	-ve	54.303	1.470	5.942	2.609	6.944	1.886
			28:COM15	16:COM3	20:COM7	24:COM1	16:COM3	20:COM7
			-54.246	-1.830	-3.747	-2.523	-4.193	-0.025
			22:COM9	26:COM1	30:COM1	18:COM5	26:COM1	30:COM1
15353	6124	+ve	115.464	21.206	5.394	31.550	5.639	12.146
			16:COM3	16:COM3	28:COM15	16:COM3	24:COM11	16:COM3
			-75.484	-3.181	-6.168	-12.061	-7.276	-4.809
			26:COM1	26:COM1	22:COM9	26:COM1	18:COM5	26:COM1
	6088	-ve	115.464	20.735	5.394	31.550	3.105	0.000
			16:COM3	16:COM3	28:COM15	16:COM3	24:COM11	-
			-75.484	-3.534	-6.168	-12.061	-5.270	-4.403
			26:COM1	26:COM1	22:COM9	26:COM1	18:COM5	22:COM9

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
15390	6129	+ve	12.814	17.572	2.310	3.843	1.338	4.130
			16:COM3	16:COM3	24:COM11	24:COM11	28:COM15	28:COM15
			-10.794	0.000	-3.164	-12.473	-1.882	-20.434
			26:COM13	-	18:COM5	18:COM5	22:COM9	22:COM9
	6112	-ve	12.814	16.562	2.310	3.843	2.422	0.000
			16:COM3	16:COM3	24:COM11	24:COM11	24:COM11	-
			-10.794	0.000	-3.164	-12.473	-3.733	-32.709
			26:COM13	-	18:COM5	18:COM5	18:COM5	22:COM9
15391	161	+ve	7.214	19.816	0.152	2.092	0.395	50.725
			20:COM7	20:COM7	24:COM11	24:COM11	16:COM3	20:COM7
			-5.928	-5.654	-0.168	-5.667	-0.375	-21.984
			30:COM17	30:COM17	18:COM5	18:COM5	26:COM13	30:COM17
	6129	-ve	7.214	16.706	0.152	2.092	0.308	8.681
			20:COM7	20:COM7	24:COM11	24:COM11	24:COM11	28:COM15
			-5.928	-7.987	-0.168	-5.667	-0.359	-31.371
			30:COM17	30:COM17	18:COM5	18:COM5	18:COM5	22:COM9
15397	6130	+ve	15.378	23.069	0.758	14.602	0.947	21.346
			16:COM3	20:COM7	16:COM3	16:COM3	24:COM11	28:COM15
			-7.918	-4.856	-0.256	0.000	-2.020	-32.199
			26:COM13	30:COM17	26:COM13	-	18:COM5	22:COM9
	6019	-ve	15.378	14.586	0.758	14.602	0.509	0.000
			16:COM3	20:COM7	16:COM3	16:COM3	20:COM7	-
			-7.918	-9.272	-0.256	0.000	-0.280	-32.102
			26:COM13	30:COM17	26:COM13	-	30:COM17	35:CVOL4
15398	6130	+ve	12.608	11.546	0.277	0.000	0.187	17.174
			16:COM3	20:COM7	16:COM3	-	24:COM11	16:COM3
			-12.561	-0.864	-0.275	-0.961	-0.200	-2.302
			26:COM13	30:COM17	26:COM13	22:COM9	18:COM5	26:COM13
	6135	-ve	12.608	11.166	0.277	0.000	0.208	4.620
			16:COM3	20:COM7	16:COM3	-	24:COM11	24:COM11
			-12.561	-1.149	-0.275	-0.961	-0.217	-4.908
			26:COM13	30:COM17	26:COM13	22:COM9	18:COM5	18:COM5
15399	6131	+ve	19.297	2.301	0.039	0.162	0.028	3.803
			16:COM3	16:COM3	16:COM3	16:COM3	24:COM11	24:COM11
			-18.720	-0.453	-0.028	-0.116	-0.042	-3.916
			26:COM13	26:COM13	26:COM13	26:COM13	18:COM5	18:COM5
	6132	-ve	19.297	1.741	0.039	0.162	0.041	0.545
			16:COM3	16:COM3	16:COM3	16:COM3	16:COM3	24:COM11
			-18.720	-0.873	-0.028	-0.116	-0.031	-3.591
			26:COM13	26:COM13	26:COM13	26:COM13	26:COM13	18:COM5
15400	6132	+ve	16.308	1.106	0.029	0.482	0.028	0.580
			16:COM3	24:COM11	16:COM3	34:CVOL3	24:COM11	24:COM11
			-14.799	-0.679	-0.027	0.000	-0.031	-3.670
			26:COM13	18:COM5	26:COM13	-	18:COM5	18:COM5
	6133	-ve	16.308	0.685	0.029	0.482	0.032	0.186
			16:COM3	24:COM11	16:COM3	34:CVOL3	16:COM3	28:COM15
			-14.799	-1.239	-0.027	0.000	-0.030	-3.139
			26:COM13	18:COM5	26:COM13	-	26:COM13	22:COM9

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
15401	6133	+ve	14.227	0.885	0.016	0.478	0.016	0.000
			16:COM3	16:COM3	16:COM3	34:CVOL3	24:COM11	-
			-12.052	-0.392	-0.014	0.000	-0.017	-3.346
			26:COM13	26:COM13	26:COM13	-	18:COM5	22:COM9
	6134	-ve	14.227	0.405	0.016	0.478	0.018	0.833
			16:COM3	24:COM11	16:COM3	34:CVOL3	16:COM3	24:COM11
			-12.052	-0.892	-0.014	0.000	-0.016	-4.242
			26:COM13	18:COM5	26:COM13	-	26:COM13	18:COM5
15402	6134	+ve	11.106	0.637	0.012	0.195	0.012	0.571
			16:COM3	16:COM3	20:COM7	16:COM3	24:COM11	24:COM11
			-8.128	-0.389	-0.008	-0.115	-0.017	-4.482
			26:COM13	26:COM13	30:COM17	26:COM13	18:COM5	18:COM5
	6004	-ve	11.106	0.032	0.012	0.195	0.024	2.547
			16:COM3	24:COM11	20:COM7	16:COM3	20:COM7	24:COM11
			-8.128	-1.120	-0.008	-0.115	-0.016	-5.223
			26:COM13	18:COM5	30:COM17	26:COM13	30:COM17	18:COM5
15403	6131	+ve	3.484	2.842	0.028	0.127	0.050	0.175
			24:COM11	20:COM7	16:COM3	20:COM7	24:COM11	28:COM15
			-4.554	0.000	-0.025	0.000	-0.055	-1.510
			18:COM5	-	26:COM13	-	18:COM5	22:COM9
	6014	-ve	3.484	0.000	0.028	0.127	0.054	13.830
			24:COM11	-	16:COM3	20:COM7	16:COM3	34:CVOL3
			-4.554	-10.193	-0.025	0.000	-0.050	0.000
			18:COM5	34:CVOL3	26:COM13	-	26:COM13	-
15404	6132	+ve	2.589	0.671	0.039	0.000	0.059	0.000
			24:COM11	16:COM3	16:COM3	-	24:COM11	-
			-2.898	-0.230	-0.038	-0.254	-0.061	-0.391
			18:COM5	26:COM13	26:COM13	22:COM9	18:COM5	18:COM5
	6009	-ve	2.589	0.000	0.039	0.000	0.060	13.054
			24:COM11	-	16:COM3	-	16:COM3	34:CVOL3
			-2.898	-9.378	-0.038	-0.254	-0.058	0.000
			18:COM5	34:CVOL3	26:COM13	22:COM9	26:COM13	-
15405	6133	+ve	1.840	0.000	0.063	0.000	0.065	0.241
			24:COM11	-	16:COM3	-	24:COM11	16:COM3
			-2.155	-0.911	-0.060	-0.357	-0.068	-0.052
			18:COM5	18:COM5	26:COM13	22:COM9	18:COM5	26:COM13
	6010	-ve	1.840	0.000	0.063	0.000	0.068	9.084
			24:COM11	-	16:COM3	-	16:COM3	34:CVOL3
			-2.155	-7.660	-0.060	-0.357	-0.063	0.000
			18:COM5	34:CVOL3	26:COM13	22:COM9	26:COM13	-
15406	6134	+ve	1.445	0.000	0.115	0.029	0.055	0.606
			24:COM11	-	16:COM3	28:COM15	24:COM11	16:COM3
			-1.628	-0.579	-0.095	-0.258	-0.068	0.000
			18:COM5	22:COM9	26:COM13	22:COM9	18:COM5	-
	6011	-ve	1.445	0.000	0.115	0.029	0.075	3.590
			24:COM11	-	16:COM3	28:COM15	16:COM3	35:CVOL4
			-1.628	-4.463	-0.095	-0.258	-0.062	0.000
			18:COM5	35:CVOL4	26:COM13	22:COM9	26:COM13	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
15407	6135	+ve	27.153	4.837	1.555	0.208	0.433	5.863
			24:COM1	16:COM3	16:COM3	28:COM1	24:COM1	16:COM3
			-29.700	0.000	-0.971	-1.311	-0.635	-3.573
			18:COM5	-	26:COM1	22:COM9	18:COM5	26:COM1
	6131	-ve	27.153	4.676	1.555	0.208	0.337	3.477
			24:COM1	16:COM3	16:COM3	28:COM1	20:COM7	24:COM1
			-29.700	0.000	-0.971	-1.311	-0.176	-4.286
			18:COM5	-	26:COM1	22:COM9	30:COM1	18:COM5
15408	835	+ve	8.879	10.137	2.270	1.439	1.470	1.556
			24:COM1	20:COM7	16:COM3	20:COM7	24:COM1	28:COM1
			-18.765	0.000	-1.834	-1.092	-1.649	-4.706
			18:COM5	-	26:COM1	30:COM1	18:COM5	22:COM9
	6137	-ve	8.879	6.629	2.270	1.439	1.079	0.790
			24:COM1	20:COM7	16:COM3	20:COM7	16:COM3	28:COM1
			-18.765	-0.263	-1.834	-1.092	-0.735	-14.722
			18:COM5	30:COM1	26:COM1	30:COM1	26:COM1	22:COM9
15409	6135	+ve	1.450	0.000	0.585	8.516	0.795	6.899
			28:COM1	-	16:COM3	34:CVOL	24:COM1	28:COM1
			-7.825	-9.574	-0.517	0.000	-0.919	-8.766
			22:COM9	22:COM9	26:COM1	-	18:COM5	22:COM9
	6019	-ve	1.450	0.000	0.585	8.516	0.334	21.079
			28:COM1	-	16:COM3	34:CVOL	16:COM3	20:COM7
			-7.825	-10.679	-0.517	0.000	-0.313	0.000
			22:COM9	22:COM9	26:COM1	-	26:COM1	-
15418	6136	+ve	8.842	0.000	1.546	0.000	1.097	3.570
			24:COM1	-	24:COM1	-	16:COM3	20:COM7
			-12.997	-10.283	-1.643	-1.180	-1.020	-1.729
			18:COM5	18:COM5	18:COM5	22:COM9	26:COM1	30:COM1
	6004	-ve	8.842	0.000	1.546	0.000	1.173	20.530
			24:COM1	-	24:COM1	-	24:COM1	16:COM3
			-12.997	-14.061	-1.643	-1.180	-1.234	0.000
			18:COM5	18:COM5	18:COM5	22:COM9	18:COM5	-
15419	6137	+ve	4.945	0.000	3.120	7.181	2.640	0.700
			24:COM1	-	24:COM1	20:COM7	16:COM3	28:COM1
			-15.622	-5.761	-3.588	0.000	-2.289	-14.868
			18:COM5	22:COM9	18:COM5	-	26:COM1	22:COM9
	6135	-ve	4.945	0.000	3.120	7.181	1.917	7.364
			24:COM1	-	24:COM1	20:COM7	24:COM1	28:COM1
			-15.622	-9.699	-3.588	0.000	-2.197	-9.100
			18:COM5	22:COM9	18:COM5	-	18:COM5	22:COM9
15420	6137	+ve	14.851	6.013	0.131	0.163	0.158	6.890
			16:COM3	34:CVOL	16:COM3	16:COM3	24:COM1	16:COM3
			-12.640	0.000	-0.134	0.000	-0.166	0.000
			26:COM1	-	26:COM1	-	18:COM5	-
	6138	-ve	14.851	5.501	0.131	0.163	0.093	0.000
			16:COM3	34:CVOL	16:COM3	16:COM3	16:COM3	-
			-12.640	0.000	-0.134	0.000	-0.107	-6.469
			26:COM1	-	26:COM1	-	26:COM1	18:COM5

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
15421	6138	+ve	5.521	3.101	0.007	0.098	0.009	0.000
			20:COM7	16:COM3	24:COM11	16:COM3	16:COM3	-
			-4.262	0.000	-0.015	0.000	0.000	-6.379
			30:COM17	-	18:COM5	-	-	18:COM5
	6139	-ve	5.521	2.589	0.007	0.098	0.019	0.000
			20:COM7	16:COM3	24:COM11	16:COM3	16:COM3	-
			-4.262	0.000	-0.015	0.000	-0.025	-10.399
			30:COM17	-	18:COM5	-	26:COM13	34:CVOL3
15422	6139	+ve	9.123	0.973	0.039	0.044	0.047	0.000
			24:COM11	16:COM3	24:COM11	20:COM7	16:COM3	-
			-8.667	-0.641	-0.041	-0.006	-0.042	-10.355
			18:COM5	26:COM13	18:COM5	30:COM17	26:COM13	34:CVOL3
	6140	-ve	9.123	0.562	0.039	0.044	0.036	0.000
			24:COM11	24:COM11	24:COM11	20:COM7	16:COM3	-
			-8.667	-1.126	-0.041	-0.006	-0.034	-10.181
			18:COM5	18:COM5	18:COM5	30:COM17	26:COM13	35:CVOL4
15423	6140	+ve	12.033	0.000	0.019	0.079	0.008	0.000
			16:COM3	-	24:COM11	20:COM7	20:COM7	-
			-11.317	-2.303	-0.019	-0.085	-0.007	-10.172
			26:COM13	18:COM5	18:COM5	30:COM17	30:COM17	35:CVOL4
	6141	-ve	12.033	0.000	0.019	0.079	0.035	0.000
			16:COM3	-	24:COM11	20:COM7	16:COM3	-
			-11.317	-2.814	-0.019	-0.085	-0.034	-6.340
			26:COM13	18:COM5	18:COM5	30:COM17	26:COM13	18:COM5
15424	6141	+ve	6.502	0.000	0.150	0.019	0.128	0.000
			16:COM3	-	24:COM11	24:COM11	16:COM3	-
			-5.898	-3.119	-0.152	-0.171	-0.131	-6.364
			26:COM13	18:COM5	18:COM5	18:COM5	26:COM13	18:COM5
	6136	-ve	6.502	0.000	0.150	0.019	0.178	1.693
			16:COM3	-	24:COM11	24:COM11	24:COM11	16:COM3
			-5.898	-3.652	-0.152	-0.171	-0.185	0.000
			26:COM13	18:COM5	18:COM5	18:COM5	18:COM5	-
15425	836	+ve	1.198	1.707	0.259	0.000	0.196	0.596
			28:COM15	20:COM7	24:COM11	-	16:COM3	28:COM15
			-1.495	-0.897	-0.302	-0.105	-0.174	-2.182
			22:COM9	30:COM17	18:COM5	22:COM9	26:COM13	22:COM9
	6138	-ve	1.198	0.000	0.259	0.000	0.136	0.020
			28:COM15	-	24:COM11	-	24:COM11	24:COM11
			-1.495	-3.191	-0.302	-0.105	-0.166	-0.126
			22:COM9	22:COM9	18:COM5	22:COM9	18:COM5	18:COM5
15426	837	+ve	1.127	1.342	0.273	0.000	0.176	0.000
			16:COM3	35:CVOL4	24:COM11	-	16:COM3	-
			-0.910	0.000	-0.297	-0.061	-0.163	-0.682
			26:COM13	-	18:COM5	18:COM5	26:COM13	18:COM5
	6139	-ve	1.127	0.000	0.273	0.000	0.164	0.002
			16:COM3	-	24:COM11	-	24:COM11	28:COM15
			-0.910	-2.225	-0.297	-0.061	-0.180	-0.081
			26:COM13	34:CVOL3	18:COM5	18:COM5	18:COM5	22:COM9

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
15427	838	+ve	3.002	1.724	0.201	0.051	0.120	0.348
			16:COM3	34:CVOL3	16:COM3	28:COM15	24:COM11	24:COM11
			-2.863	0.000	-0.192	-0.053	-0.125	-0.403
			26:COM13	-	26:COM13	22:COM9	18:COM5	18:COM5
	6140	-ve	3.002	0.000	0.201	0.051	0.116	0.036
			16:COM3	-	16:COM3	28:COM15	16:COM3	20:COM7
			-2.863	-1.847	-0.192	-0.053	-0.110	-0.081
			26:COM13	35:CVOL4	26:COM13	22:COM9	26:COM13	30:COM17
15428	839	+ve	4.426	3.801	0.103	0.114	0.026	2.662
			24:COM11	16:COM3	16:COM3	28:COM15	24:COM11	16:COM3
			-4.862	0.000	-0.087	-0.077	-0.035	-0.635
			18:COM5	-	26:COM13	22:COM9	18:COM5	26:COM13
	6141	-ve	4.426	1.113	0.103	0.114	0.090	0.041
			24:COM11	24:COM11	16:COM3	28:COM15	16:COM3	24:COM11
			-4.862	-1.339	-0.087	-0.077	-0.080	-0.187
			18:COM5	18:COM5	26:COM13	22:COM9	26:COM13	18:COM5
15440	6149	+ve	18.866	41.589	7.210	11.879	5.294	98.627
			20:COM7	20:COM7	16:COM3	28:COM15	24:COM11	20:COM7
			-7.110	-14.923	-3.572	-18.274	-8.371	-56.155
			30:COM17	30:COM17	26:COM13	22:COM9	18:COM5	30:COM17
	6148	-ve	18.866	35.552	7.210	11.879	5.375	25.479
			20:COM7	20:COM7	16:COM3	28:COM15	16:COM3	20:COM7
			-7.110	-19.450	-3.572	-18.274	-1.528	-23.710
			30:COM17	30:COM17	26:COM13	22:COM9	26:COM13	30:COM17
15441	6148	+ve	13.473	30.294	12.789	8.496	3.058	19.428
			16:COM3	20:COM7	16:COM3	28:COM15	16:COM3	20:COM7
			-0.858	-18.993	-5.398	-10.112	-2.380	-18.817
			26:COM13	30:COM17	26:COM13	22:COM9	26:COM13	30:COM17
	6146	-ve	13.473	28.965	12.789	8.496	8.297	7.748
			16:COM3	20:COM7	16:COM3	28:COM15	16:COM3	28:COM15
			-0.858	-19.990	-5.398	-10.112	-4.523	-11.385
			26:COM13	30:COM17	26:COM13	22:COM9	26:COM13	22:COM9
15451	6151	+ve	0.000	6.882	0.102	0.155	0.110	9.869
			-	34:CVOL3	20:COM7	28:COM15	28:COM15	20:COM7
			-7.024	0.000	-0.073	-0.188	-0.151	0.000
			22:COM9	-	30:COM17	22:COM9	22:COM9	-
	1150	-ve	0.000	1.080	0.102	0.155	0.108	0.365
			-	20:COM7	20:COM7	28:COM15	20:COM7	20:COM7
			-7.024	-0.976	-0.073	-0.188	-0.077	-0.252
			22:COM9	30:COM17	30:COM17	22:COM9	30:COM17	30:COM17
15452	6152	+ve	17.344	15.572	2.636	3.799	3.217	20.272
			20:COM7	32:CVOL1	20:COM7	28:COM15	28:COM15	16:COM3
			0.000	0.000	-2.207	-4.838	-3.537	0.000
			-	-	30:COM17	22:COM9	22:COM9	-
	1137	-ve	17.344	4.874	2.636	3.799	2.800	0.000
			20:COM7	32:CVOL1	20:COM7	28:COM15	20:COM7	-
			0.000	0.000	-2.207	-4.838	-2.089	-6.261
			-	-	30:COM17	22:COM9	30:COM17	22:COM9

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
15453	6153	+ve	0.454	4.750	0.032	0.134	0.034	4.115
			28:COM1	16:COM3	16:COM3	20:COM7	24:COM1	16:COM3
			-5.452	0.000	-0.027	-0.035	-0.043	0.000
			22:COM9	-	26:COM1	30:COM1	18:COM5	-
	1384	-ve	0.454	0.000	0.032	0.134	0.035	0.222
			28:COM1	-	16:COM3	20:COM7	16:COM3	28:COM1
			-5.452	-1.841	-0.027	-0.035	-0.031	-0.781
			22:COM9	18:COM5	26:COM1	30:COM1	26:COM1	22:COM9
15454	6154	+ve	0.000	4.931	0.093	0.108	0.038	3.944
			-	34:CVOL3	16:COM3	20:COM7	24:COM1	34:CVOL3
			-4.346	0.000	-0.032	-0.062	-0.116	0.000
			22:COM9	-	26:COM1	30:COM1	18:COM5	-
	1383	-ve	0.000	0.000	0.093	0.108	0.110	0.000
			-	-	16:COM3	20:COM7	16:COM3	-
			-4.346	-1.169	-0.032	-0.062	-0.039	-0.660
			22:COM9	35:CVOL4	26:COM1	30:COM1	26:COM1	22:COM9
15475	6165	+ve	2.713	62.874	24.649	17.447	13.737	16.977
			24:COM1	20:COM7	20:COM7	20:COM7	28:COM1	20:COM7
			-10.174	-50.485	-22.734	-9.812	-14.765	-4.629
			18:COM5	30:COM1	30:COM1	30:COM1	22:COM9	30:COM1
	6162	-ve	2.713	61.149	24.649	17.447	15.964	77.192
			24:COM1	20:COM7	20:COM7	20:COM7	20:COM7	28:COM1
			-10.174	-51.779	-22.734	-9.812	-14.605	-78.407
			18:COM5	30:COM1	30:COM1	30:COM1	30:COM1	22:COM9
15484	2414	+ve	36.397	34.220	6.363	6.576	8.118	94.430
			20:COM7	20:COM7	20:COM7	28:COM1	28:COM1	20:COM7
			-36.137	-8.170	-6.218	-10.354	-8.413	-31.569
			30:COM1	30:COM1	30:COM1	22:COM9	22:COM9	30:COM1
	6171	-ve	36.397	31.491	6.363	6.576	6.642	16.694
			20:COM7	20:COM7	20:COM7	28:COM1	20:COM7	20:COM7
			-36.137	-10.216	-6.218	-10.354	-6.595	-9.819
			30:COM1	30:COM1	30:COM1	22:COM9	30:COM1	30:COM1
15485	6171	+ve	9.631	23.494	17.119	3.851	0.691	15.892
			20:COM7	20:COM7	28:COM1	20:COM7	28:COM1	20:COM7
			-9.580	-9.463	-18.211	-3.570	-0.733	-9.298
			30:COM1	30:COM1	22:COM9	30:COM1	22:COM9	30:COM1
	6166	-ve	9.631	23.016	17.119	3.851	6.490	6.253
			20:COM7	20:COM7	28:COM1	20:COM7	28:COM1	20:COM7
			-9.580	-9.821	-18.211	-3.570	-6.985	-5.301
			30:COM1	30:COM1	22:COM9	30:COM1	22:COM9	30:COM1
15486	6162	+ve	22.482	31.729	2.183	12.436	5.409	71.202
			28:COM1	20:COM7	28:COM1	28:COM1	20:COM7	20:COM7
			-29.915	-22.045	-3.422	-14.475	-3.981	-48.865
			22:COM9	30:COM1	22:COM9	22:COM9	30:COM1	30:COM1
	6161	-ve	22.482	29.095	2.183	12.436	0.239	13.381
			28:COM1	20:COM7	28:COM1	28:COM1	28:COM1	20:COM7
			-29.915	-24.021	-3.422	-14.475	-1.168	-5.089
			22:COM9	30:COM1	22:COM9	22:COM9	22:COM9	30:COM1

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
15487	6161	+ve	13.884	23.787	27.819	1.944	1.150	10.786
			28:COM15	20:COM7	28:COM15	28:COM15	20:COM7	16:COM3
			-13.803	-17.891	-29.703	-10.724	-0.577	-1.598
			22:COM9	30:COM17	22:COM9	22:COM9	30:COM17	26:COM13
	6159	-ve	13.884	23.207	27.819	1.944	11.112	8.146
			28:COM15	20:COM7	28:COM15	28:COM15	28:COM15	20:COM7
			-13.803	-18.325	-29.703	-10.724	-11.328	-1.215
			22:COM9	30:COM17	22:COM9	22:COM9	22:COM9	30:COM17
15505	6147	+ve	45.288	172.181	10.174	13.787	11.104	163.320
			16:COM3	20:COM7	24:COM11	28:COM15	24:COM11	20:COM7
			-23.931	-120.192	-11.345	-13.912	-11.426	-73.995
			26:COM13	30:COM17	18:COM5	22:COM9	18:COM5	30:COM17
	6149	-ve	45.288	167.704	10.174	13.787	3.130	103.120
			16:COM3	20:COM7	24:COM11	28:COM15	24:COM11	20:COM7
			-23.931	-123.550	-11.345	-13.912	-5.104	-81.660
			26:COM13	30:COM17	18:COM5	22:COM9	18:COM5	30:COM17
15506	6183	+ve	14.870	25.061	21.963	6.123	4.034	23.784
			20:COM7	20:COM7	20:COM7	24:COM11	24:COM11	20:COM7
			-5.776	-6.014	-14.559	-7.180	-7.462	-14.269
			30:COM17	30:COM17	30:COM17	18:COM5	18:COM5	30:COM17
	6175	-ve	14.870	24.151	21.963	6.123	6.413	13.439
			20:COM7	20:COM7	20:COM7	24:COM11	28:COM15	20:COM7
			-5.776	-6.696	-14.559	-7.180	-6.728	-11.599
			30:COM17	30:COM17	30:COM17	18:COM5	22:COM9	30:COM17
15513	291	+ve	13.211	14.155	0.335	0.000	0.058	44.200
			20:COM7	20:COM7	16:COM3	-	24:COM11	34:CVOL3
			-17.490	-1.419	-0.001	-3.581	-0.743	0.000
			30:COM17	30:COM17	26:COM13	22:COM9	18:COM5	-
	1506	-ve	13.211	10.835	0.335	0.000	0.844	39.724
			20:COM7	20:COM7	16:COM3	-	20:COM7	20:COM7
			-17.490	-3.909	-0.001	-3.581	0.000	-25.764
			30:COM17	30:COM17	26:COM13	22:COM9	-	30:COM17
15515	6186	+ve	48.131	69.393	4.562	1.047	0.000	59.391
			28:COM15	16:COM3	16:COM3	28:COM15	-	28:COM15
			-142.290	-34.569	-0.665	-7.474	-1.549	-177.718
			22:COM9	26:COM13	26:COM13	22:COM9	22:COM9	22:COM9
	1183	-ve	48.131	65.279	4.562	1.047	4.474	0.000
			28:COM15	16:COM3	16:COM3	28:COM15	16:COM3	-
			-142.290	-37.655	-0.665	-7.474	-1.366	-154.113
			22:COM9	26:COM13	26:COM13	22:COM9	26:COM13	22:COM9
15517	1413	+ve	3.764	0.000	0.104	1.009	0.000	0.000
			24:COM11	-	16:COM3	20:COM7	-	-
			-6.984	-3.651	0.000	0.000	-0.158	-6.789
			18:COM5	34:CVOL3	-	-	18:COM5	18:COM5
	1412	-ve	3.764	0.000	0.104	1.009	0.054	3.840
			24:COM11	-	16:COM3	20:COM7	28:COM15	16:COM3
			-6.984	-6.080	0.000	0.000	-0.029	0.000
			18:COM5	34:CVOL3	-	-	22:COM9	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
15518	6189	+ve	2.400	9.716	0.000	4.566	0.236	3.201
			16:COM3	32:CVOL1	-	20:COM7	20:COM7	32:CVOL1
			-0.496	0.000	-0.215	0.000	0.000	-0.280
			26:COM1	-	22:COM9	-	-	35:CVOL4
	2788	-ve	2.400	6.731	0.000	4.566	0.000	0.000
			16:COM3	34:CVOL3	-	20:COM7	-	-
			-0.496	0.000	-0.215	0.000	-0.216	-14.939
			26:COM1	-	22:COM9	-	22:COM9	34:CVOL3
15519	2734	+ve	0.000	13.596	0.000	0.656	0.219	27.954
			-	20:COM7	-	34:CVOL3	34:CVOL3	20:COM7
			-7.767	0.000	-0.235	0.000	0.000	-8.849
			18:COM5	-	34:CVOL3	-	-	30:COM1
	6191	-ve	0.000	9.744	0.000	0.656	0.000	7.374
			-	20:COM7	-	34:CVOL3	-	28:COM1
			-7.767	0.000	-0.235	0.000	-0.228	-14.807
			18:COM5	-	34:CVOL3	-	34:CVOL3	22:COM9
15520	6190	+ve	0.000	0.000	0.000	0.540	2.688	1.909
			-	-	-	28:COM1	16:COM3	20:COM7
			-17.390	-12.884	-12.077	-1.993	0.000	-1.440
			22:COM9	34:CVOL3	34:CVOL3	22:COM9	-	30:COM1
	2800	-ve	0.000	0.000	0.000	0.540	0.000	6.936
			-	-	-	28:COM1	-	34:CVOL3
			-17.390	-13.578	-12.077	-1.993	-3.911	0.000
			22:COM9	34:CVOL3	34:CVOL3	22:COM9	18:COM5	-
15521	6190	+ve	0.000	6.255	0.000	0.092	0.088	4.787
			-	34:CVOL3	-	32:CVOL1	20:COM7	32:CVOL1
			-2.321	0.000	-0.077	-0.013	0.000	0.000
			18:COM5	-	22:COM9	30:COM1	-	-
	6189	-ve	0.000	2.020	0.000	0.092	0.000	0.000
			-	32:CVOL1	-	32:CVOL1	-	-
			-2.321	-0.401	-0.077	-0.013	-0.075	-4.405
			18:COM5	35:CVOL4	22:COM9	30:COM1	22:COM9	22:COM9
15522	6191	+ve	0.000	3.566	0.000	0.000	0.154	7.561
			-	20:COM7	-	-	20:COM7	28:COM1
			-7.154	-2.759	-0.100	-1.010	0.000	-15.473
			18:COM5	30:COM1	34:CVOL3	34:CVOL3	-	22:COM9
	6190	-ve	0.000	0.000	0.000	0.000	0.000	4.476
			-	-	-	-	-	32:CVOL1
			-7.154	-8.496	-0.100	-1.010	-0.155	0.000
			18:COM5	22:COM9	34:CVOL3	34:CVOL3	34:CVOL3	-
15523	2797	+ve	0.000	0.000	0.000	0.000	0.012	0.000
			-	-	-	-	24:COM1	-
			-9.878	-5.060	-0.037	-1.237	-0.015	-11.954
			34:CVOL3	34:CVOL3	18:COM5	34:CVOL3	18:COM5	34:CVOL3
	6191	-ve	0.000	0.000	0.000	0.000	0.000	1.450
			-	-	-	-	-	20:COM7
			-9.878	-7.652	-0.037	-1.237	-0.065	0.000
			34:CVOL3	34:CVOL3	18:COM5	34:CVOL3	18:COM5	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
15531	2715	+ve	0.809	13.927	0.891	0.000	1.826	26.884
			20:COM7	15:COM2	16:COM3	14:COM1	16:COM3	15:COM2
			-0.809	0.000	-0.891	0.000	-1.826	0.000
			22:COM9	-	18:COM5	-	18:COM5	-
	6193	-ve	0.809	12.301	0.891	0.000	0.000	0.000
			20:COM7	15:COM2	16:COM3	14:COM1	32:CVOL1	32:CVOL1
			-0.809	0.000	-0.891	0.000	-0.000	0.000
			22:COM9	-	18:COM5	-	35:CVOL4	-
15532	6218	+ve	1.618	7.357	0.451	0.000	0.000	6.694
			24:COM1	20:COM7	34:CVOL3	-	-	20:COM7
			-7.586	0.000	0.000	-0.281	-0.434	0.000
			18:COM5	-	-	22:COM9	34:CVOL3	-
	1413	-ve	1.618	4.928	0.451	0.000	0.445	0.000
			24:COM1	20:COM7	34:CVOL3	-	34:CVOL3	-
			-7.586	0.000	0.000	-0.281	0.000	-6.251
			18:COM5	-	-	22:COM9	-	18:COM5
15534	6196	+ve	95.581	92.120	8.330	1.427	0.000	132.362
			28:COM1	16:COM3	20:COM7	24:COM1	-	24:COM1
			-148.039	-21.249	0.000	-3.839	-3.742	-182.028
			22:COM9	26:COM1	-	18:COM5	18:COM5	18:COM5
	1182	-ve	95.581	88.718	8.330	1.427	5.428	61.488
			28:COM1	16:COM3	20:COM7	24:COM1	20:COM7	28:COM1
			-148.039	-23.800	0.000	-3.839	0.000	-183.985
			22:COM9	26:COM1	-	18:COM5	-	22:COM9
15535	1181	+ve	34.768	19.620	0.253	0.000	0.000	73.348
			20:COM7	34:CVOL3	16:COM3	-	-	20:COM7
			-13.817	0.000	0.000	-1.399	-0.530	0.000
			30:COM1	-	-	18:COM5	18:COM5	-
	1505	-ve	34.768	16.302	0.253	0.000	0.635	18.587
			20:COM7	34:CVOL3	16:COM3	-	16:COM3	28:COM1
			-13.817	0.000	0.000	-1.399	0.000	-30.793
			30:COM1	-	-	18:COM5	-	22:COM9
15537	6185	+ve	30.934	0.000	2.096	2.785	0.400	89.716
			20:COM7	-	20:COM7	20:COM7	20:COM7	20:COM7
			-24.734	-34.428	0.000	0.000	-0.523	-3.733
			30:COM1	34:CVOL3	-	-	30:COM1	30:COM1
	1197	-ve	30.934	0.000	2.096	2.785	1.194	113.334
			20:COM7	-	20:COM7	20:COM7	16:COM3	20:COM7
			-24.734	-36.709	0.000	0.000	0.000	0.000
			30:COM1	34:CVOL3	-	-	-	-
15538	264	+ve	78.140	80.028	6.488	5.972	6.703	238.533
			16:COM3	16:COM3	16:COM3	16:COM3	24:COM1	16:COM3
			-34.389	0.000	-4.620	-1.903	-12.152	-69.904
			26:COM1	-	26:COM1	26:COM1	18:COM5	26:COM1
	1203	-ve	78.140	73.844	6.488	5.972	0.917	89.010
			16:COM3	16:COM3	16:COM3	16:COM3	24:COM1	16:COM3
			-34.389	0.000	-4.620	-1.903	-2.724	-79.538
			26:COM1	-	26:COM1	26:COM1	18:COM5	26:COM1

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
15539	6218	+ve	73.965	0.000	11.542	0.961	1.270	132.400
			20:COM7	-	16:COM3	28:COM15	24:COM11	20:COM7
			0.000	-68.098	-5.266	-1.060	-3.974	0.000
			-	34:CVOL3	26:COM13	22:COM9	18:COM5	-
	264	-ve	73.965	0.000	11.542	0.961	4.684	183.592
			20:COM7	-	16:COM3	28:COM15	16:COM3	20:COM7
			0.000	-70.362	-5.266	-1.060	-2.682	0.000
			-	34:CVOL3	26:COM13	22:COM9	26:COM13	-
15540	1505	+ve	18.596	3.779	0.137	0.683	0.278	0.502
			20:COM7	20:COM7	24:COM11	20:COM7	16:COM3	28:COM15
			-4.111	-2.779	-0.359	-0.251	-0.126	-32.051
			30:COM17	30:COM17	18:COM5	30:COM17	26:COM13	22:COM9
	1504	-ve	18.596	2.885	0.137	0.683	0.141	0.000
			20:COM7	20:COM7	24:COM11	20:COM7	24:COM11	-
			-4.111	-3.450	-0.359	-0.251	-0.418	-26.530
			30:COM17	30:COM17	18:COM5	30:COM17	18:COM5	22:COM9
15541	1505	+ve	0.000	23.583	0.052	0.000	0.162	29.620
			-	20:COM7	16:COM3	-	24:COM11	28:COM15
			-54.956	0.000	-0.029	-0.413	-0.312	-29.018
			18:COM5	-	26:COM13	18:COM5	18:COM5	22:COM9
	6219	-ve	0.000	0.000	0.052	0.000	0.257	25.746
			-	-	16:COM3	-	16:COM3	28:COM15
			-54.956	-22.425	-0.029	-0.413	-0.159	-33.544
			18:COM5	22:COM9	26:COM13	18:COM5	26:COM13	22:COM9
15542	1506	+ve	6.239	13.767	0.662	2.104	0.173	4.663
			28:COM15	20:COM7	16:COM3	20:COM7	28:COM15	24:COM17
			-14.162	0.000	-0.201	0.000	-0.658	-6.426
			22:COM9	-	26:COM13	-	22:COM9	18:COM5
	1505	-ve	6.239	12.855	0.662	2.104	0.660	0.000
			28:COM15	20:COM7	16:COM3	20:COM7	16:COM3	-
			-14.162	0.000	-0.201	0.000	-0.234	-29.486
			22:COM9	-	26:COM13	-	26:COM13	22:COM9
15543	1506	+ve	0.000	20.206	0.035	0.922	0.084	44.169
			-	20:COM7	20:COM7	20:COM7	28:COM15	20:COM7
			-36.132	0.000	-0.015	0.000	-0.231	-27.486
			18:COM5	-	30:COM17	-	22:COM9	30:COM17
	6209	-ve	0.000	0.000	0.035	0.922	0.182	21.660
			-	-	20:COM7	20:COM7	20:COM7	28:COM15
			-36.132	-17.233	-0.015	0.000	-0.096	-30.506
			18:COM5	22:COM9	30:COM17	-	30:COM17	22:COM9
15549	6200	+ve	55.186	29.004	4.964	5.397	2.310	20.555
			20:COM7	34:CVOL3	20:COM7	24:COM17	24:COM11	20:COM7
			-51.003	0.000	-2.697	-10.138	-3.234	-4.895
			30:COM17	-	30:COM17	18:COM5	18:COM5	30:COM17
	943	-ve	55.186	27.804	4.964	5.397	3.170	0.178
			20:COM7	34:CVOL3	20:COM7	24:COM17	20:COM7	24:COM17
			-51.003	0.000	-2.697	-10.138	-1.674	-22.433
			30:COM17	-	30:COM17	18:COM5	30:COM17	18:COM5

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
15551	6201	+ve	49.874	14.008	5.484	4.160	4.378	0.000
			20:COM7	34:CVOL3	20:COM7	24:COM1	16:COM3	-
			-46.034	0.000	-1.015	-4.771	-3.686	-41.002
			30:COM1	-	30:COM1	18:COM5	26:COM1	35:CVOL4
	944	-ve	49.874	13.352	5.484	4.160	6.027	0.000
			20:COM7	34:CVOL3	20:COM7	24:COM1	16:COM3	-
			-46.034	0.000	-1.015	-4.771	-2.727	-48.962
			30:COM1	-	30:COM1	18:COM5	26:COM1	35:CVOL4
15555	6203	+ve	30.971	0.000	6.267	7.297	2.221	0.000
			20:COM7	-	20:COM7	16:COM3	28:COM1	-
			-24.296	-29.293	-4.260	-0.263	-3.424	-30.123
			30:COM1	35:CVOL4	30:COM1	26:COM1	22:COM9	34:CVOL3
	947	-ve	30.971	0.000	6.267	7.297	6.653	23.098
			20:COM7	-	20:COM7	16:COM3	20:COM7	16:COM3
			-24.296	-31.101	-4.260	-0.263	-4.629	-0.775
			30:COM1	35:CVOL4	30:COM1	26:COM1	30:COM1	26:COM1
15557	6204	+ve	31.513	0.000	4.345	10.300	1.397	65.633
			20:COM7	-	16:COM3	16:COM3	28:COM1	20:COM7
			-23.227	-62.203	-3.198	-1.528	-2.152	0.000
			30:COM1	35:CVOL4	26:COM1	26:COM1	22:COM9	-
	209	-ve	31.513	0.000	4.345	10.300	2.767	134.406
			20:COM7	-	16:COM3	16:COM3	16:COM3	35:CVOL4
			-23.227	-63.445	-3.198	-1.528	-2.255	0.000
			30:COM1	35:CVOL4	26:COM1	26:COM1	26:COM1	-
15564	6205	+ve	2.404	10.430	0.000	0.000	0.025	21.818
			20:COM7	16:COM3	-	-	16:COM3	16:COM3
			0.000	0.000	-0.020	-1.262	0.000	0.000
			-	-	18:COM5	18:COM5	-	-
	1714	-ve	2.404	5.355	0.000	0.000	0.000	1.790
			20:COM7	16:COM3	-	-	-	16:COM3
			0.000	-0.219	-0.020	-1.262	-0.028	0.000
			-	26:COM1	18:COM5	18:COM5	18:COM5	-
15565	6205	+ve	4.478	0.000	0.000	16.557	0.995	2.693
			16:COM3	-	-	16:COM3	34:CVOL3	16:COM3
			-1.001	-26.234	-0.735	0.000	0.000	-0.470
			26:COM1	34:CVOL3	34:CVOL3	-	-	26:COM1
	6206	-ve	4.478	0.000	0.000	16.557	0.000	69.298
			16:COM3	-	-	16:COM3	-	34:CVOL3
			-1.001	-29.042	-0.735	0.000	-0.823	0.000
			26:COM1	34:CVOL3	34:CVOL3	-	22:COM9	-
15566	6206	+ve	0.179	6.695	0.267	4.189	0.021	5.802
			28:COM1	16:COM3	16:COM3	28:COM1	24:COM11	16:COM3
			-2.840	0.000	-0.050	-4.090	-0.393	-1.025
			22:COM9	-	26:COM1	22:COM9	18:COM5	26:COM1
	1704	-ve	0.179	0.013	0.267	4.189	0.260	0.000
			28:COM1	24:COM11	16:COM3	28:COM1	20:COM7	-
			-2.840	-3.373	-0.050	-4.090	-0.111	-2.060
			22:COM9	18:COM5	26:COM1	22:COM9	30:COM1	18:COM5

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
15567	6207	+ve	0.000	5.098	0.039	0.245	0.000	5.674
			-	16:COM3	34:CVOL3	16:COM3	-	16:COM3
			-8.552	0.000	0.000	0.000	-0.049	0.000
			18:COM5	-	-	-	34:CVOL3	-
	1813	-ve	0.000	0.849	0.039	0.245	0.046	0.575
			-	24:COM11	34:CVOL3	16:COM3	34:CVOL3	24:COM1
			-8.552	-1.468	0.000	0.000	0.000	-1.249
			18:COM5	18:COM5	-	-	-	18:COM5
15568	6208	+ve	0.000	5.457	0.067	0.326	0.000	5.764
			-	34:CVOL3	16:COM3	16:COM3	-	34:CVOL3
			-7.387	0.000	0.000	0.000	-0.082	0.000
			18:COM5	-	-	-	18:COM5	-
	1812	-ve	0.000	0.649	0.067	0.326	0.079	0.000
			-	20:COM7	16:COM3	16:COM3	16:COM3	-
			-7.387	-0.007	0.000	0.000	0.000	-1.321
			18:COM5	30:COM1	-	-	-	22:COM9
15569	6207	+ve	13.040	8.706	2.924	0.000	0.000	27.702
			20:COM7	24:COM11	20:COM7	-	-	16:COM3
			-5.753	-23.704	0.000	-7.303	-2.917	-25.800
			30:COM1	18:COM5	-	22:COM9	22:COM9	26:COM1
	1666	-ve	13.040	6.832	2.924	0.000	3.572	81.767
			20:COM7	24:COM11	20:COM7	-	16:COM3	16:COM3
			-5.753	-26.203	0.000	-7.303	0.000	-42.632
			30:COM1	18:COM5	-	22:COM9	-	26:COM1
15570	6208	+ve	7.554	17.034	0.974	0.000	0.613	9.150
			16:COM3	16:COM3	20:COM7	-	28:COM15	34:CVOL3
			-4.157	-11.303	-0.632	-11.522	-1.037	0.000
			26:COM1	26:COM1	30:COM1	18:COM5	22:COM9	-
	6207	-ve	7.554	14.535	0.974	0.000	1.109	27.593
			16:COM3	16:COM3	20:COM7	-	20:COM7	16:COM3
			-4.157	-13.177	-0.632	-11.522	-0.790	-25.898
			26:COM1	26:COM1	30:COM1	18:COM5	30:COM1	26:COM1
15571	6206	+ve	4.982	29.889	0.414	0.000	0.467	70.385
			16:COM3	16:COM3	20:COM7	-	28:COM15	16:COM3
			-2.077	-1.399	-0.434	-15.710	-0.632	-4.133
			26:COM1	26:COM1	30:COM1	34:CVOL3	22:COM9	26:COM1
	6208	-ve	4.982	27.391	0.414	0.000	0.314	9.066
			16:COM3	16:COM3	20:COM7	-	28:COM15	34:CVOL3
			-2.077	-3.273	-0.434	-15.710	-0.522	0.000
			26:COM1	26:COM1	30:COM1	34:CVOL3	22:COM9	-
15583	6209	+ve	17.534	0.000	0.511	2.198	0.000	20.513
			24:COM1	-	16:COM3	20:COM7	-	28:COM15
			-35.969	-23.889	0.000	-0.198	-0.745	-27.930
			18:COM5	22:COM9	-	30:COM1	18:COM5	22:COM9
	6185	-ve	17.534	0.000	0.511	2.198	0.650	92.546
			24:COM1	-	16:COM3	20:COM7	16:COM3	20:COM7
			-35.969	-42.179	0.000	-0.198	0.000	-3.687
			18:COM5	34:CVOL3	-	30:COM1	-	30:COM1

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
15584	6209	+ve	0.000	0.000	1.041	0.000	0.324	1.242
			-	-	16:COM3	-	28:COM15	20:COM7
			-7.718	-4.362	-0.386	-2.717	-1.011	-0.255
			18:COM5	35:CVOL4	26:COM13	22:COM9	22:COM9	30:COM17
	6219	-ve	0.000	0.000	1.041	0.000	1.090	10.231
			-	-	16:COM3	-	16:COM3	35:CVOL4
			-7.718	-5.396	-0.386	-2.717	-0.471	0.000
			18:COM5	35:CVOL4	26:COM13	22:COM9	26:COM13	-
15586	6211	+ve	0.000	0.000	0.147	0.532	0.000	0.000
			-	-	34:CVOL3	20:COM7	-	-
			-24.500	-5.945	0.000	0.000	-0.172	-5.945
			22:COM9	34:CVOL3	-	-	22:COM9	34:CVOL3
	1413	-ve	0.000	0.000	0.147	0.532	0.234	18.879
			-	-	34:CVOL3	20:COM7	34:CVOL3	34:CVOL3
			-24.500	-12.618	0.000	0.000	0.000	0.000
			22:COM9	34:CVOL3	-	-	-	-
15587	6219	+ve	30.689	0.000	0.783	3.400	0.007	20.006
			20:COM7	-	16:COM3	20:COM7	24:COM11	28:COM15
			-11.961	-44.580	0.000	0.000	-1.005	-36.547
			30:COM17	34:CVOL3	-	-	18:COM5	22:COM9
	6218	-ve	30.689	0.000	0.783	3.400	1.096	136.483
			20:COM7	-	16:COM3	20:COM7	16:COM3	20:COM7
			-11.961	-51.901	0.000	0.000	0.000	0.000
			30:COM17	34:CVOL3	-	-	-	-
15588	6219	+ve	0.000	7.562	2.586	0.344	0.000	13.605
			-	35:CVOL4	16:COM3	28:COM15	-	35:CVOL4
			-13.721	0.000	0.000	-3.567	-2.953	0.000
			22:COM9	-	-	22:COM9	18:COM5	-
	6211	-ve	0.000	6.522	2.586	0.344	2.253	0.000
			-	35:CVOL4	16:COM3	28:COM15	20:COM7	-
			-13.721	0.000	0.000	-3.567	0.000	-0.554
			22:COM9	-	-	22:COM9	-	22:COM9
15593	6213	+ve	87.670	111.027	19.147	0.375	5.854	69.259
			20:COM7	20:COM7	28:COM15	24:COM17	16:COM3	28:COM15
			-85.836	-116.836	-37.245	-33.467	-0.557	-104.282
			30:COM17	30:COM17	22:COM9	18:COM5	26:COM13	22:COM9
	1175	-ve	87.670	110.343	19.147	0.375	9.236	36.894
			20:COM7	28:COM15	28:COM15	24:COM17	20:COM7	28:COM15
			-85.836	-117.674	-37.245	-33.467	-9.318	-69.965
			30:COM17	22:COM9	22:COM9	18:COM5	30:COM17	22:COM9
15598	6214	+ve	60.790	71.023	7.772	0.000	6.263	32.553
			20:COM7	20:COM7	28:COM15	-	20:COM7	28:COM15
			-48.536	-71.973	-25.363	-12.303	-1.312	-46.930
			30:COM17	30:COM17	22:COM9	22:COM9	30:COM17	22:COM9
	1732	-ve	60.790	70.338	7.772	0.000	1.280	15.439
			20:COM7	28:COM15	28:COM15	-	24:COM11	24:COM17
			-48.536	-72.514	-25.363	-12.303	-1.557	-29.351
			30:COM17	22:COM9	22:COM9	22:COM9	18:COM5	18:COM5

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
15613	6221	+ve	2.687	9.200	0.014	0.000	0.037	19.997
			20:COM7	16:COM3	28:COM15	-	20:COM7	20:COM7
			-2.204	0.000	-0.030	-1.218	-0.017	0.000
			30:COM17	-	22:COM9	22:COM9	30:COM17	-
	2079	-ve	2.687	5.161	0.014	0.000	0.019	1.782
			20:COM7	16:COM3	28:COM15	-	28:COM15	20:COM7
			-2.204	-0.203	-0.030	-1.218	-0.038	-0.086
			30:COM17	26:COM13	22:COM9	22:COM9	22:COM9	30:COM17
15614	6222	+ve	4.029	5.322	0.098	5.082	0.094	2.963
			20:COM7	16:COM3	28:COM15	28:COM15	28:COM15	24:COM11
			-3.773	0.000	-0.125	-5.551	-0.109	-3.368
			30:COM17	-	22:COM9	22:COM9	22:COM9	18:COM5
	2069	-ve	4.029	0.000	0.098	5.082	0.129	0.000
			20:COM7	-	28:COM15	28:COM15	28:COM15	-
			-3.773	-4.549	-0.125	-5.551	-0.208	-1.863
			30:COM17	18:COM5	22:COM9	22:COM9	22:COM9	18:COM5
15615	6223	+ve	0.000	4.633	0.058	0.224	0.006	5.089
			-	16:COM3	20:COM7	16:COM3	28:COM15	16:COM3
			-6.967	0.000	-0.006	0.000	-0.069	0.000
			18:COM5	-	30:COM17	-	22:COM9	-
	2178	-ve	0.000	0.710	0.058	0.224	0.072	0.666
			-	24:COM11	20:COM7	16:COM3	20:COM7	24:COM11
			-6.967	-1.580	-0.006	0.000	-0.008	-1.057
			18:COM5	18:COM5	30:COM17	-	30:COM17	18:COM5
15616	6224	+ve	0.000	4.881	0.072	0.308	0.004	4.989
			-	34:CVOL3	16:COM3	16:COM3	24:COM11	34:CVOL3
			-5.830	0.000	-0.004	0.000	-0.086	0.000
			18:COM5	-	26:COM13	-	18:COM5	-
	2177	-ve	0.000	0.361	0.072	0.308	0.088	0.000
			-	28:COM15	16:COM3	16:COM3	16:COM3	-
			-5.830	-0.236	-0.004	0.000	-0.006	-1.048
			18:COM5	22:COM9	26:COM13	-	26:COM13	34:CVOL3
15627	6225	+ve	28.544	93.879	8.034	0.000	4.754	51.956
			16:COM3	20:COM7	28:COM15	-	20:COM7	28:COM15
			-19.089	-94.435	-19.524	-18.208	-0.827	-63.977
			26:COM13	30:COM17	22:COM9	18:COM5	30:COM17	22:COM9
	2097	-ve	28.544	93.185	8.034	0.000	1.920	26.821
			16:COM3	28:COM15	28:COM15	-	20:COM7	24:COM11
			-19.089	-95.208	-19.524	-18.208	-1.408	-38.459
			26:COM13	22:COM9	22:COM9	18:COM5	30:COM17	18:COM5
15632	2305	+ve	0.693	13.927	0.735	0.000	1.507	26.883
			20:COM7	15:COM2	16:COM3	33:CVOL2	16:COM3	15:COM2
			-0.693	0.000	-0.735	-0.000	-1.507	0.000
			22:COM9	-	18:COM5	34:CVOL3	18:COM5	-
	6227	-ve	0.693	12.301	0.735	0.000	0.000	0.000
			20:COM7	15:COM2	16:COM3	33:CVOL2	34:CVOL3	35:CVOL4
			-0.693	0.000	-0.735	-0.000	0.000	-0.000
			22:COM9	-	18:COM5	34:CVOL3	-	32:CVOL1

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
15633	6228	+ve	1.955	8.248	0.000	4.248	0.522	0.000
			28:COM1	32:CVOL1	-	20:COM7	16:COM3	-
			-1.747	0.000	-0.446	0.000	0.000	-4.509
			22:COM9	-	18:COM5	-	-	35:CVOL4
	3153	-ve	1.955	5.271	0.000	4.248	0.000	0.000
			28:COM1	34:CVOL3	-	20:COM7	-	-
			-1.747	0.000	-0.446	0.000	-0.418	-17.077
			22:COM9	-	18:COM5	-	18:COM5	34:CVOL3
15634	6229	+ve	6.223	0.000	0.000	1.631	2.537	3.267
			16:COM3	-	-	28:COM1	20:COM7	20:COM7
			0.000	-10.987	-10.683	-1.452	-0.097	-1.316
			-	34:CVOL3	18:COM5	22:COM9	30:COM1	30:COM1
	3159	-ve	6.223	0.000	0.000	1.631	0.000	7.084
			16:COM3	-	-	28:COM1	-	16:COM3
			0.000	-11.565	-10.683	-1.452	-3.878	0.000
			-	34:CVOL3	18:COM5	22:COM9	22:COM9	-
15635	3103	+ve	4.961	13.739	0.000	0.674	0.094	29.128
			16:COM3	20:COM7	-	34:CVOL3	20:COM7	20:COM7
			-0.873	0.000	-0.119	0.000	0.000	-8.501
			26:COM1	-	22:COM9	-	-	30:COM1
	6230	-ve	4.961	9.887	0.000	0.674	0.000	8.165
			16:COM3	20:COM7	-	34:CVOL3	-	28:COM1
			-0.873	0.000	-0.119	0.000	-0.132	-15.135
			26:COM1	-	22:COM9	-	22:COM9	22:COM9
15636	6229	+ve	8.077	4.872	0.000	0.000	0.056	2.259
			20:COM7	34:CVOL3	-	-	16:COM3	32:CVOL1
			0.000	0.000	-0.048	-0.128	0.000	-0.281
			-	-	32:CVOL1	22:COM9	-	35:CVOL4
	6228	-ve	8.077	0.704	0.000	0.000	0.000	0.000
			20:COM7	32:CVOL1	-	-	-	-
			0.000	-1.624	-0.048	-0.128	-0.050	-3.997
			-	35:CVOL4	32:CVOL1	22:COM9	22:COM9	22:COM9
15637	6230	+ve	0.000	3.777	0.000	0.000	0.323	8.347
			-	20:COM7	-	-	34:CVOL3	28:COM1
			-10.107	-2.309	-0.212	-0.918	0.000	-15.805
			18:COM5	30:COM1	34:CVOL3	32:CVOL1	-	22:COM9
	6229	-ve	0.000	0.000	0.000	0.000	0.000	4.716
			-	-	-	-	-	20:COM7
			-10.107	-7.878	-0.212	-0.918	-0.323	-1.567
			18:COM5	22:COM9	34:CVOL3	32:CVOL1	34:CVOL3	30:COM1
15638	3156	+ve	0.000	0.000	0.000	0.000	0.125	0.000
			-	-	-	-	16:COM3	-
			-1.732	-4.997	-0.131	-1.219	0.000	-11.900
			22:COM9	34:CVOL3	34:CVOL3	34:CVOL3	-	34:CVOL3
	6230	-ve	0.000	0.000	0.000	0.000	0.000	1.365
			-	-	-	-	-	20:COM7
			-1.732	-7.589	-0.131	-1.219	-0.149	0.000
			22:COM9	34:CVOL3	34:CVOL3	34:CVOL3	34:CVOL3	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
15644	6231	+ve	5.317	7.724	15.914	0.000	3.166	2.167
			28:COM15	20:COM7	20:COM7	-	28:COM15	28:COM15
			-7.423	0.000	-9.487	-5.067	-5.288	-6.491
			22:COM9	-	30:COM17	18:COM5	22:COM9	22:COM9
	5670	-ve	5.317	6.827	15.914	0.000	5.194	0.000
			28:COM15	20:COM7	20:COM7	-	20:COM7	-
			-7.423	0.000	-9.487	-5.067	-3.083	-8.397
			22:COM9	-	30:COM17	18:COM5	30:COM17	22:COM9
15645	5677	+ve	2.730	8.776	0.027	0.000	0.053	10.640
			28:COM15	20:COM7	28:COM15	-	20:COM7	20:COM7
			-6.227	0.000	-0.041	-0.667	-0.036	-6.720
			22:COM9	-	22:COM9	22:COM9	30:COM17	30:COM17
	6231	-ve	2.730	3.093	0.027	0.000	0.044	0.000
			28:COM15	28:COM15	28:COM15	-	28:COM15	-
			-6.227	-4.039	-0.041	-0.667	-0.072	-6.566
			22:COM9	22:COM9	22:COM9	22:COM9	22:COM9	22:COM9
15654	2986	+ve	4.114	4.859	0.020	0.152	0.041	4.071
			28:COM15	16:COM3	24:COM11	16:COM3	16:COM3	24:COM11
			-4.470	-1.876	-0.040	-0.002	-0.019	-8.944
			22:COM9	26:COM13	18:COM5	26:COM13	26:COM13	18:COM5
	2985	-ve	4.114	4.185	0.020	0.152	0.020	0.000
			28:COM15	16:COM3	24:COM11	16:COM3	24:COM11	-
			-4.470	-2.382	-0.040	-0.002	-0.037	-6.409
			22:COM9	26:COM13	18:COM5	26:COM13	18:COM5	35:CVOL4
15655	2885	+ve	0.928	13.927	0.993	0.000	2.036	26.883
			20:COM7	15:COM2	16:COM3	34:CVOL3	16:COM3	15:COM2
			-0.928	0.000	-0.993	-0.000	-2.036	0.000
			22:COM9	-	18:COM5	33:CVOL2	18:COM5	-
	6233	-ve	0.928	12.301	0.993	0.000	0.000	0.000
			20:COM7	15:COM2	16:COM3	34:CVOL3	32:CVOL1	-
			-0.928	0.000	-0.993	-0.000	-0.000	-0.000
			22:COM9	-	18:COM5	33:CVOL2	35:CVOL4	34:CVOL3
15656	6234	+ve	4.976	3.360	0.037	0.456	0.016	15.923
			20:COM7	16:COM3	20:COM7	16:COM3	20:COM7	16:COM3
			-4.679	0.000	-0.021	0.000	-0.015	-5.940
			30:COM17	-	30:COM17	-	30:COM17	26:COM13
	2987	-ve	4.976	3.006	0.037	0.456	0.027	15.038
			20:COM7	16:COM3	20:COM7	16:COM3	16:COM3	16:COM3
			-4.679	0.000	-0.021	0.000	-0.011	-8.497
			30:COM17	-	30:COM17	-	26:COM13	26:COM13
15657	5316	+ve	0.862	13.927	0.900	0.000	1.845	26.883
			20:COM7	15:COM2	16:COM3	33:CVOL2	16:COM3	15:COM2
			-0.862	0.000	-0.900	0.000	-1.845	0.000
			22:COM9	-	18:COM5	-	18:COM5	-
	6235	-ve	0.862	12.301	0.900	0.000	0.000	0.000
			20:COM7	15:COM2	16:COM3	33:CVOL2	35:CVOL4	34:CVOL3
			-0.862	0.000	-0.900	0.000	-0.000	0.000
			22:COM9	-	18:COM5	-	32:CVOL1	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
15658	5417	+ve	51.573	317.270	17.730	76.453	18.078	485.914
			28:COM15	20:COM7	24:COM11	28:COM15	20:COM7	20:COM7
			-92.138	-280.692	-18.398	-78.094	-17.239	-424.995
			22:COM9	30:COM17	18:COM5	22:COM9	30:COM17	30:COM17
	5586	-ve	51.573	308.620	17.730	76.453	28.159	284.862
			28:COM15	20:COM7	24:COM11	28:COM15	24:COM11	28:COM15
			-92.138	-287.179	-18.398	-78.094	-28.988	-296.466
			22:COM9	30:COM17	18:COM5	22:COM9	18:COM5	22:COM9
15659	5586	+ve	19.615	21.344	10.778	2.326	3.777	60.684
			24:COM17	16:COM3	28:COM15	16:COM3	20:COM7	20:COM7
			-20.869	0.000	-14.053	-1.843	-2.899	-9.441
			18:COM5	-	22:COM9	26:COM13	30:COM17	30:COM17
	6266	-ve	19.615	21.113	10.778	2.326	2.501	51.353
			24:COM17	16:COM3	28:COM15	16:COM3	28:COM15	20:COM7
			-20.869	0.000	-14.053	-1.843	-3.262	-11.659
			18:COM5	-	22:COM9	26:COM13	22:COM9	30:COM17
15671	6244	+ve	9.103	33.065	0.217	11.684	1.216	74.247
			28:COM15	20:COM7	28:COM15	28:COM15	20:COM7	20:COM7
			-12.108	-19.176	-0.911	-13.625	-0.455	-43.351
			22:COM9	30:COM17	22:COM9	22:COM9	30:COM17	30:COM17
	6243	-ve	9.103	30.431	0.217	11.684	0.222	13.841
			28:COM15	20:COM7	28:COM15	28:COM15	24:COM11	20:COM7
			-12.108	-21.151	-0.911	-13.625	-0.783	-4.992
			22:COM9	30:COM17	22:COM9	22:COM9	18:COM5	30:COM17
15672	6243	+ve	7.750	25.341	10.505	1.340	0.442	11.088
			20:COM7	20:COM7	28:COM15	28:COM15	16:COM3	20:COM7
			-6.301	-15.739	-10.214	-8.552	-0.158	-1.586
			30:COM17	30:COM17	22:COM9	22:COM9	26:COM13	30:COM17
	6238	-ve	7.750	24.762	10.505	1.340	4.676	6.379
			20:COM7	20:COM7	28:COM15	28:COM15	20:COM7	20:COM7
			-6.301	-16.174	-10.214	-8.552	-4.270	-0.687
			30:COM17	30:COM17	22:COM9	22:COM9	30:COM17	30:COM17
15676	6252	+ve	2.597	5.451	0.016	0.000	0.008	32.331
			24:COM17	20:COM7	16:COM3	-	24:COM11	20:COM7
			-5.574	-5.119	-0.000	-3.493	-0.028	-2.853
			18:COM5	30:COM17	26:COM13	22:COM9	18:COM5	30:COM17
	6256	-ve	2.597	3.670	0.016	0.000	0.015	24.573
			24:COM17	28:COM15	16:COM3	-	16:COM3	16:COM3
			-5.574	-7.066	-0.000	-3.493	-0.003	0.000
			18:COM5	22:COM9	26:COM13	22:COM9	26:COM13	-
15680	6255	+ve	3.630	14.046	0.120	0.000	0.111	23.030
			28:COM15	16:COM3	16:COM3	-	24:COM11	16:COM3
			-3.212	-1.551	-0.091	-2.133	-0.133	-0.272
			22:COM9	26:COM13	26:COM13	18:COM5	18:COM5	26:COM13
	2376	-ve	3.630	10.691	0.120	0.000	0.171	6.660
			28:COM15	16:COM3	16:COM3	-	16:COM3	24:COM17
			-3.212	-3.612	-0.091	-2.133	-0.118	-8.635
			22:COM9	26:COM13	26:COM13	18:COM5	26:COM13	18:COM5

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
15682	6255	+ve	6.872	4.295	0.263	0.141	0.369	0.000
			24:COM1	24:COM11	24:COM11	24:COM1	20:COM7	-
			-8.212	-14.341	-0.349	-2.603	-0.290	-19.210
			18:COM5	18:COM5	18:COM5	18:COM5	30:COM1	18:COM5
	6264	-ve	6.872	3.630	0.263	0.141	0.222	9.343
			24:COM1	24:COM11	24:COM11	24:COM1	24:COM11	24:COM1
			-8.212	-15.227	-0.349	-2.603	-0.307	-10.101
			18:COM5	18:COM5	18:COM5	18:COM5	18:COM5	18:COM5
15683	6256	+ve	0.618	8.616	0.054	0.000	0.198	29.590
			20:COM7	32:CVOL1	24:COM11	-	16:COM3	16:COM3
			-0.555	0.000	-0.066	-1.228	-0.167	0.000
			30:COM1	-	18:COM5	22:COM9	26:COM1	-
	1705	-ve	0.618	2.410	0.054	0.000	0.194	0.000
			20:COM7	16:COM3	24:COM11	-	24:COM11	-
			-0.555	0.000	-0.066	-1.228	-0.241	-6.109
			30:COM1	-	18:COM5	22:COM9	18:COM5	22:COM9
15684	6259	+ve	10.543	7.915	0.040	0.318	0.015	9.695
			20:COM7	34:CVOL3	20:COM7	16:COM3	28:COM1	20:COM7
			-11.493	0.000	-0.010	0.000	-0.069	0.000
			30:COM1	-	30:COM1	-	22:COM9	-
	6263	-ve	10.543	0.546	0.040	0.318	0.075	0.000
			20:COM7	16:COM3	20:COM7	16:COM3	20:COM7	-
			-11.493	-0.198	-0.010	0.000	-0.021	-6.247
			30:COM1	26:COM1	30:COM1	-	30:COM1	22:COM9
15685	6263	+ve	2.197	0.000	0.000	0.000	0.303	0.000
			16:COM3	-	-	-	20:COM7	-
			-3.444	-6.644	-0.245	-1.284	0.000	-11.321
			26:COM1	22:COM9	22:COM9	18:COM5	-	22:COM9
	2378	-ve	2.197	0.000	0.000	0.000	0.000	10.078
			16:COM3	-	-	-	-	20:COM7
			-3.444	-11.091	-0.245	-1.284	-0.287	0.000
			26:COM1	22:COM9	22:COM9	18:COM5	22:COM9	-
15686	6263	+ve	5.491	6.972	1.682	4.470	0.708	0.000
			16:COM3	20:COM7	28:COM1	16:COM3	20:COM7	-
			-2.646	0.000	-1.802	0.000	-0.607	-1.755
			26:COM1	-	22:COM9	-	30:COM1	18:COM5
	6255	-ve	5.491	6.705	1.682	4.470	0.385	0.000
			16:COM3	20:COM7	28:COM1	16:COM3	20:COM7	-
			-2.646	0.000	-1.802	0.000	-0.352	-5.505
			26:COM1	-	22:COM9	-	30:COM1	22:COM9
15691	6264	+ve	9.389	2.081	0.076	0.232	0.108	8.159
			28:COM1	24:COM11	24:COM11	28:COM1	16:COM3	24:COM1
			-10.158	-15.081	-0.080	-0.853	-0.105	-10.211
			22:COM9	18:COM5	18:COM5	22:COM9	26:COM1	18:COM5
	6265	-ve	9.389	1.168	0.076	0.232	0.100	48.496
			28:COM1	24:COM11	24:COM11	28:COM1	24:COM11	16:COM3
			-10.158	-16.298	-0.080	-0.853	-0.107	-13.449
			22:COM9	18:COM5	18:COM5	22:COM9	18:COM5	26:COM1

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
15692	6265	+ve	19.622	8.357	3.446	2.142	1.197	47.276
			28:COM15	28:COM15	20:COM7	20:COM7	28:COM15	16:COM3
			-22.838	-23.953	-2.562	-1.909	-1.615	-13.150
			22:COM9	22:COM9	30:COM17	30:COM17	22:COM9	26:COM13
	5586	-ve	19.622	8.019	3.446	2.142	1.753	65.050
			28:COM15	28:COM15	20:COM7	20:COM7	20:COM7	16:COM3
			-22.838	-24.403	-2.562	-1.909	-1.308	-15.307
			22:COM9	22:COM9	30:COM17	30:COM17	30:COM17	26:COM13
15693	5417	+ve	6.054	15.424	0.011	0.642	0.027	31.441
			20:COM7	20:COM7	28:COM15	16:COM3	20:COM7	20:COM7
			-5.414	-6.623	-0.014	-0.095	-0.025	-19.125
			30:COM17	30:COM17	22:COM9	26:COM13	30:COM17	30:COM17
	6265	-ve	6.054	9.782	0.011	0.642	0.008	3.398
			20:COM7	28:COM15	28:COM15	16:COM3	24:COM11	20:COM7
			-5.414	-10.249	-0.014	-0.095	-0.014	-2.266
			30:COM17	22:COM9	22:COM9	26:COM13	18:COM5	30:COM17
15694	6266	+ve	9.934	19.690	0.116	1.785	0.094	50.075
			24:COM11	20:COM7	16:COM3	20:COM7	24:COM11	20:COM7
			-11.584	-2.100	-0.078	0.000	-0.149	-11.108
			18:COM5	30:COM17	26:COM13	-	18:COM5	30:COM17
	6267	-ve	9.934	18.664	0.116	1.785	0.118	7.932
			24:COM11	20:COM7	16:COM3	20:COM7	16:COM3	16:COM3
			-11.584	-2.870	-0.078	0.000	-0.086	-6.092
			18:COM5	30:COM17	26:COM13	-	26:COM13	26:COM13
15695	6267	+ve	2.857	14.799	0.063	4.193	0.083	17.804
			24:COM11	20:COM7	24:COM11	20:COM7	16:COM3	20:COM7
			-5.442	0.000	-0.089	0.000	-0.057	0.000
			18:COM5	-	18:COM5	-	26:COM13	-
	6256	-ve	2.857	13.957	0.063	4.193	0.059	0.000
			24:COM11	20:COM7	24:COM11	20:COM7	24:COM11	-
			-5.442	0.000	-0.089	0.000	-0.081	-8.493
			18:COM5	-	18:COM5	-	18:COM5	22:COM9
15696	6253	+ve	7.073	7.635	0.067	0.659	0.053	12.753
			28:COM15	20:COM7	20:COM7	16:COM3	28:COM15	20:COM7
			-7.804	-4.443	-0.051	-0.638	-0.070	-13.639
			22:COM9	30:COM17	30:COM17	26:COM13	22:COM9	30:COM17
	6266	-ve	7.073	3.474	0.067	0.659	0.094	3.045
			28:COM15	28:COM15	20:COM7	16:COM3	20:COM7	16:COM3
			-7.804	-8.752	-0.051	-0.638	-0.072	-1.372
			22:COM9	22:COM9	30:COM17	26:COM13	30:COM17	26:COM13
15697	6261	+ve	7.868	11.771	0.849	0.000	0.698	13.225
			20:COM7	20:COM7	20:COM7	-	28:COM15	20:COM7
			-6.488	0.000	-0.730	-12.524	-0.800	-3.929
			30:COM17	-	30:COM17	32:CVOL1	22:COM9	30:COM17
	6267	-ve	7.868	5.785	0.849	0.000	0.941	0.000
			20:COM7	28:COM15	20:COM7	-	20:COM7	-
			-6.488	-3.893	-0.730	-12.524	-0.800	-4.627
			30:COM17	22:COM9	30:COM17	32:CVOL1	30:COM17	18:COM5

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
15713	6268	+ve	2.399	8.278	0.000	4.272	0.551	0.000
			20:COM7	32:CVOL1	-	20:COM7	16:COM3	-
			-1.413	0.000	-0.472	0.000	0.000	-4.385
			30:COM1	-	18:COM5	-	-	35:CVOL4
	3520	-ve	2.399	5.309	0.000	4.272	0.000	0.000
			20:COM7	34:CVOL3	-	20:COM7	-	-
			-1.413	0.000	-0.472	0.000	-0.445	-17.016
			30:COM1	-	18:COM5	-	18:COM5	34:CVOL3
15714	6269	+ve	6.294	0.000	0.000	1.656	2.461	3.303
			20:COM7	-	-	28:COM1	20:COM7	20:COM7
			-0.178	-10.987	-10.215	-1.511	-0.326	-1.391
			30:COM1	34:CVOL3	18:COM5	22:COM9	30:COM1	30:COM1
	3526	-ve	6.294	0.000	0.000	1.656	0.000	7.001
			20:COM7	-	-	28:COM1	-	16:COM3
			-0.178	-11.565	-10.215	-1.511	-3.851	0.000
			30:COM1	34:CVOL3	18:COM5	22:COM9	22:COM9	-
15715	6271	+ve	6.514	8.065	19.165	0.000	4.488	3.163
			28:COM1	20:COM7	20:COM7	-	28:COM1	28:COM1
			-8.385	0.000	-13.421	-5.013	-6.376	-7.503
			22:COM9	-	30:COM1	22:COM9	22:COM9	22:COM9
	5682	-ve	6.514	7.169	19.165	0.000	6.246	0.000
			28:COM1	20:COM7	20:COM7	-	20:COM7	-
			-8.385	0.000	-13.421	-5.013	-4.352	-9.130
			22:COM9	-	30:COM1	22:COM9	30:COM1	22:COM9
15716	3480	+ve	5.117	13.814	0.000	0.674	0.104	29.378
			16:COM3	20:COM7	-	34:CVOL3	20:COM7	20:COM7
			-1.628	0.000	-0.128	0.000	0.000	-8.615
			26:COM1	-	22:COM9	-	-	30:COM1
	6270	-ve	5.117	9.963	0.000	0.674	0.000	8.247
			16:COM3	20:COM7	-	34:CVOL3	-	28:COM1
			-1.628	0.000	-0.128	0.000	-0.140	-15.153
			26:COM1	-	22:COM9	-	22:COM9	22:COM9
15717	6269	+ve	8.949	4.893	0.000	0.000	0.057	2.260
			20:COM7	34:CVOL3	-	-	16:COM3	32:CVOL1
			0.000	0.000	-0.052	-0.125	0.000	-0.263
			-	-	18:COM5	35:CVOL4	-	35:CVOL4
	6268	-ve	8.949	0.716	0.000	0.000	0.000	0.000
			20:COM7	32:CVOL1	-	-	-	-
			0.000	-1.604	-0.052	-0.125	-0.060	-4.032
			-	35:CVOL4	18:COM5	35:CVOL4	22:COM9	22:COM9
15718	6270	+ve	0.000	3.851	0.000	0.000	0.331	8.437
			-	20:COM7	-	-	34:CVOL3	28:COM1
			-11.227	-2.348	-0.216	-0.916	0.000	-15.832
			22:COM9	30:COM1	34:CVOL3	32:CVOL1	-	22:COM9
	6269	-ve	0.000	0.000	0.000	0.000	0.000	4.612
			-	-	-	-	-	20:COM7
			-11.227	-7.911	-0.216	-0.916	-0.327	-1.504
			22:COM9	22:COM9	34:CVOL3	32:CVOL1	34:CVOL3	30:COM1

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
15719	5685	+ve	5.248	9.964	0.031	0.005	0.061	13.997
			28:COM15	20:COM7	28:COM15	28:COM15	20:COM7	20:COM7
			-7.700	-0.883	-0.047	-0.728	-0.040	-9.238
			22:COM9	30:COM17	22:COM9	22:COM9	30:COM17	30:COM17
	6271	-ve	5.248	4.232	0.031	0.005	0.054	0.000
			28:COM15	28:COM15	28:COM15	28:COM15	28:COM15	-
			-7.700	-4.918	-0.047	-0.728	-0.079	-6.773
			22:COM9	22:COM9	22:COM9	22:COM9	22:COM9	22:COM9
15720	3523	+ve	0.000	0.000	0.000	0.000	0.132	0.000
			-	-	-	-	16:COM3	-
			-1.997	-4.999	-0.138	-1.218	0.000	-11.905
			22:COM9	34:CVOL3	34:CVOL3	34:CVOL3	-	34:CVOL3
	6270	-ve	0.000	0.000	0.000	0.000	0.000	1.377
			-	-	-	-	-	20:COM7
			-1.997	-7.591	-0.138	-1.218	-0.155	0.000
			22:COM9	34:CVOL3	34:CVOL3	34:CVOL3	34:CVOL3	-
15734	5680	+ve	1.941	7.896	0.049	0.000	0.094	13.829
			16:COM3	20:COM7	24:COM11	-	16:COM3	20:COM7
			-1.811	0.000	-0.093	-0.414	-0.048	0.000
			26:COM13	-	18:COM5	34:CVOL3	26:COM13	-
	5683	-ve	1.941	3.723	0.049	0.000	0.053	1.894
			16:COM3	20:COM7	24:COM11	-	24:COM11	20:COM7
			-1.811	-0.701	-0.093	-0.414	-0.098	0.000
			26:COM13	30:COM17	18:COM5	34:CVOL3	18:COM5	-
15735	5680	+ve	26.812	7.577	0.751	6.279	1.908	0.000
			28:COM15	28:COM15	24:COM11	28:COM15	16:COM3	-
			-41.392	-7.441	-1.302	-11.708	-1.085	-35.828
			22:COM9	22:COM9	18:COM5	22:COM9	26:COM13	22:COM9
	5686	-ve	26.812	5.611	0.751	6.279	0.633	10.061
			28:COM15	28:COM15	24:COM11	28:COM15	24:COM11	28:COM15
			-41.392	-10.062	-1.302	-11.708	-1.061	-49.677
			22:COM9	22:COM9	18:COM5	22:COM9	18:COM5	22:COM9
15736	5312	+ve	11.320	36.198	0.273	2.322	0.841	91.144
			20:COM7	16:COM3	28:COM15	24:COM11	20:COM7	16:COM3
			-5.163	-6.868	-0.682	-15.682	-0.359	-35.574
			30:COM17	26:COM13	22:COM9	18:COM5	30:COM17	26:COM13
	6277	-ve	11.320	34.042	0.273	2.322	0.167	25.514
			20:COM7	16:COM3	28:COM15	24:COM11	28:COM15	16:COM3
			-5.163	-8.485	-0.682	-15.682	-0.448	-21.237
			30:COM17	26:COM13	22:COM9	18:COM5	22:COM9	26:COM13
15737	6272	+ve	1.075	2.561	0.128	0.515	0.042	16.454
			20:COM7	24:COM11	20:COM7	16:COM3	28:COM15	16:COM3
			-0.990	-7.598	-0.072	0.000	-0.080	-2.902
			30:COM17	18:COM5	30:COM17	-	22:COM9	26:COM13
	5319	-ve	1.075	1.026	0.128	0.515	0.081	16.336
			20:COM7	24:COM11	20:COM7	16:COM3	20:COM7	20:COM7
			-0.990	-10.147	-0.072	0.000	-0.048	0.000
			30:COM17	18:COM5	30:COM17	-	30:COM17	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
15738	6273	+ve	1.207	3.409	0.047	0.332	0.012	11.817
			28:COM15	24:COM11	20:COM7	20:COM7	28:COM15	16:COM3
			-2.640	-8.970	-0.014	0.000	-0.048	-5.463
			22:COM9	18:COM5	30:COM17	-	22:COM9	26:COM13
	5320	-ve	1.207	1.047	0.047	0.332	0.044	16.869
			28:COM15	24:COM11	20:COM7	20:COM7	20:COM7	16:COM3
			-2.640	-12.892	-0.014	0.000	-0.015	0.000
			22:COM9	18:COM5	30:COM17	-	30:COM17	-
15739	6274	+ve	1.743	4.034	0.022	0.336	0.000	7.912
			28:COM15	24:COM11	20:COM7	28:COM15	-	20:COM7
			-2.162	-7.963	-0.002	-0.440	-0.033	-2.395
			22:COM9	18:COM5	30:COM17	22:COM9	22:COM9	30:COM17
	3173	-ve	1.743	0.806	0.022	0.336	0.026	26.860
			28:COM15	24:COM11	20:COM7	28:COM15	20:COM7	16:COM3
			-2.162	-13.324	-0.002	-0.440	-0.005	0.000
			22:COM9	18:COM5	30:COM17	22:COM9	30:COM17	-
15740	6275	+ve	3.117	5.085	0.018	0.249	0.035	14.200
			20:COM7	28:COM15	28:COM15	24:COM17	20:COM7	20:COM7
			-1.639	-16.758	-0.037	-0.740	-0.020	-10.147
			30:COM17	22:COM9	22:COM9	18:COM5	30:COM17	30:COM17
	2848	-ve	3.117	2.830	0.018	0.249	0.018	32.152
			20:COM7	28:COM15	28:COM15	24:COM17	28:COM15	16:COM3
			-1.639	-20.588	-0.037	-0.740	-0.041	0.000
			30:COM17	22:COM9	22:COM9	18:COM5	22:COM9	-
15741	6276	+ve	3.522	18.632	0.073	0.000	0.220	8.547
			24:COM17	28:COM15	24:COM11	-	16:COM3	20:COM7
			-37.657	-26.323	-0.496	-0.489	-0.029	-6.757
			18:COM5	22:COM9	18:COM5	18:COM5	26:COM13	30:COM17
	2842	-ve	3.522	17.733	0.073	0.000	0.037	17.967
			24:COM17	28:COM15	24:COM11	-	24:COM11	20:COM7
			-37.657	-27.883	-0.496	-0.489	-0.226	-8.145
			18:COM5	22:COM9	18:COM5	18:COM5	18:COM5	30:COM17
15742	6277	+ve	0.157	8.692	0.010	0.253	0.015	17.617
			28:COM15	16:COM3	20:COM7	16:COM3	28:COM15	16:COM3
			-0.293	0.000	-0.008	0.000	-0.017	0.000
			22:COM9	-	30:COM17	-	22:COM9	-
	5317	-ve	0.157	1.146	0.010	0.253	0.021	0.747
			28:COM15	24:COM11	20:COM7	16:COM3	20:COM7	24:COM17
			-0.293	-1.462	-0.008	0.000	-0.016	-0.803
			22:COM9	18:COM5	30:COM17	-	30:COM17	18:COM5
15743	6276	+ve	1.452	8.706	0.082	14.609	2.110	38.246
			28:COM15	28:COM15	28:COM15	20:COM7	20:COM7	20:COM7
			-15.556	-21.598	-2.482	0.000	-0.167	-20.316
			22:COM9	22:COM9	22:COM9	-	30:COM17	30:COM17
	2835	-ve	1.452	7.211	0.082	14.609	0.000	31.503
			28:COM15	28:COM15	28:COM15	20:COM7	-	20:COM7
			-15.556	-23.592	-2.482	0.000	-2.182	0.000
			22:COM9	22:COM9	22:COM9	-	22:COM9	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
15744	6275	+ve	2.769	5.187	0.267	11.859	0.714	16.883
			28:COM15	28:COM15	24:COM11	16:COM3	16:COM3	24:COM11
			-11.114	-15.438	-0.724	0.000	-0.307	-24.891
			22:COM9	22:COM9	18:COM5	-	26:COM13	18:COM5
	6276	-ve	2.769	3.350	0.267	11.859	0.260	38.528
			28:COM15	28:COM15	24:COM11	16:COM3	24:COM11	20:COM7
			-11.114	-17.888	-0.724	0.000	-0.823	-20.206
			22:COM9	22:COM9	18:COM5	-	18:COM5	30:COM17
15745	6274	+ve	6.542	0.000	0.000	9.158	0.372	13.566
			20:COM7	-	-	20:COM7	20:COM7	24:COM11
			-6.113	-8.347	-0.347	-6.474	-0.049	-41.592
			30:COM17	22:COM9	22:COM9	30:COM17	30:COM17	18:COM5
	6275	-ve	6.542	0.000	0.000	9.158	0.000	17.352
			20:COM7	-	-	20:COM7	-	24:COM11
			-6.113	-10.615	-0.347	-6.474	-0.482	-24.557
			30:COM17	22:COM9	22:COM9	30:COM17	22:COM9	18:COM5
15746	6273	+ve	7.660	3.558	0.138	3.010	0.174	6.932
			20:COM7	16:COM3	20:COM7	28:COM15	20:COM7	24:COM11
			-6.453	-3.151	-0.065	-6.648	-0.111	-37.181
			30:COM17	26:COM13	30:COM17	22:COM9	30:COM17	18:COM5
	6274	-ve	7.660	1.934	0.138	3.010	0.225	14.273
			20:COM7	24:COM11	20:COM7	28:COM15	20:COM7	24:COM11
			-6.453	-5.295	-0.065	-6.648	-0.026	-41.763
			30:COM17	18:COM5	30:COM17	22:COM9	30:COM17	18:COM5
15747	6272	+ve	9.118	14.531	0.128	0.000	0.108	0.000
			20:COM7	16:COM3	28:COM15	-	20:COM7	-
			-5.843	-6.564	-0.121	-7.505	-0.059	-12.657
			30:COM17	26:COM13	22:COM9	18:COM5	30:COM17	18:COM5
	6273	-ve	9.118	12.384	0.128	0.000	0.210	7.365
			20:COM7	16:COM3	28:COM15	-	20:COM7	24:COM11
			-5.843	-8.174	-0.121	-7.505	-0.147	-37.469
			30:COM17	26:COM13	22:COM9	18:COM5	30:COM17	18:COM5
15748	6277	+ve	10.388	25.552	0.184	0.000	0.396	25.753
			20:COM7	16:COM3	28:COM15	-	20:COM7	16:COM3
			-5.445	-8.856	-0.397	-12.710	-0.190	-21.176
			30:COM17	26:COM13	22:COM9	18:COM5	30:COM17	26:COM13
	6272	-ve	10.388	23.756	0.184	0.000	0.108	0.000
			20:COM7	16:COM3	28:COM15	-	28:COM15	-
			-5.445	-10.203	-0.397	-12.710	-0.234	-12.900
			30:COM17	26:COM13	22:COM9	18:COM5	22:COM9	18:COM5
15764	5322	+ve	16.865	43.892	1.180	4.126	1.535	106.081
			20:COM7	16:COM3	24:COM11	24:COM11	16:COM3	16:COM3
			-11.929	-7.178	-1.163	-24.661	-1.465	-41.155
			30:COM17	26:COM13	18:COM5	18:COM5	26:COM13	26:COM13
	6283	-ve	16.865	41.710	1.180	4.126	0.424	38.621
			20:COM7	16:COM3	24:COM11	24:COM11	24:COM11	16:COM3
			-11.929	-8.815	-1.163	-24.661	-0.328	-28.564
			30:COM17	26:COM13	18:COM5	18:COM5	18:COM5	26:COM13

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
15766	6279	+ve	3.367	8.166	0.000	4.176	0.495	0.000
			20:COM7	34:CVOL3	-	20:COM7	20:COM7	-
			-2.337	0.000	-0.425	0.000	0.000	-4.117
			30:COM1	-	22:COM9	-	-	33:CVOL2
	3893	-ve	3.367	5.299	0.000	4.176	0.000	0.000
			20:COM7	34:CVOL3	-	20:COM7	-	-
			-2.337	0.000	-0.425	0.000	-0.401	-16.387
			30:COM1	-	22:COM9	-	22:COM9	34:CVOL3
15768	6282	+ve	8.153	7.303	24.001	0.000	5.588	4.966
			28:COM1	20:COM7	20:COM7	-	28:COM1	28:COM1
			-8.808	0.000	-16.726	-4.475	-8.006	-5.495
			22:COM9	-	30:COM1	22:COM9	22:COM9	22:COM9
	5696	-ve	8.153	6.999	24.001	0.000	7.802	1.278
			28:COM1	20:COM7	20:COM7	-	20:COM7	28:COM1
			-8.808	0.000	-16.726	-4.475	-5.429	-6.667
			22:COM9	-	30:COM1	22:COM9	30:COM1	22:COM9
15769	3853	+ve	6.454	12.664	0.000	0.532	0.074	28.943
			16:COM3	20:COM7	-	34:CVOL3	20:COM7	20:COM7
			-2.622	0.000	-0.079	0.000	0.000	-8.714
			26:COM1	-	22:COM9	-	-	30:COM1
	6281	-ve	6.454	9.571	0.000	0.532	0.000	8.222
			16:COM3	20:COM7	-	34:CVOL3	-	28:COM1
			-2.622	0.000	-0.079	0.000	-0.076	-12.986
			26:COM1	-	22:COM9	-	22:COM9	22:COM9
15770	6280	+ve	9.201	4.412	0.008	0.000	0.053	1.909
			20:COM7	32:CVOL1	24:COM1	-	16:COM3	34:CVOL3
			0.000	0.000	-0.045	-0.122	-0.001	-0.288
			-	-	18:COM5	33:CVOL2	26:COM1	33:CVOL2
	6279	-ve	9.201	0.810	0.008	0.000	0.018	0.000
			20:COM7	34:CVOL3	24:COM1	-	24:COM1	-
			0.000	-1.450	-0.045	-0.122	-0.045	-3.968
			-	33:CVOL2	18:COM5	33:CVOL2	18:COM5	22:COM9
15771	6281	+ve	0.000	2.934	0.000	0.000	0.289	7.353
			-	28:COM1	-	-	34:CVOL3	28:COM1
			-13.412	-3.286	-0.195	-0.858	0.000	-17.806
			22:COM9	22:COM9	34:CVOL3	34:CVOL3	-	22:COM9
	6280	-ve	0.000	0.000	0.000	0.000	0.000	4.828
			-	-	-	-	-	20:COM7
			-13.412	-8.250	-0.195	-0.858	-0.306	-0.985
			22:COM9	22:COM9	34:CVOL3	34:CVOL3	32:CVOL1	30:COM1
15772	5701	+ve	6.362	9.166	0.036	0.035	0.063	13.891
			28:COM1	20:COM7	28:COM1	28:COM1	20:COM7	20:COM7
			-9.377	-1.224	-0.050	-0.731	-0.046	-10.007
			22:COM9	30:COM1	22:COM9	22:COM9	30:COM1	30:COM1
	6282	-ve	6.362	4.268	0.036	0.035	0.061	0.000
			28:COM1	20:COM7	28:COM1	28:COM1	28:COM1	-
			-9.377	-4.897	-0.050	-0.731	-0.086	-6.296
			22:COM9	30:COM1	22:COM9	22:COM9	22:COM9	22:COM9

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
15773	3896	+ve	0.000	0.000	0.000	0.000	2.338	0.000
			-	-	-	-	20:COM7	-
			-4.282	-3.307	-2.356	-5.521	0.000	-12.295
			22:COM9	34:CVOL3	22:COM9	34:CVOL3	-	34:CVOL3
	6281	-ve	0.000	0.000	0.000	0.000	0.000	0.548
			-	-	-	-	-	28:COM15
			-4.282	-7.743	-2.356	-5.521	-2.580	-1.198
			22:COM9	32:CVOL1	22:COM9	34:CVOL3	22:COM9	22:COM9
15774	6280	+ve	7.896	0.000	0.000	1.956	2.794	3.648
			20:COM7	-	-	20:COM7	20:COM7	20:COM7
			-1.560	-11.138	-11.089	-1.179	-0.734	-1.082
			30:COM17	32:CVOL1	22:COM9	30:COM17	30:COM17	30:COM17
	3899	-ve	7.896	0.000	0.000	1.956	0.000	7.665
			20:COM7	-	-	20:COM7	-	32:CVOL1
			-1.560	-11.812	-11.089	-1.179	-3.935	0.000
			30:COM17	32:CVOL1	22:COM9	30:COM17	22:COM9	-
15786	6283	+ve	0.760	1.855	0.439	0.601	0.146	22.347
			16:COM3	28:COM15	16:COM3	16:COM3	24:COM11	16:COM3
			-0.788	-2.755	-0.492	-0.071	-0.132	0.000
			26:COM13	22:COM9	26:COM13	26:COM13	18:COM5	-
	5325	-ve	0.760	1.147	0.439	0.601	0.123	21.777
			16:COM3	28:COM15	16:COM3	16:COM3	16:COM3	16:COM3
			-0.788	-3.932	-0.492	-0.071	-0.139	0.000
			26:COM13	22:COM9	26:COM13	26:COM13	26:COM13	-
15787	6284	+ve	0.881	3.728	0.124	0.454	0.086	19.265
			24:COM11	24:COM11	16:COM3	16:COM3	24:COM11	16:COM3
			-1.556	-8.635	-0.143	0.000	-0.078	-3.934
			18:COM5	18:COM5	26:COM13	-	18:COM5	26:COM13
	5326	-ve	0.881	2.191	0.124	0.454	0.078	17.615
			24:COM11	24:COM11	16:COM3	16:COM3	16:COM3	20:COM7
			-1.556	-11.188	-0.143	0.000	-0.093	0.000
			18:COM5	18:COM5	26:COM13	-	26:COM13	-
15788	6285	+ve	1.149	4.305	0.051	0.255	0.036	14.629
			24:COM11	24:COM11	16:COM3	20:COM7	24:COM11	16:COM3
			-3.447	-10.457	-0.037	-0.002	-0.050	-6.608
			18:COM5	18:COM5	26:COM13	30:COM17	18:COM5	26:COM13
	5327	-ve	1.149	1.942	0.051	0.255	0.048	19.057
			24:COM11	24:COM11	16:COM3	20:COM7	16:COM3	16:COM3
			-3.447	-14.380	-0.037	-0.002	-0.036	0.000
			18:COM5	18:COM5	26:COM13	30:COM17	26:COM13	-
15789	6286	+ve	2.246	4.873	0.023	0.316	0.017	9.858
			24:COM11	24:COM11	16:COM3	24:COM11	24:COM11	16:COM3
			-3.121	-9.622	-0.015	-0.443	-0.033	-3.380
			18:COM5	18:COM5	26:COM13	18:COM5	18:COM5	26:COM13
	5328	-ve	2.246	1.686	0.023	0.316	0.029	29.940
			24:COM11	24:COM11	16:COM3	24:COM11	16:COM3	16:COM3
			-3.121	-14.915	-0.015	-0.443	-0.022	-0.026
			18:COM5	18:COM5	26:COM13	18:COM5	26:COM13	26:COM13

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
15790	6287	+ve	2.852	1.582	0.015	0.239	0.036	10.682
			16:COM3	28:COM15	28:COM15	24:COM11	20:COM7	20:COM7
			-1.406	-16.688	-0.039	-0.705	-0.017	-9.398
			26:COM13	22:COM9	22:COM9	18:COM5	30:COM17	30:COM17
	3616	-ve	2.852	0.000	0.015	0.239	0.014	34.869
			16:COM3	-	28:COM15	24:COM11	28:COM15	16:COM3
			-1.406	-20.518	-0.039	-0.705	-0.044	0.000
			26:COM13	22:COM9	22:COM9	18:COM5	22:COM9	-
15791	6288	+ve	3.470	16.440	0.071	0.000	0.225	8.143
			24:COM11	28:COM15	24:COM11	-	16:COM3	20:COM7
			-35.626	-20.546	-0.510	-0.471	-0.029	-5.051
			18:COM5	22:COM9	18:COM5	18:COM5	26:COM13	30:COM17
	3610	-ve	3.470	15.540	0.071	0.000	0.035	14.868
			24:COM11	28:COM15	24:COM11	-	24:COM11	20:COM7
			-35.626	-22.105	-0.510	-0.471	-0.234	-6.973
			18:COM5	22:COM9	18:COM5	18:COM5	18:COM5	30:COM17
15792	6288	+ve	9.886	6.862	0.267	20.893	1.974	36.615
			28:COM15	28:COM15	24:COM11	20:COM7	20:COM7	20:COM7
			-20.024	-23.707	-2.254	0.000	-0.382	-20.253
			22:COM9	22:COM9	18:COM5	-	30:COM17	30:COM17
	3603	-ve	9.886	5.067	0.267	20.893	0.130	35.039
			28:COM15	28:COM15	24:COM11	20:COM7	24:COM11	20:COM7
			-20.024	-26.099	-2.254	0.000	-1.972	0.000
			22:COM9	22:COM9	18:COM5	-	18:COM5	-
15793	6287	+ve	9.754	3.029	0.646	18.787	0.862	21.968
			28:COM15	28:COM15	24:COM11	16:COM3	16:COM3	24:COM11
			-15.195	-12.666	-0.811	0.000	-0.704	-31.181
			22:COM9	22:COM9	18:COM5	-	26:COM13	18:COM5
	6288	-ve	9.754	0.824	0.646	18.787	0.688	36.858
			28:COM15	28:COM15	24:COM11	16:COM3	28:COM15	20:COM7
			-15.195	-15.606	-0.811	0.000	-0.880	-20.134
			22:COM9	22:COM9	18:COM5	-	22:COM9	30:COM17
15794	6286	+ve	13.012	0.000	0.000	13.248	0.634	17.990
			20:COM7	-	-	20:COM7	16:COM3	24:COM11
			-11.267	-9.228	-0.479	-7.724	-0.114	-50.235
			30:COM17	22:COM9	18:COM5	30:COM17	26:COM13	18:COM5
	6287	-ve	13.012	0.000	0.000	13.248	0.007	22.483
			20:COM7	-	-	20:COM7	24:COM11	24:COM11
			-11.267	-11.950	-0.479	-7.724	-0.666	-30.778
			30:COM17	22:COM9	18:COM5	30:COM17	18:COM5	18:COM5
15795	6285	+ve	14.283	4.324	0.121	4.423	0.414	9.110
			20:COM7	24:COM11	24:COM11	28:COM15	16:COM3	24:COM11
			-11.709	-4.312	-0.191	-7.221	-0.110	-44.970
			30:COM17	18:COM5	18:COM5	22:COM9	26:COM13	18:COM5
	6286	-ve	14.283	2.386	0.121	4.423	0.366	18.817
			20:COM7	24:COM11	24:COM11	28:COM15	16:COM3	24:COM11
			-11.709	-6.896	-0.191	-7.221	-0.192	-50.477
			30:COM17	18:COM5	18:COM5	22:COM9	26:COM13	18:COM5

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
15796	6284	+ve	15.382	17.068	0.295	0.000	0.237	0.000
			20:COM7	16:COM3	16:COM3	-	16:COM3	-
			-11.629	-8.199	-0.185	-9.180	-0.130	-16.366
			30:COM1	26:COM1	26:COM1	18:COM5	26:COM1	22:COM9
	6285	-ve	15.382	14.491	0.295	0.000	0.527	9.684
			20:COM7	16:COM3	16:COM3	-	16:COM3	24:COM1
			-11.629	-10.132	-0.185	-9.180	-0.217	-45.301
			30:COM1	26:COM1	26:COM1	18:COM5	26:COM1	18:COM5
15797	6283	+ve	16.197	30.795	0.271	0.732	0.338	38.641
			20:COM7	16:COM3	24:COM11	24:COM1	16:COM3	16:COM3
			-11.711	-10.468	-0.258	-17.839	-0.304	-28.460
			30:COM1	26:COM1	18:COM5	18:COM5	26:COM1	26:COM1
	6284	-ve	16.197	28.227	0.271	0.732	0.240	0.000
			20:COM7	16:COM3	24:COM11	24:COM1	24:COM11	-
			-11.711	-12.394	-0.258	-17.839	-0.183	-16.584
			30:COM1	26:COM1	18:COM5	18:COM5	18:COM5	22:COM9
15812	3447	+ve	1.014	13.927	0.988	0.000	2.026	26.883
			20:COM7	15:COM2	16:COM3	34:CVOL3	16:COM3	15:COM2
			-1.014	0.000	-0.988	0.000	-2.026	0.000
			22:COM9	-	18:COM5	-	18:COM5	-
	6290	-ve	1.014	12.301	0.988	0.000	0.000	0.000
			20:COM7	15:COM2	16:COM3	34:CVOL3	32:CVOL1	-
			-1.014	0.000	-0.988	0.000	0.000	-0.000
			22:COM9	-	18:COM5	-	-	32:CVOL1
15813	3369	+ve	3.804	4.788	0.019	0.151	0.040	3.943
			28:COM1	16:COM3	24:COM11	16:COM3	16:COM3	24:COM1
			-4.282	-1.800	-0.038	-0.001	-0.018	-8.850
			22:COM9	26:COM1	18:COM5	26:COM1	26:COM1	18:COM5
	3368	-ve	3.804	4.114	0.019	0.151	0.019	0.000
			28:COM1	16:COM3	24:COM11	16:COM3	24:COM11	-
			-4.282	-2.306	-0.038	-0.001	-0.035	-6.430
			22:COM9	26:COM1	18:COM5	26:COM1	18:COM5	35:CVOL4
15814	3277	+ve	1.071	13.927	1.085	0.000	2.223	26.883
			20:COM7	15:COM2	16:COM3	-	16:COM3	15:COM2
			-1.071	0.000	-1.085	-0.000	-2.223	0.000
			22:COM9	-	18:COM5	34:CVOL3	18:COM5	-
	6292	-ve	1.071	12.301	1.085	0.000	0.000	0.000
			20:COM7	15:COM2	16:COM3	-	-	32:CVOL1
			-1.071	0.000	-1.085	-0.000	-0.000	0.000
			22:COM9	-	18:COM5	34:CVOL3	34:CVOL3	-
15816	3810	+ve	1.195	13.927	1.183	0.000	2.425	26.883
			20:COM7	15:COM2	16:COM3	34:CVOL3	16:COM3	15:COM2
			-1.195	0.000	-1.183	0.000	-2.425	0.000
			22:COM9	-	18:COM5	-	18:COM5	-
	6294	-ve	1.195	12.301	1.183	0.000	0.000	0.000
			20:COM7	15:COM2	16:COM3	34:CVOL3	33:CVOL2	-
			-1.195	0.000	-1.183	0.000	0.000	-0.000
			22:COM9	-	18:COM5	-	-	32:CVOL1

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
15819	4544	+ve	1.552	13.927	1.511	0.000	3.097	26.883
			20:COM7	15:COM2	16:COM3	33:CVOL2	16:COM3	15:COM2
			-1.552	0.000	-1.511	0.000	-3.097	0.000
			22:COM9	-	18:COM5	-	18:COM5	-
	6298	-ve	1.552	12.301	1.511	0.000	0.000	0.000
			20:COM7	15:COM2	16:COM3	33:CVOL2	-	33:CVOL2
			-1.552	0.000	-1.511	0.000	-0.000	0.000
			22:COM9	-	18:COM5	-	33:CVOL2	-
15822	4557	+ve	1.531	13.927	1.481	0.000	3.036	26.884
			20:COM7	15:COM2	16:COM3	-	16:COM3	15:COM2
			-1.531	0.000	-1.481	-0.000	-3.036	0.000
			22:COM9	-	18:COM5	33:CVOL2	18:COM5	-
	6302	-ve	1.531	12.301	1.481	0.000	0.000	0.000
			20:COM7	15:COM2	16:COM3	-	33:CVOL2	32:CVOL1
			-1.531	0.000	-1.481	-0.000	-0.000	0.000
			22:COM9	-	18:COM5	33:CVOL2	34:CVOL3	-
15832	4725	+ve	3.356	26.228	3.309	0.000	6.783	52.100
			20:COM7	15:COM2	16:COM3	33:CVOL2	16:COM3	15:COM2
			-3.356	0.000	-3.309	0.000	-6.783	0.000
			22:COM9	-	18:COM5	-	18:COM5	-
	6306	-ve	3.356	24.602	3.309	0.000	0.000	0.000
			20:COM7	15:COM2	16:COM3	33:CVOL2	-	-
			-3.356	0.000	-3.309	0.000	-0.000	-0.000
			22:COM9	-	18:COM5	-	33:CVOL2	33:CVOL2
15847	5331	+ve	55.863	43.332	1.662	2.992	1.180	100.561
			28:COM15	16:COM3	20:COM7	24:COM11	28:COM15	16:COM3
			-64.087	-5.744	-0.877	-18.126	-1.810	-31.454
			22:COM9	26:COM13	30:COM17	18:COM5	22:COM9	26:COM13
	6315	-ve	55.863	41.514	1.662	2.992	0.975	33.731
			28:COM15	16:COM3	20:COM7	24:COM11	16:COM3	16:COM3
			-64.087	-7.107	-0.877	-18.126	-0.368	-21.374
			22:COM9	26:COM13	30:COM17	18:COM5	26:COM13	26:COM13
15848	6312	+ve	8.074	3.854	0.053	0.285	0.090	15.283
			28:COM15	24:COM11	24:COM11	20:COM7	16:COM3	20:COM7
			-11.338	-9.532	-0.092	0.000	-0.051	-4.866
			22:COM9	18:COM5	18:COM5	-	26:COM13	30:COM17
	5334	-ve	8.074	1.734	0.053	0.285	0.051	20.335
			28:COM15	24:COM11	24:COM11	20:COM7	24:COM11	16:COM3
			-11.338	-13.905	-0.092	0.000	-0.089	0.000
			22:COM9	18:COM5	18:COM5	-	18:COM5	-
15849	6313	+ve	9.304	4.194	0.023	0.351	0.045	9.863
			28:COM15	24:COM11	28:COM15	28:COM15	20:COM7	20:COM7
			-12.315	-8.532	-0.033	-0.471	-0.032	-1.413
			22:COM9	18:COM5	22:COM9	22:COM9	30:COM17	30:COM17
	5335	-ve	9.304	1.335	0.023	0.351	0.031	30.539
			28:COM15	24:COM11	28:COM15	28:COM15	24:COM11	16:COM3
			-12.315	-14.429	-0.033	-0.471	-0.045	0.000
			22:COM9	18:COM5	22:COM9	22:COM9	18:COM5	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
15850	6314	+ve	8.262	4.604	0.149	0.267	0.142	15.273
			28:COM15	28:COM15	20:COM7	24:COM17	28:COM15	20:COM7
			-10.068	-19.706	-0.137	-0.782	-0.149	-11.579
			22:COM9	22:COM9	30:COM17	18:COM5	22:COM9	30:COM17
	4339	-ve	8.262	2.348	0.149	0.267	0.158	37.201
			28:COM15	28:COM15	20:COM7	24:COM17	20:COM7	20:COM7
			-10.068	-24.359	-0.137	-0.782	-0.141	0.000
			22:COM9	22:COM9	30:COM17	18:COM5	30:COM17	-
15851	6313	+ve	48.059	0.029	0.562	9.510	1.618	12.943
			28:COM15	28:COM15	28:COM15	20:COM7	20:COM7	24:COM17
			-53.940	-9.785	-0.823	-6.470	-1.113	-43.676
			22:COM9	22:COM9	22:COM9	30:COM17	30:COM17	18:COM5
	6314	-ve	48.059	0.000	0.562	9.510	0.306	16.420
			28:COM15	-	28:COM15	20:COM7	20:COM7	24:COM17
			-53.940	-12.053	-0.823	-6.470	-0.313	-24.065
			22:COM9	22:COM9	22:COM9	30:COM17	30:COM17	18:COM5
15852	6312	+ve	51.016	2.670	0.760	2.648	1.307	7.617
			28:COM15	24:COM11	28:COM15	28:COM15	20:COM7	24:COM17
			-57.683	-2.929	-0.767	-5.198	-0.988	-41.916
			22:COM9	18:COM5	22:COM9	22:COM9	30:COM17	18:COM5
	6313	-ve	51.016	1.054	0.760	2.648	0.636	13.699
			28:COM15	24:COM11	28:COM15	28:COM15	20:COM7	24:COM17
			-57.683	-5.082	-0.767	-5.198	-0.330	-43.994
			22:COM9	18:COM5	22:COM9	22:COM9	30:COM17	18:COM5
15853	6315	+ve	1.528	1.216	1.028	0.666	0.556	25.784
			28:COM15	28:COM15	28:COM15	16:COM3	20:COM7	16:COM3
			-2.191	-2.957	-1.870	-0.080	-0.294	0.000
			22:COM9	22:COM9	22:COM9	26:COM13	30:COM17	-
	5332	-ve	1.528	0.580	1.028	0.666	0.303	25.842
			28:COM15	28:COM15	28:COM15	16:COM3	28:COM15	16:COM3
			-2.191	-4.268	-1.870	-0.080	-0.529	0.000
			22:COM9	22:COM9	22:COM9	26:COM13	22:COM9	-
15854	6316	+ve	4.280	3.360	0.220	0.504	0.238	21.213
			28:COM15	24:COM11	28:COM15	16:COM3	20:COM7	20:COM7
			-7.002	-8.032	-0.405	0.000	-0.126	-2.675
			22:COM9	18:COM5	22:COM9	-	30:COM17	30:COM17
	5333	-ve	4.280	1.982	0.220	0.504	0.150	20.358
			28:COM15	24:COM11	28:COM15	16:COM3	28:COM15	20:COM7
			-7.002	-10.876	-0.405	0.000	-0.271	0.000
			22:COM9	18:COM5	22:COM9	-	22:COM9	-
15855	6316	+ve	50.956	14.364	0.512	0.000	0.566	0.000
			28:COM15	16:COM3	20:COM7	-	20:COM7	-
			-58.468	-5.825	-0.283	-7.071	-0.454	-18.566
			22:COM9	26:COM13	30:COM17	18:COM5	30:COM17	22:COM9
	6312	-ve	50.956	12.217	0.512	0.000	0.964	8.054
			28:COM15	16:COM3	20:COM7	-	20:COM7	24:COM17
			-58.468	-7.436	-0.283	-7.071	-0.424	-42.306
			22:COM9	26:COM13	30:COM17	18:COM5	30:COM17	18:COM5

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
15861	6317	+ve	3.109	28.857	0.857	0.000	0.259	20.528
			28:COM15	28:COM15	20:COM7	-	28:COM15	20:COM7
			-5.805	-35.690	-0.609	-0.853	-0.365	0.000
			22:COM9	22:COM9	30:COM17	18:COM5	22:COM9	-
	4333	-ve	3.109	27.870	0.857	0.000	0.406	41.157
			28:COM15	28:COM15	20:COM7	-	20:COM7	20:COM7
			-5.805	-37.727	-0.609	-0.853	-0.290	-11.822
			22:COM9	22:COM9	30:COM17	18:COM5	30:COM17	30:COM17
15873	6314	+ve	48.880	6.970	0.500	13.335	0.975	15.926
			28:COM15	28:COM15	28:COM15	16:COM3	20:COM7	24:COM17
			-55.316	-15.663	-0.831	0.000	-0.542	-24.439
			22:COM9	22:COM9	22:COM9	-	30:COM17	18:COM5
	6317	-ve	48.880	5.132	0.500	13.335	0.530	40.983
			28:COM15	28:COM15	28:COM15	16:COM3	28:COM15	20:COM7
			-55.316	-18.113	-0.831	0.000	-0.800	-26.475
			22:COM9	22:COM9	22:COM9	-	22:COM9	30:COM17
15874	6315	+ve	49.919	28.835	0.633	0.981	0.409	33.763
			28:COM15	16:COM3	16:COM3	24:COM17	28:COM15	16:COM3
			-59.189	-8.290	-0.316	-13.141	-0.510	-21.188
			22:COM9	26:COM13	26:COM13	18:COM5	22:COM9	26:COM13
	6316	-ve	49.919	26.694	0.633	0.981	0.824	0.000
			28:COM15	16:COM3	16:COM3	24:COM17	16:COM3	-
			-59.189	-9.895	-0.316	-13.141	-0.337	-18.846
			22:COM9	26:COM13	26:COM13	18:COM5	26:COM13	22:COM9
15875	6317	+ve	50.916	14.025	0.017	17.123	0.962	40.664
			28:COM15	28:COM15	28:COM15	20:COM7	20:COM7	20:COM7
			-57.801	-32.044	-0.745	0.000	-0.145	-26.770
			22:COM9	22:COM9	22:COM9	-	30:COM17	30:COM17
	4326	-ve	50.916	12.530	0.017	17.123	0.229	36.484
			28:COM15	28:COM15	28:COM15	20:COM7	28:COM15	16:COM3
			-57.801	-34.038	-0.745	0.000	-0.671	0.000
			22:COM9	22:COM9	22:COM9	-	22:COM9	-
15876	586	+ve	11.291	4.479	0.892	7.054	5.247	4.848
			28:COM15	16:COM3	28:COM15	20:COM7	20:COM7	24:COM17
			-13.396	-2.104	-3.116	-1.609	-3.202	-4.975
			22:COM9	26:COM13	22:COM9	30:COM17	30:COM17	18:COM5
	6319	-ve	11.291	1.639	0.892	7.054	0.000	2.694
			28:COM15	24:COM11	28:COM15	20:COM7	-	16:COM3
			-13.396	-5.500	-3.116	-1.609	-2.172	-1.290
			22:COM9	18:COM5	22:COM9	30:COM17	22:COM9	26:COM13
15877	6319	+ve	28.174	2.996	9.084	1.453	10.793	2.206
			24:COM17	34:CVOL3	16:COM3	20:COM7	24:COM11	16:COM3
			-27.027	0.000	-6.296	-0.728	-13.200	0.000
			18:COM5	-	26:COM13	30:COM17	18:COM5	-
	6346	-ve	28.174	0.000	9.084	1.453	5.566	0.318
			24:COM17	-	16:COM3	20:COM7	16:COM3	24:COM17
			-27.027	-1.040	-6.296	-0.728	-2.502	-0.754
			18:COM5	33:CVOL2	26:COM13	30:COM17	26:COM13	18:COM5

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
15878	6331	+ve	26.838	9.990	0.250	0.885	1.110	4.523
			16:COM3	20:COM7	16:COM3	20:COM7	24:COM11	28:COM15
			-11.706	0.000	-0.243	-0.921	-1.246	-10.658
			26:COM13	-	26:COM13	30:COM17	18:COM5	22:COM9
	6319	-ve	26.838	0.000	0.250	0.885	0.661	26.296
			16:COM3	-	16:COM3	20:COM7	28:COM15	20:COM7
			-11.706	-15.636	-0.243	-0.921	-0.751	-1.352
			26:COM13	22:COM9	26:COM13	30:COM17	22:COM9	30:COM17
15881	6328	+ve	47.517	12.781	7.433	1.444	21.391	12.234
			24:COM17	20:COM7	20:COM7	24:COM17	24:COM11	20:COM7
			-55.308	0.000	-6.851	-3.374	-23.406	0.000
			18:COM5	-	30:COM17	18:COM5	18:COM5	-
	6327	-ve	47.517	0.000	7.433	1.444	19.541	17.902
			24:COM17	-	20:COM7	24:COM17	20:COM7	20:COM7
			-55.308	-14.512	-6.851	-3.374	-18.407	0.000
			18:COM5	35:CVOL4	30:COM17	18:COM5	30:COM17	-
15885	6327	+ve	2.641	12.170	0.389	0.000	1.425	16.315
			28:COM15	20:COM7	24:COM11	-	16:COM3	20:COM7
			-2.691	0.000	-0.453	-3.007	-1.225	-3.730
			22:COM9	-	18:COM5	18:COM5	26:COM13	30:COM17
	6345	-ve	2.641	0.000	0.389	0.000	1.068	16.017
			28:COM15	-	24:COM11	-	24:COM11	20:COM7
			-2.691	-11.984	-0.453	-3.007	-1.244	-4.208
			22:COM9	22:COM9	18:COM5	18:COM5	18:COM5	30:COM17
15888	6328	+ve	15.923	6.515	0.418	1.782	1.403	4.543
			16:COM3	35:CVOL4	24:COM11	20:COM7	16:COM3	20:COM7
			-14.926	0.000	-0.556	-0.418	-1.067	0.000
			26:COM13	-	18:COM5	30:COM17	26:COM13	-
	6329	-ve	15.923	0.000	0.418	1.782	1.497	6.513
			16:COM3	-	24:COM11	20:COM7	24:COM11	20:COM7
			-14.926	-7.135	-0.556	-0.418	-2.005	0.000
			26:COM13	34:CVOL3	18:COM5	30:COM17	18:COM5	-
15890	6329	+ve	24.530	4.494	1.972	2.638	3.534	7.820
			16:COM3	20:COM7	24:COM11	20:COM7	16:COM3	20:COM7
			-21.920	-1.484	-2.372	-1.307	-2.873	-3.163
			26:COM13	30:COM17	18:COM5	30:COM17	26:COM13	30:COM17
	6335	-ve	24.530	0.637	1.972	2.638	2.486	6.972
			16:COM3	28:COM15	24:COM11	20:COM7	24:COM11	20:COM7
			-21.920	-5.874	-2.372	-1.307	-2.911	0.000
			26:COM13	22:COM9	18:COM5	30:COM17	18:COM5	-
15892	6331	+ve	13.853	5.879	2.132	2.122	2.786	4.617
			24:COM17	20:COM7	24:COM11	35:CVOL4	24:COM11	16:COM3
			-19.252	0.000	-2.203	0.000	-2.783	-4.024
			18:COM5	-	18:COM5	-	18:COM5	26:COM13
	6353	-ve	13.853	4.521	2.132	2.122	1.427	0.000
			24:COM17	20:COM7	24:COM11	35:CVOL4	24:COM11	-
			-19.252	-0.175	-2.203	0.000	-1.562	-8.414
			18:COM5	30:COM17	18:COM5	-	18:COM5	18:COM5

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
15893	6333	+ve	10.986	0.000	2.107	0.000	2.010	0.000
			20:COM7	-	28:COM15	-	20:COM7	-
			-7.509	-6.236	-2.195	-1.789	-1.946	-6.288
			30:COM17	34:CVOL3	22:COM9	18:COM5	30:COM17	22:COM9
	6320	-ve	10.986	0.000	2.107	0.000	1.532	7.445
			20:COM7	-	28:COM15	-	28:COM15	20:COM7
			-7.509	-7.378	-2.195	-1.789	-1.613	0.000
			30:COM17	34:CVOL3	22:COM9	18:COM5	22:COM9	-
15896	6334	+ve	30.563	9.518	2.106	0.096	4.160	13.505
			20:COM7	34:CVOL3	28:COM15	28:COM15	20:COM7	20:COM7
			-28.348	0.000	-2.848	-1.139	-3.070	0.000
			30:COM17	-	22:COM9	22:COM9	30:COM17	-
	6354	-ve	30.563	7.945	2.106	0.096	1.928	0.000
			20:COM7	34:CVOL3	28:COM15	28:COM15	24:COM11	-
			-28.348	0.000	-2.848	-1.139	-2.524	-7.664
			30:COM17	-	22:COM9	22:COM9	18:COM5	22:COM9
15898	6335	+ve	35.865	4.807	0.781	0.621	1.280	3.923
			16:COM3	35:CVOL4	24:COM11	28:COM15	16:COM3	20:COM7
			-31.705	0.000	-0.854	-1.358	-1.126	0.000
			26:COM13	-	18:COM5	22:COM9	26:COM13	-
	6339	-ve	35.865	0.000	0.781	0.621	2.048	1.888
			16:COM3	-	24:COM11	28:COM15	24:COM11	20:COM7
			-31.705	-4.269	-0.854	-1.358	-2.189	-0.337
			26:COM13	34:CVOL3	18:COM5	22:COM9	18:COM5	30:COM17
15899	6336	+ve	47.431	3.017	7.504	3.597	6.387	1.715
			16:COM3	24:COM11	24:COM11	28:COM15	16:COM3	24:COM11
			-42.399	-13.216	-11.037	-5.334	-4.078	-18.579
			26:COM13	18:COM5	18:COM5	22:COM9	26:COM13	18:COM5
	6329	-ve	47.431	1.735	7.504	3.597	8.294	4.690
			16:COM3	24:COM11	24:COM11	28:COM15	24:COM11	16:COM3
			-42.399	-14.926	-11.037	-5.334	-11.806	-2.286
			26:COM13	18:COM5	18:COM5	22:COM9	18:COM5	26:COM13
15901	6337	+ve	2.813	8.642	0.011	0.093	0.043	7.982
			16:COM3	35:CVOL4	24:COM11	20:COM7	16:COM3	35:CVOL4
			-1.191	0.000	-0.016	-0.039	-0.031	0.000
			26:COM13	-	18:COM5	30:COM17	26:COM13	-
	6336	-ve	2.813	0.000	0.011	0.093	0.037	8.015
			16:COM3	-	24:COM11	20:COM7	24:COM11	34:CVOL3
			-1.191	-8.653	-0.016	-0.039	-0.052	0.000
			26:COM13	34:CVOL3	18:COM5	30:COM17	18:COM5	-
15903	6339	+ve	50.541	0.000	11.619	0.000	7.500	2.147
			16:COM3	-	16:COM3	-	24:COM11	20:COM7
			-43.995	-9.142	-11.006	-4.303	-8.212	-0.406
			26:COM13	34:CVOL3	26:COM13	22:COM9	18:COM5	30:COM17
	6334	-ve	50.541	0.000	11.619	0.000	9.978	17.030
			16:COM3	-	16:COM3	-	16:COM3	20:COM7
			-43.995	-10.224	-11.006	-4.303	-9.733	0.000
			26:COM13	34:CVOL3	26:COM13	22:COM9	26:COM13	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
15904	5582	+ve	5.454	18.752	1.736	0.206	0.644	16.835
			16:COM3	20:COM7	16:COM3	28:COM1	24:COM1	20:COM7
			-1.107	-6.214	-1.685	-0.856	-0.641	-1.206
			26:COM1	30:COM1	26:COM1	22:COM9	18:COM5	30:COM1
	6343	-ve	5.454	18.569	1.736	0.206	0.584	6.703
			16:COM3	20:COM7	16:COM3	28:COM1	16:COM3	16:COM3
			-1.107	-6.351	-1.685	-0.856	-0.545	0.000
			26:COM1	30:COM1	26:COM1	22:COM9	26:COM1	-
15905	6340	+ve	8.655	0.783	0.089	0.000	0.043	0.000
			24:COM1	16:COM3	16:COM3	-	24:COM1	-
			-8.585	-0.390	-0.085	-0.070	-0.046	-5.555
			18:COM5	26:COM1	26:COM1	35:CVOL4	18:COM5	22:COM9
	6341	-ve	8.655	0.376	0.089	0.000	0.094	0.000
			24:COM1	16:COM3	16:COM3	-	16:COM3	-
			-8.585	-0.695	-0.085	-0.070	-0.091	-5.208
			18:COM5	26:COM1	26:COM1	35:CVOL4	26:COM1	22:COM9
15906	6341	+ve	12.349	0.000	0.178	0.261	0.132	0.000
			24:COM1	-	28:COM1	20:COM7	20:COM7	-
			-12.341	-4.472	-0.202	-0.070	-0.115	-5.128
			18:COM5	22:COM9	22:COM9	30:COM1	30:COM1	22:COM9
	6339	-ve	12.349	0.000	0.178	0.261	0.194	3.322
			24:COM1	-	28:COM1	20:COM7	28:COM1	35:CVOL4
			-12.341	-4.921	-0.202	-0.070	-0.219	0.000
			18:COM5	22:COM9	22:COM9	30:COM1	22:COM9	-
15907	6102	+ve	8.110	5.186	0.308	0.671	0.604	0.556
			16:COM3	35:CVOL4	24:COM1	28:COM1	16:COM3	28:COM1
			-7.676	0.000	-0.353	-2.410	-0.489	-2.151
			26:COM1	-	18:COM5	22:COM9	26:COM1	22:COM9
	6340	-ve	8.110	0.000	0.308	0.671	0.496	0.140
			16:COM3	-	24:COM1	28:COM1	24:COM1	28:COM1
			-7.676	-5.786	-0.353	-2.410	-0.525	-0.237
			26:COM1	34:CVOL3	18:COM5	22:COM9	18:COM5	22:COM9
15908	6336	+ve	5.773	5.265	0.024	0.166	0.041	4.729
			16:COM3	34:CVOL3	16:COM3	20:COM7	16:COM3	35:CVOL4
			-4.185	0.000	-0.025	-0.086	-0.036	0.000
			26:COM1	-	26:COM1	30:COM1	26:COM1	-
	6342	-ve	5.773	0.000	0.024	0.166	0.040	4.245
			16:COM3	-	16:COM3	20:COM7	16:COM3	20:COM7
			-4.185	-3.785	-0.025	-0.086	-0.040	-1.573
			26:COM1	18:COM5	26:COM1	30:COM1	26:COM1	30:COM1
15909	6342	+ve	4.752	4.083	3.700	0.000	2.575	2.979
			28:COM1	28:COM1	24:COM1	-	24:COM1	28:COM1
			-5.230	-17.083	-4.053	-2.414	-2.506	-22.068
			22:COM9	22:COM9	18:COM5	35:CVOL4	18:COM5	22:COM9
	6335	-ve	4.752	2.725	3.700	0.000	3.969	9.311
			28:COM1	28:COM1	24:COM1	-	24:COM1	20:COM7
			-5.230	-18.894	-4.053	-2.414	-4.516	-2.964
			22:COM9	22:COM9	18:COM5	35:CVOL4	18:COM5	30:COM1

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
15910	6342	+ve	2.237	5.917	0.010	0.067	0.009	4.221
			16:COM3	35:CVOL4	16:COM3	20:COM7	24:COM11	20:COM7
			-1.887	0.000	-0.009	-0.091	-0.010	-0.555
			26:COM13	-	26:COM13	30:COM17	18:COM5	30:COM17
	6341	-ve	2.237	0.000	0.010	0.067	0.026	0.309
			16:COM3	-	16:COM3	20:COM7	16:COM3	20:COM7
			-1.887	-4.323	-0.009	-0.091	-0.024	-0.050
			26:COM13	34:CVOL3	26:COM13	30:COM17	26:COM13	30:COM17
15911	6343	+ve	0.000	7.594	0.410	0.394	0.113	4.154
			-	28:COM15	16:COM3	20:COM7	24:COM11	20:COM7
			-5.800	-9.101	-0.166	-0.108	-0.325	-3.235
			18:COM5	22:COM9	26:COM13	30:COM17	18:COM5	30:COM17
	93	-ve	0.000	7.276	0.410	0.394	0.346	13.365
			-	28:COM15	16:COM3	20:COM7	16:COM3	20:COM7
			-5.800	-10.831	-0.166	-0.108	-0.160	-8.313
			18:COM5	22:COM9	26:COM13	30:COM17	26:COM13	30:COM17
15912	6343	+ve	2.076	6.549	0.122	0.181	0.128	6.847
			24:COM11	34:CVOL3	24:COM11	20:COM7	16:COM3	16:COM3
			-1.455	0.000	-0.150	-0.154	-0.104	0.000
			18:COM5	-	18:COM5	30:COM17	26:COM13	-
	6340	-ve	2.076	6.092	0.122	0.181	0.110	0.000
			24:COM11	34:CVOL3	24:COM11	20:COM7	24:COM11	-
			-1.455	0.000	-0.150	-0.154	-0.136	-6.197
			18:COM5	-	18:COM5	30:COM17	18:COM5	18:COM5
15913	6344	+ve	33.535	4.444	0.529	3.519	0.664	3.290
			20:COM7	20:COM7	28:COM15	35:CVOL4	20:COM7	16:COM3
			-26.283	0.000	-0.576	0.000	-0.608	0.000
			30:COM17	-	22:COM9	-	30:COM17	-
	6333	-ve	33.535	2.007	0.529	3.519	1.257	0.000
			20:COM7	20:COM7	28:COM15	35:CVOL4	28:COM15	-
			-26.283	-0.111	-0.576	0.000	-1.364	-8.311
			30:COM17	30:COM17	22:COM9	-	22:COM9	22:COM9
15914	6334	+ve	18.630	27.572	0.000	0.000	0.000	0.000
			28:COM15	15:COM2	-	-	-	-
			-19.895	0.000	-0.000	0.000	0.000	0.000
			22:COM9	-	33:CVOL2	-	-	-
	6344	-ve	18.630	0.000	0.000	0.000	0.000	0.000
			28:COM15	-	-	-	-	-
			-19.895	-27.572	-0.000	0.000	0.000	0.000
			22:COM9	15:COM2	33:CVOL2	-	-	-
15915	6345	+ve	8.807	12.847	0.366	0.751	0.812	17.802
			20:COM7	20:COM7	20:COM7	20:COM7	28:COM15	20:COM7
			-3.867	-0.262	-0.350	0.000	-0.829	-6.448
			30:COM17	30:COM17	30:COM17	-	22:COM9	30:COM17
	6494	-ve	8.807	1.722	0.366	0.751	0.769	10.911
			20:COM7	28:COM15	20:COM7	20:COM7	20:COM7	20:COM7
			-3.867	-10.048	-0.350	0.000	-0.717	-8.842
			30:COM17	22:COM9	30:COM17	-	30:COM17	30:COM17

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
15916	6329	+ve	76.547	21.781	0.000	0.000	0.000	0.000
			16:COM3	15:COM2	33:CVOL2	-	-	-
			-68.909	0.000	0.000	0.000	0.000	0.000
			26:COM1	-	-	-	-	-
	6345	-ve	76.547	0.000	0.000	0.000	0.000	0.000
			16:COM3	-	33:CVOL2	-	-	-
			-68.909	-21.781	0.000	0.000	0.000	0.000
			26:COM1	15:COM2	-	-	-	-
15917	6346	+ve	25.496	1.992	3.690	3.312	3.689	0.532
			20:COM7	32:CVOL1	16:COM3	20:COM7	16:COM3	16:COM3
			-15.806	0.000	-3.618	0.000	-3.454	0.000
			30:COM1	-	26:COM1	-	26:COM1	-
	6347	-ve	25.496	0.000	3.690	3.312	4.137	0.432
			20:COM7	-	16:COM3	20:COM7	16:COM3	16:COM3
			-15.806	-1.970	-3.618	0.000	-3.762	0.000
			30:COM1	33:CVOL2	26:COM1	-	26:COM1	-
15918	6347	+ve	18.721	1.024	2.263	6.108	4.092	0.033
			20:COM7	32:CVOL1	20:COM7	34:CVOL3	24:COM11	28:COM15
			-12.414	0.000	-1.272	0.000	-4.541	-0.564
			30:COM1	-	30:COM1	-	18:COM5	22:COM9
	6348	-ve	18.721	0.000	2.263	6.108	3.108	2.160
			20:COM7	-	20:COM7	34:CVOL3	16:COM3	16:COM3
			-12.414	-3.070	-1.272	0.000	-1.614	0.000
			30:COM1	18:COM5	30:COM1	-	26:COM1	-
15919	6348	+ve	11.866	3.765	5.286	3.978	0.040	1.702
			24:COM1	16:COM3	20:COM7	20:COM7	28:COM15	16:COM3
			-11.845	-1.100	-1.482	-0.139	-4.670	-0.964
			18:COM5	26:COM1	30:COM1	30:COM1	22:COM9	26:COM1
	6320	-ve	11.866	0.932	5.286	3.978	5.716	4.001
			24:COM1	24:COM11	20:COM7	20:COM7	20:COM7	16:COM3
			-11.845	-4.208	-1.482	-0.139	-2.879	-2.663
			18:COM5	18:COM5	30:COM1	30:COM1	30:COM1	26:COM1
15923	6352	+ve	26.828	0.000	32.261	0.000	7.938	4.201
			16:COM3	-	16:COM3	-	24:COM11	20:COM7
			-24.468	-15.527	-26.738	-9.262	-10.636	0.000
			26:COM1	34:CVOL3	26:COM1	35:CVOL4	18:COM5	-
	6334	-ve	26.828	0.000	32.261	0.000	10.822	13.448
			16:COM3	-	16:COM3	-	16:COM3	20:COM7
			-24.468	-15.974	-26.738	-9.262	-9.949	0.000
			26:COM1	34:CVOL3	26:COM1	35:CVOL4	26:COM1	-
15924	6353	+ve	1.147	0.000	1.453	0.000	0.980	0.000
			24:COM1	-	16:COM3	-	24:COM11	-
			-3.832	-5.340	-0.964	-2.307	-1.459	-8.455
			18:COM5	18:COM5	26:COM1	22:COM9	18:COM5	18:COM5
	6352	-ve	1.147	0.000	1.453	0.000	1.394	4.301
			24:COM1	-	16:COM3	-	16:COM3	20:COM7
			-3.832	-6.698	-0.964	-2.307	-0.913	0.000
			18:COM5	18:COM5	26:COM1	22:COM9	26:COM1	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
15925	6354	+ve	17.739	2.472	0.135	0.000	0.145	0.000
			28:COM15	20:COM7	16:COM3	-	24:COM11	-
			-20.374	0.000	-0.081	-1.196	-0.313	-8.159
			22:COM9	-	26:COM13	22:COM9	18:COM5	22:COM9
	6333	-ve	17.739	0.000	0.135	0.000	0.321	5.439
			28:COM15	-	16:COM3	-	20:COM7	35:CVOL4
			-20.374	-7.912	-0.081	-1.196	-0.243	0.000
			22:COM9	35:CVOL4	26:COM13	22:COM9	30:COM17	-
15926	6353	+ve	2.349	8.615	0.005	0.033	0.014	4.278
			16:COM3	35:CVOL4	24:COM11	28:COM15	24:COM11	35:CVOL4
			-1.285	0.000	-0.005	-0.085	-0.016	0.000
			26:COM13	-	18:COM5	22:COM9	18:COM5	-
	6346	-ve	2.349	0.000	0.005	0.033	0.020	13.756
			16:COM3	-	24:COM11	28:COM15	24:COM11	34:CVOL3
			-1.285	-11.300	-0.005	-0.085	-0.022	0.000
			26:COM13	34:CVOL3	18:COM5	22:COM9	18:COM5	-
15927	6352	+ve	3.299	9.239	0.006	0.018	0.018	7.107
			16:COM3	35:CVOL4	16:COM3	28:COM15	24:COM11	35:CVOL4
			-2.582	0.000	-0.006	-0.099	-0.021	0.000
			26:COM13	-	26:COM13	22:COM9	18:COM5	-
	6347	-ve	3.299	0.000	0.006	0.018	0.025	12.166
			16:COM3	-	16:COM3	28:COM15	16:COM3	34:CVOL3
			-2.582	-10.671	-0.006	-0.099	-0.025	0.000
			26:COM13	34:CVOL3	26:COM13	22:COM9	26:COM13	-
15928	6354	+ve	4.437	5.770	0.009	0.025	0.013	0.655
			20:COM7	35:CVOL4	20:COM7	28:COM15	28:COM15	20:COM7
			-3.745	0.000	-0.006	-0.032	-0.021	-0.220
			30:COM17	-	30:COM17	22:COM9	22:COM9	30:COM17
	6348	-ve	4.437	0.000	0.009	0.025	0.024	8.741
			20:COM7	-	20:COM7	28:COM15	20:COM7	34:CVOL3
			-3.745	-8.909	-0.006	-0.032	-0.018	0.000
			30:COM17	34:CVOL3	30:COM17	22:COM9	30:COM17	-
15940	6365	+ve	44.334	1.392	1.324	0.076	1.928	2.206
			16:COM3	16:COM3	20:COM7	24:COM11	28:COM15	16:COM3
			0.000	-0.546	-0.734	-0.103	-2.764	-1.029
			-	26:COM13	30:COM17	18:COM5	22:COM9	26:COM13
	6329	-ve	42.881	1.392	1.324	0.076	2.796	1.269
			16:COM3	16:COM3	20:COM7	24:COM11	20:COM7	24:COM11
			0.000	-0.546	-0.734	-0.103	-1.153	-3.642
			-	26:COM13	30:COM17	18:COM5	30:COM17	18:COM5
15941	6366	+ve	64.741	0.454	0.582	0.057	3.331	0.637
			34:CVOL3	20:COM7	28:COM15	28:COM15	20:COM7	20:COM7
			0.000	-0.324	-1.816	-0.084	-1.619	-0.473
			-	30:COM17	22:COM9	22:COM9	30:COM17	30:COM17
	6334	-ve	63.288	0.454	0.582	0.057	0.825	0.888
			34:CVOL3	20:COM7	28:COM15	28:COM15	28:COM15	28:COM15
			0.000	-0.324	-1.816	-0.084	-4.296	-1.270
			-	30:COM17	22:COM9	22:COM9	22:COM9	22:COM9

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
15961	6024	+ve	13.041	1.975	0.237	1.012	0.488	0.000
			16:COM3	24:COM11	28:COM15	16:COM3	20:COM7	-
			-6.685	-3.060	-0.376	-1.107	-0.260	-19.122
			26:COM13	18:COM5	22:COM9	26:COM13	30:COM17	35:CVOL4
	6376	-ve	13.041	0.733	0.237	1.012	0.306	0.000
			16:COM3	24:COM11	28:COM15	16:COM3	28:COM15	-
			-6.685	-4.716	-0.376	-1.107	-0.413	-15.463
			26:COM13	18:COM5	22:COM9	26:COM13	22:COM9	18:COM5
15962	6369	+ve	7.594	10.040	0.110	2.362	0.208	18.815
			16:COM3	20:COM7	16:COM3	20:COM7	24:COM11	20:COM7
			-4.081	-1.691	-0.074	0.000	-0.329	-13.147
			26:COM13	30:COM17	26:COM13	-	18:COM5	30:COM17
	6373	-ve	7.594	1.441	0.110	2.362	0.321	17.151
			16:COM3	28:COM15	16:COM3	20:COM7	16:COM3	20:COM7
			-4.081	-10.645	-0.074	0.000	-0.231	-8.967
			26:COM13	22:COM9	26:COM13	-	26:COM13	30:COM17
15963	6370	+ve	0.947	7.361	0.067	0.415	0.035	13.221
			20:COM7	20:COM7	28:COM15	20:COM7	20:COM7	16:COM3
			-0.905	0.000	-0.071	-0.082	-0.031	0.000
			30:COM17	-	22:COM9	30:COM17	30:COM17	-
	6378	-ve	0.947	7.113	0.067	0.415	0.034	8.228
			20:COM7	20:COM7	28:COM15	20:COM7	28:COM15	16:COM3
			-0.905	0.000	-0.071	-0.082	-0.034	-0.972
			30:COM17	-	22:COM9	30:COM17	22:COM9	26:COM13
15964	6373	+ve	9.538	9.456	0.135	1.451	0.344	14.051
			16:COM3	20:COM7	28:COM15	16:COM3	20:COM7	20:COM7
			-7.051	-5.766	-0.150	-0.041	-0.315	-13.487
			26:COM13	30:COM17	22:COM9	26:COM13	30:COM17	30:COM17
	6375	-ve	9.538	3.810	0.135	1.451	0.283	25.339
			16:COM3	28:COM15	28:COM15	16:COM3	28:COM15	20:COM7
			-7.051	-13.132	-0.150	-0.041	-0.318	-12.491
			26:COM13	22:COM9	22:COM9	26:COM13	22:COM9	30:COM17
15965	6030	+ve	16.472	2.545	0.867	0.669	0.911	0.000
			16:COM3	24:COM11	16:COM3	28:COM15	28:COM15	-
			-14.643	-7.037	-0.673	-4.536	-1.191	-51.894
			26:COM13	18:COM5	26:COM13	22:COM9	22:COM9	35:CVOL4
	6377	-ve	16.472	0.502	0.867	0.669	0.936	0.000
			16:COM3	24:COM11	16:COM3	28:COM15	16:COM3	-
			-14.643	-9.760	-0.673	-4.536	-0.746	-39.364
			26:COM13	18:COM5	26:COM13	22:COM9	26:COM13	35:CVOL4
15966	6090	+ve	16.182	31.692	1.376	10.982	1.475	78.010
			20:COM7	20:COM7	28:COM15	20:COM7	20:COM7	16:COM3
			-9.116	0.000	-1.262	-2.670	-1.507	0.000
			30:COM17	-	22:COM9	30:COM17	30:COM17	-
	6382	-ve	16.182	30.060	1.376	10.982	1.148	21.402
			20:COM7	20:COM7	28:COM15	20:COM7	20:COM7	16:COM3
			-9.116	0.000	-1.262	-2.670	-0.964	-5.827
			30:COM17	-	22:COM9	30:COM17	30:COM17	26:COM13

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
15967	6375	+ve	2.553	7.544	0.375	4.564	0.746	9.956
			20:COM7	35:CVOL4	24:COM11	16:COM3	16:COM3	16:COM3
			-1.111	0.000	-0.901	-0.909	-0.325	0.000
			30:COM17	-	18:COM5	26:COM13	26:COM13	-
	6372	-ve	2.553	4.257	0.375	4.564	0.226	2.055
			20:COM7	35:CVOL4	24:COM11	16:COM3	28:COM15	16:COM3
			-1.111	0.000	-0.901	-0.909	-0.549	-0.395
			30:COM17	-	18:COM5	26:COM13	22:COM9	26:COM13
15968	6376	+ve	3.982	0.000	0.288	0.579	0.117	0.000
			34:CVOL3	-	16:COM3	24:COM11	28:COM15	-
			0.000	-11.804	-0.100	-6.452	-0.269	-15.462
			-	18:COM5	26:COM13	18:COM5	22:COM9	18:COM5
	6369	-ve	3.982	0.000	0.288	0.579	0.436	20.883
			34:CVOL3	-	16:COM3	24:COM11	16:COM3	16:COM3
			0.000	-13.459	-0.100	-6.452	-0.139	-3.685
			-	18:COM5	26:COM13	18:COM5	26:COM13	26:COM13
15969	6377	+ve	10.363	0.000	0.497	0.000	0.567	0.000
			16:COM3	-	16:COM3	-	24:COM11	-
			-7.852	-23.815	-0.447	-3.944	-0.603	-39.105
			26:COM13	34:CVOL3	26:COM13	18:COM5	18:COM5	35:CVOL4
	6373	-ve	10.363	0.000	0.497	0.000	0.600	31.153
			16:COM3	-	16:COM3	-	16:COM3	16:COM3
			-7.852	-26.539	-0.447	-3.944	-0.517	-3.375
			26:COM13	34:CVOL3	26:COM13	18:COM5	26:COM13	26:COM13
15970	6376	+ve	1.706	8.289	0.006	0.157	0.017	5.524
			16:COM3	35:CVOL4	16:COM3	20:COM7	24:COM11	16:COM3
			-1.247	0.000	-0.005	-0.029	-0.018	0.000
			26:COM13	-	26:COM13	30:COM17	18:COM5	-
	6377	-ve	1.706	0.000	0.006	0.157	0.017	9.602
			16:COM3	-	16:COM3	20:COM7	16:COM3	34:CVOL3
			-1.247	-9.777	-0.005	-0.029	-0.015	0.000
			26:COM13	34:CVOL3	26:COM13	30:COM17	26:COM13	-
15971	6378	+ve	3.693	5.335	0.013	0.183	0.013	8.250
			16:COM3	35:CVOL4	16:COM3	28:COM15	24:COM11	16:COM3
			-2.321	0.000	-0.010	-0.221	-0.017	-0.880
			26:COM13	-	26:COM13	22:COM9	18:COM5	26:COM13
	6379	-ve	3.693	4.736	0.013	0.183	0.014	0.000
			16:COM3	35:CVOL4	16:COM3	28:COM15	16:COM3	-
			-2.321	0.000	-0.010	-0.221	-0.009	-7.342
			26:COM13	-	26:COM13	22:COM9	26:COM13	18:COM5
15972	6379	+ve	5.483	3.662	0.018	0.000	0.019	0.000
			16:COM3	16:COM3	16:COM3	-	24:COM11	-
			-3.637	0.000	-0.012	-0.280	-0.028	-7.084
			26:COM13	-	26:COM13	22:COM9	18:COM5	18:COM5
	6380	-ve	5.483	3.067	0.018	0.000	0.014	0.000
			16:COM3	16:COM3	16:COM3	-	16:COM3	-
			-3.637	0.000	-0.012	-0.280	-0.008	-12.823
			26:COM13	-	26:COM13	22:COM9	26:COM13	35:CVOL4

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
15973	6380	+ve	4.186	0.225	0.008	0.000	0.008	0.000
			16:COM3	24:COM11	16:COM3	-	24:COM11	-
			-2.161	-1.515	-0.006	-0.237	-0.014	-11.422
			26:COM13	18:COM5	26:COM13	22:COM9	18:COM5	35:CVOL4
	6381	-ve	4.186	0.000	0.008	0.000	0.009	0.000
			16:COM3	-	16:COM3	-	16:COM3	-
			-2.161	-2.212	-0.006	-0.237	-0.007	-7.445
			26:COM13	18:COM5	26:COM13	22:COM9	26:COM13	34:CVOL3
15974	6381	+ve	2.498	0.000	0.005	0.040	0.003	0.000
			20:COM7	-	16:COM3	28:COM15	24:COM11	-
			-1.286	-3.564	-0.003	-0.115	-0.006	-7.377
			30:COM17	35:CVOL4	26:COM13	22:COM9	18:COM5	34:CVOL3
	6372	-ve	2.498	0.000	0.005	0.040	0.007	5.004
			20:COM7	-	16:COM3	28:COM15	16:COM3	16:COM3
			-1.286	-4.257	-0.003	-0.115	-0.004	-0.991
			30:COM17	35:CVOL4	26:COM13	22:COM9	26:COM13	26:COM13
15975	6377	+ve	2.614	7.498	0.008	0.187	0.020	7.206
			16:COM3	35:CVOL4	28:COM15	20:COM7	20:COM7	20:COM7
			-2.174	0.000	-0.008	0.000	-0.018	0.000
			26:COM13	-	22:COM9	-	30:COM17	-
	6385	-ve	2.614	0.000	0.008	0.187	0.018	4.917
			16:COM3	-	28:COM15	20:COM7	20:COM7	20:COM7
			-2.174	-6.108	-0.008	0.000	-0.018	-0.506
			26:COM13	34:CVOL3	22:COM9	-	30:COM17	30:COM17
15976	6382	+ve	1.062	6.199	0.020	0.191	0.008	7.681
			24:COM17	20:COM7	16:COM3	20:COM7	24:COM11	20:COM7
			-1.847	0.000	-0.011	-0.137	-0.020	-2.134
			18:COM5	-	26:COM13	30:COM17	18:COM5	30:COM17
	6378	-ve	1.062	1.460	0.020	0.191	0.024	0.000
			24:COM17	28:COM15	16:COM3	20:COM7	16:COM3	-
			-1.847	-2.530	-0.011	-0.137	-0.016	-0.331
			18:COM5	22:COM9	26:COM13	30:COM17	26:COM13	18:COM5
15977	6383	+ve	1.670	3.500	0.116	0.000	0.161	0.000
			24:COM17	35:CVOL4	28:COM15	-	20:COM7	-
			-1.950	0.000	-0.126	-1.301	-0.120	-1.087
			18:COM5	-	22:COM9	34:CVOL3	30:COM17	18:COM5
	6380	-ve	1.670	0.000	0.116	0.000	0.140	0.000
			24:COM17	-	28:COM15	-	20:COM7	-
			-1.950	-3.958	-0.126	-1.301	-0.120	-0.566
			18:COM5	34:CVOL3	22:COM9	34:CVOL3	30:COM17	22:COM9
15978	6384	+ve	1.395	5.226	0.021	0.049	0.016	4.139
			24:COM17	34:CVOL3	16:COM3	28:COM15	24:COM11	20:COM7
			-1.305	0.000	-0.014	-0.189	-0.023	0.000
			18:COM5	-	26:COM13	22:COM9	18:COM5	-
	6379	-ve	1.395	0.000	0.021	0.049	0.023	0.052
			24:COM17	-	16:COM3	28:COM15	16:COM3	28:COM15
			-1.305	-1.356	-0.014	-0.189	-0.015	-0.439
			18:COM5	18:COM5	26:COM13	22:COM9	26:COM13	22:COM9

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
15979	6385	+ve	6.647	0.000	0.475	2.169	0.486	0.000
			16:COM3	-	24:COM11	28:COM15	16:COM3	-
			-1.948	-18.646	-0.491	-2.703	-0.512	-24.429
			26:COM13	34:CVOL3	18:COM5	22:COM9	26:COM13	18:COM5
	6375	-ve	6.647	0.000	0.475	2.169	0.657	32.163
			16:COM3	-	24:COM11	28:COM15	24:COM11	16:COM3
			-1.948	-20.774	-0.491	-2.703	-0.723	-0.324
			26:COM13	34:CVOL3	18:COM5	22:COM9	18:COM5	26:COM13
15980	6383	+ve	10.682	0.403	0.487	0.000	0.633	0.000
			20:COM7	24:COM11	16:COM3	-	24:COM11	-
			-6.629	-6.936	-0.451	-7.103	-0.720	-39.747
			30:COM17	18:COM5	26:COM13	35:CVOL4	18:COM5	34:CVOL3
	6385	-ve	10.682	0.000	0.487	0.000	0.582	0.000
			20:COM7	-	16:COM3	-	16:COM3	-
			-6.629	-9.248	-0.451	-7.103	-0.573	-23.336
			30:COM17	18:COM5	26:COM13	35:CVOL4	26:COM13	18:COM5
15981	6384	+ve	13.599	7.013	1.021	0.000	1.235	0.000
			20:COM7	16:COM3	16:COM3	-	24:COM11	-
			-10.448	0.000	-0.943	-4.127	-1.426	-28.778
			30:COM17	-	26:COM13	22:COM9	18:COM5	18:COM5
	6383	-ve	13.599	5.049	1.021	0.000	0.894	0.000
			20:COM7	16:COM3	16:COM3	-	16:COM3	-
			-10.448	-0.393	-0.943	-4.127	-0.908	-38.207
			30:COM17	26:COM13	26:COM13	22:COM9	26:COM13	34:CVOL3
15982	6382	+ve	15.662	20.568	0.423	1.949	0.090	24.598
			20:COM7	34:CVOL3	16:COM3	28:COM15	28:COM15	16:COM3
			-12.098	0.000	-0.031	-3.812	-0.613	-3.570
			30:COM17	-	26:COM13	22:COM9	22:COM9	26:COM13
	6384	-ve	15.662	18.590	0.423	1.949	0.448	0.000
			20:COM7	34:CVOL3	16:COM3	28:COM15	16:COM3	-
			-12.098	0.000	-0.031	-3.812	-0.075	-29.023
			30:COM17	-	26:COM13	22:COM9	26:COM13	18:COM5
15983	6385	+ve	1.035	4.765	0.011	0.026	0.017	3.439
			16:COM3	34:CVOL3	28:COM15	28:COM15	20:COM7	34:CVOL3
			-0.839	0.000	-0.016	-0.188	-0.011	0.000
			26:COM13	-	22:COM9	22:COM9	30:COM17	-
	6381	-ve	1.035	0.000	0.011	0.026	0.013	0.127
			16:COM3	-	28:COM15	28:COM15	28:COM15	35:CVOL4
			-0.839	-1.732	-0.016	-0.188	-0.018	0.000
			26:COM13	35:CVOL4	22:COM9	22:COM9	22:COM9	-
15997	6327	+ve	26.036	9.969	8.129	0.635	28.917	17.393
			16:COM3	16:COM3	28:COM15	16:COM3	20:COM7	16:COM3
			0.000	-2.409	-13.404	-0.636	-19.241	-7.142
			-	26:COM13	22:COM9	26:COM13	30:COM17	26:COM13
	6369	-ve	23.269	9.969	8.129	0.635	13.274	2.514
			16:COM3	16:COM3	28:COM15	16:COM3	28:COM15	24:COM17
			0.000	-2.409	-13.404	-0.636	-24.699	-22.501
			-	26:COM13	22:COM9	26:COM13	22:COM9	18:COM5

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
15998	6345	+ve	39.437	9.413	14.370	0.468	25.059	9.357
			35:CVOL4	16:COM3	20:COM7	24:COM1	28:COM1	24:COM1
			0.000	-3.404	-12.760	-0.511	-29.693	-11.521
			-	26:COM1	30:COM1	18:COM5	22:COM9	18:COM5
	6373	-ve	36.669	9.413	14.370	0.468	27.788	2.668
			35:CVOL4	16:COM3	20:COM7	24:COM1	20:COM7	24:COM1
			0.000	-3.404	-12.760	-0.511	-25.981	-28.866
			-	26:COM1	30:COM1	18:COM5	30:COM1	18:COM5
16001	6494	+ve	40.947	12.657	11.212	0.356	23.331	15.407
			20:COM7	16:COM3	24:COM1	24:COM1	28:COM1	16:COM3
			0.000	-3.192	-11.437	-0.421	-27.459	-11.210
			-	26:COM1	18:COM5	18:COM5	22:COM9	26:COM1
	6375	-ve	38.179	12.657	11.212	0.356	18.880	1.575
			20:COM7	16:COM3	24:COM1	24:COM1	24:COM1	24:COM1
			0.000	-3.192	-11.437	-0.421	-23.906	-35.238
			-	26:COM1	18:COM5	18:COM5	18:COM5	18:COM5
16007	6389	+ve	29.762	1.819	1.083	0.040	2.771	2.714
			20:COM7	20:COM7	28:COM1	24:COM1	20:COM7	20:COM7
			0.000	-0.635	-1.362	-0.046	-2.400	-1.066
			-	30:COM1	22:COM9	18:COM5	30:COM1	30:COM1
	6335	-ve	28.309	1.819	1.083	0.040	2.148	1.610
			20:COM7	20:COM7	28:COM1	24:COM1	28:COM1	28:COM1
			-0.115	-0.635	-1.362	-0.046	-2.949	-4.934
			30:COM1	30:COM1	22:COM9	18:COM5	22:COM9	22:COM9
16008	6444	+ve	30.084	2.097	5.636	0.234	11.599	4.572
			20:COM7	24:COM1	28:COM1	20:COM7	28:COM1	24:COM1
			0.000	-5.651	-6.250	-0.166	-11.160	-8.353
			-	18:COM5	22:COM9	30:COM1	22:COM9	18:COM5
	6449	-ve	28.780	2.097	5.636	0.234	9.173	12.226
			20:COM7	24:COM1	28:COM1	20:COM7	28:COM1	16:COM3
			0.000	-5.651	-6.250	-0.166	-10.944	-3.211
			-	18:COM5	22:COM9	30:COM1	22:COM9	26:COM1
16009	6445	+ve	38.393	4.249	4.777	0.203	9.973	7.141
			20:COM7	16:COM3	28:COM1	20:COM7	20:COM7	16:COM3
			0.000	-4.172	-5.323	-0.165	-9.331	-6.563
			-	26:COM1	22:COM9	30:COM1	30:COM1	26:COM1
	6450	-ve	37.089	4.249	4.777	0.203	7.872	8.821
			20:COM7	16:COM3	28:COM1	20:COM7	28:COM1	16:COM3
			0.000	-4.172	-5.323	-0.165	-9.196	-8.517
			-	26:COM1	22:COM9	30:COM1	22:COM9	26:COM1
16010	6446	+ve	31.022	5.863	5.197	0.206	11.100	9.174
			20:COM7	16:COM3	28:COM1	20:COM7	20:COM7	16:COM3
			0.000	-1.953	-6.018	-0.165	-10.016	-3.822
			-	26:COM1	22:COM9	30:COM1	30:COM1	26:COM1
	6451	-ve	29.718	5.863	5.197	0.206	8.708	3.607
			20:COM7	16:COM3	28:COM1	20:COM7	28:COM1	24:COM1
			0.000	-1.953	-6.018	-0.165	-10.578	-12.330
			-	26:COM1	22:COM9	30:COM1	22:COM9	18:COM5

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
16011	6434	+ve	25.166	2.254	6.066	0.217	10.340	4.805
			20:COM7	24:COM11	20:COM7	20:COM7	28:COM15	24:COM1
			0.000	-5.769	-5.263	-0.179	-10.661	-8.653
			-	18:COM5	30:COM17	30:COM17	22:COM9	18:COM5
	6441	-ve	23.862	2.254	6.066	0.217	11.204	12.259
			20:COM7	24:COM11	20:COM7	20:COM7	20:COM7	16:COM3
			0.000	-5.769	-5.263	-0.179	-8.634	-3.454
			-	18:COM5	30:COM17	30:COM17	30:COM17	26:COM13
16012	6435	+ve	31.810	4.659	4.888	0.210	8.950	7.799
			20:COM7	16:COM3	20:COM7	20:COM7	20:COM7	16:COM3
			0.000	-4.316	-4.519	-0.166	-8.541	-6.933
			-	26:COM13	30:COM17	30:COM17	30:COM17	26:COM13
	6439	-ve	30.506	4.659	4.888	0.210	9.220	8.741
			20:COM7	16:COM3	20:COM7	20:COM7	20:COM7	24:COM1
			0.000	-4.316	-4.519	-0.166	-7.479	-9.107
			-	26:COM13	30:COM17	30:COM17	30:COM17	18:COM5
16013	6436	+ve	24.691	5.664	5.307	0.220	8.897	8.692
			20:COM7	16:COM3	20:COM7	20:COM7	20:COM7	16:COM3
			0.000	-2.133	-4.675	-0.155	-8.781	-4.323
			-	26:COM13	30:COM17	30:COM17	30:COM17	26:COM13
	6440	-ve	23.387	5.664	5.307	0.220	10.476	3.560
			20:COM7	16:COM3	20:COM7	20:COM7	20:COM7	24:COM1
			0.000	-2.133	-4.675	-0.155	-8.083	-11.903
			-	26:COM13	30:COM17	30:COM17	30:COM17	18:COM5
16015	6448	+ve	21.741	5.706	4.445	0.298	15.703	10.063
			20:COM7	16:COM3	28:COM15	16:COM3	20:COM7	16:COM3
			0.000	-5.249	-7.805	-0.263	-9.053	-9.722
			-	26:COM13	22:COM9	26:COM13	30:COM17	26:COM13
	6453	-ve	20.436	5.706	4.445	0.298	6.961	9.182
			20:COM7	16:COM3	28:COM15	16:COM3	28:COM15	24:COM1
			0.000	-5.249	-7.805	-0.263	-12.406	-10.487
			-	26:COM13	22:COM9	26:COM13	22:COM9	18:COM5
16016	6447	+ve	20.881	5.460	4.637	0.316	15.359	10.079
			20:COM7	24:COM11	28:COM15	16:COM3	20:COM7	24:COM1
			0.000	-6.662	-7.575	-0.251	-9.458	-12.053
			-	18:COM5	22:COM9	26:COM13	30:COM17	18:COM5
	6452	-ve	19.576	5.460	4.637	0.316	7.248	11.939
			20:COM7	24:COM11	28:COM15	16:COM3	28:COM15	16:COM3
			0.000	-6.662	-7.575	-0.251	-11.924	-9.586
			-	18:COM5	22:COM9	26:COM13	22:COM9	26:COM13
16017	6438	+ve	16.531	6.368	6.556	0.234	7.069	11.585
			20:COM7	16:COM3	20:COM7	20:COM7	28:COM15	16:COM3
			0.000	-5.712	-3.650	-0.183	-12.259	-10.894
			-	26:COM13	30:COM17	30:COM17	22:COM9	26:COM13
	6442	-ve	15.227	6.368	6.556	0.234	11.351	9.676
			20:COM7	16:COM3	20:COM7	20:COM7	20:COM7	24:COM1
			0.000	-5.712	-3.650	-0.183	-6.078	-11.349
			-	26:COM13	30:COM17	30:COM17	30:COM17	18:COM5

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
16018	6437	+ve	16.780	5.944	6.861	0.211	6.280	11.344
			20:COM7	24:COM11	20:COM7	20:COM7	28:COM15	24:COM1
			0.000	-6.646	-3.295	-0.194	-12.834	-12.268
			-	18:COM5	30:COM1	30:COM1	22:COM9	18:COM5
	6443	-ve	15.476	5.944	6.861	0.211	11.880	11.667
			20:COM7	24:COM11	20:COM7	20:COM7	20:COM7	16:COM3
			0.000	-6.646	-3.295	-0.194	-5.595	-10.064
			-	18:COM5	30:COM1	30:COM1	30:COM1	26:COM1
16019	6393	+ve	0.336	2.011	0.011	0.000	0.007	3.843
			20:COM7	16:COM3	16:COM3	-	24:COM11	16:COM3
			0.000	0.000	-0.007	-0.223	-0.011	0.000
			-	-	26:COM1	22:COM9	18:COM5	-
	6405	-ve	0.336	1.674	0.011	0.000	0.011	0.458
			20:COM7	16:COM3	16:COM3	-	16:COM3	24:COM1
			0.000	0.000	-0.007	-0.223	-0.007	-1.313
			-	-	26:COM1	22:COM9	26:COM1	18:COM5
16020	6399	+ve	0.527	0.510	0.014	0.000	0.007	0.051
			20:COM7	28:COM15	16:COM3	-	24:COM11	24:COM1
			-0.161	-0.126	-0.007	-0.215	-0.014	-2.332
			30:COM1	22:COM9	26:COM1	22:COM9	18:COM5	18:COM5
	6407	-ve	0.527	0.257	0.014	0.000	0.013	0.000
			20:COM7	28:COM15	16:COM3	-	20:COM7	-
			-0.161	-0.464	-0.007	-0.215	-0.007	-2.103
			30:COM1	22:COM9	26:COM1	22:COM9	30:COM1	18:COM5
16021	6394	+ve	0.572	2.327	0.013	0.000	0.010	5.230
			20:COM7	35:CVOL4	20:COM7	-	28:COM15	16:COM3
			-0.254	0.000	-0.010	-0.252	-0.013	0.000
			30:COM1	-	30:COM1	22:COM9	22:COM9	-
	6409	-ve	0.572	1.990	0.013	0.000	0.013	1.132
			20:COM7	35:CVOL4	20:COM7	-	20:COM7	16:COM3
			-0.254	0.000	-0.010	-0.252	-0.010	-0.193
			30:COM1	-	30:COM1	22:COM9	30:COM1	26:COM1
16022	6400	+ve	0.416	0.741	0.016	0.000	0.013	0.288
			20:COM7	20:COM7	20:COM7	-	28:COM15	24:COM1
			0.000	0.000	-0.013	-0.226	-0.016	-2.264
			-	-	30:COM1	22:COM9	22:COM9	18:COM5
	6411	-ve	0.416	0.453	0.016	0.000	0.015	0.000
			20:COM7	28:COM15	20:COM7	-	20:COM7	-
			0.000	-0.217	-0.013	-0.226	-0.013	-2.373
			-	22:COM9	30:COM1	22:COM9	30:COM1	18:COM5
16023	6390	+ve	0.152	1.787	0.008	0.182	0.007	3.290
			16:COM3	16:COM3	28:COM15	20:COM7	20:COM7	16:COM3
			0.000	0.000	-0.007	0.000	-0.008	0.000
			-	-	22:COM9	-	30:COM1	-
	6413	-ve	0.152	1.449	0.008	0.182	0.008	0.368
			16:COM3	16:COM3	28:COM15	20:COM7	20:COM7	24:COM1
			0.000	0.000	-0.007	0.000	-0.007	-1.143
			-	-	22:COM9	-	30:COM1	18:COM5

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
16024	6397	+ve	0.454	0.558	0.011	0.156	0.009	0.183
			20:COM7	28:COM15	20:COM7	20:COM7	24:COM11	28:COM15
			-0.204	-0.329	-0.009	0.000	-0.011	-2.496
			30:COM17	22:COM9	30:COM17	-	18:COM5	22:COM9
	6415	-ve	0.454	0.305	0.011	0.156	0.011	0.000
			20:COM7	28:COM15	20:COM7	20:COM7	20:COM7	-
			-0.204	-0.666	-0.009	0.000	-0.008	-1.754
			30:COM17	22:COM9	30:COM17	-	30:COM17	18:COM5
16025	6391	+ve	0.458	2.098	0.012	0.236	0.010	4.752
			20:COM7	20:COM7	20:COM7	20:COM7	28:COM15	16:COM3
			-0.360	0.000	-0.010	0.000	-0.012	0.000
			30:COM17	-	30:COM17	-	22:COM9	-
	6417	-ve	0.458	1.761	0.012	0.236	0.012	1.213
			20:COM7	20:COM7	20:COM7	20:COM7	20:COM7	16:COM3
			-0.360	0.000	-0.010	0.000	-0.010	0.000
			30:COM17	-	30:COM17	-	30:COM17	-
16026	6398	+ve	0.295	0.832	0.014	0.164	0.015	0.402
			16:COM3	20:COM7	28:COM15	20:COM7	20:COM7	28:COM15
			-0.229	-0.178	-0.015	0.000	-0.013	-2.712
			26:COM13	30:COM17	22:COM9	-	30:COM17	22:COM9
	6419	-ve	0.295	0.545	0.014	0.164	0.013	0.000
			16:COM3	28:COM15	28:COM15	20:COM7	28:COM15	-
			-0.229	-0.481	-0.015	0.000	-0.014	-2.266
			26:COM13	22:COM9	22:COM9	-	22:COM9	18:COM5
16027	6390	+ve	3.363	0.000	0.025	1.289	0.665	0.000
			28:COM15	-	24:COM11	16:COM3	16:COM3	-
			-3.602	-2.913	-0.842	-0.534	-0.024	-0.410
			22:COM9	22:COM9	18:COM5	26:COM13	26:COM13	22:COM9
	6449	-ve	3.363	0.000	0.025	1.289	0.021	5.714
			28:COM15	-	24:COM11	16:COM3	24:COM11	20:COM7
			-3.602	-5.636	-0.842	-0.534	-0.523	0.000
			22:COM9	22:COM9	18:COM5	26:COM13	18:COM5	-
16028	6397	+ve	2.593	0.310	0.379	1.121	0.520	0.000
			28:COM15	20:COM7	24:COM11	24:COM11	16:COM3	-
			-4.126	-1.263	-0.680	-1.254	-0.308	-0.289
			22:COM9	30:COM17	18:COM5	18:COM5	26:COM13	22:COM9
	6453	-ve	2.593	0.000	0.379	1.121	0.229	3.481
			28:COM15	-	24:COM11	24:COM11	24:COM11	20:COM7
			-4.126	-3.963	-0.680	-1.254	-0.438	0.000
			22:COM9	22:COM9	18:COM5	18:COM5	18:COM5	-
16029	6391	+ve	2.624	0.000	0.409	1.123	0.359	0.000
			28:COM15	-	24:COM11	16:COM3	16:COM3	-
			-2.967	-4.023	-0.461	-0.999	-0.338	-0.459
			22:COM9	22:COM9	18:COM5	26:COM13	26:COM13	22:COM9
	6450	-ve	2.624	0.000	0.409	1.123	0.242	7.207
			28:COM15	-	24:COM11	16:COM3	24:COM11	34:CVOL3
			-2.967	-6.911	-0.461	-0.999	-0.294	0.000
			22:COM9	34:CVOL3	18:COM5	26:COM13	18:COM5	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
16030	6398	+ve	2.842	0.408	0.700	1.544	0.405	0.000
			28:COM15	20:COM7	16:COM3	16:COM3	24:COM11	-
			-3.936	-1.249	-0.543	-1.227	-0.539	-0.288
			22:COM9	30:COM17	26:COM13	26:COM13	18:COM5	22:COM9
	6452	-ve	2.842	0.000	0.700	1.544	0.444	3.419
			28:COM15	-	16:COM3	16:COM3	16:COM3	20:COM7
			-3.936	-3.916	-0.543	-1.227	-0.359	0.000
			22:COM9	22:COM9	26:COM13	26:COM13	26:COM13	-
16031	6392	+ve	3.057	0.000	0.859	0.683	0.064	0.000
			28:COM15	-	16:COM3	24:COM11	24:COM11	-
			-3.483	-3.009	-0.114	-1.366	-0.676	-0.419
			22:COM9	18:COM5	26:COM13	18:COM5	18:COM5	22:COM9
	6451	-ve	3.057	0.000	0.859	0.683	0.551	5.794
			28:COM15	-	16:COM3	24:COM11	20:COM7	16:COM3
			-3.483	-5.732	-0.114	-1.366	-0.121	0.000
			22:COM9	18:COM5	26:COM13	18:COM5	30:COM17	-
16032	6392	+ve	0.114	1.161	0.014	0.253	0.014	2.254
			24:COM11	16:COM3	20:COM7	20:COM7	28:COM15	16:COM3
			-0.135	0.000	-0.013	0.000	-0.015	0.000
			18:COM5	-	30:COM17	-	22:COM9	-
	6401	-ve	0.114	0.790	0.014	0.253	0.015	0.282
			24:COM11	16:COM3	20:COM7	20:COM7	20:COM7	20:COM7
			-0.135	0.000	-0.013	0.000	-0.014	0.000
			18:COM5	-	30:COM17	-	30:COM17	-
16033	6395	+ve	0.166	1.220	0.014	0.012	0.014	2.294
			20:COM7	16:COM3	20:COM7	28:COM15	28:COM15	16:COM3
			-0.151	0.000	-0.013	-0.196	-0.015	0.000
			30:COM17	-	30:COM17	22:COM9	22:COM9	-
	6402	-ve	0.166	0.848	0.014	0.012	0.015	0.226
			20:COM7	16:COM3	20:COM7	28:COM15	20:COM7	20:COM7
			-0.151	0.000	-0.013	-0.196	-0.014	-0.034
			30:COM17	-	30:COM17	22:COM9	30:COM17	30:COM17
16034	6403	+ve	0.114	0.000	0.008	0.000	0.008	0.271
			28:COM15	-	24:COM11	-	20:COM7	20:COM7
			-0.130	-0.787	-0.008	-0.232	-0.008	0.000
			22:COM9	22:COM9	18:COM5	22:COM9	30:COM17	-
	6390	-ve	0.114	0.000	0.008	0.000	0.009	2.041
			28:COM15	-	24:COM11	-	24:COM11	16:COM3
			-0.130	-1.133	-0.008	-0.232	-0.008	0.000
			22:COM9	22:COM9	18:COM5	22:COM9	18:COM5	-
16035	6404	+ve	0.179	0.000	0.010	0.204	0.008	0.229
			20:COM7	-	20:COM7	20:COM7	28:COM15	20:COM7
			-0.157	-0.864	-0.008	-0.019	-0.010	-0.037
			30:COM17	18:COM5	30:COM17	30:COM17	22:COM9	30:COM17
	6393	-ve	0.179	0.000	0.010	0.204	0.010	2.149
			20:COM7	-	20:COM7	20:COM7	20:COM7	16:COM3
			-0.157	-1.210	-0.008	-0.019	-0.008	0.000
			30:COM17	18:COM5	30:COM17	30:COM17	30:COM17	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
16036	6405	+ve	0.435	1.530	0.010	0.021	0.007	0.318
			20:COM7	16:COM3	16:COM3	24:COM1	24:COM1	24:COM1
			-0.231	-0.095	-0.007	-0.047	-0.010	-1.425
			30:COM1	26:COM1	26:COM1	18:COM5	18:COM5	18:COM5
	6406	-ve	0.435	1.193	0.010	0.021	0.010	0.000
			20:COM7	16:COM3	16:COM3	24:COM1	16:COM3	-
			-0.231	-0.348	-0.007	-0.047	-0.007	-2.556
			30:COM1	26:COM1	26:COM1	18:COM5	26:COM1	18:COM5
16037	6406	+ve	0.483	0.194	0.011	0.205	0.008	0.000
			20:COM7	20:COM7	16:COM3	20:COM7	24:COM1	-
			-0.140	-0.469	-0.008	0.000	-0.010	-2.481
			30:COM1	30:COM1	26:COM1	-	18:COM5	18:COM5
	6399	-ve	0.483	0.000	0.011	0.205	0.011	0.332
			20:COM7	-	16:COM3	20:COM7	16:COM3	24:COM1
			-0.140	-0.763	-0.008	0.000	-0.008	-2.358
			30:COM1	22:COM9	26:COM1	-	26:COM1	18:COM5
16038	6407	+ve	0.645	0.000	0.011	0.048	0.007	0.000
			20:COM7	-	16:COM3	20:COM7	24:COM1	-
			-0.405	-1.414	-0.007	-0.019	-0.010	-2.175
			30:COM1	18:COM5	26:COM1	30:COM1	18:COM5	18:COM5
	6408	-ve	0.645	0.000	0.011	0.048	0.010	0.952
			20:COM7	-	16:COM3	20:COM7	16:COM3	16:COM3
			-0.405	-1.751	-0.007	-0.019	-0.007	-0.201
			30:COM1	18:COM5	26:COM1	30:COM1	26:COM1	26:COM1
16039	6408	+ve	0.616	0.000	0.010	0.224	0.007	1.139
			20:COM7	-	16:COM3	20:COM7	24:COM1	16:COM3
			-0.271	-2.010	-0.007	0.000	-0.010	-0.143
			30:COM1	35:CVOL4	26:COM1	-	18:COM5	26:COM1
	6394	-ve	0.616	0.000	0.010	0.224	0.010	5.159
			20:COM7	-	16:COM3	20:COM7	20:COM7	16:COM3
			-0.271	-2.347	-0.007	0.000	-0.007	0.000
			30:COM1	35:CVOL4	26:COM1	-	30:COM1	-
16040	6409	+ve	0.649	1.766	0.010	0.012	0.008	0.932
			20:COM7	16:COM3	20:COM7	24:COM1	28:COM1	16:COM3
			-0.360	0.000	-0.009	-0.060	-0.009	-0.259
			30:COM1	-	30:COM1	18:COM5	22:COM9	26:COM1
	6410	-ve	0.649	1.429	0.010	0.012	0.010	0.000
			20:COM7	16:COM3	20:COM7	24:COM1	20:COM7	-
			-0.360	-0.044	-0.009	-0.060	-0.009	-2.207
			30:COM1	26:COM1	30:COM1	18:COM5	30:COM1	18:COM5
16041	6410	+ve	0.630	0.437	0.007	0.196	0.009	0.000
			16:COM3	20:COM7	28:COM1	20:COM7	20:COM7	-
			-0.132	-0.268	-0.010	0.000	-0.007	-2.147
			26:COM1	30:COM1	22:COM9	-	30:COM1	18:COM5
	6400	-ve	0.630	0.099	0.007	0.196	0.007	0.176
			16:COM3	20:COM7	28:COM1	20:COM7	28:COM1	24:COM1
			-0.132	-0.521	-0.010	0.000	-0.010	-2.363
			26:COM1	30:COM1	22:COM9	-	22:COM9	18:COM5

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
16042	6411	+ve	0.386	0.307	0.011	0.067	0.010	0.000
			20:COM7	24:COM11	20:COM7	20:COM7	28:COM15	-
			-0.118	-1.160	-0.011	-0.042	-0.011	-2.439
			30:COM17	18:COM5	30:COM17	30:COM17	22:COM9	18:COM5
	6412	-ve	0.386	0.054	0.011	0.067	0.011	0.345
			20:COM7	24:COM11	20:COM7	20:COM7	20:COM7	24:COM17
			-0.118	-1.497	-0.011	-0.042	-0.010	-1.317
			30:COM17	18:COM5	30:COM17	30:COM17	30:COM17	18:COM5
16043	6412	+ve	0.353	0.000	0.009	0.210	0.009	0.490
			16:COM3	-	20:COM7	20:COM7	28:COM15	24:COM17
			0.000	-1.653	-0.010	0.000	-0.009	-1.209
			-	18:COM5	30:COM17	-	22:COM9	18:COM5
	6395	-ve	0.353	0.000	0.009	0.210	0.009	3.879
			16:COM3	-	20:COM7	20:COM7	28:COM15	16:COM3
			0.000	-1.990	-0.010	0.000	-0.010	0.000
			-	18:COM5	30:COM17	-	22:COM9	-
16044	6413	+ve	0.256	1.329	0.009	0.085	0.006	0.228
			20:COM7	16:COM3	16:COM3	16:COM3	24:COM11	24:COM17
			-0.234	0.000	-0.006	-0.027	-0.009	-1.258
			30:COM17	-	26:COM13	26:COM13	18:COM5	18:COM5
	6414	-ve	0.256	0.992	0.009	0.085	0.009	0.000
			20:COM7	16:COM3	16:COM3	16:COM3	16:COM3	-
			-0.234	-0.185	-0.006	-0.027	-0.006	-2.266
			30:COM17	26:COM13	26:COM13	26:COM13	26:COM13	18:COM5
16045	6414	+ve	0.332	0.349	0.013	0.000	0.006	0.000
			20:COM7	20:COM7	16:COM3	-	24:COM11	-
			-0.149	-0.483	-0.006	-0.142	-0.012	-2.201
			30:COM17	30:COM17	26:COM13	22:COM9	18:COM5	18:COM5
	6397	-ve	0.332	0.065	0.013	0.000	0.013	0.138
			20:COM7	28:COM15	16:COM3	-	16:COM3	28:COM15
			-0.149	-0.789	-0.006	-0.142	-0.006	-2.319
			30:COM17	22:COM9	26:COM13	22:COM9	26:COM13	22:COM9
16046	6415	+ve	0.497	0.000	0.010	0.000	0.006	0.000
			20:COM7	-	20:COM7	-	24:COM11	-
			-0.427	-1.225	-0.006	-0.101	-0.010	-1.817
			30:COM17	18:COM5	30:COM17	18:COM5	18:COM5	18:COM5
	6416	-ve	0.497	0.000	0.010	0.000	0.010	0.985
			20:COM7	-	20:COM7	-	20:COM7	20:COM7
			-0.427	-1.562	-0.006	-0.101	-0.006	0.000
			30:COM17	18:COM5	30:COM17	18:COM5	30:COM17	-
16047	6416	+ve	0.446	0.000	0.010	0.000	0.006	1.207
			20:COM7	-	20:COM7	-	24:COM11	20:COM7
			-0.321	-1.642	-0.006	-0.240	-0.010	0.000
			30:COM17	18:COM5	30:COM17	18:COM5	18:COM5	-
	6391	-ve	0.446	0.000	0.010	0.000	0.010	4.549
			20:COM7	-	20:COM7	-	20:COM7	16:COM3
			-0.321	-1.979	-0.006	-0.240	-0.006	0.000
			30:COM17	18:COM5	30:COM17	18:COM5	30:COM17	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
16048	6417	+ve	0.416	1.646	0.009	0.094	0.008	0.999
			20:COM7	16:COM3	20:COM7	16:COM3	28:COM15	16:COM3
			-0.428	0.000	-0.008	-0.006	-0.009	-0.042
			30:COM17	-	30:COM17	26:COM13	22:COM9	26:COM13
	6418	-ve	0.416	1.309	0.009	0.094	0.009	0.000
			20:COM7	16:COM3	20:COM7	16:COM3	20:COM7	-
			-0.428	0.000	-0.008	-0.006	-0.009	-1.920
			30:COM17	-	30:COM17	26:COM13	30:COM17	18:COM5
16049	6418	+ve	0.280	0.643	0.010	0.000	0.007	0.000
			20:COM7	20:COM7	20:COM7	-	28:COM15	-
			-0.166	-0.239	-0.007	-0.157	-0.009	-1.859
			30:COM17	30:COM17	30:COM17	18:COM5	22:COM9	18:COM5
	6398	-ve	0.280	0.306	0.010	0.000	0.010	0.000
			20:COM7	20:COM7	20:COM7	-	20:COM7	-
			-0.166	-0.492	-0.007	-0.157	-0.008	-2.463
			30:COM17	30:COM17	30:COM17	18:COM5	30:COM17	18:COM5
16050	6419	+ve	0.183	0.221	0.012	0.020	0.010	0.000
			28:COM15	24:COM11	20:COM7	24:COM11	28:COM15	-
			-0.245	-1.109	-0.010	-0.083	-0.011	-2.343
			22:COM9	18:COM5	30:COM17	18:COM5	22:COM9	18:COM5
	6420	-ve	0.183	0.000	0.012	0.020	0.011	0.352
			28:COM15	-	20:COM7	24:COM11	20:COM7	24:COM11
			-0.245	-1.446	-0.010	-0.083	-0.010	-1.208
			22:COM9	18:COM5	30:COM17	18:COM5	30:COM17	18:COM5
16051	6420	+ve	0.161	0.000	0.011	0.000	0.008	0.484
			16:COM3	-	20:COM7	-	28:COM15	24:COM11
			-0.041	-1.517	-0.009	-0.181	-0.011	-1.081
			26:COM13	18:COM5	30:COM17	18:COM5	22:COM9	18:COM5
	6392	-ve	0.161	0.000	0.011	0.000	0.011	3.574
			16:COM3	-	20:COM7	-	20:COM7	16:COM3
			-0.041	-1.854	-0.009	-0.181	-0.009	0.000
			26:COM13	18:COM5	30:COM17	18:COM5	30:COM17	-
16052	6403	+ve	0.770	0.787	0.000	0.271	0.048	0.232
			28:COM15	20:COM7	-	20:COM7	16:COM3	20:COM7
			-0.856	0.000	-0.071	0.000	0.000	0.000
			22:COM9	-	22:COM9	-	-	-
	6465	-ve	0.770	0.000	0.000	0.271	0.003	0.796
			28:COM15	-	-	20:COM7	28:COM15	20:COM7
			-0.856	-1.168	-0.071	0.000	-0.054	-0.053
			22:COM9	22:COM9	22:COM9	-	22:COM9	30:COM17
16053	6401	+ve	0.705	0.790	0.084	0.000	0.005	0.253
			28:COM15	16:COM3	20:COM7	-	28:COM15	20:COM7
			-0.795	0.000	-0.015	-0.282	-0.053	0.000
			22:COM9	-	30:COM17	22:COM9	22:COM9	-
	6464	-ve	0.705	0.000	0.084	0.000	0.065	0.657
			28:COM15	-	20:COM7	-	20:COM7	16:COM3
			-0.795	-1.092	-0.015	-0.282	-0.016	0.000
			22:COM9	18:COM5	30:COM17	22:COM9	30:COM17	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
16054	6413	+ve	1.302	0.626	0.003	0.000	0.039	0.171
			20:COM7	20:COM7	24:COM11	-	16:COM3	16:COM3
			-1.229	-0.138	-0.057	-0.200	-0.002	0.000
			30:COM17	30:COM17	18:COM5	22:COM9	26:COM13	-
	6466	-ve	1.302	0.000	0.003	0.000	0.002	1.823
			20:COM7	-	24:COM11	-	24:COM11	20:COM7
			-1.229	-2.367	-0.057	-0.200	-0.041	0.000
			30:COM17	22:COM9	18:COM5	22:COM9	18:COM5	-
16055	6414	+ve	1.186	0.924	0.010	0.152	0.035	0.217
			28:COM15	20:COM7	24:COM11	20:COM7	16:COM3	16:COM3
			-1.246	0.000	-0.052	0.000	-0.007	0.000
			22:COM9	-	18:COM5	-	26:COM13	-
	6467	-ve	1.186	0.000	0.010	0.152	0.006	1.442
			28:COM15	-	24:COM11	20:COM7	24:COM11	20:COM7
			-1.246	-2.091	-0.052	0.000	-0.038	0.000
			22:COM9	22:COM9	18:COM5	-	18:COM5	-
16056	6415	+ve	1.182	0.929	0.022	0.000	0.026	0.238
			28:COM15	16:COM3	24:COM11	-	16:COM3	16:COM3
			-1.186	0.000	-0.037	-0.137	-0.016	0.000
			22:COM9	-	18:COM5	22:COM9	26:COM13	-
	6468	-ve	1.182	0.000	0.022	0.000	0.016	1.279
			28:COM15	-	24:COM11	-	28:COM15	20:COM7
			-1.186	-1.960	-0.037	-0.137	-0.026	0.000
			22:COM9	18:COM5	18:COM5	22:COM9	22:COM9	-
16057	6416	+ve	1.166	0.575	0.023	0.226	0.024	0.207
			28:COM15	20:COM7	24:COM11	20:COM7	16:COM3	16:COM3
			-1.190	-0.170	-0.034	0.000	-0.017	0.000
			22:COM9	30:COM17	18:COM5	-	26:COM13	-
	6469	-ve	1.166	0.000	0.023	0.226	0.016	1.908
			28:COM15	-	24:COM11	20:COM7	24:COM11	20:COM7
			-1.190	-2.414	-0.034	0.000	-0.025	0.000
			22:COM9	22:COM9	18:COM5	-	18:COM5	-
16058	6417	+ve	1.128	0.530	0.037	0.000	0.021	0.201
			28:COM15	16:COM3	20:COM7	-	24:COM11	20:COM7
			-1.159	-0.125	-0.033	-0.219	-0.024	0.000
			22:COM9	26:COM13	30:COM17	22:COM9	18:COM5	-
	6470	-ve	1.128	0.000	0.037	0.000	0.029	1.842
			28:COM15	-	20:COM7	-	20:COM7	20:COM7
			-1.159	-2.371	-0.033	-0.219	-0.026	0.000
			22:COM9	18:COM5	30:COM17	22:COM9	30:COM17	-
16059	6418	+ve	1.157	1.034	0.036	0.134	0.021	0.244
			20:COM7	20:COM7	16:COM3	20:COM7	24:COM11	16:COM3
			-1.145	0.000	-0.030	0.000	-0.026	0.000
			30:COM17	-	26:COM13	-	18:COM5	-
	6471	-ve	1.157	0.000	0.036	0.134	0.024	1.316
			20:COM7	-	16:COM3	20:COM7	16:COM3	20:COM7
			-1.145	-1.993	-0.030	0.000	-0.020	0.000
			30:COM17	22:COM9	26:COM13	-	26:COM13	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
16060	6419	+ve	1.091	0.922	0.064	0.002	0.017	0.215
			28:COM15	16:COM3	20:COM7	28:COM15	28:COM15	16:COM3
			-1.139	0.000	-0.030	-0.155	-0.041	0.000
			22:COM9	-	30:COM17	22:COM9	22:COM9	-
	6472	-ve	1.091	0.000	0.064	0.002	0.049	1.387
			28:COM15	-	20:COM7	28:COM15	20:COM7	16:COM3
			-1.139	-2.077	-0.030	-0.155	-0.025	0.000
			22:COM9	18:COM5	30:COM17	22:COM9	30:COM17	-
16061	6420	+ve	1.222	0.663	0.059	0.197	0.007	0.172
			20:COM7	20:COM7	16:COM3	20:COM7	24:COM11	16:COM3
			-1.141	-0.191	-0.010	0.000	-0.041	0.000
			30:COM17	30:COM17	26:COM13	-	18:COM5	-
	6473	-ve	1.222	0.000	0.059	0.197	0.042	1.896
			20:COM7	-	16:COM3	20:COM7	16:COM3	20:COM7
			-1.141	-2.425	-0.010	0.000	-0.008	0.000
			30:COM17	22:COM9	26:COM13	-	26:COM13	-
16076	1729	+ve	1.950	6.112	0.098	0.431	0.000	19.819
			28:COM15	16:COM3	16:COM3	16:COM3	-	16:COM3
			-4.891	0.000	0.000	0.000	-0.100	-0.406
			22:COM9	-	-	-	18:COM5	26:COM13
	1842	-ve	1.950	3.682	0.098	0.431	0.092	14.596
			28:COM15	16:COM3	16:COM3	16:COM3	16:COM3	16:COM3
			-4.891	0.000	0.000	0.000	0.000	-7.800
			22:COM9	-	-	-	-	26:COM13
16077	1935	+ve	0.581	13.927	0.653	0.000	1.338	26.884
			20:COM7	15:COM2	16:COM3	34:CVOL3	16:COM3	15:COM2
			-0.581	0.000	-0.653	0.000	-1.338	0.000
			22:COM9	-	18:COM5	-	18:COM5	-
	6422	-ve	0.581	12.301	0.653	0.000	0.000	0.000
			20:COM7	15:COM2	16:COM3	34:CVOL3	35:CVOL4	35:CVOL4
			-0.581	0.000	-0.653	0.000	-0.000	0.000
			22:COM9	-	18:COM5	-	32:CVOL1	-
16078	6423	+ve	16.516	0.000	1.951	5.491	0.543	0.000
			16:COM3	-	24:COM11	35:CVOL4	24:COM11	-
			-15.979	-6.138	-1.995	0.000	-0.577	-34.354
			26:COM13	34:CVOL3	18:COM5	-	18:COM5	34:CVOL3
	961	-ve	16.516	0.000	1.951	5.491	2.775	0.000
			16:COM3	-	24:COM11	35:CVOL4	24:COM11	-
			-15.979	-7.607	-1.995	0.000	-2.885	-22.710
			26:COM13	34:CVOL3	18:COM5	-	18:COM5	35:CVOL4
16079	6423	+ve	6.653	6.820	0.304	6.918	0.199	0.000
			16:COM3	20:COM7	28:COM15	35:CVOL4	20:COM7	-
			-5.832	-0.060	-0.345	0.000	-0.186	-11.928
			26:COM13	30:COM17	22:COM9	-	30:COM17	22:COM9
	6433	-ve	6.653	4.248	0.304	6.918	0.193	0.000
			16:COM3	20:COM7	28:COM15	35:CVOL4	28:COM15	-
			-5.832	-1.989	-0.345	0.000	-0.229	-17.017
			26:COM13	30:COM17	22:COM9	-	22:COM9	35:CVOL4

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
16080	960	+ve	33.496	28.225	3.738	0.000	3.168	34.054
			16:COM3	35:CVOL4	24:COM11	-	16:COM3	16:COM3
			-25.251	0.000	-3.892	-11.839	-2.756	0.000
			26:COM13	-	18:COM5	34:CVOL3	26:COM13	-
	6428	-ve	33.496	26.173	3.738	0.000	4.712	0.000
			16:COM3	35:CVOL4	24:COM11	-	16:COM3	-
			-25.251	0.000	-3.892	-11.839	-4.604	-21.761
			26:COM13	-	18:COM5	34:CVOL3	26:COM13	18:COM5
16081	6424	+ve	23.384	3.507	3.617	6.521	1.401	0.000
			16:COM3	16:COM3	20:COM7	16:COM3	28:COM15	-
			-16.184	-0.462	-1.506	0.000	-3.034	-48.736
			26:COM13	26:COM13	30:COM17	-	22:COM9	35:CVOL4
	6427	-ve	23.384	2.178	3.617	6.521	1.633	0.000
			16:COM3	16:COM3	20:COM7	16:COM3	20:COM7	-
			-16.184	-1.459	-1.506	0.000	-0.564	-51.286
			26:COM13	26:COM13	30:COM17	-	30:COM17	35:CVOL4
16082	6424	+ve	11.731	6.326	0.279	0.178	0.291	0.000
			24:COM11	35:CVOL4	16:COM3	28:COM15	24:COM11	-
			-14.430	0.000	-0.183	-0.137	-0.440	-16.222
			18:COM5	-	26:COM13	22:COM9	18:COM5	34:CVOL3
	6432	-ve	11.731	0.000	0.279	0.178	0.396	0.000
			24:COM11	-	16:COM3	28:COM15	16:COM3	-
			-14.430	-10.945	-0.183	-0.137	-0.257	-9.381
			18:COM5	34:CVOL3	26:COM13	22:COM9	26:COM13	22:COM9
16083	6425	+ve	3.329	3.093	0.033	0.000	0.063	0.000
			16:COM3	20:COM7	16:COM3	-	24:COM11	-
			-2.802	0.000	-0.031	-0.675	-0.069	-5.618
			26:COM13	-	26:COM13	35:CVOL4	18:COM5	22:COM9
	6017	-ve	3.329	0.000	0.033	0.000	0.062	9.816
			16:COM3	-	16:COM3	-	16:COM3	34:CVOL3
			-2.802	-10.021	-0.031	-0.675	-0.061	0.000
			26:COM13	34:CVOL3	26:COM13	35:CVOL4	26:COM13	-
16084	6426	+ve	3.608	2.570	0.037	0.000	0.107	0.000
			16:COM3	35:CVOL4	24:COM11	-	16:COM3	-
			-4.041	0.000	-0.046	-1.722	-0.085	-11.945
			26:COM13	-	18:COM5	35:CVOL4	26:COM13	22:COM9
	6016	-ve	3.608	0.000	0.037	0.000	0.090	14.165
			16:COM3	-	24:COM11	-	24:COM11	34:CVOL3
			-4.041	-13.343	-0.046	-1.722	-0.110	0.000
			26:COM13	34:CVOL3	18:COM5	35:CVOL4	18:COM5	-
16085	6427	+ve	1.607	1.916	0.100	0.000	0.127	0.000
			28:COM15	20:COM7	16:COM3	-	24:COM11	-
			-3.480	-0.087	-0.086	-0.429	-0.143	-14.143
			22:COM9	30:COM17	26:COM13	22:COM9	18:COM5	34:CVOL3
	6432	-ve	1.607	0.000	0.100	0.000	0.127	0.000
			28:COM15	-	16:COM3	-	16:COM3	-
			-3.480	-6.598	-0.086	-0.429	-0.105	-7.506
			22:COM9	34:CVOL3	26:COM13	22:COM9	26:COM13	35:CVOL4

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
16088	6430	+ve	4.202	1.407	0.026	0.000	0.043	0.000
			16:COM3	20:COM7	24:COM11	-	16:COM3	-
			-3.645	-1.243	-0.029	-0.254	-0.039	-5.008
			26:COM13	30:COM17	18:COM5	18:COM5	26:COM13	22:COM9
	6018	-ve	4.202	0.000	0.026	0.000	0.045	11.549
			16:COM3	-	24:COM11	-	24:COM11	20:COM7
			-3.645	-10.029	-0.029	-0.254	-0.050	0.000
			26:COM13	34:CVOL3	18:COM5	18:COM5	18:COM5	-
16089	6429	+ve	33.569	9.916	3.511	0.000	1.511	0.000
			16:COM3	16:COM3	24:COM11	-	16:COM3	-
			-29.840	0.000	-2.217	-9.471	-1.374	-49.922
			26:COM13	-	18:COM5	22:COM9	26:COM13	35:CVOL4
	6424	-ve	33.569	9.274	3.511	0.000	2.206	0.000
			16:COM3	16:COM3	24:COM11	-	20:COM7	-
			-29.840	0.000	-2.217	-9.471	-1.268	-55.683
			26:COM13	-	18:COM5	22:COM9	30:COM17	35:CVOL4
16090	6428	+ve	19.819	20.516	8.556	0.000	3.121	0.000
			16:COM3	35:CVOL4	24:COM11	-	24:COM11	-
			-16.143	0.000	-7.997	-13.820	-3.374	-21.747
			26:COM13	-	18:COM5	18:COM5	18:COM5	18:COM5
	6431	-ve	19.819	19.984	8.556	0.000	1.073	0.000
			16:COM3	35:CVOL4	24:COM11	-	24:COM11	-
			-16.143	0.000	-7.997	-13.820	-1.040	-30.875
			26:COM13	-	18:COM5	18:COM5	18:COM5	35:CVOL4
16091	6430	+ve	32.390	0.000	0.920	0.000	1.372	29.118
			16:COM3	-	24:COM11	-	16:COM3	20:COM7
			-32.784	-7.334	-1.379	-14.452	-0.958	0.000
			26:COM13	18:COM5	18:COM5	18:COM5	26:COM13	-
	6019	-ve	32.390	0.000	0.920	0.000	0.863	41.063
			16:COM3	-	24:COM11	-	24:COM11	20:COM7
			-32.784	-9.382	-1.379	-14.452	-1.354	0.000
			26:COM13	18:COM5	18:COM5	18:COM5	18:COM5	-
16092	6425	+ve	27.060	0.000	1.527	9.564	0.773	0.000
			16:COM3	-	20:COM7	20:COM7	24:COM11	-
			-25.706	-19.482	-0.021	-1.376	-2.620	-16.886
			26:COM13	35:CVOL4	30:COM17	30:COM17	18:COM5	18:COM5
	6430	-ve	27.060	0.000	1.527	9.564	1.259	30.435
			16:COM3	-	20:COM7	20:COM7	16:COM3	20:COM7
			-25.706	-21.534	-0.021	-1.376	-0.129	0.000
			26:COM13	35:CVOL4	30:COM17	30:COM17	26:COM13	-
16093	6426	+ve	33.602	0.000	2.990	11.617	0.890	0.000
			16:COM3	-	16:COM3	35:CVOL4	24:COM11	-
			-25.743	-12.464	-1.204	0.000	-2.145	-40.736
			26:COM13	35:CVOL4	26:COM13	-	18:COM5	35:CVOL4
	6425	-ve	33.602	0.000	2.990	11.617	3.770	0.000
			16:COM3	-	16:COM3	35:CVOL4	16:COM3	-
			-25.743	-14.515	-1.204	0.000	-1.494	-16.407
			26:COM13	35:CVOL4	26:COM13	-	26:COM13	18:COM5

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
16094	6427	+ve	30.983	0.000	0.948	11.056	0.438	0.000
			16:COM3	-	16:COM3	35:CVOL4	24:COM11	-
			-21.519	-5.287	-0.587	0.000	-0.961	-51.165
			26:COM13	18:COM5	26:COM13	-	18:COM5	35:CVOL4
	6426	-ve	30.983	0.000	0.948	11.056	0.926	0.000
			16:COM3	-	16:COM3	35:CVOL4	16:COM3	-
			-21.519	-7.339	-0.587	0.000	-0.736	-39.674
			26:COM13	18:COM5	26:COM13	-	26:COM13	35:CVOL4
16095	6431	+ve	17.583	16.798	1.232	1.354	1.037	0.000
			16:COM3	34:CVOL3	20:COM7	24:COM11	28:COM15	-
			-11.927	0.000	-0.919	-2.975	-1.415	-25.357
			26:COM13	-	30:COM17	18:COM5	22:COM9	18:COM5
	6429	-ve	17.583	15.199	1.232	1.354	1.403	0.000
			16:COM3	34:CVOL3	20:COM7	24:COM11	16:COM3	-
			-11.927	0.000	-0.919	-2.975	-1.299	-49.957
			26:COM13	-	30:COM17	18:COM5	26:COM13	35:CVOL4
16096	6431	+ve	1.264	3.200	0.005	0.095	0.014	0.000
			20:COM7	35:CVOL4	24:COM11	16:COM3	16:COM3	-
			-1.453	-0.043	-0.006	-0.025	-0.014	-13.003
			30:COM17	30:COM17	18:COM5	26:COM13	26:COM13	22:COM9
	6008	-ve	1.264	0.000	0.005	0.095	0.021	28.154
			20:COM7	-	24:COM11	16:COM3	24:COM11	34:CVOL3
			-1.453	-15.929	-0.006	-0.025	-0.024	0.000
			30:COM17	34:CVOL3	18:COM5	26:COM13	18:COM5	-
16097	6432	+ve	3.922	0.000	0.320	0.000	0.458	0.000
			28:COM15	-	24:COM11	-	16:COM3	-
			-6.895	-17.543	-0.408	-3.536	-0.373	-15.894
			22:COM9	34:CVOL3	18:COM5	35:CVOL4	26:COM13	34:CVOL3
	5995	-ve	3.922	0.000	0.320	0.000	0.468	50.092
			28:COM15	-	24:COM11	-	24:COM11	34:CVOL3
			-6.895	-32.669	-0.408	-3.536	-0.615	0.000
			22:COM9	34:CVOL3	18:COM5	35:CVOL4	18:COM5	-
16113	6433	+ve	5.340	0.000	0.316	0.000	0.028	0.000
			16:COM3	-	16:COM3	-	28:COM15	-
			-4.915	-6.183	-0.269	-1.362	-0.044	-3.600
			26:COM13	22:COM9	26:COM13	35:CVOL4	22:COM9	22:COM9
	961	-ve	5.340	0.000	0.316	0.000	0.158	1.316
			16:COM3	-	16:COM3	-	16:COM3	20:COM7
			-4.915	-7.504	-0.269	-1.362	-0.148	-0.585
			26:COM13	22:COM9	26:COM13	35:CVOL4	26:COM13	30:COM17
16114	6433	+ve	7.304	0.379	0.080	2.761	0.150	0.000
			16:COM3	28:COM15	20:COM7	35:CVOL4	28:COM15	-
			-6.318	-1.928	-0.072	0.000	-0.168	-8.215
			26:COM13	34:CVOL3	30:COM17	-	22:COM9	35:CVOL4
	5993	-ve	7.304	0.000	0.080	2.761	0.202	22.801
			16:COM3	-	20:COM7	35:CVOL4	20:COM7	20:COM7
			-6.318	-11.511	-0.072	0.000	-0.185	0.000
			26:COM13	34:CVOL3	30:COM17	-	30:COM17	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
16115	6434	+ve	0.000	12.747	3.385	12.074	1.091	12.144
			-	28:COM15	24:COM11	24:COM11	16:COM3	20:COM7
			-17.775	-66.472	-7.718	-19.488	-1.298	-0.587
			22:COM9	22:COM9	18:COM5	18:COM5	26:COM13	30:COM17
	3961	-ve	0.000	11.590	3.385	12.074	3.034	54.969
			-	28:COM15	24:COM11	24:COM11	24:COM11	20:COM7
			-17.775	-68.695	-7.718	-19.488	-6.187	-5.729
			22:COM9	22:COM9	18:COM5	18:COM5	18:COM5	30:COM17
16116	6435	+ve	0.000	15.737	6.203	16.389	1.010	9.652
			-	28:COM15	16:COM3	24:COM11	24:COM11	20:COM7
			-19.238	-75.485	-5.732	-17.035	-1.171	-0.368
			35:CVOL4	22:COM9	26:COM13	18:COM5	18:COM5	30:COM17
	3962	-ve	0.000	14.580	6.203	16.389	4.803	58.545
			-	28:COM15	16:COM3	24:COM11	16:COM3	20:COM7
			-19.238	-77.708	-5.732	-17.035	-4.645	-7.483
			35:CVOL4	22:COM9	26:COM13	18:COM5	26:COM13	30:COM17
16117	6436	+ve	0.000	60.340	5.110	11.221	0.494	16.565
			-	28:COM15	16:COM3	24:COM11	24:COM11	20:COM7
			-27.038	-116.417	-2.508	-17.754	-1.872	0.000
			22:COM9	22:COM9	26:COM13	18:COM5	18:COM5	-
	3963	-ve	0.000	59.065	5.110	11.221	3.294	89.447
			-	28:COM15	16:COM3	24:COM11	24:COM11	20:COM7
			-27.038	-118.797	-2.508	-17.754	-2.903	-30.816
			22:COM9	22:COM9	26:COM13	18:COM5	18:COM5	30:COM17
16118	6437	+ve	4.102	0.000	7.433	12.093	2.625	0.000
			28:COM15	-	24:COM11	24:COM11	16:COM3	-
			-18.617	-24.752	-8.153	-12.474	-2.428	-16.319
			22:COM9	22:COM9	18:COM5	18:COM5	26:COM13	22:COM9
	4122	-ve	3.873	0.000	7.433	12.093	2.787	7.320
			28:COM15	-	24:COM11	24:COM11	24:COM11	28:COM15
			-19.073	-26.819	-8.153	-12.474	-3.091	-0.286
			22:COM9	22:COM9	18:COM5	18:COM5	18:COM5	22:COM9
16119	6438	+ve	3.676	0.000	7.887	12.374	2.336	0.000
			28:COM15	-	16:COM3	16:COM3	24:COM11	-
			-16.267	-23.978	-7.151	-11.735	-2.411	-15.763
			22:COM9	22:COM9	26:COM13	26:COM13	18:COM5	22:COM9
	4117	-ve	3.447	0.000	7.887	12.374	3.102	6.033
			28:COM15	-	16:COM3	16:COM3	16:COM3	28:COM15
			-16.723	-26.044	-7.151	-11.735	-2.665	0.000
			22:COM9	22:COM9	26:COM13	26:COM13	26:COM13	-
16120	6439	+ve	2.982	6.079	0.920	1.468	0.344	3.283
			28:COM15	35:CVOL4	24:COM11	16:COM3	16:COM3	20:COM7
			-3.158	0.000	-1.070	-1.335	-0.269	0.000
			22:COM9	-	18:COM5	26:COM13	26:COM13	-
	6394	-ve	2.982	4.674	0.920	1.468	0.372	0.000
			28:COM15	35:CVOL4	24:COM11	16:COM3	24:COM11	-
			-3.158	0.000	-1.070	-1.335	-0.399	-0.472
			22:COM9	-	18:COM5	26:COM13	18:COM5	22:COM9

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
16121	6440	+ve	3.341	4.532	0.080	1.589	0.423	2.440
			28:COM15	16:COM3	24:COM11	16:COM3	20:COM7	20:COM7
			-3.575	0.000	-1.434	-0.691	-0.091	0.000
			22:COM9	-	18:COM5	26:COM13	30:COM17	-
	6395	-ve	3.341	3.209	0.080	1.589	0.034	0.000
			28:COM15	16:COM3	24:COM11	16:COM3	24:COM11	-
			-3.575	0.000	-1.434	-0.691	-0.624	-0.400
			22:COM9	-	18:COM5	26:COM13	18:COM5	22:COM9
16122	6441	+ve	3.682	4.544	1.512	0.705	0.111	2.445
			28:COM15	16:COM3	16:COM3	24:COM17	24:COM11	20:COM7
			-4.099	0.000	-0.189	-1.704	-0.391	0.000
			22:COM9	-	26:COM13	18:COM5	18:COM5	-
	6393	-ve	3.682	3.221	1.512	0.705	0.656	0.000
			28:COM15	16:COM3	16:COM3	24:COM17	16:COM3	-
			-4.099	0.000	-0.189	-1.704	-0.037	-0.425
			22:COM9	-	26:COM13	18:COM5	26:COM13	22:COM9
16123	6442	+ve	2.764	2.451	1.376	1.767	0.417	1.094
			28:COM15	20:COM7	16:COM3	16:COM3	16:COM3	20:COM7
			-3.877	0.000	-1.218	-1.512	-0.396	0.000
			22:COM9	-	26:COM13	26:COM13	26:COM13	-
	6399	-ve	2.764	1.176	1.376	1.767	0.551	0.000
			28:COM15	28:COM15	16:COM3	16:COM3	16:COM3	-
			-3.877	0.000	-1.218	-1.512	-0.422	-0.417
			22:COM9	-	26:COM13	26:COM13	26:COM13	22:COM9
16124	6443	+ve	2.577	2.459	1.161	1.525	0.426	1.100
			28:COM15	20:COM7	24:COM11	24:COM17	16:COM3	20:COM7
			-4.296	0.000	-1.393	-1.736	-0.369	0.000
			22:COM9	-	18:COM5	18:COM5	26:COM13	-
	6400	-ve	2.577	1.180	1.161	1.525	0.439	0.000
			28:COM15	28:COM15	24:COM11	24:COM17	24:COM11	-
			-4.296	0.000	-1.393	-1.736	-0.541	-0.419
			22:COM9	-	18:COM5	18:COM5	18:COM5	22:COM9
16125	6444	+ve	0.000	55.760	2.220	14.328	2.049	49.208
			-	28:COM15	24:COM11	16:COM3	16:COM3	20:COM7
			-47.980	-77.482	-1.827	-10.868	-0.425	-45.813
			22:COM9	22:COM9	18:COM5	26:COM13	26:COM13	30:COM17
	3984	-ve	0.000	55.420	2.220	14.328	2.102	64.699
			-	28:COM15	24:COM11	16:COM3	16:COM3	20:COM7
			-47.980	-78.136	-1.827	-10.868	-0.399	-56.861
			22:COM9	22:COM9	18:COM5	26:COM13	26:COM13	30:COM17
16126	6445	+ve	0.000	56.730	3.244	15.860	1.886	55.176
			-	28:COM15	16:COM3	16:COM3	16:COM3	20:COM7
			-44.621	-101.790	-1.943	-11.677	-1.497	-49.327
			22:COM9	22:COM9	26:COM13	26:COM13	26:COM13	30:COM17
	3985	-ve	0.000	56.390	3.244	15.860	2.200	75.553
			-	28:COM15	16:COM3	16:COM3	16:COM3	20:COM7
			-44.621	-102.444	-1.943	-11.677	-1.551	-60.593
			22:COM9	22:COM9	26:COM13	26:COM13	26:COM13	30:COM17

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
16127	6446	+ve	16.063	242.177	3.206	26.380	0.456	124.027
			28:COM15	28:COM15	20:COM7	24:COM17	28:COM15	20:COM7
			-52.305	-262.705	-2.842	-27.151	-2.501	-123.901
			22:COM9	22:COM9	30:COM17	18:COM5	22:COM9	30:COM17
	3986	-ve	16.063	241.802	3.206	26.380	0.801	176.572
			28:COM15	28:COM15	20:COM7	24:COM17	28:COM15	20:COM7
			-52.305	-263.405	-2.842	-27.151	-2.772	-172.232
			22:COM9	22:COM9	30:COM17	18:COM5	22:COM9	30:COM17
16128	6447	+ve	2.699	7.805	0.545	1.237	2.357	7.176
			28:COM15	20:COM7	24:COM11	16:COM3	16:COM3	28:COM15
			-12.985	0.000	-0.562	-0.727	-2.152	-29.066
			22:COM9	-	18:COM5	26:COM13	26:COM13	22:COM9
	6437	-ve	2.699	0.000	0.545	1.237	0.484	3.319
			28:COM15	-	24:COM11	16:COM3	16:COM3	28:COM15
			-12.985	-10.374	-0.562	-0.727	-0.357	-14.908
			22:COM9	22:COM9	18:COM5	26:COM13	26:COM13	22:COM9
16129	6448	+ve	2.833	8.630	0.583	1.075	2.027	7.722
			28:COM15	20:COM7	16:COM3	24:COM17	24:COM11	28:COM15
			-10.834	0.000	-0.504	-1.125	-2.280	-25.583
			22:COM9	-	26:COM13	18:COM5	18:COM5	22:COM9
	6438	-ve	2.833	0.000	0.583	1.075	0.453	1.150
			28:COM15	-	16:COM3	24:COM17	16:COM3	28:COM15
			-10.834	-10.044	-0.504	-1.125	-0.338	-13.213
			22:COM9	22:COM9	26:COM13	18:COM5	26:COM13	22:COM9
16130	6449	+ve	0.469	8.289	0.043	0.211	0.032	11.293
			20:COM7	20:COM7	20:COM7	28:COM15	28:COM15	20:COM7
			-0.097	0.000	-0.019	-0.203	-0.131	-4.887
			30:COM17	-	30:COM17	22:COM9	22:COM9	30:COM17
	6441	-ve	0.469	0.531	0.043	0.211	0.076	8.477
			20:COM7	28:COM15	20:COM7	28:COM15	20:COM7	20:COM7
			-0.097	-7.155	-0.019	-0.203	-0.061	-6.620
			30:COM17	22:COM9	30:COM17	22:COM9	30:COM17	30:COM17
16131	6450	+ve	0.309	8.119	0.027	0.146	0.047	11.214
			20:COM7	20:COM7	20:COM7	20:COM7	28:COM15	20:COM7
			-0.123	0.000	-0.019	-0.036	-0.065	-3.477
			30:COM17	-	30:COM17	30:COM17	22:COM9	30:COM17
	6439	-ve	0.309	0.268	0.027	0.146	0.072	7.223
			20:COM7	28:COM15	20:COM7	20:COM7	16:COM3	20:COM7
			-0.123	-6.512	-0.019	-0.036	-0.053	-5.810
			30:COM17	22:COM9	30:COM17	30:COM17	26:COM13	30:COM17
16132	6451	+ve	0.587	8.291	0.031	0.267	0.177	11.469
			20:COM7	20:COM7	28:COM15	20:COM7	20:COM7	20:COM7
			-0.186	0.000	-0.059	-0.299	-0.067	-4.792
			30:COM17	-	22:COM9	30:COM17	30:COM17	30:COM17
	6440	-ve	0.587	0.503	0.031	0.267	0.079	8.124
			20:COM7	28:COM15	28:COM15	20:COM7	28:COM15	20:COM7
			-0.186	-7.041	-0.059	-0.299	-0.104	-6.399
			30:COM17	22:COM9	22:COM9	30:COM17	22:COM9	30:COM17

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
16133	6452	+ve	1.590	7.292	0.030	0.164	0.107	8.836
			20:COM7	20:COM7	28:COM15	28:COM15	20:COM7	20:COM7
			0.000	0.000	-0.041	-0.148	-0.072	-4.041
			-	-	22:COM9	22:COM9	30:COM17	30:COM17
	6443	-ve	1.590	0.000	0.030	0.164	0.073	7.236
			20:COM7	-	28:COM15	28:COM15	28:COM15	20:COM7
			0.000	-6.762	-0.041	-0.148	-0.087	-4.507
			-	22:COM9	22:COM9	22:COM9	22:COM9	30:COM17
16134	6453	+ve	1.506	7.578	0.037	0.041	0.026	9.458
			20:COM7	20:COM7	16:COM3	20:COM7	28:COM15	20:COM7
			0.000	0.000	-0.017	-0.048	-0.082	-3.772
			-	-	26:COM13	30:COM17	22:COM9	30:COM17
	6442	-ve	1.506	0.000	0.037	0.041	0.094	6.753
			20:COM7	-	16:COM3	20:COM7	16:COM3	20:COM7
			0.000	-6.545	-0.017	-0.048	-0.060	-4.958
			-	22:COM9	26:COM13	30:COM17	26:COM13	30:COM17
16135	6454	+ve	0.801	0.211	0.002	0.226	0.064	0.111
			28:COM15	16:COM3	24:COM11	20:COM7	16:COM3	28:COM15
			-0.882	-0.126	-0.170	-0.034	-0.006	-0.278
			22:COM9	26:COM13	18:COM5	30:COM17	26:COM13	22:COM9
	6402	-ve	0.801	0.000	0.002	0.226	0.000	0.196
			28:COM15	-	24:COM11	20:COM7	-	20:COM7
			-0.882	-0.848	-0.170	-0.034	-0.053	-0.012
			22:COM9	18:COM5	18:COM5	30:COM17	18:COM5	30:COM17
16136	6455	+ve	0.895	0.252	0.188	0.037	0.009	0.135
			28:COM15	16:COM3	16:COM3	28:COM15	24:COM11	28:COM15
			-0.992	-0.145	-0.012	-0.229	-0.070	-0.286
			22:COM9	26:COM13	26:COM13	22:COM9	18:COM5	22:COM9
	6404	-ve	0.895	0.000	0.188	0.037	0.059	0.204
			28:COM15	-	16:COM3	28:COM15	16:COM3	20:COM7
			-0.992	-0.864	-0.012	-0.229	0.000	-0.019
			22:COM9	18:COM5	26:COM13	22:COM9	-	30:COM17
16137	6456	+ve	1.503	1.041	0.157	0.217	0.015	0.500
			20:COM7	16:COM3	16:COM3	20:COM7	24:COM11	20:COM7
			-1.441	0.000	-0.031	0.000	-0.057	-0.147
			30:COM17	-	26:COM13	-	18:COM5	30:COM17
	6405	-ve	1.503	0.047	0.157	0.217	0.051	0.217
			20:COM7	24:COM11	16:COM3	20:COM7	16:COM3	20:COM7
			-1.441	-0.802	-0.031	0.000	-0.007	0.000
			30:COM17	18:COM5	26:COM13	-	26:COM13	-
16138	6457	+ve	1.398	0.896	0.153	0.000	0.032	0.357
			28:COM15	16:COM3	16:COM3	-	24:COM11	16:COM3
			-1.413	-0.146	-0.079	-0.189	-0.056	-0.235
			22:COM9	26:COM13	26:COM13	22:COM9	18:COM5	26:COM13
	6406	-ve	1.398	0.007	0.153	0.000	0.048	0.221
			28:COM15	24:COM11	16:COM3	-	16:COM3	20:COM7
			-1.413	-1.127	-0.079	-0.189	-0.022	0.000
			22:COM9	18:COM5	26:COM13	22:COM9	26:COM13	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
16139	6458	+ve	1.391	0.801	0.119	0.193	0.045	0.301
			20:COM7	16:COM3	16:COM3	20:COM7	24:COM11	28:COM15
			-1.389	-0.166	-0.115	-0.011	-0.043	-0.251
			30:COM17	26:COM13	26:COM13	30:COM17	18:COM5	22:COM9
	6407	-ve	1.391	0.000	0.119	0.193	0.038	0.216
			20:COM7	-	16:COM3	20:COM7	16:COM3	20:COM7
			-1.389	-1.176	-0.115	-0.011	-0.034	0.000
			30:COM17	18:COM5	26:COM13	30:COM17	26:COM13	-
16140	6459	+ve	1.351	0.992	0.104	0.000	0.042	0.437
			28:COM15	16:COM3	24:COM11	-	16:COM3	16:COM3
			-1.373	-0.013	-0.109	-0.195	-0.039	-0.158
			22:COM9	26:COM13	18:COM5	18:COM5	26:COM13	26:COM13
	6408	-ve	1.351	0.039	0.104	0.000	0.032	0.231
			28:COM15	24:COM11	24:COM11	-	24:COM11	20:COM7
			-1.373	-0.930	-0.109	-0.195	-0.033	0.000
			22:COM9	18:COM5	18:COM5	18:COM5	18:COM5	-
16141	6460	+ve	1.336	0.968	0.097	0.228	0.047	0.448
			28:COM15	16:COM3	24:COM11	20:COM7	16:COM3	20:COM7
			-1.360	-0.006	-0.122	0.000	-0.038	-0.175
			22:COM9	26:COM13	18:COM5	-	26:COM13	30:COM17
	6409	-ve	1.336	0.019	0.097	0.228	0.028	0.226
			28:COM15	24:COM11	24:COM11	20:COM7	24:COM11	20:COM7
			-1.360	-0.926	-0.122	0.000	-0.036	0.000
			22:COM9	18:COM5	18:COM5	-	18:COM5	-
16142	6461	+ve	1.318	0.842	0.097	0.000	0.043	0.339
			28:COM15	16:COM3	24:COM11	-	16:COM3	16:COM3
			-1.332	-0.188	-0.118	-0.167	-0.036	-0.263
			22:COM9	26:COM13	18:COM5	18:COM5	26:COM13	26:COM13
	6410	-ve	1.318	0.000	0.097	0.000	0.030	0.232
			28:COM15	-	24:COM11	-	24:COM11	20:COM7
			-1.332	-1.194	-0.118	-0.167	-0.038	0.000
			22:COM9	18:COM5	18:COM5	18:COM5	18:COM5	-
16143	6462	+ve	1.306	0.913	0.067	0.224	0.055	0.387
			28:COM15	16:COM3	24:COM11	20:COM7	16:COM3	20:COM7
			-1.327	-0.132	-0.144	-0.025	-0.028	-0.236
			22:COM9	26:COM13	18:COM5	30:COM17	26:COM13	30:COM17
	6411	-ve	1.306	0.015	0.067	0.224	0.018	0.218
			28:COM15	24:COM11	24:COM11	20:COM7	24:COM11	16:COM3
			-1.327	-1.104	-0.144	-0.025	-0.044	0.000
			22:COM9	18:COM5	18:COM5	30:COM17	18:COM5	-
16144	6463	+ve	1.375	1.019	0.013	0.000	0.049	0.462
			20:COM7	16:COM3	24:COM11	-	16:COM3	16:COM3
			-1.320	0.000	-0.136	-0.210	-0.006	-0.121
			30:COM17	-	18:COM5	18:COM5	26:COM13	26:COM13
	6412	-ve	1.375	0.031	0.013	0.000	0.003	0.228
			20:COM7	24:COM11	24:COM11	-	24:COM11	20:COM7
			-1.320	-0.812	-0.136	-0.210	-0.044	0.000
			30:COM17	18:COM5	18:COM5	18:COM5	18:COM5	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
16145	6441	+ve	2.060	9.515	0.057	0.000	0.220	16.085
			16:COM3	16:COM3	28:COM1	-	16:COM3	16:COM3
			-0.018	0.000	-0.165	-2.373	-0.065	0.000
			26:COM1	-	22:COM9	22:COM9	26:COM1	-
	6456	-ve	2.060	8.615	0.057	0.000	0.051	0.000
			16:COM3	16:COM3	28:COM1	-	28:COM1	-
			-0.018	0.000	-0.165	-2.373	-0.106	-5.157
			26:COM1	-	22:COM9	22:COM9	22:COM9	18:COM5
16146	6442	+ve	2.064	4.026	0.121	0.072	0.145	3.860
			16:COM3	16:COM3	16:COM3	28:COM1	24:COM11	24:COM1
			-1.014	0.000	-0.106	-2.397	-0.157	-5.652
			26:COM1	-	26:COM1	22:COM9	18:COM5	18:COM5
	6458	-ve	2.064	3.127	0.121	0.072	0.080	0.000
			16:COM3	16:COM3	16:COM3	28:COM1	20:COM7	-
			-1.014	-0.093	-0.106	-2.397	-0.064	-6.967
			26:COM1	26:COM1	26:COM1	22:COM9	30:COM1	18:COM5
16147	6439	+ve	1.540	10.055	0.126	0.000	0.159	19.415
			16:COM3	16:COM3	16:COM3	-	24:COM11	16:COM3
			-0.672	0.000	-0.117	-2.530	-0.171	0.000
			26:COM1	-	26:COM1	22:COM9	18:COM5	-
	6460	-ve	1.540	9.156	0.126	0.000	0.075	0.814
			16:COM3	16:COM3	16:COM3	-	20:COM7	16:COM3
			-0.672	0.000	-0.117	-2.530	-0.071	-1.480
			26:COM1	-	26:COM1	22:COM9	30:COM1	26:COM1
16148	6443	+ve	3.005	5.504	0.165	0.136	0.132	4.944
			16:COM3	16:COM3	16:COM3	28:COM1	24:COM11	24:COM1
			-1.167	0.000	-0.095	-2.557	-0.218	-5.058
			26:COM1	-	26:COM1	22:COM9	18:COM5	18:COM5
	6462	-ve	3.005	4.605	0.165	0.136	0.104	0.000
			16:COM3	16:COM3	16:COM3	28:COM1	20:COM7	-
			-1.167	0.000	-0.095	-2.557	-0.055	-7.865
			26:COM1	-	26:COM1	22:COM9	30:COM1	18:COM5
16149	6440	+ve	0.700	4.055	0.130	0.383	0.062	7.445
			24:COM1	20:COM7	16:COM3	28:COM1	24:COM11	20:COM7
			-0.868	0.000	-0.032	-1.959	-0.213	0.000
			18:COM5	-	26:COM1	22:COM9	18:COM5	-
	6454	-ve	0.700	3.063	0.130	0.383	0.068	0.068
			24:COM1	20:COM7	16:COM3	28:COM1	16:COM3	28:COM1
			-0.868	0.000	-0.032	-1.959	-0.008	-0.209
			18:COM5	-	26:COM1	22:COM9	26:COM1	22:COM9
16150	6455	+ve	0.709	0.000	0.049	2.053	0.075	0.074
			24:COM1	-	28:COM1	20:COM7	20:COM7	28:COM1
			-0.884	-3.121	-0.170	-0.471	-0.011	-0.218
			18:COM5	22:COM9	22:COM9	30:COM1	30:COM1	22:COM9
	6441	-ve	0.709	0.000	0.049	2.053	0.087	6.948
			24:COM1	-	28:COM1	20:COM7	28:COM1	20:COM7
			-0.884	-4.044	-0.170	-0.471	-0.265	0.000
			18:COM5	22:COM9	22:COM9	30:COM1	22:COM9	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
16151	6456	+ve	2.011	3.810	0.017	0.137	0.052	0.000
			16:COM3	16:COM3	16:COM3	24:COM1	28:COM1	-
			-0.094	-0.086	-0.003	-0.344	-0.062	-5.046
			26:COM1	26:COM1	26:COM1	18:COM5	22:COM9	18:COM5
	6457	-ve	2.011	2.911	0.017	0.137	0.067	0.000
			16:COM3	16:COM3	16:COM3	24:COM1	20:COM7	-
			-0.094	-0.760	-0.003	-0.344	-0.048	-7.945
			26:COM1	26:COM1	26:COM1	18:COM5	30:COM1	18:COM5
16152	6457	+ve	3.081	0.000	0.110	2.314	0.114	0.000
			16:COM3	-	28:COM1	20:COM7	20:COM7	-
			-1.237	-4.673	-0.172	-0.004	-0.070	-8.024
			26:COM1	18:COM5	22:COM9	30:COM1	30:COM1	18:COM5
	6442	-ve	3.081	0.000	0.110	2.314	0.145	5.064
			16:COM3	-	28:COM1	20:COM7	28:COM1	24:COM1
			-1.237	-5.573	-0.172	-0.004	-0.221	-5.445
			26:COM1	18:COM5	22:COM9	30:COM1	22:COM9	18:COM5
16153	6458	+ve	1.191	0.000	0.005	0.417	0.060	0.000
			20:COM7	-	24:COM1	20:COM7	20:COM7	-
			-0.145	-3.492	-0.014	-0.189	-0.044	-6.888
			30:COM1	18:COM5	18:COM5	30:COM1	30:COM1	18:COM5
	6459	-ve	1.191	0.000	0.005	0.417	0.056	0.924
			20:COM7	-	24:COM1	20:COM7	28:COM1	16:COM3
			-0.145	-4.392	-0.014	-0.189	-0.056	-1.182
			30:COM1	18:COM5	18:COM5	30:COM1	22:COM9	26:COM1
16154	6459	+ve	1.867	0.000	0.122	2.223	0.081	0.771
			16:COM3	-	20:COM7	20:COM7	28:COM1	16:COM3
			-0.815	-9.151	-0.121	0.000	-0.083	-1.245
			26:COM1	18:COM5	30:COM1	-	22:COM9	26:COM1
	6439	-ve	1.867	0.000	0.122	2.223	0.156	19.320
			16:COM3	-	20:COM7	20:COM7	20:COM7	16:COM3
			-0.815	-10.051	-0.121	0.000	-0.156	0.000
			26:COM1	18:COM5	30:COM1	-	30:COM1	-
16155	6460	+ve	1.283	4.482	0.019	0.037	0.047	0.955
			20:COM7	16:COM3	16:COM3	24:COM1	28:COM1	16:COM3
			-0.390	0.000	-0.004	-0.473	-0.051	-1.414
			30:COM1	-	26:COM1	18:COM5	22:COM9	26:COM1
	6461	-ve	1.283	3.582	0.019	0.037	0.071	0.000
			20:COM7	16:COM3	16:COM3	24:COM1	20:COM7	-
			-0.390	0.000	-0.004	-0.473	-0.046	-6.999
			30:COM1	-	26:COM1	18:COM5	30:COM1	18:COM5
16156	6461	+ve	2.289	0.218	0.101	2.200	0.088	0.000
			16:COM3	24:COM1	28:COM1	20:COM7	20:COM7	-
			-1.374	-3.436	-0.128	0.000	-0.068	-7.079
			26:COM1	18:COM5	22:COM9	-	30:COM1	18:COM5
	6443	-ve	2.289	0.000	0.101	2.200	0.130	4.428
			16:COM3	-	28:COM1	20:COM7	28:COM1	24:COM1
			-1.374	-4.335	-0.128	0.000	-0.162	-5.921
			26:COM1	18:COM5	22:COM9	-	22:COM9	18:COM5

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
16157	6462	+ve	1.928	0.675	0.005	0.623	0.059	0.000
			16:COM3	24:COM11	24:COM11	20:COM7	20:COM7	-
			-0.013	-2.890	-0.020	-0.417	-0.039	-7.757
			26:COM13	18:COM5	18:COM5	30:COM17	30:COM17	18:COM5
	6463	-ve	1.928	0.001	0.005	0.623	0.052	0.000
			16:COM3	24:COM11	24:COM11	20:COM7	28:COM15	-
			-0.013	-3.790	-0.020	-0.417	-0.061	-4.774
			26:COM13	18:COM5	18:COM5	30:COM17	22:COM9	18:COM5
16158	6463	+ve	2.017	0.000	0.161	2.201	0.047	0.000
			16:COM3	-	20:COM7	20:COM7	28:COM15	-
			0.000	-8.574	-0.061	0.000	-0.100	-4.886
			-	18:COM5	30:COM17	-	22:COM9	18:COM5
	6440	-ve	2.017	0.000	0.161	2.201	0.215	16.146
			16:COM3	-	20:COM7	20:COM7	20:COM7	16:COM3
			0.000	-9.473	-0.061	0.000	-0.074	0.000
			-	18:COM5	30:COM17	-	30:COM17	-
16159	6464	+ve	0.108	3.107	0.001	0.051	0.004	2.613
			16:COM3	20:COM7	24:COM11	20:COM7	20:COM7	20:COM7
			-0.090	0.000	-0.002	-0.000	-0.003	-0.378
			26:COM13	-	18:COM5	30:COM17	30:COM17	30:COM17
	6454	-ve	0.108	0.000	0.001	0.051	0.002	2.005
			16:COM3	-	24:COM11	20:COM7	24:COM11	20:COM7
			-0.090	-2.903	-0.002	-0.000	-0.005	-0.596
			26:COM13	22:COM9	18:COM5	30:COM17	18:COM5	30:COM17
16160	6465	+ve	0.137	3.140	0.003	0.002	0.005	2.691
			20:COM7	20:COM7	20:COM7	28:COM15	28:COM15	20:COM7
			-0.113	0.000	-0.002	-0.049	-0.007	-0.409
			30:COM17	-	30:COM17	22:COM9	22:COM9	30:COM17
	6455	-ve	0.137	0.000	0.003	0.002	0.007	2.116
			20:COM7	-	20:COM7	28:COM15	20:COM7	20:COM7
			-0.113	-2.934	-0.002	-0.049	-0.004	-0.686
			30:COM17	22:COM9	30:COM17	22:COM9	30:COM17	30:COM17
16161	6466	+ve	0.149	4.587	0.003	0.059	0.005	3.749
			28:COM15	20:COM7	20:COM7	20:COM7	28:COM15	20:COM7
			-0.208	0.000	-0.002	-0.027	-0.007	0.000
			22:COM9	-	30:COM17	30:COM17	22:COM9	-
	6456	-ve	0.149	0.000	0.003	0.059	0.007	2.790
			28:COM15	-	20:COM7	20:COM7	20:COM7	20:COM7
			-0.208	-4.226	-0.002	-0.027	-0.004	-0.154
			22:COM9	22:COM9	30:COM17	30:COM17	30:COM17	30:COM17
16162	6467	+ve	0.195	4.483	0.002	0.009	0.004	3.454
			20:COM7	20:COM7	20:COM7	28:COM15	28:COM15	20:COM7
			-0.134	0.000	-0.001	-0.029	-0.005	0.000
			30:COM17	-	30:COM17	22:COM9	22:COM9	-
	6457	-ve	0.195	0.000	0.002	0.009	0.005	2.580
			20:COM7	-	20:COM7	28:COM15	20:COM7	20:COM7
			-0.134	-4.164	-0.001	-0.029	-0.003	0.000
			30:COM17	22:COM9	30:COM17	22:COM9	30:COM17	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
16163	6468	+ve	0.165	4.479	0.002	0.038	0.003	3.453
			20:COM7	20:COM7	20:COM7	20:COM7	28:COM15	20:COM7
			-0.140	0.000	-0.001	-0.015	-0.006	0.000
			30:COM17	-	30:COM17	30:COM17	22:COM9	-
	6458	-ve	0.165	0.000	0.002	0.038	0.005	2.524
			20:COM7	-	20:COM7	20:COM7	20:COM7	20:COM7
			-0.140	-4.134	-0.001	-0.015	-0.003	0.000
			30:COM17	22:COM9	30:COM17	30:COM17	30:COM17	-
16164	6469	+ve	0.151	4.593	0.002	0.031	0.005	3.824
			28:COM15	20:COM7	20:COM7	28:COM15	28:COM15	20:COM7
			-0.183	0.000	-0.002	-0.059	-0.006	0.000
			22:COM9	-	30:COM17	22:COM9	22:COM9	-
	6459	-ve	0.151	0.000	0.002	0.031	0.005	2.643
			28:COM15	-	20:COM7	28:COM15	20:COM7	20:COM7
			-0.183	-4.144	-0.002	-0.059	-0.004	-0.096
			22:COM9	22:COM9	30:COM17	22:COM9	30:COM17	30:COM17
16165	6470	+ve	0.138	4.570	0.001	0.060	0.002	3.767
			28:COM15	20:COM7	20:COM7	20:COM7	28:COM15	20:COM7
			-0.169	0.000	-0.001	0.000	-0.003	0.000
			22:COM9	-	30:COM17	-	22:COM9	-
	6460	-ve	0.138	0.000	0.001	0.060	0.003	2.650
			28:COM15	-	20:COM7	20:COM7	20:COM7	20:COM7
			-0.169	-4.147	-0.001	0.000	-0.002	-0.059
			22:COM9	22:COM9	30:COM17	-	30:COM17	30:COM17
16166	6471	+ve	0.169	4.428	0.003	0.011	0.007	3.346
			20:COM7	20:COM7	20:COM7	28:COM15	20:COM7	20:COM7
			-0.140	0.000	-0.003	-0.007	-0.007	0.000
			30:COM17	-	30:COM17	22:COM9	30:COM17	-
	6461	-ve	0.169	0.000	0.003	0.011	0.007	2.644
			20:COM7	-	20:COM7	28:COM15	20:COM7	20:COM7
			-0.140	-4.192	-0.003	-0.007	-0.006	0.000
			30:COM17	22:COM9	30:COM17	22:COM9	30:COM17	-
16167	6472	+ve	0.175	4.431	0.001	0.055	0.003	3.344
			20:COM7	20:COM7	24:COM11	20:COM7	16:COM3	20:COM7
			-0.112	0.000	-0.001	-0.043	-0.002	0.000
			30:COM17	-	18:COM5	30:COM17	26:COM13	-
	6462	-ve	0.175	0.000	0.001	0.055	0.001	2.626
			20:COM7	-	24:COM11	20:COM7	24:COM11	20:COM7
			-0.112	-4.184	-0.001	-0.043	-0.003	0.000
			30:COM17	22:COM9	18:COM5	30:COM17	18:COM5	-
16168	6473	+ve	0.141	4.594	0.003	0.053	0.008	3.809
			28:COM15	20:COM7	28:COM15	28:COM15	20:COM7	20:COM7
			-0.202	0.000	-0.004	-0.092	-0.007	0.000
			22:COM9	-	22:COM9	22:COM9	30:COM17	-
	6463	-ve	0.141	0.000	0.003	0.053	0.006	2.781
			28:COM15	-	28:COM15	28:COM15	28:COM15	20:COM7
			-0.202	-4.233	-0.004	-0.092	-0.008	-0.130
			22:COM9	22:COM9	22:COM9	22:COM9	22:COM9	30:COM17

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
16169	6449	+ve	2.565	11.237	0.191	2.009	0.093	18.370
			16:COM3	16:COM3	20:COM7	20:COM7	28:COM15	16:COM3
			0.000	0.000	-0.083	0.000	-0.254	0.000
			-	-	30:COM17	-	22:COM9	-
	6466	-ve	2.565	10.338	0.191	2.009	0.121	0.000
			16:COM3	16:COM3	20:COM7	20:COM7	20:COM7	-
			0.000	0.000	-0.083	0.000	-0.071	-6.339
			-	-	30:COM17	-	30:COM17	18:COM5
16170	6453	+ve	2.567	5.581	0.125	2.109	0.164	5.064
			16:COM3	16:COM3	28:COM15	20:COM7	20:COM7	24:COM17
			-0.802	0.000	-0.139	-0.206	-0.158	-3.417
			26:COM13	-	22:COM9	30:COM17	30:COM17	18:COM5
	6468	-ve	2.567	4.682	0.125	2.109	0.088	0.000
			16:COM3	16:COM3	28:COM15	20:COM7	28:COM15	-
			-0.802	0.000	-0.139	-0.206	-0.108	-8.184
			26:COM13	-	22:COM9	30:COM17	22:COM9	22:COM9
16171	6450	+ve	2.173	12.190	0.136	2.105	0.186	22.543
			16:COM3	16:COM3	28:COM15	20:COM7	20:COM7	16:COM3
			-0.570	0.000	-0.145	0.000	-0.174	0.000
			26:COM13	-	22:COM9	-	30:COM17	-
	6470	-ve	2.173	11.290	0.136	2.105	0.093	0.046
			16:COM3	16:COM3	28:COM15	20:COM7	28:COM15	24:COM17
			-0.570	0.000	-0.145	0.000	-0.099	-2.446
			26:COM13	-	22:COM9	-	22:COM9	18:COM5
16172	6452	+ve	4.000	7.056	0.131	2.238	0.278	6.532
			16:COM3	16:COM3	28:COM15	20:COM7	20:COM7	24:COM17
			-1.019	0.000	-0.216	-0.361	-0.169	-3.979
			26:COM13	-	22:COM9	30:COM17	30:COM17	18:COM5
	6472	-ve	4.000	6.157	0.131	2.238	0.086	0.000
			16:COM3	16:COM3	28:COM15	20:COM7	28:COM15	-
			-1.019	0.000	-0.216	-0.361	-0.144	-9.454
			26:COM13	-	22:COM9	30:COM17	22:COM9	22:COM9
16173	6451	+ve	0.788	5.106	0.057	2.028	0.290	9.588
			24:COM17	20:COM7	28:COM15	20:COM7	20:COM7	20:COM7
			-0.858	0.000	-0.165	-0.450	-0.104	0.000
			18:COM5	-	22:COM9	30:COM17	30:COM17	-
	6464	-ve	0.788	4.114	0.057	2.028	0.018	0.000
			24:COM17	20:COM7	28:COM15	20:COM7	28:COM15	-
			-0.858	0.000	-0.165	-0.450	-0.066	-0.327
			18:COM5	-	22:COM9	30:COM17	22:COM9	22:COM9
16174	6465	+ve	0.771	0.000	0.167	0.411	0.008	0.000
			24:COM17	-	20:COM7	28:COM15	28:COM15	-
			-0.843	-4.284	-0.056	-1.949	-0.057	-0.318
			18:COM5	22:COM9	30:COM17	22:COM9	22:COM9	22:COM9
	6449	-ve	0.771	0.000	0.167	0.411	0.278	9.177
			24:COM17	-	20:COM7	28:COM15	20:COM7	20:COM7
			-0.843	-5.207	-0.056	-1.949	-0.104	0.000
			18:COM5	22:COM9	30:COM17	22:COM9	30:COM17	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
16175	6466	+ve	2.537	3.908	0.000	0.406	0.082	0.000
			16:COM3	16:COM3	-	20:COM7	20:COM7	-
			0.000	-0.108	-0.025	-0.178	-0.068	-6.190
			-	26:COM1	22:COM9	30:COM1	30:COM1	18:COM5
	6467	-ve	2.537	3.009	0.000	0.406	0.068	0.000
			16:COM3	16:COM3	-	20:COM7	28:COM1	-
			0.000	-0.783	-0.025	-0.178	-0.102	-9.183
			-	26:COM1	22:COM9	30:COM1	22:COM9	18:COM5
16176	6467	+ve	3.620	0.000	0.202	0.075	0.072	0.000
			16:COM3	-	20:COM7	28:COM1	28:COM1	-
			-1.077	-6.192	-0.105	-2.075	-0.136	-9.276
			26:COM1	18:COM5	30:COM1	22:COM9	22:COM9	18:COM5
	6453	-ve	3.620	0.000	0.202	0.075	0.258	6.161
			16:COM3	-	20:COM7	28:COM1	20:COM7	24:COM1
			-1.077	-7.091	-0.105	-2.075	-0.134	-3.335
			26:COM1	18:COM5	30:COM1	22:COM9	30:COM1	18:COM5
16177	6468	+ve	1.565	0.000	0.018	0.101	0.065	0.000
			20:COM7	-	16:COM3	28:COM1	28:COM1	-
			0.000	-3.602	-0.002	-0.611	-0.094	-8.096
			-	18:COM5	26:COM1	22:COM9	22:COM9	18:COM5
	6469	-ve	1.565	0.000	0.018	0.101	0.073	0.044
			20:COM7	-	16:COM3	28:COM1	20:COM7	24:COM1
			0.000	-4.502	-0.002	-0.611	-0.072	-2.023
			-	18:COM5	26:COM1	22:COM9	30:COM1	18:COM5
16178	6469	+ve	2.326	0.000	0.124	0.000	0.080	0.000
			16:COM3	-	20:COM7	-	28:COM1	-
			-0.588	-11.091	-0.116	-2.104	-0.086	-2.221
			26:COM1	22:COM9	30:COM1	22:COM9	22:COM9	18:COM5
	6450	-ve	2.326	0.000	0.124	0.000	0.157	21.921
			16:COM3	-	20:COM7	-	20:COM7	16:COM3
			-0.588	-11.991	-0.116	-2.104	-0.148	0.000
			26:COM1	22:COM9	30:COM1	22:COM9	30:COM1	-
16179	6470	+ve	1.788	4.727	0.006	0.372	0.068	0.205
			20:COM7	16:COM3	28:COM1	20:COM7	20:COM7	24:COM1
			-0.183	0.000	-0.015	-0.069	-0.072	-2.253
			30:COM1	-	22:COM9	30:COM1	30:COM1	18:COM5
	6471	-ve	1.788	3.828	0.006	0.372	0.069	0.000
			20:COM7	16:COM3	28:COM1	20:COM7	28:COM1	-
			-0.183	0.000	-0.015	-0.069	-0.091	-8.364
			30:COM1	-	22:COM9	30:COM1	22:COM9	18:COM5
16180	6471	+ve	2.718	0.000	0.114	0.000	0.074	0.000
			16:COM3	-	20:COM7	-	28:COM1	-
			-1.107	-4.584	-0.108	-1.974	-0.092	-8.438
			26:COM1	18:COM5	30:COM1	22:COM9	22:COM9	18:COM5
	6452	-ve	2.718	0.000	0.114	0.000	0.133	4.867
			16:COM3	-	20:COM7	-	28:COM1	24:COM1
			-1.107	-5.484	-0.108	-1.974	-0.139	-4.365
			26:COM1	18:COM5	30:COM1	22:COM9	22:COM9	18:COM5

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
16181	6472	+ve	2.878	0.853	0.024	0.305	0.064	0.000
			16:COM3	24:COM11	20:COM7	28:COM15	28:COM15	-
			0.000	-3.237	0.000	-0.560	-0.098	-9.356
			-	18:COM5	-	22:COM9	22:COM9	22:COM9
	6473	-ve	2.878	0.179	0.024	0.305	0.078	0.000
			16:COM3	24:COM11	20:COM7	28:COM15	20:COM7	-
			0.000	-4.136	0.000	-0.560	-0.062	-5.943
			-	18:COM5	-	22:COM9	30:COM17	18:COM5
16182	6473	+ve	2.767	0.000	0.049	0.000	0.100	0.000
			16:COM3	-	28:COM15	-	20:COM7	-
			0.000	-10.630	-0.164	-1.871	-0.051	-6.083
			-	22:COM9	22:COM9	22:COM9	30:COM17	18:COM5
	6451	-ve	2.767	0.000	0.049	0.000	0.050	19.273
			16:COM3	-	28:COM15	-	24:COM11	16:COM3
			0.000	-11.529	-0.164	-1.871	-0.225	0.000
			-	22:COM9	22:COM9	22:COM9	18:COM5	-
16183	6320	+ve	8.942	3.465	0.982	2.543	2.489	3.181
			24:COM17	16:COM3	28:COM15	20:COM7	20:COM7	24:COM17
			-12.791	-1.136	-1.226	-0.277	-2.221	-3.086
			18:COM5	26:COM13	22:COM9	30:COM17	30:COM17	18:COM5
	6525	-ve	8.942	0.527	0.982	2.543	3.861	2.314
			24:COM17	24:COM11	28:COM15	20:COM7	28:COM15	16:COM3
			-12.791	-4.405	-1.226	-0.277	-4.094	-0.630
			18:COM5	18:COM5	22:COM9	30:COM17	22:COM9	26:COM13
16184	6478	+ve	1.208	2.027	0.387	1.105	0.930	1.719
			28:COM15	16:COM3	28:COM15	20:COM7	20:COM7	24:COM17
			-4.224	-0.461	-0.823	0.000	-0.716	-2.021
			22:COM9	26:COM13	22:COM9	-	30:COM17	18:COM5
	6501	-ve	1.208	0.000	0.387	1.105	0.161	1.457
			28:COM15	-	28:COM15	20:COM7	24:COM11	16:COM3
			-4.224	-3.488	-0.823	0.000	-0.731	0.000
			22:COM9	18:COM5	22:COM9	-	18:COM5	-
16185	6480	+ve	5.674	6.327	0.772	0.591	0.309	4.326
			20:COM7	34:CVOL3	16:COM3	28:COM15	28:COM15	20:COM7
			-5.120	0.000	-0.016	-1.360	-1.156	0.000
			30:COM17	-	26:COM13	22:COM9	22:COM9	-
	6527	-ve	5.674	3.499	0.772	0.591	0.532	0.000
			20:COM7	34:CVOL3	16:COM3	28:COM15	20:COM7	-
			-5.120	0.000	-0.016	-1.360	-0.143	-3.887
			30:COM17	-	26:COM13	22:COM9	30:COM17	35:CVOL4
16186	6474	+ve	4.859	11.538	0.373	0.000	2.173	8.961
			16:COM3	35:CVOL4	24:COM11	-	16:COM3	34:CVOL3
			-3.493	0.000	-0.814	-2.533	-1.233	0.000
			26:COM13	-	18:COM5	18:COM5	26:COM13	-
	6488	-ve	4.859	0.000	0.373	0.000	0.615	9.824
			16:COM3	-	24:COM11	-	24:COM11	34:CVOL3
			-3.493	-11.891	-0.814	-2.533	-1.828	0.000
			26:COM13	34:CVOL3	18:COM5	18:COM5	18:COM5	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
16187	6488	+ve	9.992	8.332	1.485	0.000	4.330	4.932
			16:COM3	35:CVOL4	28:COM15	-	20:COM7	35:CVOL4
			-9.819	0.000	-2.609	-11.723	-2.190	0.000
			26:COM13	-	22:COM9	34:CVOL3	30:COM17	-
	6482	-ve	9.992	0.000	1.485	0.000	3.051	5.428
			16:COM3	-	28:COM15	-	28:COM15	34:CVOL3
			-9.819	-8.613	-2.609	-11.723	-4.870	0.000
			26:COM13	34:CVOL3	22:COM9	34:CVOL3	22:COM9	-
16188	6482	+ve	20.552	14.240	1.318	8.351	5.189	13.567
			16:COM3	34:CVOL3	24:COM11	35:CVOL4	16:COM3	35:CVOL4
			-17.715	0.000	-1.542	0.000	-4.657	0.000
			26:COM13	-	18:COM5	-	26:COM13	-
	6476	-ve	20.552	0.000	1.318	8.351	3.516	14.645
			16:COM3	-	24:COM11	35:CVOL4	28:COM15	35:CVOL4
			-17.715	-14.597	-1.542	0.000	-4.330	0.000
			26:COM13	35:CVOL4	18:COM5	-	22:COM9	-
16189	6327	+ve	45.129	6.518	8.268	8.223	13.051	8.763
			28:COM15	24:COM11	16:COM3	20:COM7	24:COM11	24:COM11
			-56.193	-10.725	-6.682	-3.599	-13.328	-16.000
			22:COM9	18:COM5	26:COM13	30:COM17	18:COM5	18:COM5
	6510	-ve	45.129	4.128	8.268	8.223	2.282	6.852
			28:COM15	24:COM11	16:COM3	20:COM7	35:CVOL4	16:COM3
			-56.193	-13.911	-6.682	-3.599	0.000	-1.204
			22:COM9	18:COM5	26:COM13	30:COM17	-	26:COM13
16190	6345	+ve	49.611	27.847	1.350	4.435	2.145	27.679
			16:COM3	35:CVOL4	20:COM7	24:COM11	20:COM7	16:COM3
			-38.167	0.000	-1.532	-3.728	-1.851	0.000
			26:COM13	-	30:COM17	18:COM5	30:COM17	-
	6506	-ve	49.611	25.603	1.350	4.435	0.793	0.000
			16:COM3	35:CVOL4	20:COM7	24:COM11	20:COM7	-
			-38.167	0.000	-1.532	-3.728	-0.852	-31.243
			26:COM13	-	30:COM17	18:COM5	30:COM17	18:COM5
16192	6484	+ve	12.101	3.668	0.469	0.151	0.500	0.000
			20:COM7	16:COM3	16:COM3	24:COM11	24:COM11	-
			-4.698	0.000	-0.418	-0.681	-0.570	-24.054
			30:COM17	-	26:COM13	18:COM5	18:COM5	35:CVOL4
	6499	-ve	12.101	1.592	0.469	0.151	0.280	0.000
			20:COM7	16:COM3	16:COM3	24:COM11	16:COM3	-
			-4.698	-0.741	-0.418	-0.681	-0.258	-27.483
			30:COM17	26:COM13	26:COM13	18:COM5	26:COM13	34:CVOL3
16193	6494	+ve	16.383	4.676	0.354	1.620	0.586	11.550
			20:COM7	16:COM3	20:COM7	16:COM3	28:COM15	20:COM7
			-10.341	-0.152	-0.280	-0.060	-0.756	-3.097
			30:COM17	26:COM13	30:COM17	26:COM13	22:COM9	30:COM17
	6344	-ve	16.383	1.924	0.354	1.620	0.653	1.816
			20:COM7	16:COM3	20:COM7	16:COM3	20:COM7	24:COM11
			-10.341	-2.216	-0.280	-0.060	-0.529	-1.777
			30:COM17	26:COM13	30:COM17	26:COM13	30:COM17	18:COM5

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
16194	6494	+ve	13.455	18.364	1.235	0.000	1.082	22.656
			20:COM7	16:COM3	16:COM3	-	24:COM11	16:COM3
			-5.598	0.000	-0.920	-9.116	-1.440	-5.836
			30:COM17	-	26:COM13	22:COM9	18:COM5	26:COM13
	6503	-ve	13.455	16.216	1.235	0.000	0.860	0.000
			20:COM7	16:COM3	16:COM3	-	16:COM3	-
			-5.598	0.000	-0.920	-9.116	-0.632	-22.905
			30:COM17	-	26:COM13	22:COM9	26:COM13	18:COM5
16195	6344	+ve	12.252	13.038	0.540	0.000	0.010	5.541
			28:COM15	34:CVOL3	16:COM3	-	24:COM11	35:CVOL4
			-12.081	0.000	0.000	-2.728	-0.464	0.000
			22:COM9	-	-	34:CVOL3	18:COM5	-
	6516	-ve	12.252	11.675	0.540	0.000	0.407	0.000
			28:COM15	34:CVOL3	16:COM3	-	20:COM7	-
			-12.081	0.000	0.000	-2.728	0.000	-13.952
			22:COM9	-	-	34:CVOL3	-	34:CVOL3
16196	6490	+ve	7.909	13.412	0.379	0.172	0.290	14.893
			20:COM7	34:CVOL3	20:COM7	16:COM3	28:COM15	34:CVOL3
			-5.451	0.000	-0.261	-0.153	-0.421	0.000
			30:COM17	-	30:COM17	26:COM13	22:COM9	-
	6500	-ve	7.909	11.855	0.379	0.172	0.261	0.000
			20:COM7	34:CVOL3	20:COM7	16:COM3	20:COM7	-
			-5.451	0.000	-0.261	-0.153	-0.179	-7.853
			30:COM17	-	30:COM17	26:COM13	30:COM17	35:CVOL4
16197	6492	+ve	4.600	9.358	0.480	2.749	0.388	7.160
			20:COM7	34:CVOL3	20:COM7	34:CVOL3	28:COM15	34:CVOL3
			-1.813	0.000	-0.453	0.000	-0.417	0.000
			30:COM17	-	30:COM17	-	22:COM9	-
	6528	-ve	4.600	7.944	0.480	2.749	0.368	0.000
			20:COM7	34:CVOL3	20:COM7	34:CVOL3	20:COM7	-
			-1.813	0.000	-0.453	0.000	-0.353	-6.985
			30:COM17	-	30:COM17	-	30:COM17	34:CVOL3
16198	6478	+ve	2.782	6.658	0.161	0.000	0.386	4.099
			20:COM7	34:CVOL3	16:COM3	-	24:COM11	20:COM7
			-1.269	0.000	-0.155	-0.727	-0.400	-0.503
			30:COM17	-	26:COM13	34:CVOL3	18:COM5	30:COM17
	6490	-ve	2.782	0.000	0.161	0.000	0.383	17.175
			20:COM7	-	16:COM3	-	24:COM11	35:CVOL4
			-1.269	-12.564	-0.155	-0.727	-0.368	0.000
			30:COM17	35:CVOL4	26:COM13	34:CVOL3	18:COM5	-
16199	6480	+ve	1.831	7.125	0.200	0.000	0.534	4.025
			20:COM7	34:CVOL3	28:COM15	-	20:COM7	20:COM7
			-0.676	0.000	-0.215	-0.432	-0.504	0.000
			30:COM17	-	22:COM9	35:CVOL4	30:COM17	-
	6492	-ve	1.831	0.000	0.200	0.000	0.475	15.670
			20:COM7	-	28:COM15	-	24:COM11	35:CVOL4
			-0.676	-12.093	-0.215	-0.432	-0.518	0.000
			30:COM17	35:CVOL4	22:COM9	35:CVOL4	18:COM5	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
16200	6490	+ve	4.332	16.499	0.518	3.289	0.899	23.347
			20:COM7	34:CVOL3	20:COM7	34:CVOL3	28:COM15	35:CVOL4
			-1.966	0.000	-0.506	0.000	-0.919	0.000
			30:COM17	-	30:COM17	-	22:COM9	-
	6484	-ve	4.332	3.062	0.518	3.289	0.906	0.000
			20:COM7	16:COM3	20:COM7	34:CVOL3	20:COM7	-
			-1.966	0.000	-0.506	0.000	-0.886	-10.331
			30:COM17	-	30:COM17	-	30:COM17	34:CVOL3
16201	6495	+ve	11.826	0.000	1.385	6.488	0.555	0.000
			20:COM7	-	20:COM7	35:CVOL4	28:COM15	-
			-4.230	-7.834	-1.175	0.000	-0.625	-20.337
			30:COM17	35:CVOL4	30:COM17	-	22:COM9	34:CVOL3
	6513	-ve	11.826	0.000	1.385	6.488	0.762	0.000
			20:COM7	-	20:COM7	35:CVOL4	20:COM7	-
			-4.230	-8.987	-1.175	0.000	-0.621	-11.929
			30:COM17	35:CVOL4	30:COM17	-	30:COM17	34:CVOL3
16202	6492	+ve	2.944	14.080	0.540	0.000	1.049	19.584
			20:COM7	34:CVOL3	28:COM15	-	20:COM7	35:CVOL4
			-1.632	0.000	-0.601	-3.393	-0.945	0.000
			30:COM17	-	22:COM9	34:CVOL3	30:COM17	-
	6495	-ve	2.944	0.342	0.540	0.000	0.959	0.000
			20:COM7	16:COM3	28:COM15	-	28:COM15	-
			-1.632	0.000	-0.601	-3.393	-1.069	-5.563
			30:COM17	-	22:COM9	34:CVOL3	22:COM9	34:CVOL3
16203	6497	+ve	112.830	0.000	0.000	0.179	4.961	0.000
			35:CVOL4	-	-	20:COM7	16:COM3	-
			0.000	-5.003	-4.119	-0.175	0.000	-6.971
			-	35:CVOL4	22:COM9	30:COM17	-	35:CVOL4
	6345	-ve	109.924	0.000	0.000	0.179	0.000	14.043
			35:CVOL4	-	-	20:COM7	-	35:CVOL4
			0.000	-5.003	-4.119	-0.175	-12.832	0.000
			-	35:CVOL4	22:COM9	30:COM17	22:COM9	-
16204	6498	+ve	76.151	0.000	0.000	0.123	2.810	0.000
			20:COM7	-	-	20:COM7	16:COM3	-
			0.000	-4.223	-2.228	-0.100	0.000	-5.864
			-	18:COM5	22:COM9	30:COM17	-	34:CVOL3
	6494	-ve	73.245	0.000	0.000	0.123	0.150	12.241
			20:COM7	-	-	20:COM7	28:COM15	16:COM3
			0.000	-4.223	-2.228	-0.100	-7.589	0.000
			-	18:COM5	22:COM9	30:COM17	22:COM9	-
16205	6496	+ve	53.108	0.000	0.264	0.024	1.956	0.000
			34:CVOL3	-	28:COM15	28:COM15	20:COM7	-
			0.000	-0.694	-1.193	-0.023	-0.673	-1.031
			-	22:COM9	22:COM9	22:COM9	30:COM17	22:COM9
	6344	-ve	51.655	0.000	0.264	0.024	0.437	1.917
			34:CVOL3	-	28:COM15	28:COM15	28:COM15	34:CVOL3
			0.000	-0.694	-1.193	-0.023	-3.054	0.000
			-	22:COM9	22:COM9	22:COM9	22:COM9	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
16206	6491	+ve	61.859	0.256	1.068	0.022	0.006	0.417
			34:CVOL3	16:COM3	20:COM7	20:COM7	28:COM15	16:COM3
			0.000	-0.023	0.000	-0.020	-1.666	-0.110
			-	26:COM13	-	30:COM17	22:COM9	26:COM13
	6490	-ve	60.406	0.256	1.068	0.022	2.826	0.000
			34:CVOL3	16:COM3	20:COM7	20:COM7	20:COM7	-
			0.000	-0.023	0.000	-0.020	0.000	-0.660
			-	26:COM13	-	30:COM17	-	18:COM5
16208	6493	+ve	44.593	0.203	0.792	0.023	0.000	0.340
			35:CVOL4	16:COM3	20:COM7	20:COM7	-	16:COM3
			0.000	-0.067	0.000	-0.020	-1.206	-0.171
			-	26:COM13	-	30:COM17	22:COM9	26:COM13
	6492	-ve	43.140	0.203	0.792	0.023	2.122	0.110
			35:CVOL4	16:COM3	20:COM7	20:COM7	20:COM7	24:COM11
			0.000	-0.067	0.000	-0.020	0.000	-0.511
			-	26:COM13	-	30:COM17	-	18:COM5
16219	6499	+ve	13.210	0.173	1.239	1.394	0.421	0.000
			20:COM7	24:COM11	16:COM3	16:COM3	16:COM3	-
			-5.390	-2.287	-1.201	0.000	-0.368	-27.529
			30:COM17	18:COM5	26:COM13	-	26:COM13	34:CVOL3
	6514	-ve	13.210	0.000	1.239	1.394	0.296	0.000
			20:COM7	-	16:COM3	16:COM3	20:COM7	-
			-5.390	-2.864	-1.201	0.000	-0.225	-26.467
			30:COM17	18:COM5	26:COM13	-	30:COM17	34:CVOL3
16220	6500	+ve	6.536	0.000	0.263	0.959	0.249	0.000
			20:COM7	-	28:COM15	16:COM3	20:COM7	-
			-4.267	-6.055	-0.297	0.000	-0.195	-7.806
			30:COM17	35:CVOL4	22:COM9	-	30:COM17	35:CVOL4
	6492	-ve	6.536	0.000	0.263	0.959	0.278	4.494
			20:COM7	-	28:COM15	16:COM3	28:COM15	35:CVOL4
			-4.267	-7.612	-0.297	0.000	-0.286	0.000
			30:COM17	35:CVOL4	22:COM9	-	22:COM9	-
16221	6501	+ve	2.032	2.180	1.343	1.159	0.000	1.027
			24:COM11	33:CVOL2	16:COM3	20:COM7	-	16:COM3
			-4.219	0.000	0.000	-0.842	-1.004	0.000
			18:COM5	-	-	30:COM17	22:COM9	-
	6480	-ve	2.032	0.000	1.343	1.159	1.554	0.662
			24:COM11	-	16:COM3	20:COM7	16:COM3	16:COM3
			-4.219	-1.453	0.000	-0.842	0.000	-0.196
			18:COM5	32:CVOL1	-	30:COM17	-	26:COM13
16222	6501	+ve	1.066	7.407	0.006	0.001	0.016	5.532
			20:COM7	34:CVOL3	24:COM11	24:COM11	20:COM7	34:CVOL3
			-0.260	0.000	-0.006	-0.001	-0.014	0.000
			30:COM17	-	18:COM5	18:COM5	30:COM17	-
	6500	-ve	1.066	0.000	0.006	0.001	0.014	9.062
			20:COM7	-	24:COM11	24:COM11	24:COM11	35:CVOL4
			-0.260	-8.856	-0.006	-0.001	-0.016	0.000
			30:COM17	35:CVOL4	18:COM5	18:COM5	18:COM5	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
16223	6500	+ve	1.239	9.053	0.018	0.000	0.033	9.853
			20:COM7	34:CVOL3	28:COM15	-	20:COM7	35:CVOL4
			-0.757	0.000	-0.019	-0.055	-0.030	0.000
			30:COM17	-	22:COM9	18:COM5	30:COM17	-
	6499	-ve	1.239	0.000	0.018	0.000	0.031	0.000
			20:COM7	-	28:COM15	-	28:COM15	-
			-0.757	-2.705	-0.019	-0.055	-0.034	-1.437
			30:COM17	35:CVOL4	22:COM9	18:COM5	22:COM9	18:COM5
16224	6503	+ve	11.335	7.364	0.582	0.000	0.486	0.000
			20:COM7	16:COM3	20:COM7	-	24:COM11	-
			-4.226	0.000	-0.544	-9.113	-0.531	-22.207
			30:COM17	-	30:COM17	34:CVOL3	18:COM5	18:COM5
	6484	-ve	11.335	5.217	0.582	0.000	0.555	0.000
			20:COM7	16:COM3	20:COM7	-	20:COM7	-
			-4.226	-0.197	-0.544	-9.113	-0.529	-28.258
			30:COM17	26:COM13	30:COM17	34:CVOL3	30:COM17	35:CVOL4
16225	6506	+ve	31.309	10.527	0.797	1.448	0.458	0.000
			16:COM3	16:COM3	20:COM7	24:COM11	24:COM11	-
			-23.337	0.000	-0.400	-1.193	-0.888	-30.669
			26:COM13	-	30:COM17	18:COM5	18:COM5	18:COM5
	6507	-ve	31.309	8.284	0.797	1.448	0.676	0.000
			16:COM3	16:COM3	20:COM7	24:COM11	20:COM7	-
			-23.337	0.000	-0.400	-1.193	-0.334	-47.119
			26:COM13	-	30:COM17	18:COM5	30:COM17	35:CVOL4
16226	6507	+ve	22.734	0.000	0.621	0.051	0.471	0.000
			16:COM3	-	16:COM3	28:COM15	28:COM15	-
			-15.563	-5.353	-0.509	-0.876	-0.662	-46.682
			26:COM13	18:COM5	26:COM13	22:COM9	22:COM9	34:CVOL3
	6508	-ve	22.734	0.000	0.621	0.051	0.593	0.000
			16:COM3	-	16:COM3	28:COM15	24:COM11	-
			-15.563	-7.596	-0.509	-0.876	-0.566	-35.085
			26:COM13	18:COM5	26:COM13	22:COM9	18:COM5	34:CVOL3
16227	6508	+ve	19.277	0.000	0.667	1.432	0.738	0.000
			20:COM7	-	24:COM11	35:CVOL4	16:COM3	-
			-11.962	-15.915	-0.645	0.000	-0.724	-35.479
			30:COM17	35:CVOL4	18:COM5	-	26:COM13	34:CVOL3
	6509	-ve	19.277	0.000	0.667	1.432	0.794	0.907
			20:COM7	-	24:COM11	35:CVOL4	20:COM7	24:COM11
			-11.962	-18.159	-0.645	0.000	-0.737	-4.226
			30:COM17	35:CVOL4	18:COM5	-	30:COM17	18:COM5
16228	6509	+ve	19.791	0.000	1.039	5.779	0.969	0.714
			20:COM7	-	28:COM15	34:CVOL3	20:COM7	24:COM11
			-12.579	-24.226	-1.077	0.000	-0.936	-4.422
			30:COM17	35:CVOL4	22:COM9	-	30:COM17	18:COM5
	6482	-ve	19.791	0.000	1.039	5.779	1.087	46.737
			20:COM7	-	28:COM15	34:CVOL3	28:COM15	35:CVOL4
			-12.579	-26.470	-1.077	0.000	-1.128	0.000
			30:COM17	35:CVOL4	22:COM9	-	22:COM9	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
16229	6510	+ve	34.407	3.335	0.294	3.681	0.229	3.328
			28:COM15	20:COM7	16:COM3	20:COM7	28:COM15	20:COM7
			-43.377	0.000	-0.344	-1.352	-0.837	-0.391
			22:COM9	-	26:COM13	30:COM17	22:COM9	30:COM17
	6511	-ve	34.407	0.296	0.294	3.681	0.536	0.457
			28:COM15	28:COM15	16:COM3	20:COM7	28:COM15	16:COM3
			-43.377	-1.741	-0.344	-1.352	-1.238	0.000
			22:COM9	22:COM9	26:COM13	30:COM17	22:COM9	-
16230	6511	+ve	28.934	1.887	1.136	0.088	2.788	0.385
			20:COM7	24:COM11	24:COM11	28:COM15	16:COM3	24:COM17
			-26.128	-0.353	-2.567	-4.086	-2.005	-1.010
			30:COM17	18:COM5	18:COM5	22:COM9	26:COM13	18:COM5
	6512	-ve	28.934	0.000	1.136	0.088	0.264	2.631
			20:COM7	-	24:COM11	28:COM15	24:COM11	16:COM3
			-26.128	-3.539	-2.567	-4.086	-2.117	-0.947
			30:COM17	18:COM5	18:COM5	22:COM9	18:COM5	26:COM13
16231	6512	+ve	26.094	4.952	4.569	0.000	4.822	2.073
			20:COM7	16:COM3	28:COM15	-	16:COM3	24:COM17
			-17.462	-3.357	-8.087	-8.812	-1.281	-3.384
			30:COM17	26:COM13	22:COM9	34:CVOL3	26:COM13	18:COM5
	6476	-ve	26.094	2.369	4.569	0.000	7.373	5.534
			20:COM7	24:COM11	28:COM15	-	28:COM15	24:COM17
			-17.462	-6.351	-8.087	-8.812	-10.312	-4.647
			30:COM17	18:COM5	22:COM9	34:CVOL3	22:COM9	18:COM5
16232	6506	+ve	1.260	8.123	0.010	0.000	0.030	4.914
			20:COM7	34:CVOL3	24:COM11	-	24:COM11	16:COM3
			-0.134	0.000	-0.011	-0.197	-0.028	0.000
			30:COM17	-	18:COM5	34:CVOL3	18:COM5	-
	6510	-ve	1.260	0.000	0.010	0.000	0.030	13.129
			20:COM7	-	24:COM11	-	24:COM11	35:CVOL4
			-0.134	-11.178	-0.011	-0.197	-0.031	0.000
			30:COM17	35:CVOL4	18:COM5	34:CVOL3	18:COM5	-
16233	6507	+ve	1.581	6.919	0.010	0.000	0.032	1.506
			20:COM7	34:CVOL3	24:COM11	-	16:COM3	16:COM3
			-0.548	0.000	-0.011	-0.050	-0.029	-0.802
			30:COM17	-	18:COM5	18:COM5	26:COM13	26:COM13
	6511	-ve	1.581	0.000	0.010	0.000	0.028	15.529
			20:COM7	-	24:COM11	-	24:COM11	35:CVOL4
			-0.548	-12.047	-0.011	-0.050	-0.031	0.000
			30:COM17	35:CVOL4	18:COM5	18:COM5	18:COM5	-
16234	6508	+ve	2.155	6.597	0.011	0.112	0.036	0.564
			20:COM7	34:CVOL3	24:COM11	35:CVOL4	16:COM3	16:COM3
			-1.095	0.000	-0.013	0.000	-0.031	-0.718
			30:COM17	-	18:COM5	-	26:COM13	26:COM13
	6512	-ve	2.155	0.000	0.011	0.112	0.030	15.481
			20:COM7	-	24:COM11	35:CVOL4	24:COM11	35:CVOL4
			-1.095	-12.044	-0.013	0.000	-0.036	0.000
			30:COM17	35:CVOL4	18:COM5	-	18:COM5	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
16235	6509	+ve	2.642	7.349	0.006	0.192	0.021	3.049
			20:COM7	34:CVOL3	24:COM11	35:CVOL4	16:COM3	34:CVOL3
			-2.135	0.000	-0.007	0.000	-0.018	0.000
			30:COM17	-	18:COM5	-	26:COM13	-
	6476	-ve	2.642	0.000	0.006	0.192	0.014	13.004
			20:COM7	-	24:COM11	35:CVOL4	28:COM15	35:CVOL4
			-2.135	-10.973	-0.007	0.000	-0.018	0.000
			30:COM17	35:CVOL4	18:COM5	-	22:COM9	-
16236	6506	+ve	2.716	7.186	0.014	0.107	0.023	5.017
			20:COM7	35:CVOL4	20:COM7	35:CVOL4	28:COM15	20:COM7
			-1.704	0.000	-0.013	0.000	-0.027	0.000
			30:COM17	-	30:COM17	-	22:COM9	-
	6503	-ve	2.716	0.000	0.014	0.107	0.025	1.470
			20:COM7	-	20:COM7	35:CVOL4	20:COM7	16:COM3
			-1.704	-4.835	-0.013	0.000	-0.023	-1.581
			30:COM17	34:CVOL3	30:COM17	-	30:COM17	26:COM13
16237	6507	+ve	3.401	5.989	0.018	0.092	0.025	1.654
			20:COM7	35:CVOL4	28:COM15	35:CVOL4	20:COM7	35:CVOL4
			-2.347	0.000	-0.018	0.000	-0.026	0.000
			30:COM17	-	22:COM9	-	30:COM17	-
	6484	-ve	3.401	0.000	0.018	0.092	0.025	0.000
			20:COM7	-	28:COM15	35:CVOL4	28:COM15	-
			-2.347	-3.556	-0.018	0.000	-0.026	-2.291
			30:COM17	34:CVOL3	22:COM9	-	22:COM9	18:COM5
16239	6513	+ve	8.209	0.000	1.505	7.738	1.008	0.000
			16:COM3	-	28:COM15	35:CVOL4	20:COM7	-
			-0.014	-13.412	-1.969	0.000	-0.810	-12.496
			26:COM13	35:CVOL4	22:COM9	-	30:COM17	34:CVOL3
	6529	-ve	8.209	0.000	1.505	7.738	0.170	0.461
			16:COM3	-	28:COM15	35:CVOL4	28:COM15	24:COM11
			-0.014	-14.144	-1.969	0.000	-0.267	-5.084
			26:COM13	35:CVOL4	22:COM9	-	22:COM9	18:COM5
16240	6513	+ve	4.030	4.426	0.129	0.000	0.078	1.361
			20:COM7	34:CVOL3	28:COM15	-	20:COM7	35:CVOL4
			-3.249	0.000	-0.158	-0.177	-0.065	0.000
			30:COM17	-	22:COM9	34:CVOL3	30:COM17	-
	6509	-ve	4.030	1.281	0.129	0.000	0.057	0.000
			20:COM7	34:CVOL3	28:COM15	-	28:COM15	-
			-3.249	0.000	-0.158	-0.177	-0.071	-1.350
			30:COM17	-	22:COM9	34:CVOL3	22:COM9	18:COM5
16241	6514	+ve	11.661	0.000	0.568	1.138	0.366	0.000
			20:COM7	-	28:COM15	16:COM3	20:COM7	-
			-4.070	-6.521	-0.709	-0.041	-0.280	-26.394
			30:COM17	35:CVOL4	22:COM9	26:COM13	30:COM17	34:CVOL3
	6495	-ve	11.661	0.000	0.568	1.138	0.461	0.000
			20:COM7	-	28:COM15	16:COM3	28:COM15	-
			-4.070	-8.021	-0.709	-0.041	-0.559	-16.944
			30:COM17	35:CVOL4	22:COM9	26:COM13	22:COM9	34:CVOL3

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
16242	6514	+ve	3.606	4.108	0.051	0.000	0.054	0.000
			20:COM7	34:CVOL3	28:COM15	-	20:COM7	-
			-2.842	0.000	-0.058	-0.036	-0.048	-0.581
			30:COM17	-	22:COM9	34:CVOL3	30:COM17	33:CVOL2
	6508	-ve	3.606	0.000	0.051	0.000	0.049	0.000
			20:COM7	-	28:COM15	-	28:COM15	-
			-2.842	-2.235	-0.058	-0.036	-0.057	-1.907
			30:COM17	35:CVOL4	22:COM9	34:CVOL3	22:COM9	18:COM5
16243	6494	+ve	2.250	6.864	0.024	0.215	0.038	6.305
			16:COM3	35:CVOL4	20:COM7	16:COM3	28:COM15	20:COM7
			-0.216	0.000	-0.021	0.000	-0.046	-0.306
			26:COM13	-	30:COM17	-	22:COM9	30:COM17
	6516	-ve	2.250	0.000	0.024	0.215	0.041	1.933
			16:COM3	-	20:COM7	16:COM3	20:COM7	20:COM7
			-0.216	-5.204	-0.021	0.000	-0.036	0.000
			26:COM13	34:CVOL3	30:COM17	-	30:COM17	-
16244	6515	+ve	6.018	1.416	1.644	2.364	2.058	0.246
			16:COM3	33:CVOL2	20:COM7	20:COM7	28:COM15	24:COM17
			-4.956	0.000	-0.893	0.000	-2.285	-0.128
			26:COM13	-	30:COM17	-	22:COM9	18:COM5
	6517	-ve	6.018	0.000	1.644	2.364	0.916	1.205
			16:COM3	-	20:COM7	20:COM7	34:CVOL3	16:COM3
			-4.956	-2.344	-0.893	0.000	0.000	0.000
			26:COM13	32:CVOL1	30:COM17	-	-	-
16245	6516	+ve	12.071	0.531	0.398	0.000	0.083	0.000
			20:COM7	28:COM15	20:COM7	-	28:COM15	-
			-11.731	-0.492	-0.117	-3.510	-0.333	-14.030
			30:COM17	22:COM9	30:COM17	18:COM5	22:COM9	34:CVOL3
	6518	-ve	12.071	0.000	0.398	0.000	0.408	0.000
			20:COM7	-	20:COM7	-	20:COM7	-
			-11.731	-2.103	-0.117	-3.510	-0.135	-11.974
			30:COM17	22:COM9	30:COM17	18:COM5	30:COM17	34:CVOL3
16247	6516	+ve	1.047	6.772	0.004	0.073	0.012	2.611
			20:COM7	35:CVOL4	28:COM15	34:CVOL3	16:COM3	34:CVOL3
			0.000	0.000	-0.006	0.000	-0.010	0.000
			-	-	22:COM9	-	26:COM13	-
	6515	-ve	1.047	0.000	0.004	0.073	0.012	8.424
			20:COM7	-	28:COM15	34:CVOL3	28:COM15	34:CVOL3
			0.000	-9.197	-0.006	0.000	-0.016	0.000
			-	34:CVOL3	22:COM9	-	22:COM9	-
16248	6517	+ve	4.525	2.563	2.370	2.790	0.459	0.791
			16:COM3	16:COM3	20:COM7	20:COM7	28:COM15	16:COM3
			-4.436	0.000	0.000	0.000	-2.529	-0.264
			26:COM13	-	-	-	22:COM9	26:COM13
	6478	-ve	4.525	0.000	2.370	2.790	1.977	2.189
			16:COM3	-	20:COM7	20:COM7	34:CVOL3	16:COM3
			-4.436	-2.925	0.000	0.000	0.000	-1.187
			26:COM13	18:COM5	-	-	-	26:COM13

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
16249	6518	+ve	10.546	0.000	0.389	0.000	0.225	0.000
			20:COM7	-	20:COM7	-	28:COM15	-
			-8.688	-16.330	-0.260	-3.139	-0.325	-12.385
			30:COM17	34:CVOL3	30:COM17	35:CVOL4	22:COM9	34:CVOL3
	6490	-ve	10.546	0.000	0.389	0.000	0.399	19.528
			20:COM7	-	20:COM7	-	20:COM7	34:CVOL3
			-8.688	-17.941	-0.260	-3.139	-0.260	0.000
			30:COM17	34:CVOL3	30:COM17	35:CVOL4	30:COM17	-
16250	6517	+ve	1.495	8.614	0.004	0.000	0.011	7.739
			20:COM7	34:CVOL3	24:COM11	-	20:COM7	34:CVOL3
			-0.382	0.000	-0.004	-0.067	-0.010	0.000
			30:COM17	-	18:COM5	34:CVOL3	30:COM17	-
	6518	-ve	1.495	0.000	0.004	0.000	0.009	5.048
			20:COM7	-	24:COM11	-	24:COM11	35:CVOL4
			-0.382	-7.503	-0.004	-0.067	-0.010	0.000
			30:COM17	35:CVOL4	18:COM5	34:CVOL3	18:COM5	-
16251	6518	+ve	1.608	6.922	0.017	0.336	0.028	5.364
			20:COM7	34:CVOL3	20:COM7	34:CVOL3	28:COM15	35:CVOL4
			-0.458	0.000	-0.016	0.000	-0.030	0.000
			30:COM17	-	30:COM17	-	22:COM9	-
	6503	-ve	1.608	0.000	0.017	0.336	0.030	2.202
			20:COM7	-	20:COM7	34:CVOL3	20:COM7	20:COM7
			-0.458	-4.985	-0.016	0.000	-0.028	-0.150
			30:COM17	35:CVOL4	30:COM17	-	30:COM17	30:COM17
16252	6525	+ve	10.750	2.567	2.071	1.314	3.385	1.590
			24:COM17	20:COM7	20:COM7	28:COM15	28:COM15	20:COM7
			-11.428	0.000	-1.127	-1.781	-3.551	0.000
			18:COM5	-	30:COM17	22:COM9	22:COM9	-
	6515	-ve	10.750	0.000	2.071	1.314	1.989	0.008
			24:COM17	-	20:COM7	28:COM15	20:COM7	24:COM17
			-11.428	-0.709	-1.127	-1.781	-0.667	-0.349
			18:COM5	32:CVOL1	30:COM17	22:COM9	30:COM17	35:CVOL4
16253	6525	+ve	3.069	8.738	0.006	0.114	0.023	6.925
			20:COM7	34:CVOL3	28:COM15	34:CVOL3	20:COM7	34:CVOL3
			-1.690	0.000	-0.008	0.000	-0.017	0.000
			30:COM17	-	22:COM9	-	30:COM17	-
	6344	-ve	3.069	0.000	0.006	0.114	0.009	3.044
			20:COM7	-	28:COM15	34:CVOL3	28:COM15	34:CVOL3
			-1.690	-7.107	-0.008	0.000	-0.013	0.000
			30:COM17	35:CVOL4	22:COM9	-	22:COM9	-
16293	6527	+ve	1.631	0.000	1.265	4.583	0.496	0.000
			28:COM15	-	28:COM15	35:CVOL4	16:COM3	-
			-2.472	-3.688	-1.301	0.000	-0.392	-3.868
			22:COM9	35:CVOL4	22:COM9	-	26:COM13	35:CVOL4
	6474	-ve	1.631	0.000	1.265	4.583	2.523	4.474
			28:COM15	-	28:COM15	35:CVOL4	20:COM7	35:CVOL4
			-2.472	-6.516	-1.301	0.000	-2.478	0.000
			22:COM9	35:CVOL4	22:COM9	-	30:COM17	-

Beam End Forces Envelope Cont...

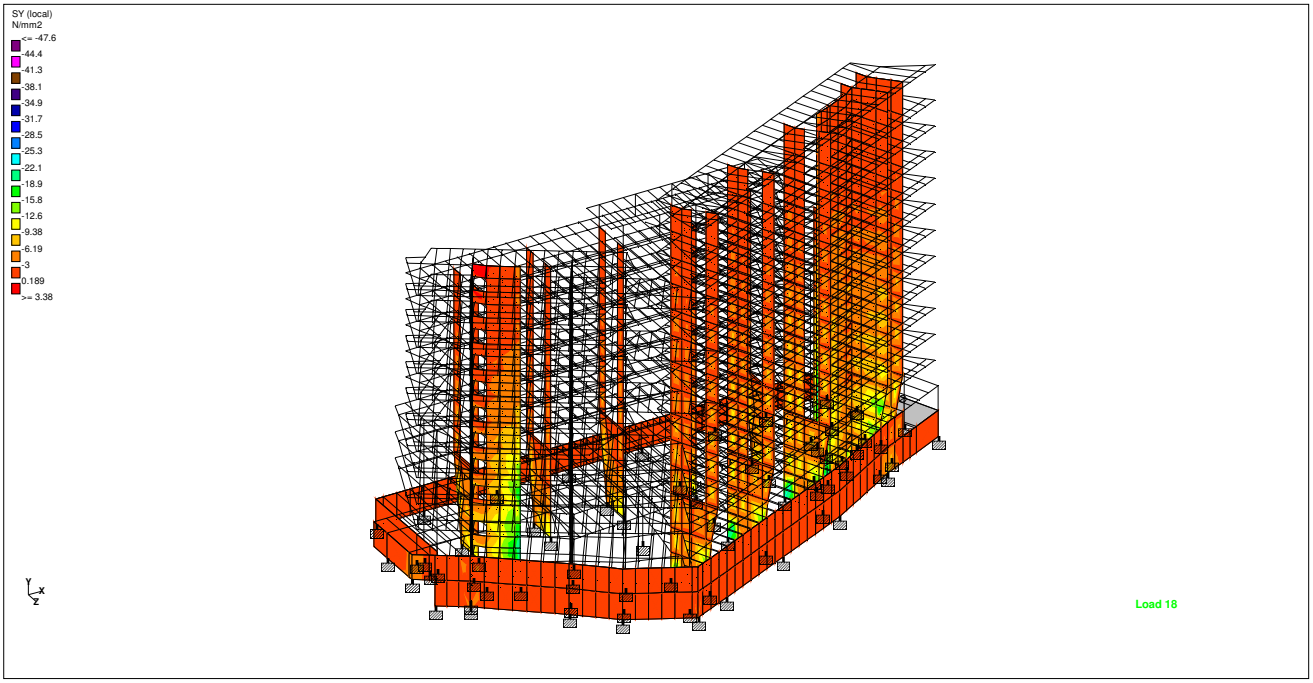
Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
16294	6528	+ve	3.251	0.000	1.124	1.579	0.769	0.000
			20:COM7	-	28:COM15	34:CVOL3	20:COM7	-
			-1.170	-6.435	-1.309	0.000	-0.660	-6.781
			30:COM17	35:CVOL4	22:COM9	-	30:COM17	34:CVOL3
	6488	-ve	3.251	0.000	1.124	1.579	1.177	5.465
			20:COM7	-	28:COM15	34:CVOL3	28:COM15	16:COM3
			-1.170	-7.849	-1.309	0.000	-1.371	0.000
			30:COM17	35:CVOL4	22:COM9	-	22:COM9	-
16295	6528	+ve	0.506	7.813	0.006	0.000	0.017	6.895
			16:COM3	35:CVOL4	28:COM15	-	20:COM7	35:CVOL4
			-0.256	0.000	-0.007	-0.020	-0.014	0.000
			26:COM13	-	22:COM9	34:CVOL3	30:COM17	-
	6527	-ve	0.506	0.000	0.006	0.000	0.015	5.362
			16:COM3	-	28:COM15	-	28:COM15	34:CVOL3
			-0.256	-7.183	-0.007	-0.020	-0.018	0.000
			26:COM13	34:CVOL3	22:COM9	34:CVOL3	22:COM9	-
16296	6529	+ve	11.820	0.000	0.835	6.041	0.476	0.350
			20:COM7	-	28:COM15	35:CVOL4	16:COM3	24:COM17
			-3.388	-18.423	-0.940	0.000	-0.432	-5.268
			30:COM17	35:CVOL4	22:COM9	-	26:COM13	18:COM5
	6482	-ve	11.820	0.000	0.835	6.041	0.999	27.701
			20:COM7	-	28:COM15	35:CVOL4	28:COM15	35:CVOL4
			-3.388	-20.309	-0.940	0.000	-1.126	0.000
			30:COM17	35:CVOL4	22:COM9	-	22:COM9	-
16297	6529	+ve	0.868	4.279	0.017	0.000	0.035	1.698
			20:COM7	34:CVOL3	28:COM15	-	20:COM7	34:CVOL3
			-0.633	0.000	-0.019	-0.223	-0.032	0.000
			30:COM17	-	22:COM9	34:CVOL3	30:COM17	-
	6528	-ve	0.868	0.000	0.017	0.000	0.030	5.725
			20:COM7	-	28:COM15	-	28:COM15	35:CVOL4
			-0.633	-6.564	-0.019	-0.223	-0.034	0.000
			30:COM17	35:CVOL4	22:COM9	34:CVOL3	22:COM9	-
16302	4898	+ve	1.515	12.301	1.506	0.000	3.073	25.096
			20:COM7	15:COM2	16:COM3	-	16:COM3	15:COM2
			-1.515	0.000	-1.506	-0.000	-3.073	0.000
			22:COM9	-	18:COM5	32:CVOL1	18:COM5	-
	6530	-ve	1.515	12.301	1.506	0.000	0.000	0.000
			20:COM7	15:COM2	16:COM3	-	-	33:CVOL2
			-1.515	0.000	-1.506	-0.000	-0.000	0.000
			22:COM9	-	18:COM5	32:CVOL1	33:CVOL2	-
16303	5051	+ve	2.029	12.301	1.782	0.000	3.479	24.019
			20:COM7	15:COM2	16:COM3	35:CVOL4	16:COM3	15:COM2
			-2.029	0.000	-1.782	0.000	-3.479	0.000
			22:COM9	-	18:COM5	-	18:COM5	-
	6531	-ve	2.029	12.301	1.782	0.000	0.000	0.000
			20:COM7	15:COM2	16:COM3	35:CVOL4	34:CVOL3	33:CVOL2
			-2.029	0.000	-1.782	0.000	0.000	-0.000
			22:COM9	-	18:COM5	-	-	34:CVOL3

Beam End Forces Envelope Cont...

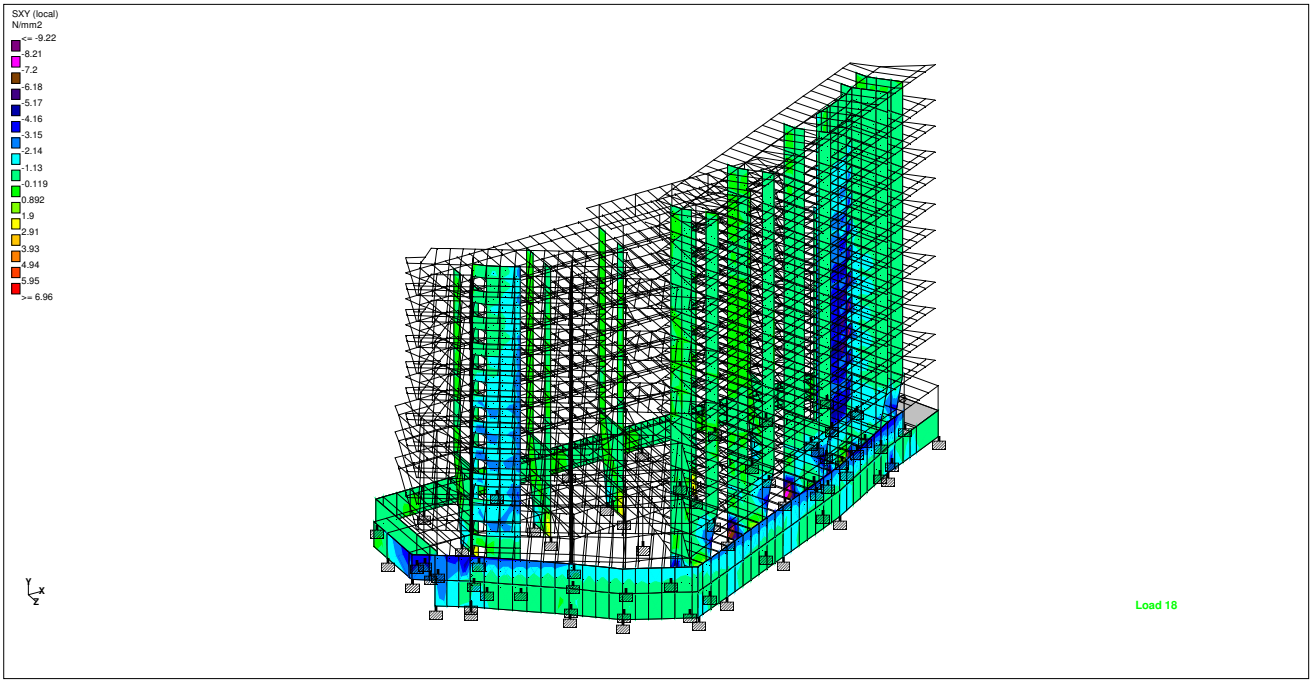
Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
16304	5117	+ve	1.818	12.301	1.735	0.000	3.388	24.019
			20:COM7	15:COM2	16:COM3	34:CVOL3	16:COM3	15:COM2
			-1.818	0.000	-1.735	-0.000	-3.388	0.000
			22:COM9	-	18:COM5	33:CVOL2	18:COM5	-
	6532	-ve	1.818	12.301	1.735	0.000	0.000	0.000
			20:COM7	15:COM2	16:COM3	34:CVOL3	33:CVOL2	32:CVOL1
			-1.818	0.000	-1.735	-0.000	-0.000	-0.000
			22:COM9	-	18:COM5	33:CVOL2	32:CVOL1	35:CVOL4

Plate Center Stress Summary

			Shear		Membrane			Bending		
	Plate	L/C	Qx (N/mm^2)	Qy (N/mm^2)	Sx (N/mm^2)	Sy (N/mm^2)	Sxy (N/mm^2)	Mx (MTon-m/m)	My (MTon-m/m)	Mxy (MTon-m/m)
Max Qx	14789	34:CVOL3	**0.743**	-0.884	0.795	-1.107	-0.743	6.018	29.947	-5.204
Min Qx	14790	34:CVOL3	**-0.964**	-0.988	-1.371	-1.751	-1.141	-6.210	-63.462	-14.622
Max Qy	571	16:COM3	0.081	**1.164**	-2.444	-9.001	13.553	1.706	6.421	8.614
Min Qy	5421	18:COM5	-0.143	**-1.083**	-0.887	-12.664	-0.388	-1.058	-20.828	-19.050
Max Sx	13973	24:COM11	0.073	0.046	**13.547**	0.257	0.659	1.686	2.009	1.381
Min Sx	13973	18:COM5	-0.054	0.013	**-31.859**	-0.186	-2.106	-0.459	-2.443	-1.938
Max Sy	1607	24:COM11	0.049	0.083	2.136	**21.440**	12.517	1.050	5.181	2.364
Min Sy	14767	18:COM5	-0.030	-0.116	-5.370	**-46.695**	1.143	-2.148	-3.158	-1.992
Max Sxy	571	20:COM7	0.019	0.874	-2.178	-3.456	**15.654**	1.321	4.891	6.832
Min Sxy	14687	22:COM9	-0.090	-0.155	-6.192	-22.626	**-9.332**	-0.820	-3.536	0.189
Max Mx	499	16:COM3	0.075	0.052	-1.668	-0.094	0.443	**9.479**	2.788	-0.227
Min Mx	605	18:COM5	-0.467	-0.804	-0.247	-11.097	-0.096	**-8.236**	-12.416	-11.058
Max My	14775	20:COM7	0.583	-0.390	0.879	1.022	0.077	5.630	**33.856**	-5.213
Min My	14790	34:CVOL3	-0.964	-0.988	-1.371	-1.751	-1.141	-6.210	**-63.462**	-14.622
Max Mxy	13126	16:COM3	0.047	0.645	-0.066	-1.876	0.560	0.839	1.662	**25.695**
Min Mxy	13116	18:COM5	-0.038	-0.966	-0.348	-7.791	-0.495	-1.030	-2.514	**-22.017**



ESFUERZO EN MUROS (Input data was modified after picture taken)



CORTANTE EN MUROS (Input data was modified after picture taken)

Memoria de Diseño de Columnas

Columna C5

Es 1

Nivel	H Piso	Losa	B	H	fpc	m1	m2	p	v1	v2	vc	Refuerzo	Sobreesfuerzo
N+46.55m	3.40	.80	.90	Circ	49	-116.82	-27.58	-71.29	69.14	15.09	94.50	27/8 (2.2%)	0.84
						173.58	39.23					50/7 (3.0%)	0.96
N+42.35m	3.40	.80	.90	Circ	49	-163.34	-66.20	-98.98	62.37	31.67	94.50	50/7 (3.0%)	0.91
						83.13	48.83					27/8 (2.2%)	0.64
N+38.15m	3.40	.80	.90	Circ	49	-82.34	-12.68	-166.87	60.60	13.87	94.50	27/8 (2.2%)	0.50
						158.02	41.05					27/8 (2.2%)	0.98
N+33.95m	3.40	.80	.90	Circ	49	-155.81	-52.99	-209.04	57.66	24.38	94.50	27/8 (2.2%)	0.94
						73.71	36.72					27/8 (2.2%)	0.47
N+29.75m	3.40	.80	.90	Circ	49	66.20	33.52	-149.01	61.55	17.37	94.50	27/8 (2.2%)	0.46
						163.45	39.70					27/8 (2.2%)	0.89
N+25.55m	3.40	.80	.90	Circ	49	-167.80	-37.61	-334.40	64.58	17.38	94.50	27/8 (2.2%)	0.87
						86.26	35.43					20/8 (1.6%)	0.54
N+21.35m	3.40	.80	.90	Circ	49	53.97	34.28	-235.07	44.13	29.26	94.49	20/8 (1.6%)	0.41
						-65.04	-77.75					20/8 (1.6%)	0.66
N+17.15m	3.40	.80	.90	Circ	49	-153.90	2.04	-637.46	71.82	48.57	94.49	20/8 (1.6%)	0.74
						147.77	-10.97					20/8 (1.6%)	0.71
N+12.95m	3.40	.80	.90	Circ	49	-159.00	13.13	-717.66	93.05	62.13	94.49	20/8 (1.6%)	0.75
						215.22	39.28					20/10 (2.6%)	0.94
N+8.75m	3.60	2.20	.90	Circ	49	-144.02	-10.77	-774.77	42.46	27.42	94.49	20/8 (1.6%)	0.68
						102.25	2.56					20/8 (1.6%)	0.48
N+2.95m	3.40	.60	.90	Circ	49	-23.27	30.87	-840.80	12.78	17.29	94.49	20/8 (1.6%)	0.18
						7.30	-49.82					20/7 (1.2%)	0.26
N-1.05m	3.60	.60	.90	Circ	49	-17.72	30.57	-1006.12	7.07	15.05	94.49	20/7 (1.2%)	0.19
N-5.25m		1.50				-3.80	-30.32					20/7 (1.2%)	0.19

Memoria de Diseño de Columnas

Columna C3

Es 1

Nivel	H Piso	Losa	B	H	fpc	m1	m2	p	v1	v2	vc	Refuerzo	Sobreesfuerzo
N+17.15m						80.72	126.90					35/8 (2.8%)	0.96
	3.40	.80	.90	Circ	49			-2.90	54.93	53.90	94.50		
						-61.73	-89.64					35/8 (2.8%)	0.69
N+12.95m						50.70	61.94					35/8 (2.8%)	0.51
	3.40	.80	.90	Circ	49			-4.70	46.37	46.58	94.50		
						-77.12	-132.78					35/8 (2.8%)	0.98
N+8.75m						63.04	95.38					35/8 (2.8%)	0.74
	4.20	1.60	.90	Circ	49			3.54	34.84	33.01	94.50		
						-49.00	-83.83					31/8 (2.5%)	0.70
N+2.95m						31.79	17.70					31/8 (2.5%)	0.24
	3.40	.60	.90	Circ	49			-46.62	18.23	15.90	94.50		
						-11.82	-34.52					27/7 (1.6%)	0.33
N-1.05m						2.59	12.81					27/7 (1.6%)	0.11
	3.60	.60	.90	Circ	49			-88.15	8.91	13.14	94.50		
N-5.25m		1.50				-6.35	-31.07					17/7 (1.0%)	0.35

Columna C4

Es 1

Nivel	H Piso	Losa	B	H	fpc	m1	m2	p	v1	v2	vc	Refuerzo	Sobreesfuerzo
N+17.15m						64.58	136.83					20/10 (2.6%)	1.00
	3.40	.80	.90	Circ	49			-30.50	49.16	57.93	94.50		
						-47.40	-106.48					20/10 (2.6%)	0.77
N+12.95m						43.21	56.67					20/10 (2.6%)	0.52
	3.40	.80	.90	Circ	49			25.71	38.65	40.40	94.50		
						-56.08	-98.18					27/8 (2.2%)	0.97
N+8.75m						42.78	70.88					27/8 (2.2%)	0.74
	5.49	1.14	.90	Circ	49			47.64	32.11	30.17	94.50		
						-38.83	-81.47					27/8 (2.2%)	0.81
N+2.12m						44.52	43.32					27/8 (2.2%)	0.35
	2.57	.60	.90	Circ	49			-211.68	13.23	24.24	94.50		
						-10.60	-44.06					20/8 (1.6%)	0.48
N-1.05m						7.09	26.73					20/8 (1.6%)	0.19
	3.60	.60	.90	Circ	49			-198.21	6.76	16.88	94.50		
N-5.25m		1.50				-7.95	-32.99					20/8 (1.6%)	0.32

Memoria de Diseño de Columnas

Columna C7

Es 1

Nivel	H Piso	Losa	B	H	fpc	m1	m2	p	v1	v2	vc	Refuerzo	Sobreesfuerzo
N+2.95m						6.85	84.78					12/10 (2.6%)	0.98
	3.40	.60	.70	Circ	49			-125.51	19.49	38.45	57.17		
						-12.84	-56.14					12/8 (1.6%)	1.04
N-1.05m						-0.06	25.45					12/8 (1.6%)	0.30
	3.60	.60	.70	Circ	49			-249.41	3.40	12.67	57.16		
N-5.25m		1.50				-3.33	-18.70					12/8 (1.6%)	0.28

Columna C8

Son 2

Nivel	H Piso	Losa	B	H	fpc	m1	m2	p	v1	v2	vc	Refuerzo	Sobreesfuerzo
N+2.95m						-23.48	-80.49					14/8 (1.9%)	0.98
	3.40	.60	.70	Circ	49			-203.96	15.90	38.66	57.16		
						19.39	74.14					14/8 (1.9%)	0.90
N-1.05m						-5.10	-29.94					14/7 (1.4%)	0.33
	3.60	.60	.70	Circ	49			-378.65	1.04	14.04	57.16		
N-5.25m		1.50				2.12	23.44					14/7 (1.4%)	0.25

Columna C9

Son 3

Nivel	H Piso	Losa	B	H	fpc	m1	m2	p	v1	v2	vc	Refuerzo	Sobreesfuerzo
N-1.05m						4.34	0.29					8/5 4 (1.1%)	0.46
	3.60	.60	.40	.30	49			-27.38	1.87	1.51	14.00		
N-5.25m		1.00				-2.49	-1.56					8/5 4 (1.1%)	0.32

Memoria de Diseño de Columnas

Columna C10

Es 1

Nivel	H Piso	Losa	B	H	fpc	m1	m2	p	v1	v2	vc	Refuerzo	Sobreesfuerzo
N+2.12m						22.98	24.29					10/7 (1.6%)	0.94
	2.57	.60	.60	.40	49			-8.01	10.22	13.05	28.00		
N-1.05m		.60				-17.92	-27.89					10/7 (1.6%)	0.89

Columna C11

Es 1

Nivel	H Piso	Losa	B	H	fpc	m1	m2	p	v1	v2	vc	Refuerzo	Sobreesfuerzo
N+2.71m						30.74	28.14					14/7 6 (1.9%)	1.00
	3.16	.60	.60	.40	49			-21.13	11.59	17.05	28.00		
N-1.05m		.60				-11.50	-33.55					14/7 6 (1.9%)	0.80

Columna C12

Es 1

Nivel	H Piso	Losa	B	H	fpc	m1	m2	p	v1	v2	vc	Refuerzo	Sobreesfuerzo
N+2.95m						32.93	36.57					12/8 (2.5%)	0.98
	3.40	.60	.60	.40	49			-24.91	12.35	18.16	28.00		
N-1.05m		.60				-16.46	-36.07					12/8 (2.5%)	0.70

Memoria de Diseño de Columnas

Columna C6

Es 1

Nivel	H Piso	Losa	B	H	fpc	m1	m2	p	v1	v2	vc	Refuerzo	Sobreesfuerzo
N 21.35						102.02	279.10					44/10 (3.8%)	0.90
	3.20	1.00	1.10	Circ	49			183.46	43.43	134.29	141.16		
						-60.16	-284.93					44/10 (3.8%)	0.88
N 17.15						36.82	158.75					44/10 (3.8%)	0.83
	7.40	1.00	1.10	Circ	49			623.47	21.45	40.26	141.16		
						-75.15	-175.91					44/10 (3.8%)	0.97
N 8.75						77.56	119.15					44/10 (3.8%)	1.65
	4.30	1.50	1.10	Circ	49			879.66	26.99	36.03	141.16		
						-28.64	-85.50					44/10 (3.8%)	1.05
N 2.95						7.43	13.57					44/10 (3.8%)	0.43
	3.40	.60	1.10	Circ	49			934.82	23.00	24.62	141.15		
						-36.27	-79.80					44/10 (3.8%)	1.46
N-1.05						35.68	14.76					44/10 (3.8%)	0.80
	3.60	.60	1.10	Circ	49			958.97	9.71	16.27	141.15		
N-1.05		1.00				-13.14	-62.12					44/10 (3.8%)	1.31

Columna C1

Es 1

Nivel	H Piso	Losa	B	H	fpc	m1	m2	p	v1	v2	vc	Refuerzo	Sobreesfuerzo
N 17.15						15.28	-396.80					35/10 (3.6%)	1.25
	3.40	.80	1.00	Circ	49			-174.18	72.23	164.78	128.33		
						-8.14	295.29					35/10 (3.6%)	0.93
N 12.95						20.10	-215.72					35/10 (3.6%)	0.62
	3.40	.80	1.00	Circ	49			-325.96	71.71	128.10	128.33		
						81.02	322.46					35/10 (3.6%)	0.96
N 8.75						173.02	60.64					40/8 (2.6%)	0.81
	3.60	2.20	1.00	Circ	49			-78.59	51.01	59.65	128.33		
						-111.30	-52.60					20/8 (1.3%)	0.92
N 2.95						40.62	44.43					20/8 (1.3%)	0.36
	3.40	.60	1.00	Circ	49			-190.05	20.41	20.04	128.33		
						-72.71	-51.74					20/8 (1.3%)	0.61
N-1.05						3.74	46.02					20/8 (1.3%)	0.26
	3.60	.60	1.00	Circ	49			-216.90	10.76	13.14	128.33		
N-1.05		2.00				-15.82	-8.68					20/8 (1.3%)	0.11

Memoria de Diseño de Columnas

Columna C2

Es 1

Nivel	H Piso	Losa	B	H	fpc	m1	m2	p	v1	v2	vc	Refuerzo	Sobreesfuerzo
N 17.15						32.15	160.64					20/10 (2.1%)	0.98
	3.40	.80	1.00	Circ	49			-10.33	18.15	70.64	105.00		
						-28.32	-136.04					20/10 (2.1%)	0.83
N 12.95						10.53	106.95					20/10 (2.1%)	0.65
	3.40	.80	1.00	Circ	49			-6.28	6.54	60.37	105.00		
						-22.29	-135.30					20/10 (2.1%)	0.91
N 8.75						23.25	76.18					23/8 (1.5%)	0.89
	3.80	2.00	1.00	Circ	49			103.95	12.82	23.08	105.00		
						-35.54	-57.05					20/8 (1.3%)	0.91
N 2.95						39.97	14.34					20/8 (1.3%)	0.58
	3.40	.60	1.00	Circ	49			104.45	33.08	8.33	105.00		
						-57.81	-37.41					20/8 (1.3%)	0.94
N-1.05						-13.54	35.55					20/8 (1.3%)	0.30
	3.40	.80	1.00	Circ	49			-60.09	14.42	10.81	105.00		
N-1.05		2.00				-6.15	-5.98					20/8 (1.3%)	0.12

Memoria de Diseño de Columnas

Columna C19

Son 7

Nivel	H Piso	Losa	B	H	fpc	m1	m2	p	v1	v2	vc	Refuerzo	Sobreesfuerzo
NE+41.95m						3.31	-1.20					10/4 (1.0%)	0.45
	3.40	.40	.40	Circ	49			-20.25	0.92	0.64	18.67		
NE+38.15m		.80				0.00	0.00					10/4 (1.0%)	0.23

Columna C20

Son 2

Nivel	H Piso	Losa	B	H	fpc	m1	m2	p	v1	v2	vc	Refuerzo	Sobreesfuerzo
NE+41.95m						7.83	8.88					9/6 (2.0%)	0.97
	3.40	.40	.40	Circ	49			-30.78	2.17	2.47	18.67		
NE+38.15m		.80				0.00	0.00					9/6 (2.0%)	0.48

Memoria de Diseño de Columnas

Columna C13

Es 1

Nivel	H Piso	Losa	B	H	fpc	m1	m2	p	v1	v2	vc	Refuerzo	Sobreesfuerzo
N+38.15m						-152.74	-573.41					32/10 8 (2.2%)	0.91
	3.40	.80	1.60	.60	49			-207.63	72.59	214.78	112.00		
						-139.47	-248.33					32/8 (1.7%)	0.71
N+33.95m						123.73	258.22					32/8 (1.7%)	0.72
	3.40	.80	1.60	.60	49			38.56	60.90	149.21	112.00		
						-122.32	-253.00					32/8 (1.7%)	0.71
N+29.75m						138.97	252.83					32/8 (1.7%)	0.76
	3.40	.80	1.60	.60	49			60.00	72.61	172.38	111.99		
						-154.86	-343.18					32/8 (1.7%)	0.98
N+25.55m						170.73	312.21					32/10 8 (2.2%)	0.79
	3.40	.80	1.60	.60	49			136.54	85.50	195.64	111.99		
						-172.79	-367.87					32/10 8 (2.2%)	0.90
N+21.35m						136.29	268.30					32/10 8 (2.2%)	0.73
	3.40	.80	1.60	.60	49			205.51	58.61	167.36	111.99		
						-86.99	-298.53					32/8 10 (2.2%)	0.74
N+17.15m						51.44	127.53					32/8 (1.7%)	0.50
	3.40	.80	1.60	.60	49			233.01	68.64	122.55	111.99		
						-56.57	-223.24					32/8 (1.7%)	0.82
NE+12.95m						58.15	127.88					32/8 (1.7%)	0.54
	3.40	.80	1.60	.60	49			251.41	75.43	121.25	111.99		
N+8.75m		2.20				-66.47	-369.45					32/10 8 (2.2%)	0.95

Columna C14

Son 5

Nivel	H Piso	Losa	B	H	fpc	m1	m2	p	v1	v2	vc	Refuerzo	Sobreesfuerzo
N+8.75m						69.20	254.69					34/6 7 (1.0%)	0.66
	3.40	.80	1.80	.60	49			-69.77	39.83	83.82	126.00		
						-56.57	-101.90					34/6 7 (1.0%)	0.30
N+33.95m						52.46	149.57					34/6 7 (1.0%)	0.42
	3.40	.80	1.80	.60	49			-41.01	39.42	75.52	126.00		
						-49.31	-133.44					34/6 7 (1.0%)	0.38
N+29.75m						50.95	98.37					34/6 7 (1.0%)	0.29
	3.40	.80	1.80	.60	49			-64.43	39.13	67.01	126.00		
						-50.29	-150.50					34/6 7 (1.0%)	0.40
N+25.55m						52.26	77.23					34/6 7 (1.0%)	0.23
	3.40	.80	1.80	.60	49			-91.46	41.09	62.71	125.99		
						-57.68	-158.96					34/6 7 (1.0%)	0.41

Memoria de Diseño de Columnas

Columna C14

Son 5

Nivel	H Piso	Losa	B	H	fpc	m1	m2	p	v1	v2	vc	Refuerzo	Sobreesfuerzo
N+21.35m						45.96	74.44					34/6 7 (1.0%)	0.21
	3.40	.80	1.80	.60	49			-124.08	31.54	64.93	125.99		
						-32.34	-180.47					34/6 7 (1.0%)	0.42
N+17.15m						-91.44	4.97					34/6 7 (1.0%)	0.33
	3.40	.80	1.80	.60	49			-551.95	48.00	43.78	125.99		
						-26.37	-162.50					34/6 7 (1.0%)	0.36
NE+12.95m						-75.11	-3.90					34/6 7 (1.0%)	0.26
	3.40	.80	1.80	.60	49			-616.61	53.23	67.87	125.99		
N+8.75m		1.40				-57.74	-275.64					34/6 7 (1.0%)	0.58

Columna C15

Son 3

Nivel	H Piso	Losa	B	H	fpc	m1	m2	p	v1	v2	vc	Refuerzo	Sobreesfuerzo
N+38.15m						-62.38	-221.72					30/6 7 (1.0%)	0.66
	3.40	.80	1.60	.60	49			-120.44	43.42	64.77	112.00		
						-65.84	2.98					30/6 7 (1.0%)	0.43
N+33.95m						-69.58	-0.02					30/6 7 (1.0%)	0.55
	3.40	.80	1.60	.60	49			-107.68	39.20	32.47	112.00		
						67.28	9.58					30/6 7 (1.0%)	0.33
N+29.75m						-67.11	-4.17					30/6 7 (1.0%)	0.38
	3.40	.80	1.60	.60	49			-156.66	37.99	30.30	112.00		
						66.00	4.51					30/6 7 (1.0%)	0.37
N+25.55m						77.42	6.98					30/6 7 (1.0%)	0.40
	3.40	.80	1.60	.60	49			-167.78	41.94	28.40	112.00		
						76.23	4.58					30/6 7 (1.0%)	0.41
N+21.35m						81.01	7.34					30/6 7 (1.0%)	0.39
	3.40	.80	1.60	.60	49			-208.36	39.72	28.93	112.00		
						70.88	6.99					30/6 7 (1.0%)	0.32
N+17.15m						65.19	-2.19					30/6 7 (1.0%)	0.33
	3.40	.80	1.60	.60	49			-336.48	35.47	34.44	111.99		
						36.32	138.24					30/6 7 (1.0%)	0.26
NE+12.95m						-60.26	2.87					30/6 7 (1.0%)	0.28
	3.40	.80	1.60	.60	49			-373.91	50.66	78.09	111.99		
N+8.75m		2.20				-72.07	-340.43					30/6 7 (1.0%)	0.84

Memoria de Diseño de Columnas

Columna C16

Es 1

Nivel	H Piso	Losa	B	H	fpc	m1	m2	p	v1	v2	vc	Refuerzo	Sobreesfuerzo
N+38.15m	3.40	.80	1.60	.60	49	-71.68 -74.64	-621.85 -297.78	-218.92	55.14	239.13	112.00	32/10 8 (2.2%) 32/8 (1.7%)	0.94 0.72
N+33.95m	3.40	.80	1.60	.60	49	71.90 -71.26	259.33 -295.50	24.92	51.64	157.89	112.00	32/8 (1.7%) 32/8 7 (1.5%)	0.65 0.83
N+29.75m	3.40	.80	1.60	.60	49	70.62 -71.10	242.52 -291.79	44.33	52.10	155.88	111.99	32/8 7 (1.5%) 32/8 7 (1.5%)	0.72 0.85
N+25.55m	3.40	.80	1.60	.60	49	64.94 -66.88	218.74 -307.73	62.00	51.00	151.32	111.99	32/8 7 (1.5%) 32/8 7 (1.5%)	0.67 0.92
N+21.35m	3.40	.80	1.60	.60	49	65.78 -66.91	163.12 -257.57	71.47	52.32	119.27	111.99	32/8 7 (1.5%) 32/7 (1.3%)	0.53 0.93
N+17.15m	3.40	.80	1.60	.60	49	61.33 -59.83	156.02 -241.32	82.63	48.21	125.18	111.99	32/7 (1.3%) 32/7 (1.3%)	0.61 0.89
NE+12.95m N+8.75m	3.40	.80 2.20	1.60	.60	49	58.83 -86.98	105.20 -304.10	84.01	60.80	99.59	111.99	32/7 (1.3%) 32/8 7 (1.5%)	0.45 0.97

Columna C17

Es 1

Nivel	H Piso	Losa	B	H	fpc	m1	m2	p	v1	v2	vc	Refuerzo	Sobreesfuerzo
N+46.55m	3.40	.80	1.95	.60	49	-113.15 84.16	-213.16 106.15	-144.97	46.91	75.10	136.50	36/7 6 (1.0%) 36/7 6 (1.0%)	0.48 0.28
N+42.35m	3.40	.80	1.95	.60	49	-99.31 -66.94	-151.45 1.59	-316.91	43.18	67.33	136.50	36/7 6 (1.0%) 36/7 6 (1.0%)	0.29 0.47
N+38.15m	3.40	.80	1.95	.60	49	59.50 78.42	-12.10 127.61	16.62	35.02	54.60	136.50	36/7 6 (1.0%) 36/7 6 (1.0%)	0.21 0.21
N+33.95m	3.40	.80	1.95	.60	49	65.65 -70.70	-22.40 -4.55	17.45	41.67	55.76	136.49	36/7 6 (1.0%) 36/7 6 (1.0%)	0.22 0.38

Memoria de Diseño de Columnas

Columna C17

Es 1

Nivel	H Piso	Losa	B	H	fpc	m1	m2	p	v1	v2	vc	Refuerzo	Sobreesfuerzo
N+29.75m						73.50	-17.76					36/7 6 (1.0%)	0.26
	3.40	.80	1.95	.60	49			27.80	38.58	60.58	136.49		
						-70.68	-9.88					36/7 6 (1.0%)	0.29
N+25.55m						60.93	-21.95					36/7 6 (1.0%)	0.21
	3.40	.80	1.95	.60	49			28.97	35.20	54.86	136.49		
						-55.74	-40.86					36/7 6 (1.0%)	0.20
N+21.35m						75.82	-7.00					36/7 6 (1.0%)	0.35
	3.40	.80	1.95	.60	49			26.76	49.40	58.58	136.49		
						-125.34	-99.45					36/7 6 (1.0%)	0.46
N+17.15m						117.51	-0.23					36/7 6 (1.0%)	0.98
	3.40	.80	1.95	.60	49			5.47	61.52	63.44	136.49		
						-120.37	-150.81					36/7 6 (1.0%)	0.51
NE+12.95m						107.91	7.29					36/7 6 (1.0%)	0.37
	3.40	.80	1.95	.60	49			-349.33	60.26	56.22	136.49		
N+8.75m		1.55				-133.96	-402.51					36/7 6 (1.0%)	0.98

Columna C18

Son 3

Nivel	H Piso	Losa	B	H	fpc	m1	m2	p	v1	v2	vc	Refuerzo	Sobreesfuerzo
N+57.88m						-29.34	-178.85					36/7 6 (1.0%)	0.35
	6.33	.80	1.95	.60	49			-140.28	9.50	31.72	136.50		
						8.92	96.89					36/7 6 (1.0%)	0.19
N+50.75m						-33.21	-212.61					36/7 6 (1.0%)	0.34
	3.40	.80	1.95	.60	49			-293.94	21.75	83.79	136.50		
						29.87	145.76					36/7 6 (1.0%)	0.24
N+46.55m						41.86	-1.72					36/7 6 (1.0%)	0.24
	3.40	.80	1.95	.60	49			-35.46	23.96	87.83	136.50		
						-50.89	-221.06					36/7 6 (1.0%)	0.64
N+42.35m						37.09	100.24					36/7 6 (1.0%)	0.33
	3.40	.80	1.95	.60	49			86.67	21.47	40.22	136.49		
						-32.77	-88.95					36/7 6 (1.0%)	0.29
N+38.15m						20.41	56.00					36/7 6 (1.0%)	0.18
	3.40	.80	1.95	.60	49			85.20	19.86	48.59	136.49		
						-46.55	-1.11					36/7 6 (1.0%)	0.22
N+33.95m						28.82	43.13					36/7 6 (1.0%)	0.16
	3.40	.80	1.95	.60	49			91.39	21.40	43.31	136.49		
						-39.05	-1.91					36/7 6 (1.0%)	0.19

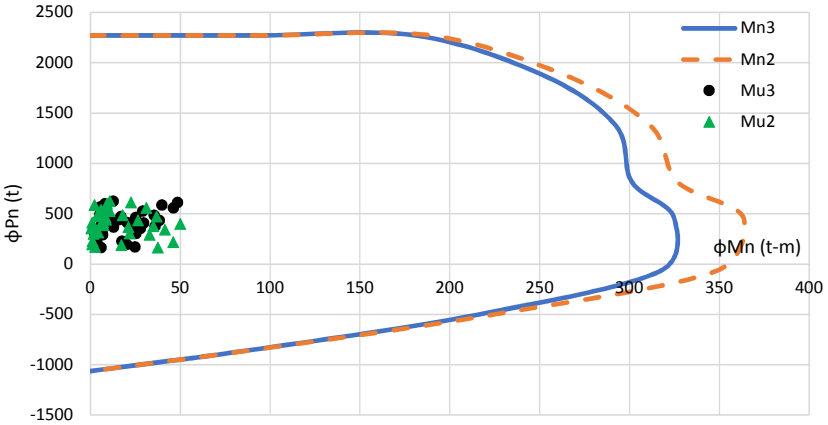
Memoria de Diseño de Columnas

Columna C18

Son 3

Nivel	H Piso	Losa	B	H	fpc	m1	m2	p	v1	v2	vc	Refuerzo	Sobreesfuerzo
N+29.75m	3.40	.80	1.95	.60	49	33.90	1.08	-355.42	20.37	50.31	136.49	36/7 6 (1.0%)	0.14
						-48.34	0.25					36/7 6 (1.0%)	0.23
N+25.55m	3.40	.80	1.95	.60	49	52.19	15.99	-177.66	22.34	51.11	136.49	36/7 6 (1.0%)	0.13
						-24.37	-80.42					36/7 6 (1.0%)	0.26
N+21.35m	3.40	.80	1.95	.60	49	32.53	0.55	-212.76	43.73	50.52	136.49	36/7 6 (1.0%)	0.17
						-31.38	-155.16					36/7 6 (1.0%)	0.48
N+17.15m	3.40	.80	1.95	.60	49	-110.48	-22.14	-787.13	67.79	41.44	136.49	36/7 6 (1.0%)	0.24
						-37.35	-213.28					36/7 8 (1.4%)	0.45
NE+12.95m	3.40	.80	1.95	.60	49	-114.67	-204.78	-1470.23	63.10	80.63	136.49	36/7 8 (1.4%)	0.26
N+8.75m		1.20				-44.61	-474.81					36/7 8 (1.4%)	0.94

DIAGRAMA INTERACCIÓN C1
(Sótano a Planta Baja)



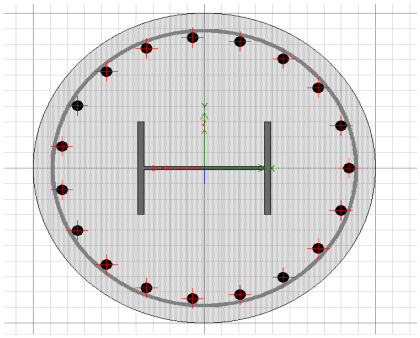
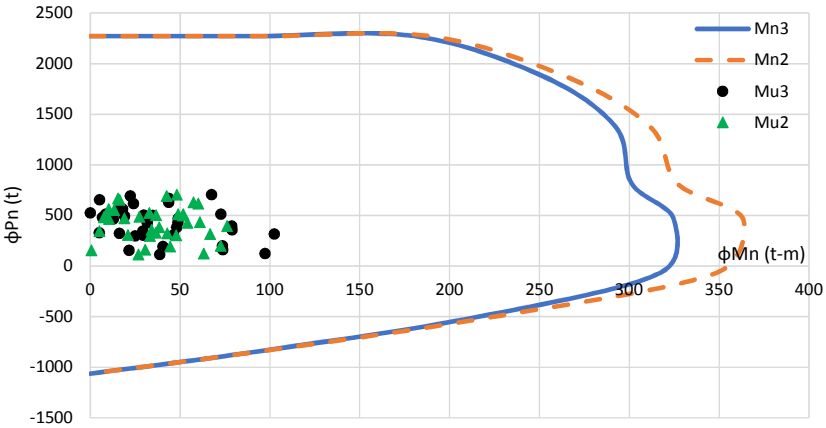


DIAGRAMA INTERACCIÓN C1
(Planta Baja a Piso 1)



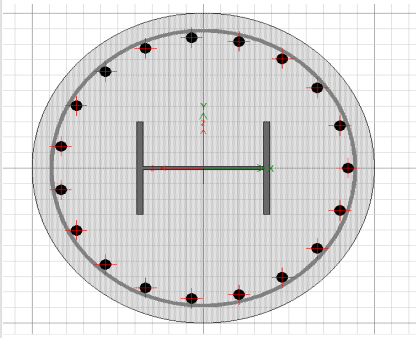
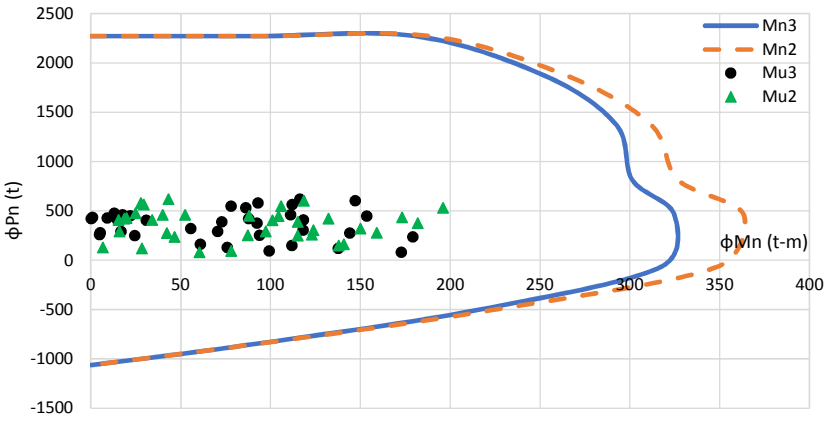
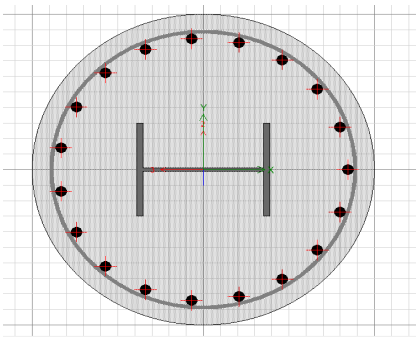
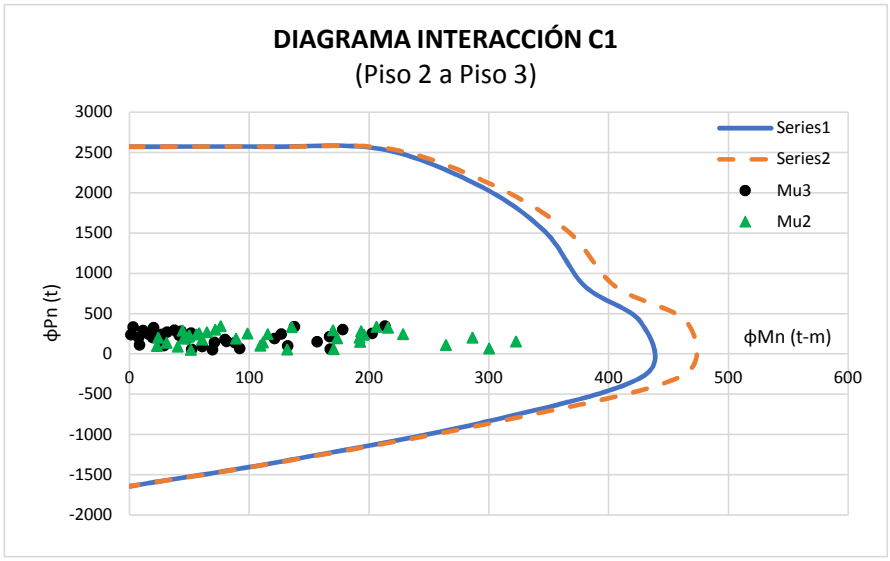
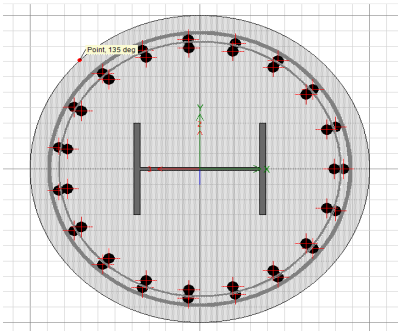


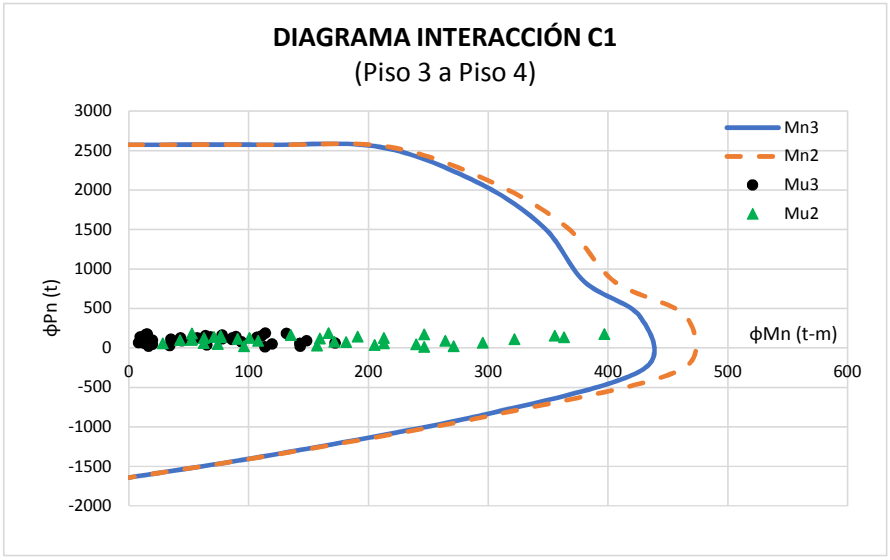
DIAGRAMA INTERACCIÓN C1
(Piso 1 a Piso 2)






DIAGRAMA INTERACCIÓN C1
(Piso 2 a Piso 3)
ϕPn (t)
ϕMn (t-m)
Series1
Series2
Mu3
Mu2
3000
2500
2000
1500
1000
500
0
-500
-1000
-1500
-2000
0
100
200
300
400
500
600




DIAGRAMA INTERACCIÓN C1
(Piso 3 a Piso 4)
ϕPn (t)
ϕMn (t-m)
Mn3
Mn2
Mu3
Mu2
3000
2500
2000
1500
1000
500
0
-500
-1000
-1500
-2000
0
100
200
300
400
500
600

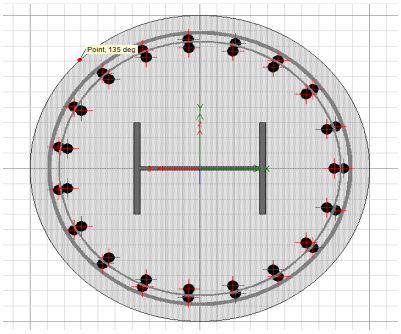
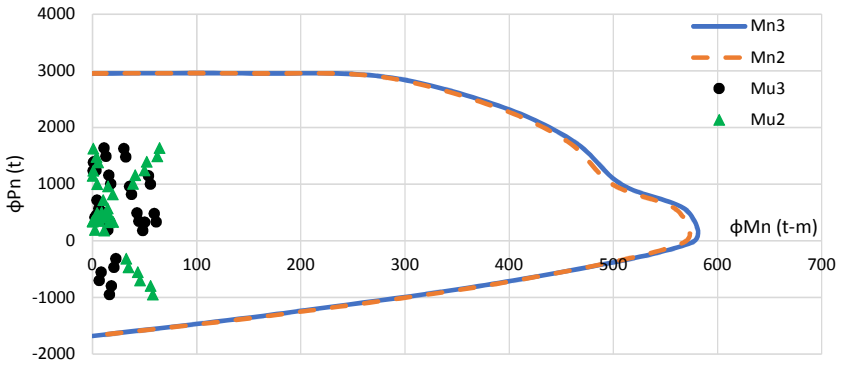


DIAGRAMA INTERACCIÓN C6
(Sótano a Planta Baja)



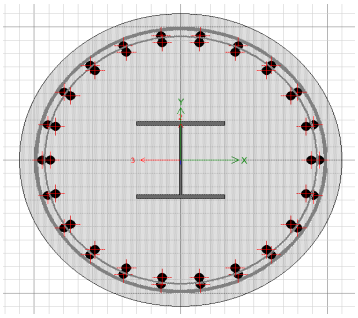
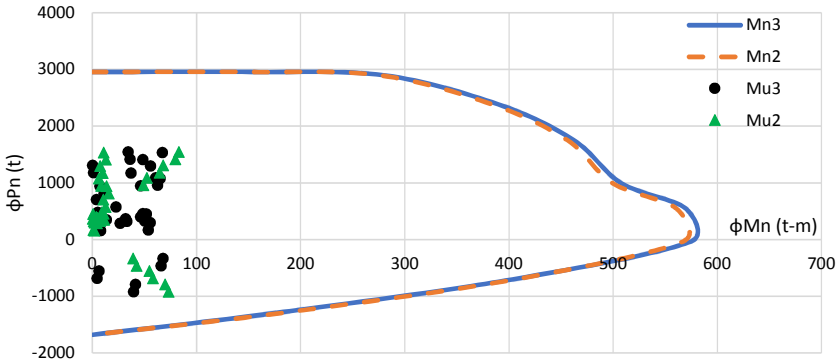


DIAGRAMA INTERACCIÓN C6
(Planta Baja a Piso 1)



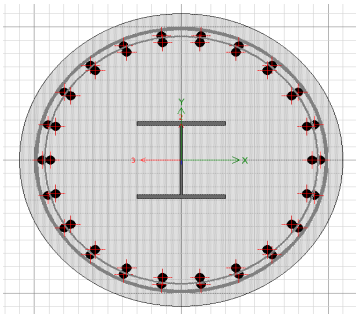
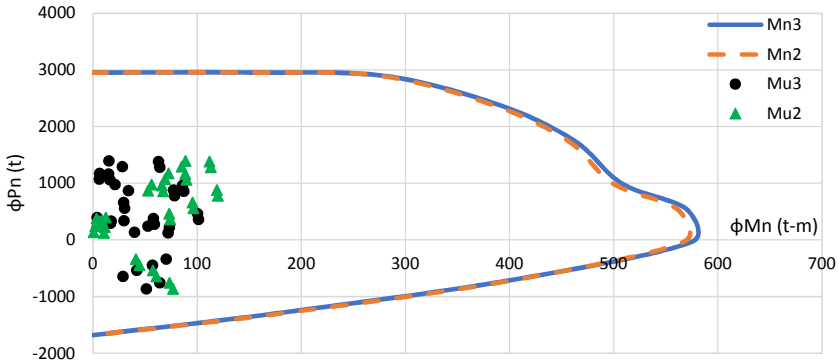
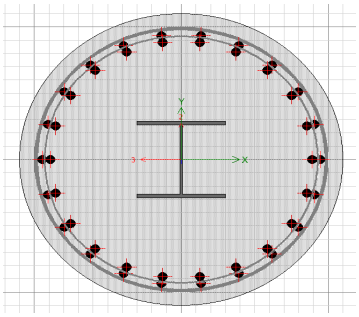
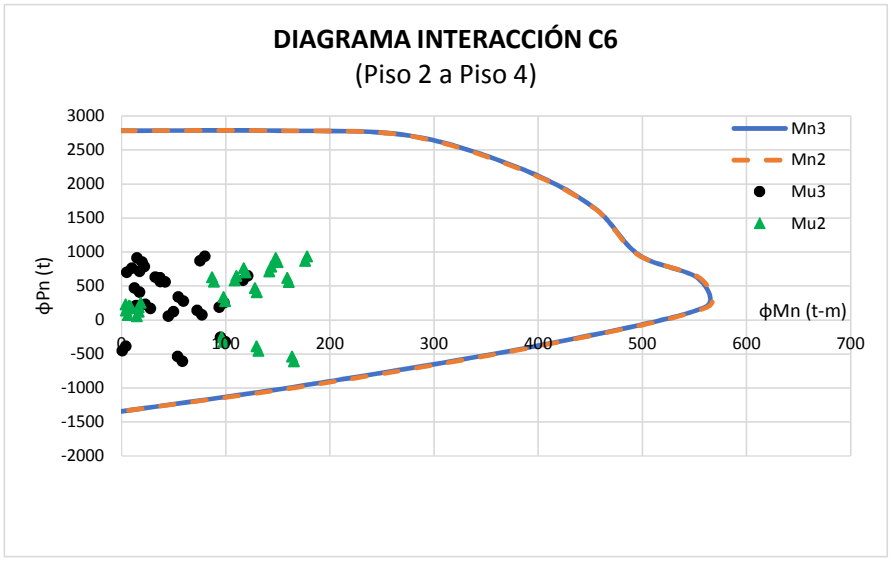
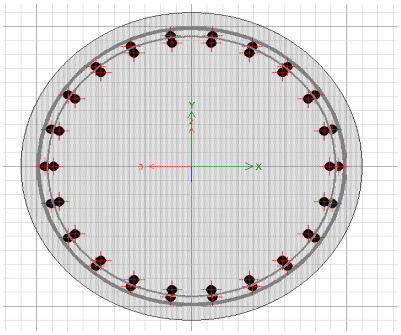


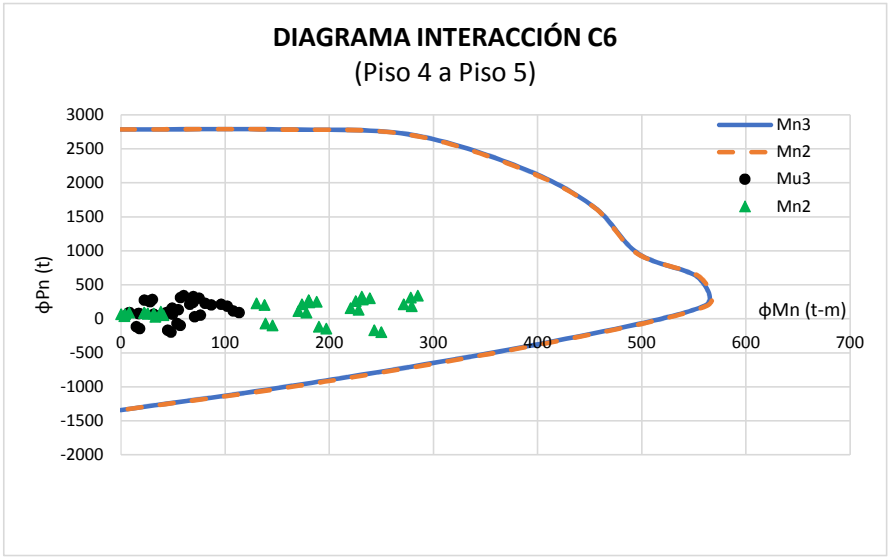
DIAGRAMA INTERACCIÓN C6
(Piso 1 a Piso 2)

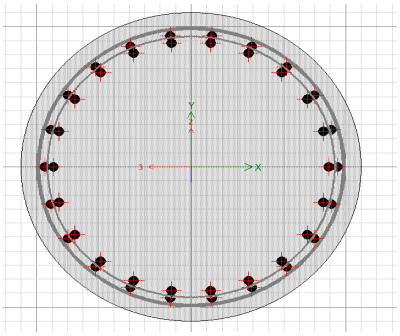





DIAGRAMA INTERACCIÓN C6
(Piso 2 a Piso 4)
ϕPn (t)
ϕMn (t-m)
Mn3
Mn2
Mu3
Mu2
3000
2500
2000
1500
1000
500
0
-500
-1000
-1500
-2000
0
100
200
300
400
500
600
700




DIAGRAMA INTERACCIÓN C6
(Piso 4 a Piso 5)
ϕPn (t)
ϕMn (t-m)
Mn3
Mn2
Mu3
Mn2
3000
2500
2000
1500
1000
500
0
-500
-1000
-1500
-2000
0
100
200
300
400
500
600
700



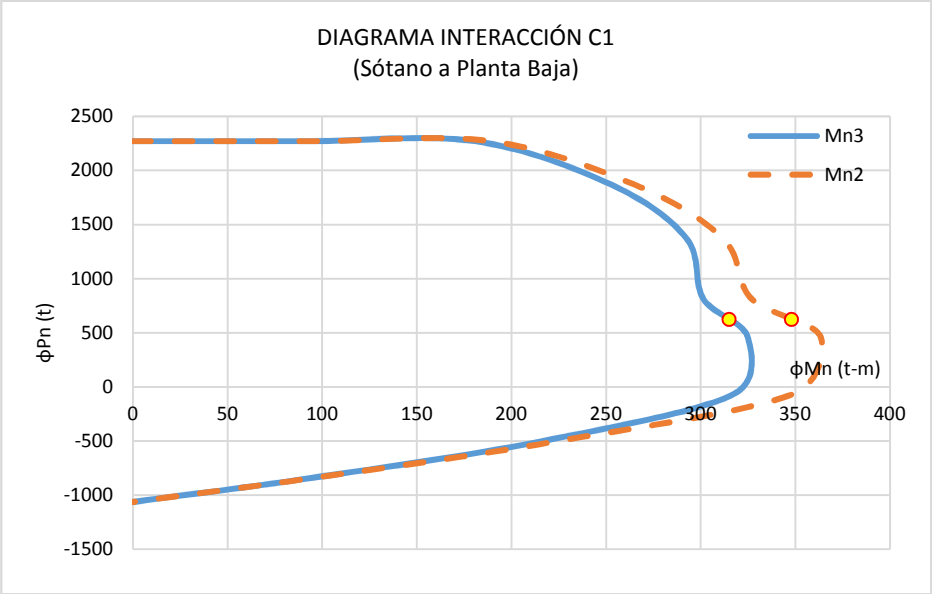
VERIFICACIÓN COLUMNA FUERTE - VIGA DÉBIL
SEGÚN C.21.3.6 DE NSR-10

COLUMNA: C1 PISO: PLANTA BAJA

f'c (MPa)	D (mm)	$P_{mín}$ (t)
49	1000	385

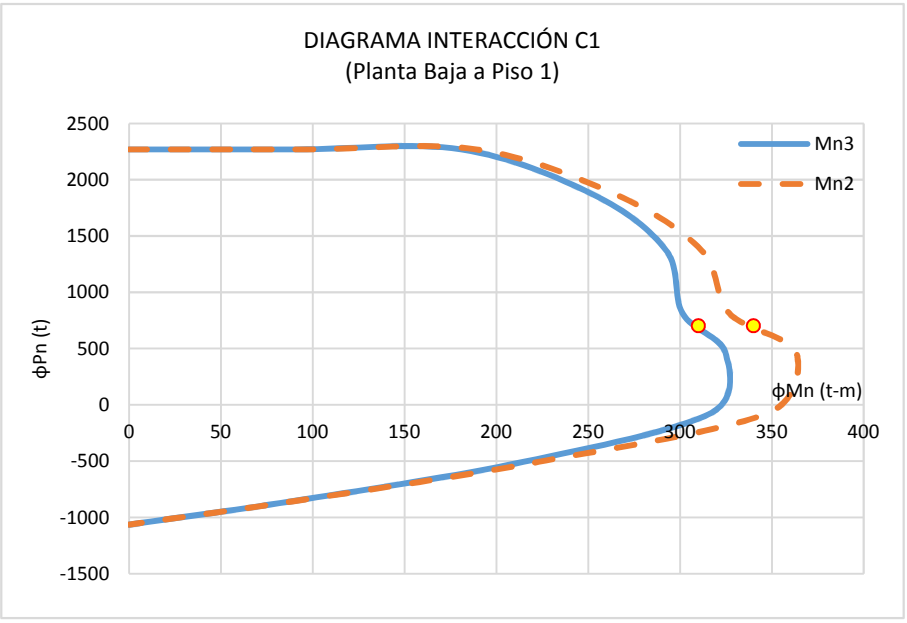
Pu<Pmín, hacer chequeo de columna fuerte viga débil

DIAGRAMA COLUMNA INFERIOR AL NUDO



P_u (t)= 622
ϕM_{n3} (t-m) = 315
ϕM_{n2} (t-m) = 348

DIAGRAMA COLUMNA SUPERIOR AL NUDO



P_u (t)= 702
ϕM_{n3} (t-m) = 310
ϕM_{n2} (t-m) = 340

VIGA: **V102** Nudo: **Eje 1B**

Fy (MPa) = 420
f'c (MPa) = 49

GEOMETRIA VIGA

b (mm)	h (mm)	$r_{1\ fila}$(mm)	$r_{2\ fila}$(mm)
600	600	50	80

1. Refuerzo de la viga

		Cantidad	# Barra	Cantidad	# Barra	As (mm2)
Ref. Superior	1ra fila	5	7			1940
	2da fila					0
Ref. Inferior	1ra fila	3	6	3	7	2019
	2da fila					0

2. Momento resistente en traccion y compresión

MOMENTO RESISTENTE IZQUIERDO			MOMENTO RESISTENTE DERECHO			M nudo
a (mm)	M_n (T-m)	ϕM_n (T-m)	a (mm)	Mn (T-m)	ϕ Mn (T-m)	ϕ Mn (T-m)
33	43.48	39.13	34	0.00	0.00	**39.13**

CHEQUEO NUDO, COLUMNA FUERTE VIGA DEBIL SEGÚN C.21.3.6

$\sum M_n c$ (t-m)= 625.00
$\sum M_n b$ (t-m)= 39.13

∑Mnc	**15.97**
∑Mnb	

VIGA: **V114** Nudo: **Eje 1B**

Fy (MPa) = 420
f'c (MPa) = 49

GEOMETRIA VIGA

b (mm)	h (mm)	$r_{1\ fila}$(mm)	$r_{2\ fila}$(mm)
1000	600	50	80

1. Refuerzo de la viga

		Cantidad	# Barra	Cantidad	# Barra	As (mm2)
Ref. Superior	1ra fila	7	6			1995
	2da fila					0
Ref. Inferior	1ra fila	4	5	4	6	1932
	2da fila					0

2. Momento resistente en traccion y compresión

MOMENTO RESISTENTE IZQUIERDO			MOMENTO RESISTENTE DERECHO			M nudo
a (mm)	M_n (T-m)	ϕM_n (T-m)	a (mm)	Mn (T-m)	ϕ Mn (T-m)	ϕ Mn (T-m)
20	45.25	40.72	19	0.00	0.00	**40.72**

CHEQUEO NUDO, COLUMNA FUERTE VIGA DEBIL SEGÚN C.21.3.6

$\sum M_n c$= 688.00
$\sum M_n b$= 40.72

∑Mnc	**16.90**
∑Mnb	

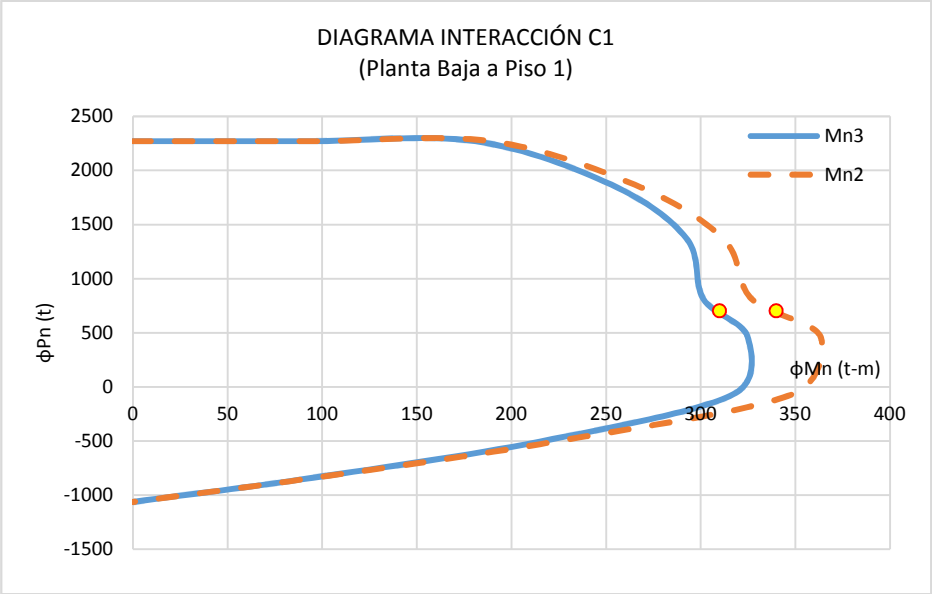
VERIFICACIÓN COLUMNA FUERTE - VIGA DÉBIL
SEGÚN C.21.3.6 DE NSR-10

COLUMNA: C1 PISO: PISO 1

f'c (MPa)	D (mm)	$P_{mín}$ (t)
49	1000	385

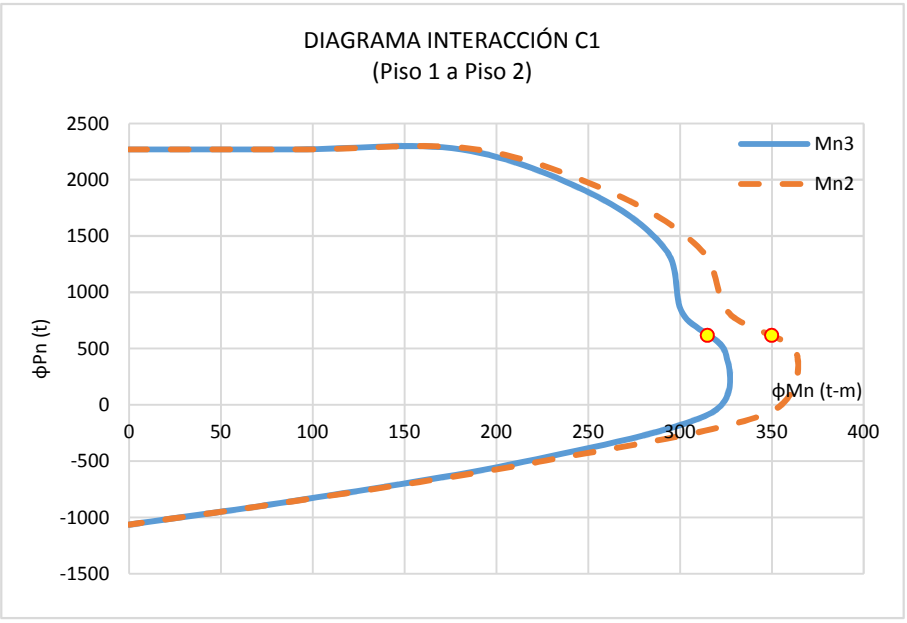
Pu<Pmín, hacer chequeo de columna fuerte viga débil

DIAGRAMA COLUMNA INFERIOR AL NUDO



P_u (t)= 702
ϕM_{n3} (t-m) = 310
ϕM_{n2} (t-m) = 340

DIAGRAMA COLUMNA SUPERIOR AL NUDO



P_u (t)= 617
ϕM_{n3} (t-m) = 315
ϕM_{n2} (t-m) = 350

VIGA: **V203** Nudo: **Eje 1B**

Fy (MPa) =	420
f'c (MPa) =	49

GEOMETRIA VIGA

b (mm)	h (mm)	$r_{1\ fila}$(mm)	$r_{2\ fila}$(mm)
650	600	50	80

1. Refuerzo de la viga

		Cantidad	# Barra	Cantidad	# Barra	As (mm2)
Ref. Superior	1ra fila	6	6	3	8	3230
	2da fila	2	8			1013
Ref. Inferior	1ra fila	3	6	4	6	1995
	2da fila					0

2. Momento resistente en traccion y compresión

MOMENTO RESISTENTE IZQUIERDO			**MOMENTO RESISTENTE DERECHO**			**M nudo**
a (mm)	M_n (T-m)	ϕM_n (T-m)	a (mm)	Mn (T-m)	ϕ Mn (T-m)	ϕ Mn (T-m)
66	88.76	79.88	31	0.00	0.00	**79.88**

CHEQUEO NUDO, COLUMNA FUERTE VIGA DEBIL SEGÚN C.21.3.6

$\sum M_n c$ (t-m)=	625.00
$\sum M_n b$ (t-m)=	79.88

$\sum$Mnc	**7.82**
$\sum$Mnb	

VIGA: **V214** Nudo: **Eje 1B**

Fy (MPa) =	420
f'c (MPa) =	49

GEOMETRIA VIGA

b (mm)	h (mm)	$r_{1\ fila}$(mm)	$r_{2\ fila}$(mm)
1000	600	50	80

1. Refuerzo de la viga

		Cantidad	# Barra	Cantidad	# Barra	As (mm2)
Ref. Superior	1ra fila	5	5			990
	2da fila	3	7			1164
Ref. Inferior	1ra fila	3	5	2	5	990
	2da fila	3	6			855

2. Momento resistente en traccion y compresión

MOMENTO RESISTENTE IZQUIERDO			**MOMENTO RESISTENTE DERECHO**			**M nudo**
a (mm)	M_n (T-m)	ϕM_n (T-m)	a (mm)	Mn (T-m)	ϕ Mn (T-m)	ϕ Mn (T-m)
22	44.85	40.37	19	0.00	0.00	**40.37**

CHEQUEO NUDO, COLUMNA FUERTE VIGA DEBIL SEGÚN C.21.3.6

$\sum M_n c$=	690.00
$\sum M_n b$=	40.37

$\sum$Mnc	**17.09**
$\sum$Mnb	

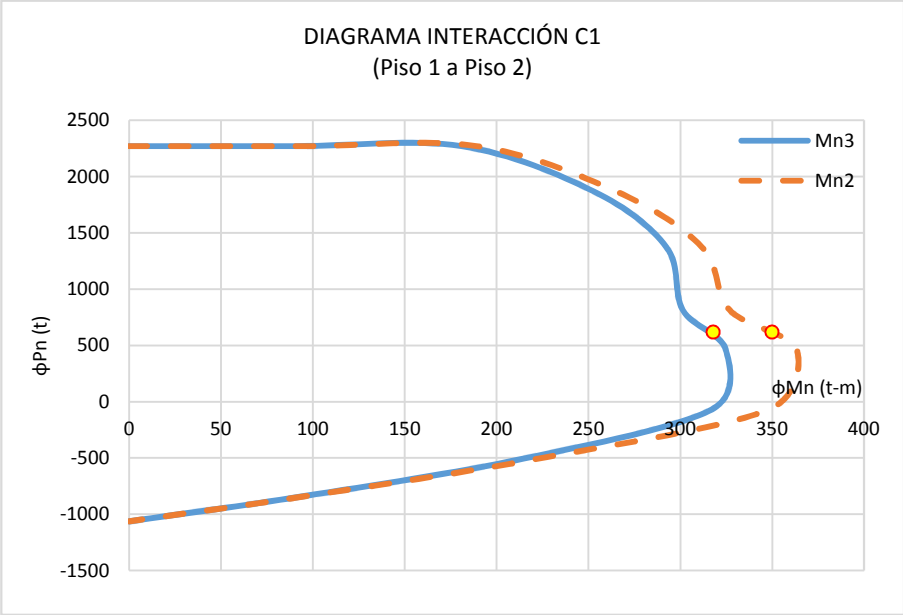
VERIFICACIÓN COLUMNA FUERTE - VIGA DÉBIL
SEGÚN C.21.3.6 DE NSR-10

COLUMNA: C1 PISO: PISO 2

f'c (MPa)	D (mm)	$P_{mín}$ (t)
49	1000	385

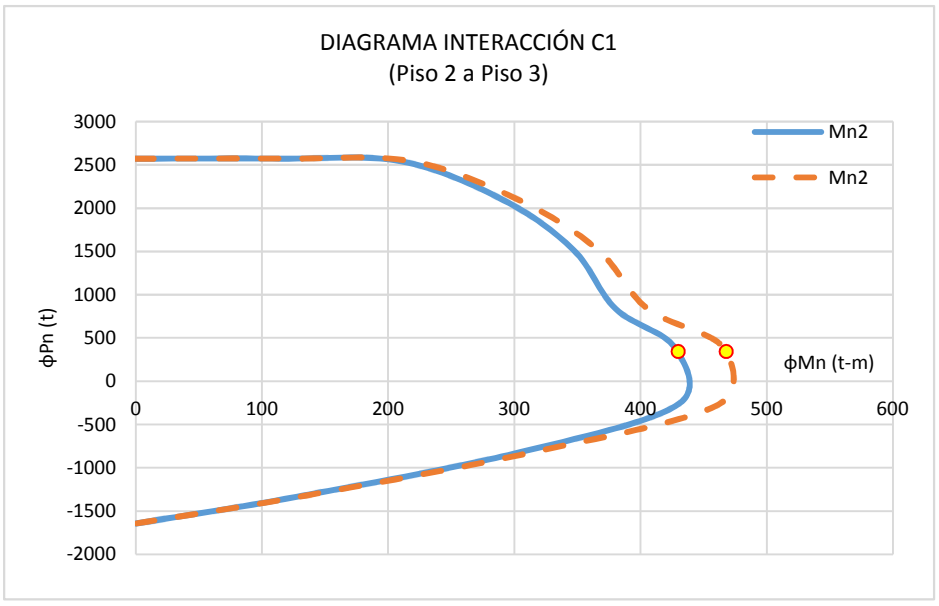
Pu<Pmín, hacer chequeo de columna fuerte viga débil

DIAGRAMA COLUMNA INFERIOR AL NUDO



P_u (t)= 617
ϕM_{n3} (t-m) = 318
ϕM_{n2} (t-m) = 350

DIAGRAMA COLUMNA SUPERIOR AL NUDO



P_u (t)= 343
ϕM_{n3} (t-m) = 430
ϕM_{n2} (t-m) = 468

VIGA: **V301** Nudo: **Eje 1B**

Fy (MPa) = 420
f'c (MPa) = 49

GEOMETRIA VIGA

b (mm)	h (mm)	$r_{1\ fila}$(mm)	$r_{2\ fila}$(mm)
500	2200	50	80

1. Refuerzo de la viga

		Cantidad	# Barra	Cantidad	# Barra	As (mm2)
Ref. Superior	1ra fila	5	10	1	10	4750
	2da fila	3	8			1520
Ref. Inferior	1ra fila	4	8	3	8	3547
	2da fila					0

2. Momento resistente en traccion y compresión

MOMENTO RESISTENTE IZQUIERDO			**MOMENTO RESISTENTE DERECHO**			**M nudo**
a (mm)	M_n (T-m)	ϕM_n (T-m)	a (mm)	Mn (T-m)	ϕ Mn (T-m)	ϕ Mn (T-m)
126	544.47	490.02	72	0.00	0.00	**490.02**

CHEQUEO NUDO, COLUMNA FUERTE VIGA DEBIL SEGÚN C.21.3.6

$\sum M_n c$ (t-m)= 748.00
$\sum M_n b$ (t-m)= 490.02

$\sum$Mnc	**1.53**
$\sum$Mnb	

VIGA: **V307** Nudo: **Eje 1B**

Fy (MPa) = 420
f'c (MPa) = 49

GEOMETRIA VIGA

b (mm)	h (mm)	$r_{1\ fila}$(mm)	$r_{2\ fila}$(mm)
600	2220	50	80

1. Refuerzo de la viga

		Cantidad	# Barra	Cantidad	# Barra	As (mm2)
Ref. Superior	1ra fila	5	10	3	10	6334
	2da fila	2	7			776
Ref. Inferior	1ra fila	5	10			3959
	2da fila					0

2. Momento resistente en traccion y compresión

MOMENTO RESISTENTE IZQUIERDO			**MOMENTO RESISTENTE DERECHO**			**M nudo**
a (mm)	M_n (T-m)	ϕM_n (T-m)	a (mm)	Mn (T-m)	ϕ Mn (T-m)	ϕ Mn (T-m)
119	627.53	564.78	67	0.00	0.00	**564.78**

CHEQUEO NUDO, COLUMNA FUERTE VIGA DEBIL SEGÚN C.21.3.6

$\sum M_n c$= 818.00
$\sum M_n b$= 564.78

$\sum$Mnc	**1.45**
$\sum$Mnb	

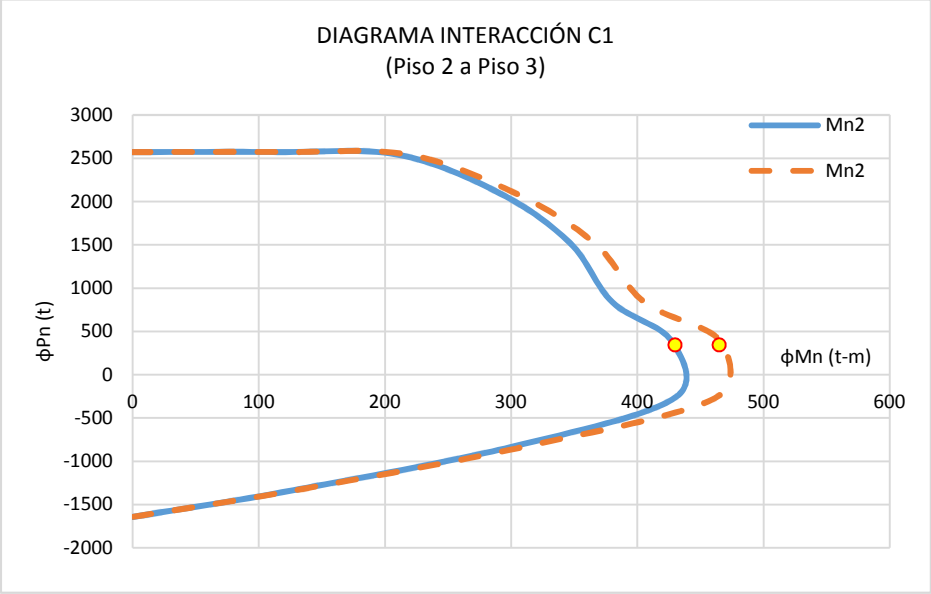
VERIFICACIÓN COLUMNA FUERTE - VIGA DÉBIL
SEGÚN C.21.3.6 DE NSR-10

COLUMNA: C1 PISO: PISO 3

f'c (MPa)	D (mm)	$P_{mín}$ (t)
49	1000	385

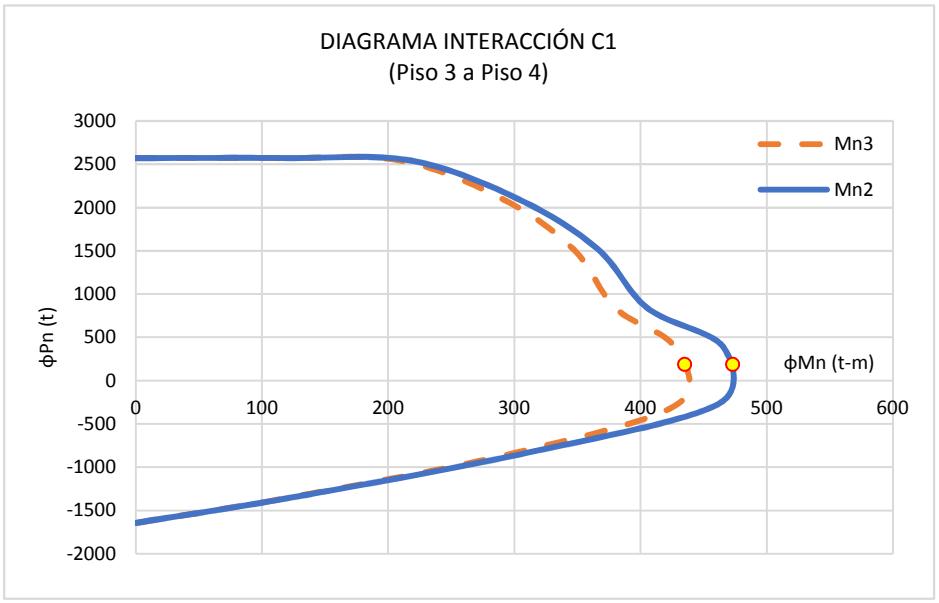
No aplica chequeo de columna fuerte viga debil porque el esfuerzo a compresión en la columna es menor al 10 % de su capacidad

DIAGRAMA COLUMNA INFERIOR AL NUDO



P_u (t)= 343
ϕM_{n3} (t-m) = 430
ϕM_{n2} (t-m) = 465

DIAGRAMA COLUMNA SUPERIOR AL NUDO



P_u (t)= 185
ϕM_{n3} (t-m) = 435
ϕM_{n2} (t-m) = 473

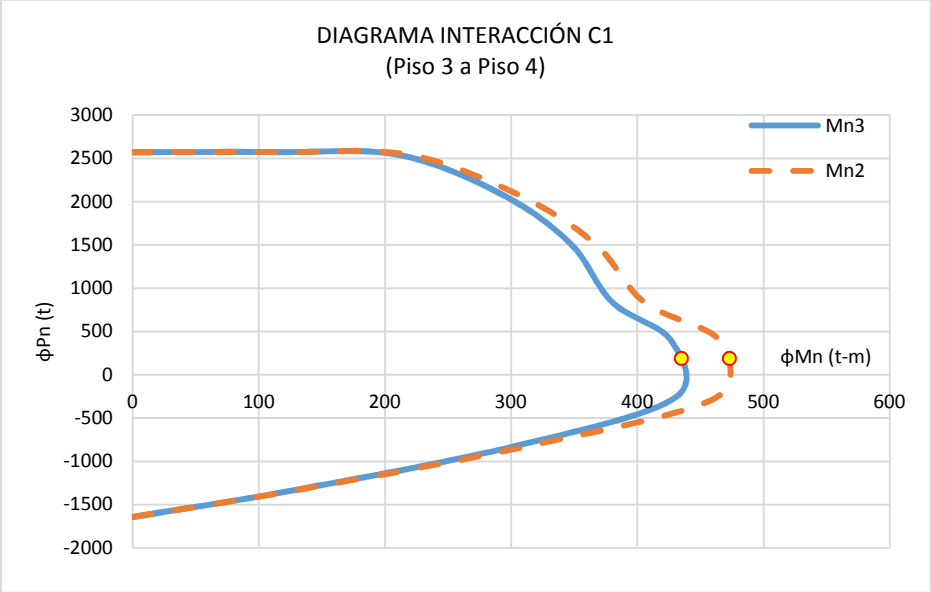
VERIFICACIÓN COLUMNA FUERTE - VIGA DÉBIL
SEGÚN C.21.3.6 DE NSR-10

COLUMNA: C1 PISO: PISO 4

f'c (MPa)	D (mm)	$P_{mín}$ (t)
49	1000	385

No aplica chequeo de columna fuerte viga debil porque el esfuerzo a compresión en la columna es menor al 10 % de su capacidad

DIAGRAMA COLUMNA INFERIOR AL NUDO



P_u (t)= 185
ϕM_{n3} (t-m) = 435
ϕM_{n2} (t-m) = 473

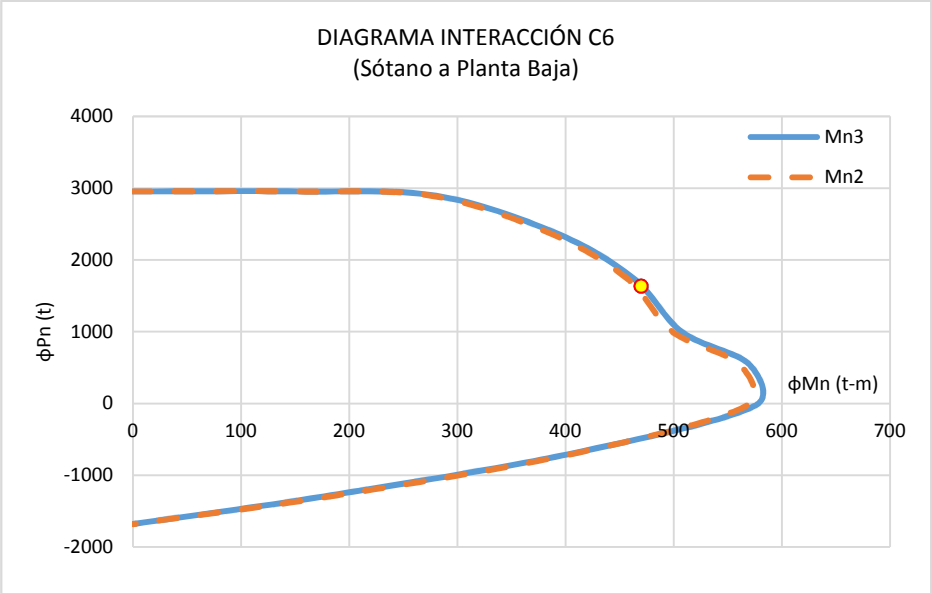
VERIFICACIÓN COLUMNA FUERTE - VIGA DÉBIL
SEGÚN C.21.3.6 DE NSR-10

COLUMNA: C6 PISO: PLANTA BAJA

f'c (MPa)	D (mm)	$P_{mín}$ (t)
49	1100	466

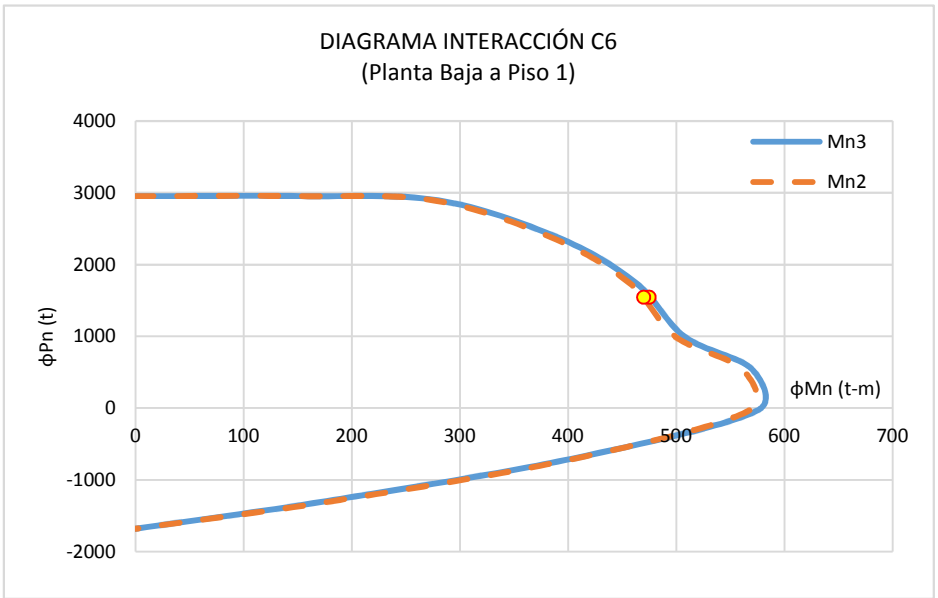
Pu<Pmín, hacer chequeo de columna fuerte viga débil

DIAGRAMA COLUMNA INFERIOR AL NUDO



P_u (t)= 1634
ϕM_{n3} (t-m) = 470
ϕM_{n2} (t-m) = 470

DIAGRAMA COLUMNA SUPERIOR AL NUDO



P_u (t)= 1543
ϕM_{n3} (t-m) = 475
ϕM_{n2} (t-m) = 470

VIGA: **V124** Nudo: **Eje 7A**

Fy (MPa) =	420
f'c (MPa) =	49

GEOMETRIA VIGA

b (mm)	h (mm)	$r_{1\ fila}$(mm)	$r_{2\ fila}$(mm)
500	600	50	80

1. Refuerzo de la viga

		Cantidad	# Barra	Cantidad	# Barra	As (mm2)
Ref. Superior	1ra fila	5	5	3	7	2154
	2da fila	2	7			776
Ref. Inferior	1ra fila	3	5	2	6	1164
	2da fila	3	7			1164

2. Momento resistente en traccion y compresión

MOMENTO RESISTENTE IZQUIERDO			**MOMENTO RESISTENTE DERECHO**			**M nudo**
a (mm)	M_n (T-m)	ϕM_n (T-m)	a (mm)	Mn (T-m)	ϕ Mn (T-m)	ϕ Mn (T-m)
59	61.43	55.28	47	0.00	0.00	**55.28**

CHEQUEO NUDO, COLUMNA FUERTE VIGA DEBIL SEGÚN C.21.3.6

$\sum M_n c$ (t-m)=	945.00
$\sum M_n b$ (t-m)=	55.28

$\sum$Mnc	**17.09**
$\sum$Mnb	

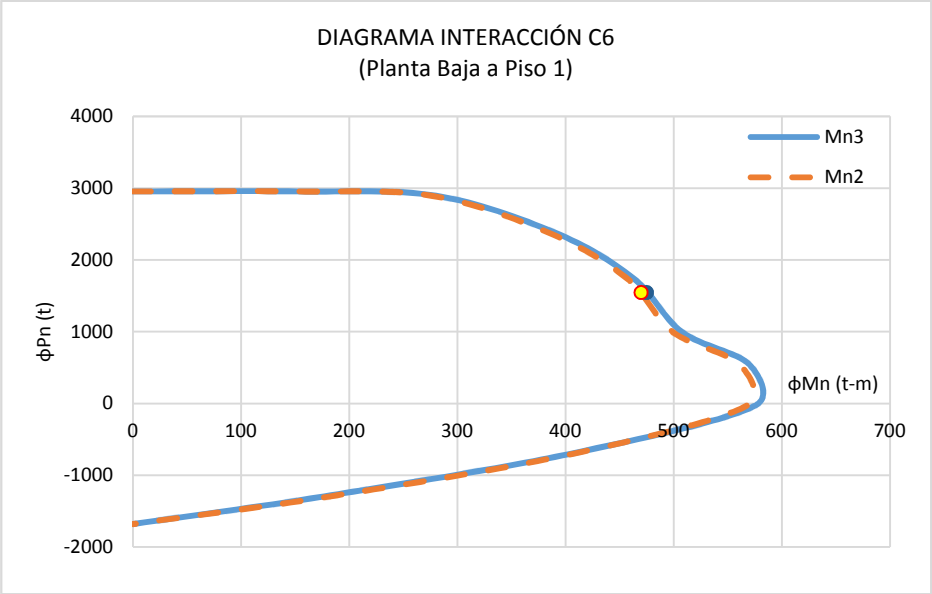
VERIFICACIÓN COLUMNA FUERTE - VIGA DÉBIL
SEGÚN C.21.3.6 DE NSR-10

COLUMNA: C6 PISO: PISO 1

f'c (MPa)	D (mm)	$P_{mín}$ (t)
49	1100	466

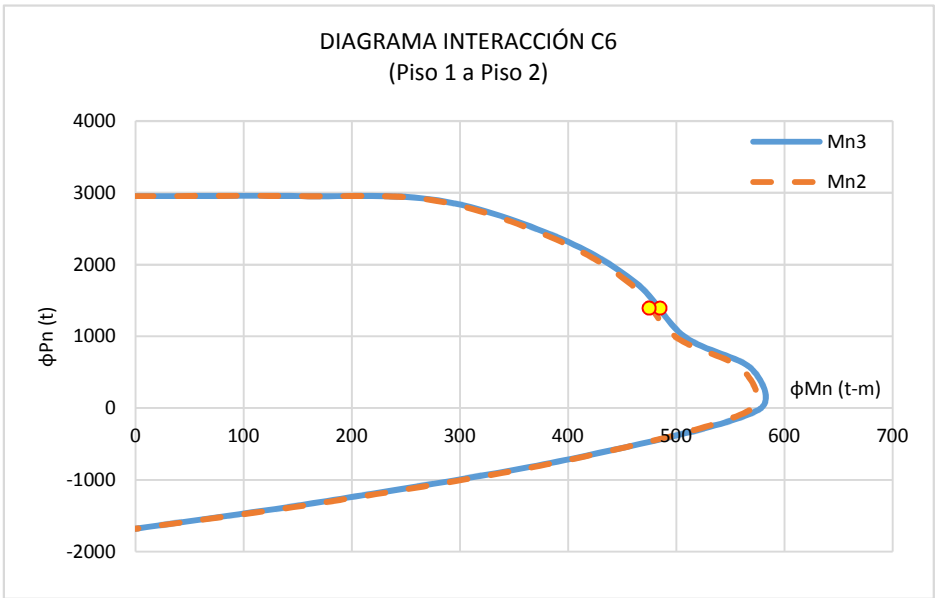
Pu<Pmín, hacer chequeo de columna fuerte viga débil

DIAGRAMA COLUMNA INFERIOR AL NUDO



P_u (t)= 1543
ϕM_{n3} (t-m) = 475
ϕM_{n2} (t-m) = 470

DIAGRAMA COLUMNA SUPERIOR AL NUDO



P_u (t)= 1394
ϕM_{n3} (t-m) = 485
ϕM_{n2} (t-m) = 475

VIGA: **V226** Nudo: **Eje 7A**

Fy (MPa) =	420
f'c (MPa) =	49

GEOMETRIA VIGA

b (mm)	h (mm)	$r_{1\ fila}$(mm)	$r_{2\ fila}$(mm)
650	600	50	80

1. Refuerzo de la viga

		Cantidad	# Barra	Cantidad	# Barra	As (mm2)
Ref. Superior	1ra fila	5	7	3	8	3460
	2da fila	3	8			1520
Ref. Inferior	1ra fila	7	6	3	8	3515
	2da fila	2	8			1013

2. Momento resistente en traccion y compresión

MOMENTO RESISTENTE IZQUIERDO			MOMENTO RESISTENTE DERECHO			M nudo
a (mm)	M_n (T-m)	ϕM_n (T-m)	a (mm)	Mn (T-m)	ϕ Mn (T-m)	ϕ Mn (T-m)
77	101.85	91.67	70	0.00	0.00	**91.67**

CHEQUEO NUDO, COLUMNA FUERTE VIGA DEBIL SEGÚN C.21.3.6

$\sum M_n c$ (t-m)=	960.00
$\sum M_n b$ (t-m)=	91.67

$\sum$Mnc / $\sum$Mnb	**10.47**

VIGA: **V202** Nudo: **Eje 7A**

Fy (MPa) =	420
f'c (MPa) =	49

GEOMETRIA VIGA

b (mm)	h (mm)	$r_{1\ fila}$(mm)	$r_{2\ fila}$(mm)
500	600	50	80

1. Refuerzo de la viga

		Cantidad	# Barra	Cantidad	# Barra	As (mm2)
Ref. Superior	1ra fila	5	6	3	8	2945
	2da fila	3	8			1520
Ref. Inferior	1ra fila	6	6			1710
	2da fila					0

2. Momento resistente en traccion y compresión

MOMENTO RESISTENTE IZQUIERDO			MOMENTO RESISTENTE DERECHO			M nudo
a (mm)	M_n (T-m)	ϕM_n (T-m)	a (mm)	Mn (T-m)	ϕ Mn (T-m)	ϕ Mn (T-m)
90	89.60	80.64	34	0.00	0.00	**80.64**

CHEQUEO NUDO, COLUMNA FUERTE VIGA DEBIL SEGÚN C.21.3.6

$\sum M_n c$=	945.00
$\sum M_n b$=	80.64

$\sum$Mnc / $\sum$Mnb	**11.72**

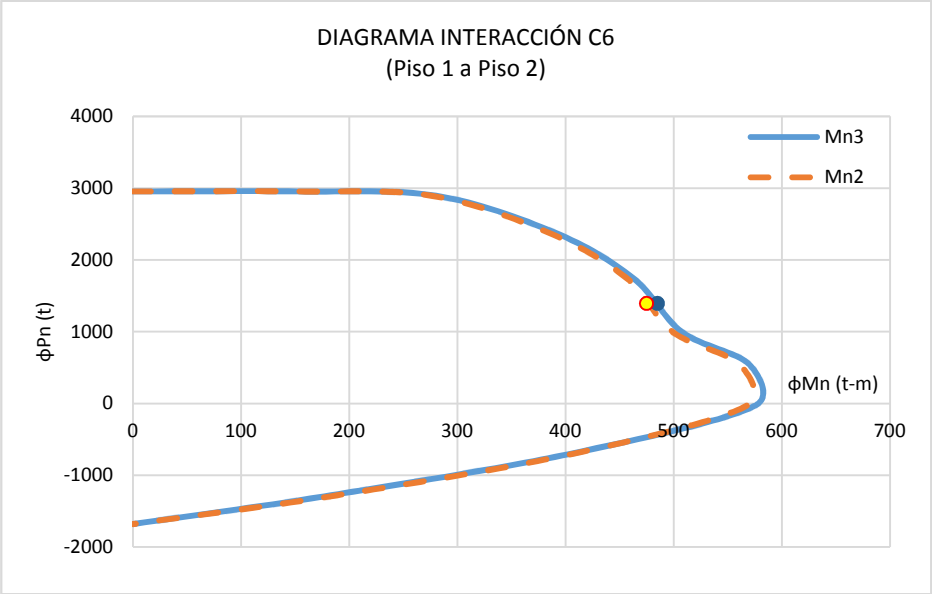
VERIFICACIÓN COLUMNA FUERTE - VIGA DÉBIL
SEGÚN C.21.3.6 DE NSR-10

COLUMNA: C6 PISO: PISO 2

f'c (MPa)	D (mm)	$P_{mín}$ (t)
49	1100	466

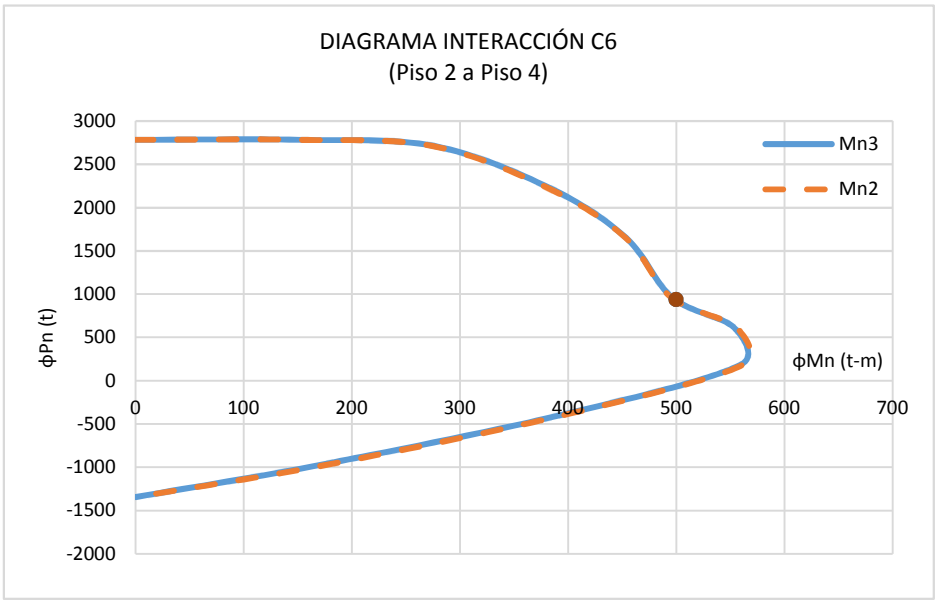
Pu<Pmín, hacer chequeo de columna fuerte viga débil

DIAGRAMA COLUMNA INFERIOR AL NUDO



P_u (t)= 1394
ϕM_{n3} (t-m) = 485
ϕM_{n2} (t-m) = 475

DIAGRAMA COLUMNA SUPERIOR AL NUDO



P_u (t)= 937
ϕM_{n3} (t-m) = 500
ϕM_{n2} (t-m) = 500

VIGA: **V300** Nudo: **Eje 7A**

Fy (MPa) = 420
f'c (MPa) = 49

GEOMETRIA VIGA

b (mm)	h (mm)	$r_{1\ fila}$(mm)	$r_{2\ fila}$(mm)
500	1400	50	80

1. Refuerzo de la viga

		Cantidad	# Barra	Cantidad	# Barra	As (mm2)
Ref. Superior	1ra fila	5	8	2	8	3547
	2da fila	2	7			776
Ref. Inferior	1ra fila	3	8	4	6	2660
	2da fila					0

2. Momento resistente en traccion y compresión

MOMENTO RESISTENTE IZQUIERDO			MOMENTO RESISTENTE DERECHO			M nudo
a (mm)	M_n (T-m)	ϕM_n (T-m)	a (mm)	Mn (T-m)	ϕ Mn (T-m)	ϕ Mn (T-m)
87	234.58	211.13	54	0.00	0.00	**211.13**

CHEQUEO NUDO, COLUMNA FUERTE VIGA DEBIL SEGÚN C.21.3.6

$\sum M_n c$ (t-m)= 985.00
$\sum M_n b$ (t-m)= 211.13

$\sum$Mnc	**4.67**
$\sum$Mnb	

VIGA: **V321** Nudo: **Eje 7A**

Fy (MPa) = 420
f'c (MPa) = 49

GEOMETRIA VIGA

b (mm)	h (mm)	$r_{1\ fila}$(mm)	$r_{2\ fila}$(mm)
600	2200	50	80

1. Refuerzo de la viga

		Cantidad	# Barra	Cantidad	# Barra	As (mm2)
Ref. Superior	1ra fila	6	10			4750
	2da fila					0
Ref. Inferior	1ra fila	6	10			4750
	2da fila					0

2. Momento resistente en traccion y compresión

MOMENTO RESISTENTE IZQUIERDO			MOMENTO RESISTENTE DERECHO			M nudo
a (mm)	M_n (T-m)	ϕM_n (T-m)	a (mm)	Mn (T-m)	ϕ Mn (T-m)	ϕ Mn (T-m)
80	421.00	378.90	80	0.00	0.00	**378.90**

CHEQUEO NUDO, COLUMNA FUERTE VIGA DEBIL SEGÚN C.21.3.6

$\sum M_n c$= 975.00
$\sum M_n b$= 378.90

$\sum$Mnc	**2.57**
$\sum$Mnb	

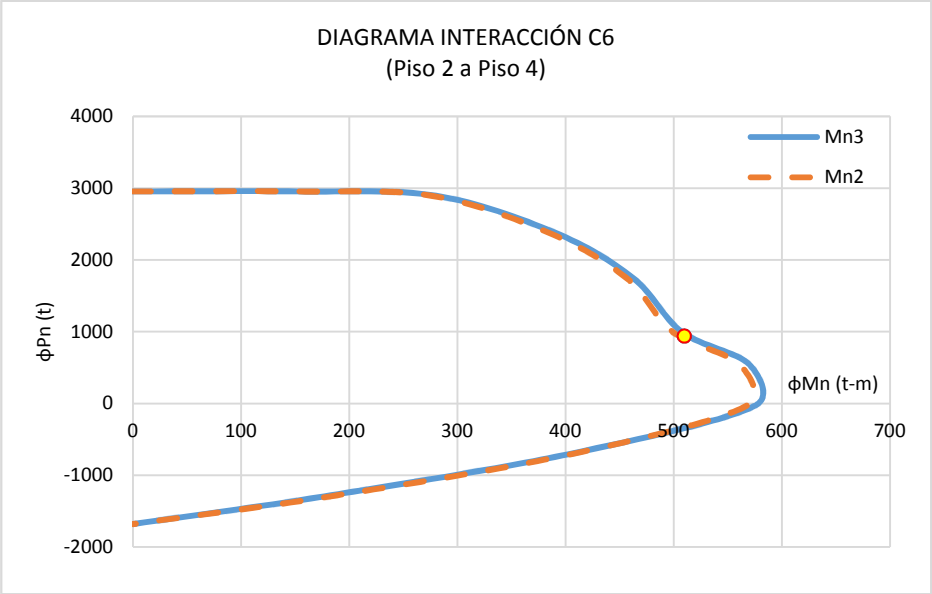
VERIFICACIÓN COLUMNA FUERTE - VIGA DÉBIL
SEGÚN C.21.3.6 DE NSR-10

COLUMNA: C6 PISO: PISO 4

f'c (MPa)	D (mm)	$P_{mín}$ (t)
49	1100	466

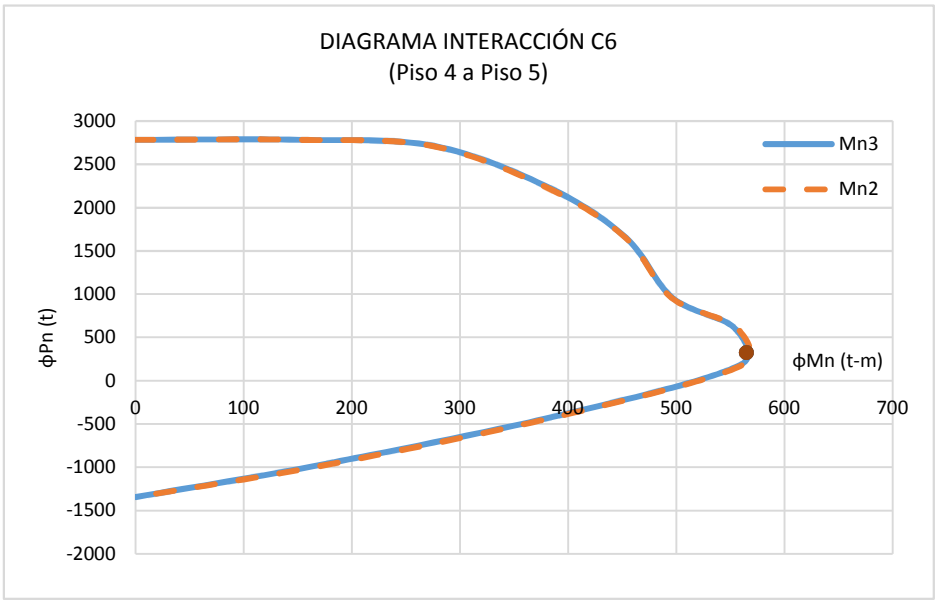
Pu<Pmín, hacer chequeo de columna fuerte viga débil

DIAGRAMA COLUMNA INFERIOR AL NUDO



P_u (t)= 937
ϕM_{n3} (t-m) = 510
ϕM_{n2} (t-m) = 510

DIAGRAMA COLUMNA SUPERIOR AL NUDO



P_u (t)= 323
ϕM_{n3} (t-m) = 565
ϕM_{n2} (t-m) = 565

VIGA: **V500** Nudo: **Eje 7A**

Fy (MPa) =	420
f'c (MPa) =	49

GEOMETRIA VIGA

b (mm)	h (mm)	$r_{1\ fila}$(mm)	$r_{2\ fila}$(mm)
500	800	50	80

1. Refuerzo de la viga

		Cantidad	# Barra	Cantidad	# Barra	As (mm2)
Ref. Superior	1ra fila	5	7	3	8	3460
	2da fila	3	7			1164
Ref. Inferior	1ra fila	3	6	4	5	1647
	2da fila	2	6			570

2. Momento resistente en traccion y compresión

MOMENTO RESISTENTE IZQUIERDO			**MOMENTO RESISTENTE DERECHO**			**M nudo**
a (mm)	M_n (T-m)	ϕM_n (T-m)	a (mm)	Mn (T-m)	ϕ Mn (T-m)	ϕ Mn (T-m)
93	132.68	119.41	45	0.00	0.00	**119.41**

CHEQUEO NUDO, COLUMNA FUERTE VIGA DEBIL SEGÚN C.21.3.6

$\sum M_n c$ (t-m)=	1075.00
$\sum M_n b$ (t-m)=	119.41

$\sum$Mnc	**9.00**
$\sum$Mnb	

VIGA: **V521** Nudo: **Eje 7A**

Fy (MPa) =	420
f'c (MPa) =	49

GEOMETRIA VIGA

b (mm)	h (mm)	$r_{1\ fila}$(mm)	$r_{2\ fila}$(mm)
1000	1200	50	80

1. Refuerzo de la viga

		Cantidad	# Barra	Cantidad	# Barra	As (mm2)
Ref. Superior	1ra fila	10	8	10	8	10134
	2da fila					0
Ref. Inferior	1ra fila	10	8	10	8	10134
	2da fila					0

2. Momento resistente en traccion y compresión

MOMENTO RESISTENTE IZQUIERDO			**MOMENTO RESISTENTE DERECHO**			**M nudo**
a (mm)	M_n (T-m)	ϕM_n (T-m)	a (mm)	Mn (T-m)	ϕ Mn (T-m)	ϕ Mn (T-m)
102	467.73	420.96	102	0.00	0.00	**420.96**

CHEQUEO NUDO, COLUMNA FUERTE VIGA DEBIL SEGÚN C.21.3.6

$\sum M_n c$=	1075.00
$\sum M_n b$=	420.96

$\sum$Mnc	**2.55**
$\sum$Mnb	

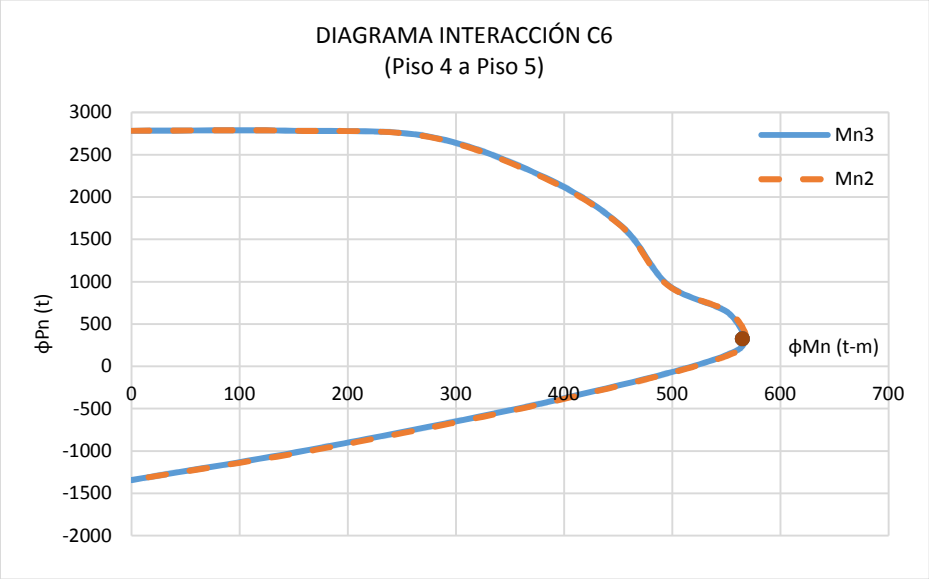
VERIFICACIÓN COLUMNA FUERTE - VIGA DÉBIL
SEGÚN C.21.3.6 DE NSR-10

COLUMNA: C6 PISO: PSIO 5

f'c (MPa)	D (mm)	$P_{mín}$ (t)
49	1100	466

No aplica chequeo de columna fuerte viga debil porque el esfuerzo a compresión en la columna es menor al

DIAGRAMA COLUMNA INFERIOR AL NUDO



P_u (t)= 323
ϕM_{n3} (t-m) = 565
ϕM_{n2} (t-m) = 565

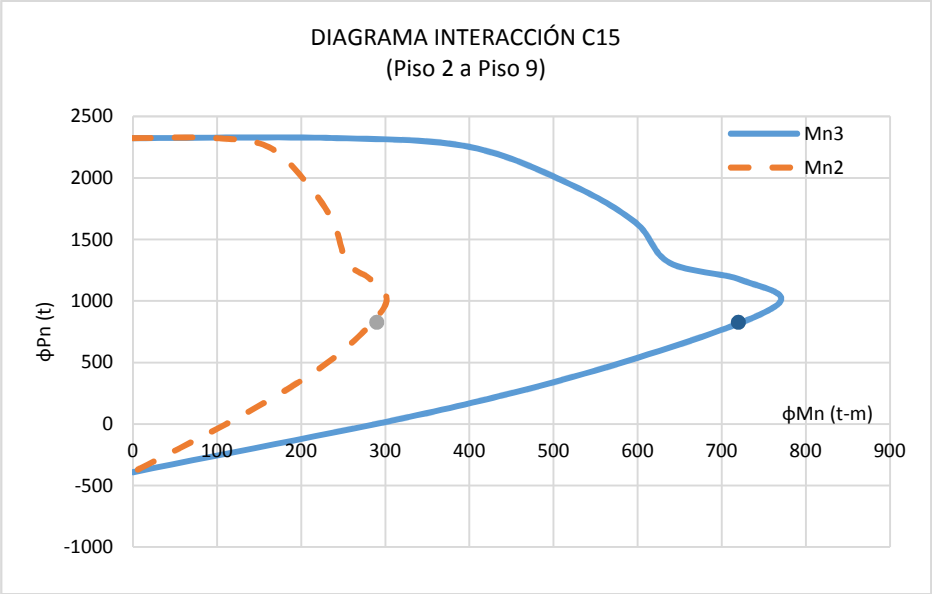
VERIFICACIÓN COLUMNA FUERTE - VIGA DÉBIL
SEGÚN C.21.3.6 DE NSR-10

COLUMNA: C15 PISO: PISO 3

f'c (MPa)	B (mm)	H (mm)	$P_{mín}$ (t)
49	600	1600	470

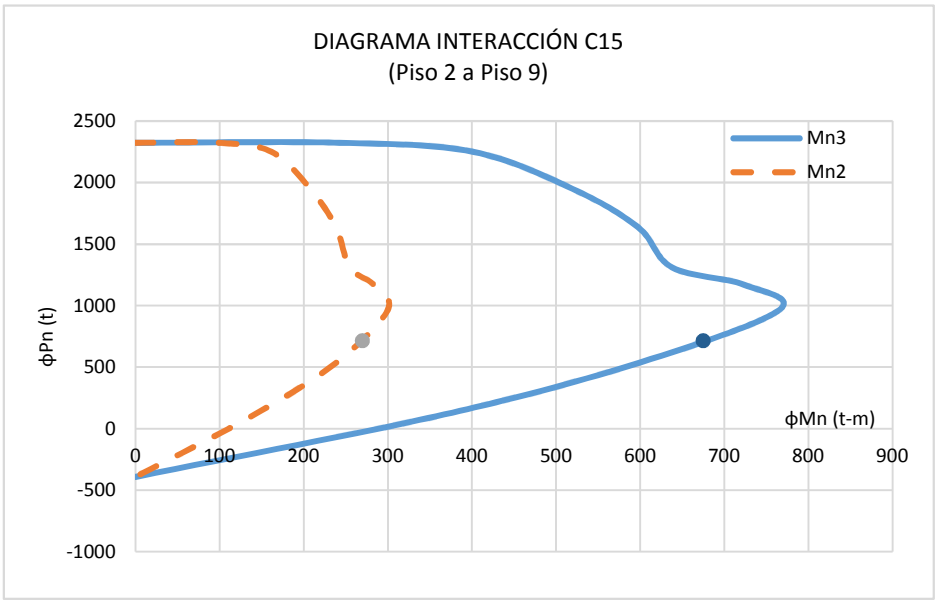
Pu<Pmín, hacer chequeo de columna fuerte viga débil

DIAGRAMA COLUMNA INFERIOR AL NUDO



P_u (t)= 825
ϕM_{n3} (t-m) = 720
ϕM_{n2} (t-m) = 290

DIAGRAMA COLUMNA SUPERIOR AL NUDO



P_u (t)= 714
ϕM_{n3} (t-m) = 675
ϕM_{n2} (t-m) = 270

VIGA: **V401** Nudo: **Eje 4B**

Fy (MPa) = 420
f'c (MPa) = 49

GEOMETRIA VIGA

b (mm)	h (mm)	$r_{1\ fila}$(mm)	$r_{2\ fila}$(mm)
500	800	50	80

1. Refuerzo de la viga

		Cantidad	# Barra	Cantidad	# Barra	As (mm2)
Ref. Superior	1ra fila	5	7	3	8	3460
	2da fila	3	8			1520
Ref. Inferior	1ra fila	4	5	4	6	1932
	2da fila	2	6			570

2. Momento resistente en traccion y compresión

MOMENTO RESISTENTE IZQUIERDO			MOMENTO RESISTENTE DERECHO			M nudo
a (mm)	M_n (T-m)	ϕM_n (T-m)	a (mm)	Mn (T-m)	ϕ Mn (T-m)	ϕ Mn (T-m)
100	141.26	127.13	50	0.00	0.00	**127.13**

CHEQUEO NUDO, COLUMNA FUERTE VIGA DEBIL SEGÚN C.21.3.6

$\sum M_n c$ (t-m)= 560.00
$\sum M_n b$ (t-m)= 127.13

$\sum$Mnc	**4.40**
$\sum$Mnb	

VIGA: **V414** Nudo: **Eje 4B**

Fy (MPa) = 420
f'c (MPa) = 49

GEOMETRIA VIGA

b (mm)	h (mm)	$r_{1\ fila}$(mm)	$r_{2\ fila}$(mm)
500	800	50	80

1. Refuerzo de la viga

		Cantidad	# Barra	Cantidad	# Barra	As (mm2)
Ref. Superior	1ra fila	6	6	2	7	2486
	2da fila	2	7			776
Ref. Inferior	1ra fila	6	6	2	8	2724
	2da fila					0

2. Momento resistente en traccion y compresión

MOMENTO RESISTENTE IZQUIERDO			MOMENTO RESISTENTE DERECHO			M nudo
a (mm)	M_n (T-m)	ϕM_n (T-m)	a (mm)	Mn (T-m)	ϕ Mn (T-m)	ϕ Mn (T-m)
66	95.64	86.07	55	0.00	0.00	**86.07**

CHEQUEO NUDO, COLUMNA FUERTE VIGA DEBIL SEGÚN C.21.3.6

$\sum M_n c$= 1395.00
$\sum M_n b$= 86.07

$\sum$Mnc	**16.21**
$\sum$Mnb	

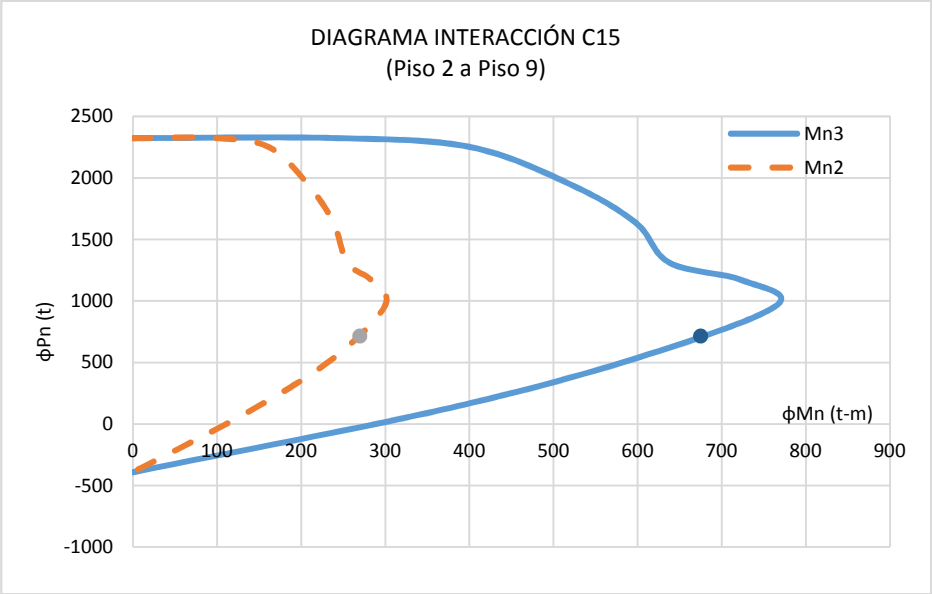
VERIFICACIÓN COLUMNA FUERTE - VIGA DÉBIL
SEGÚN C.21.3.6 DE NSR-10

COLUMNA: C15 PISO: PISO 4

f'c (MPa)	B (mm)	H (mm)	$P_{mín}$ (t)
49	600	1600	470

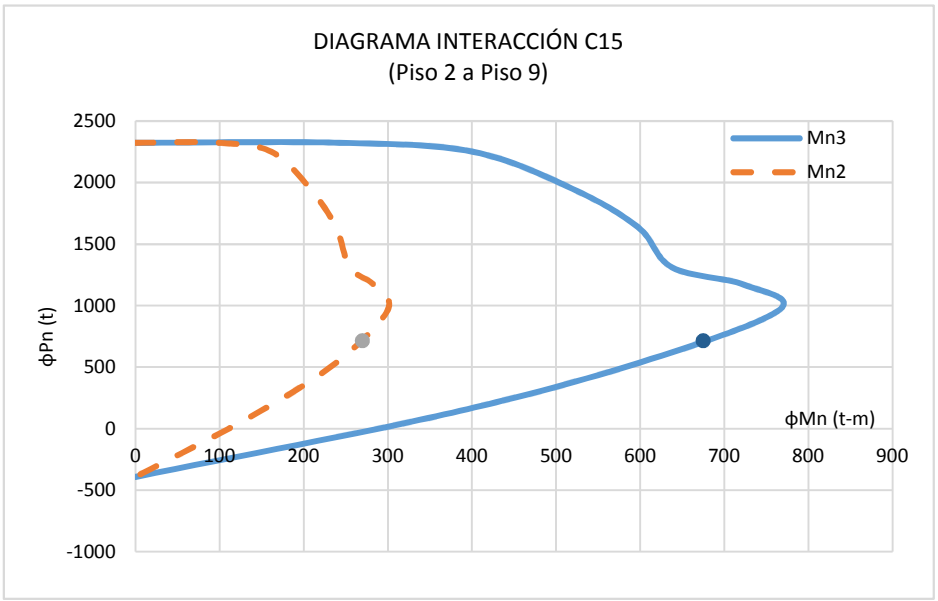
Pu<Pmín, hacer chequeo de columna fuerte viga débil

DIAGRAMA COLUMNA INFERIOR AL NUDO



P_u (t)= 714
ϕM_{n3} (t-m) = 675
ϕM_{n2} (t-m) = 270

DIAGRAMA COLUMNA SUPERIOR AL NUDO



P_u (t)= 714
ϕM_{n3} (t-m) = 675
ϕM_{n2} (t-m) = 270

VIGA: **V501** Nudo: **Eje 4B**

Fy (MPa) =	420
f'c (MPa) =	49

GEOMETRIA VIGA

b (mm)	h (mm)	$r_{1\ fila}$(mm)	$r_{2\ fila}$(mm)
500	800	50	80

1. Refuerzo de la viga

		Cantidad	# Barra	Cantidad	# Barra	As (mm2)
Ref. Superior	1ra fila	5	7	3	8	3460
	2da fila	3	8			1520
Ref. Inferior	1ra fila	4	5	4	6	1932
	2da fila	2	6			570

2. Momento resistente en traccion y compresión

MOMENTO RESISTENTE IZQUIERDO			MOMENTO RESISTENTE DERECHO			M nudo
a (mm)	M_n (T-m)	ϕM_n (T-m)	a (mm)	Mn (T-m)	ϕ Mn (T-m)	ϕ Mn (T-m)
100	141.26	127.13	50	0.00	0.00	**127.13**

CHEQUEO NUDO, COLUMNA FUERTE VIGA DEBIL SEGÚN C.21.3.6

$\sum M_n c$ (t-m)=	540.00
$\sum M_n b$ (t-m)=	127.13

$\sum$Mnc / $\sum$Mnb	**4.25**

VIGA: **V515** Nudo: **Eje 4B**

Fy (MPa) =	420
f'c (MPa) =	49

GEOMETRIA VIGA

b (mm)	h (mm)	$r_{1\ fila}$(mm)	$r_{2\ fila}$(mm)
500	800	50	80

1. Refuerzo de la viga

		Cantidad	# Barra	Cantidad	# Barra	As (mm2)
Ref. Superior	1ra fila	6	6	2	8	2724
	2da fila	3	8			1520
Ref. Inferior	1ra fila	6	6	2	8	2724
	2da fila	2	6			570

2. Momento resistente en traccion y compresión

MOMENTO RESISTENTE IZQUIERDO			MOMENTO RESISTENTE DERECHO			M nudo
a (mm)	M_n (T-m)	ϕM_n (T-m)	a (mm)	Mn (T-m)	ϕ Mn (T-m)	ϕ Mn (T-m)
86	120.94	108.85	66	0.00	0.00	**108.85**

CHEQUEO NUDO, COLUMNA FUERTE VIGA DEBIL SEGÚN C.21.3.6

$\sum M_n c$=	1350.00
$\sum M_n b$=	108.85

$\sum$Mnc / $\sum$Mnb	**12.40**

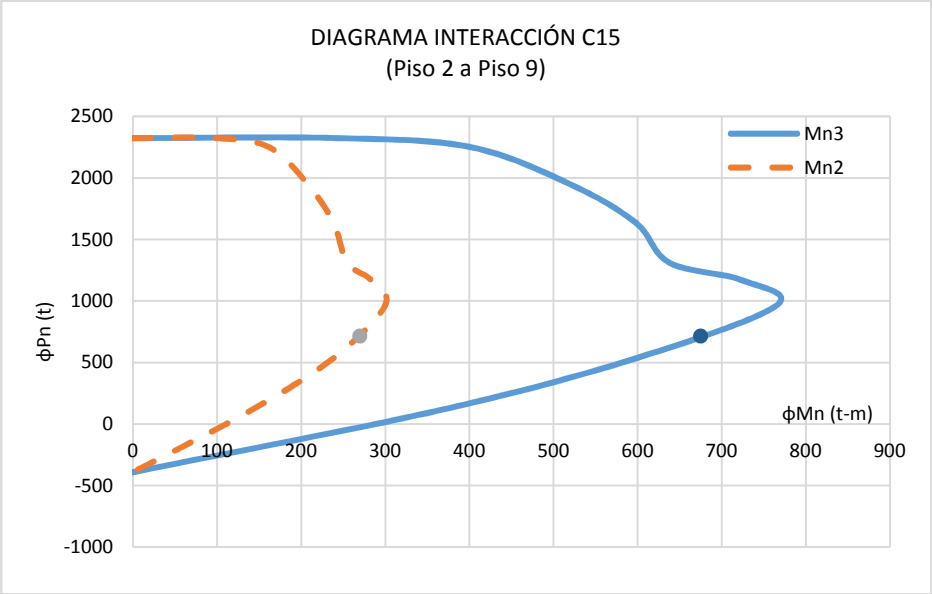
VERIFICACIÓN COLUMNA FUERTE - VIGA DÉBIL
SEGÚN C.21.3.6 DE NSR-10

COLUMNA: C15 PISO: PISO 5

f'c (MPa)	B (mm)	H (mm)	$P_{mín}$ (t)
49	600	1600	470

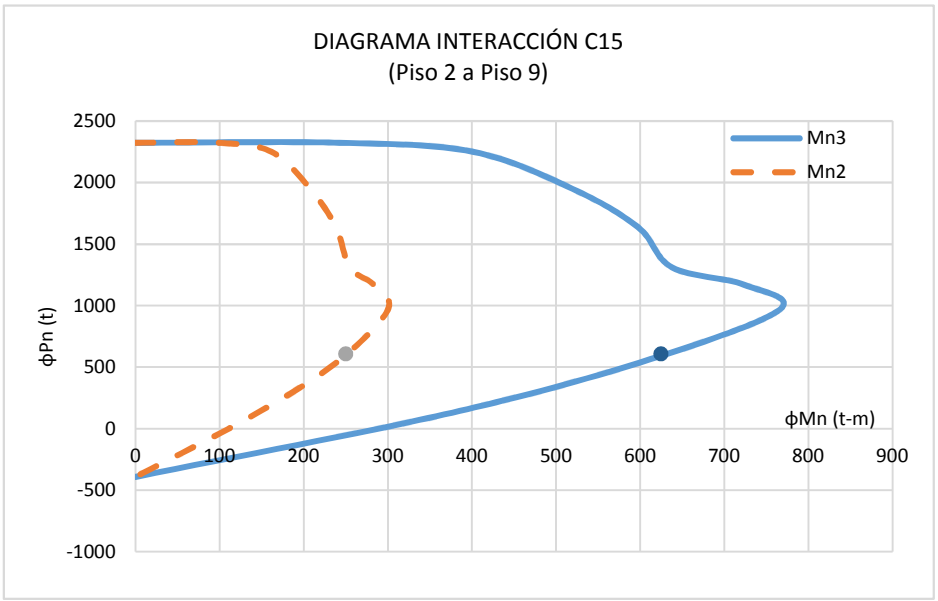
Pu<Pmín, hacer chequeo de columna fuerte viga débil

DIAGRAMA COLUMNA INFERIOR AL NUDO



P_u (t)= 714
ϕM_{n3} (t-m) = 675
ϕM_{n2} (t-m) = 270

DIAGRAMA COLUMNA SUPERIOR AL NUDO



P_u (t)= 607
ϕM_{n3} (t-m) = 625
ϕM_{n2} (t-m) = 250

VIGA: **V601** Nudo: **Eje 4B**

Fy (MPa) =	420
f'c (MPa) =	49

GEOMETRIA VIGA

b (mm)	h (mm)	$r_{1\ fila}$(mm)	$r_{2\ fila}$(mm)
500	800	50	80

1. Refuerzo de la viga

		Cantidad	# Barra	Cantidad	# Barra	As (mm2)
Ref. Superior	1ra fila	5	7	3	8	3460
	2da fila	3	8			1520
Ref. Inferior	1ra fila	4	5	4	6	1932
	2da fila	2	7			776

2. Momento resistente en traccion y compresión

MOMENTO RESISTENTE IZQUIERDO			MOMENTO RESISTENTE DERECHO			M nudo
a (mm)	M_n (T-m)	ϕM_n (T-m)	a (mm)	Mn (T-m)	ϕ Mn (T-m)	ϕ Mn (T-m)
100	141.26	127.13	55	0.00	0.00	**127.13**

CHEQUEO NUDO, COLUMNA FUERTE VIGA DEBIL SEGÚN C.21.3.6

$\sum M_n c$ (t-m)=	520.00
$\sum M_n b$ (t-m)=	127.13

$\sum$Mnc	**4.09**
$\sum$Mnb	

VIGA: **V611** Nudo: **Eje 4B**

Fy (MPa) =	420
f'c (MPa) =	49

GEOMETRIA VIGA

b (mm)	h (mm)	$r_{1\ fila}$(mm)	$r_{2\ fila}$(mm)
500	800	50	80

1. Refuerzo de la viga

		Cantidad	# Barra	Cantidad	# Barra	As (mm2)
Ref. Superior	1ra fila	6	6	2	7	2486
	2da fila					0
Ref. Inferior	1ra fila	6	6	2	8	2724
	2da fila					0

2. Momento resistente en traccion y compresión

MOMENTO RESISTENTE IZQUIERDO			MOMENTO RESISTENTE DERECHO			M nudo
a (mm)	M_n (T-m)	ϕM_n (T-m)	a (mm)	Mn (T-m)	ϕ Mn (T-m)	ϕ Mn (T-m)
50	75.69	68.12	55	0.00	0.00	**68.12**

CHEQUEO NUDO, COLUMNA FUERTE VIGA DEBIL SEGÚN C.21.3.6

$\sum M_n c$=	1300.00
$\sum M_n b$=	68.12

$\sum$Mnc	**19.08**
$\sum$Mnb	

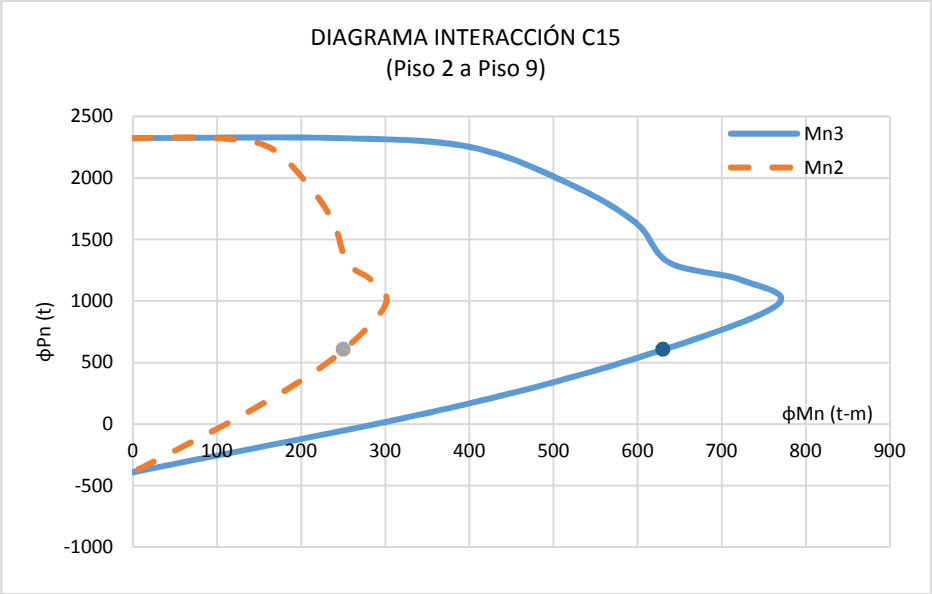
VERIFICACIÓN COLUMNA FUERTE - VIGA DÉBIL
SEGÚN C.21.3.6 DE NSR-10

COLUMNA: C15 PISO: PISO 6

f'c (MPa)	B (mm)	H (mm)	$P_{mín}$ (t)
49	600	1600	470

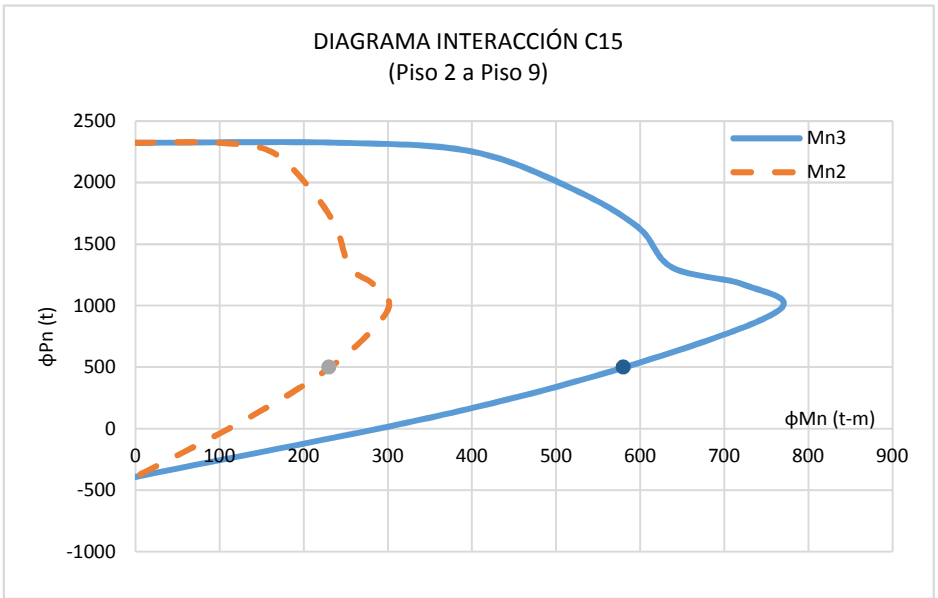
Pu<Pmín, hacer chequeo de columna fuerte viga débil

DIAGRAMA COLUMNA INFERIOR AL NUDO



P_u (t)= 607
ϕM_{n3} (t-m) = 630
ϕM_{n2} (t-m) = 250

DIAGRAMA COLUMNA SUPERIOR AL NUDO



P_u (t)= 499
ϕM_{n3} (t-m) = 580
ϕM_{n2} (t-m) = 230

VIGA: **V701** Nudo: **Eje 4B**

Fy (MPa) = 420
f'c (MPa) = 49

GEOMETRIA VIGA

b (mm)	h (mm)	$r_{1\ fila}$(mm)	$r_{2\ fila}$(mm)
500	800	50	80

1. Refuerzo de la viga

		Cantidad	# Barra	Cantidad	# Barra	As (mm2)
Ref. Superior	1ra fila	5	7	3	8	3460
	2da fila	2	8			1013
Ref. Inferior	1ra fila	4	5	4	6	1932
	2da fila	2	5			396

2. Momento resistente en traccion y compresión

MOMENTO RESISTENTE IZQUIERDO			MOMENTO RESISTENTE DERECHO			M nudo
a (mm)	M_n (T-m)	ϕM_n (T-m)	a (mm)	Mn (T-m)	ϕ Mn (T-m)	ϕ Mn (T-m)
90	129.03	116.13	47	0.00	0.00	**116.13**

CHEQUEO NUDO, COLUMNA FUERTE VIGA DEBIL SEGÚN C.21.3.6

$\sum M_n c$ (t-m)= 480.00
$\sum M_n b$ (t-m)= 116.13

$\sum$Mnc	**4.13**
$\sum$Mnb	

VIGA: **V714** Nudo: **Eje 4B**

Fy (MPa) = 420
f'c (MPa) = 49

GEOMETRIA VIGA

b (mm)	h (mm)	$r_{1\ fila}$(mm)	$r_{2\ fila}$(mm)
500	800	50	80

1. Refuerzo de la viga

		Cantidad	# Barra	Cantidad	# Barra	As (mm2)
Ref. Superior	1ra fila	6	6	2	8	2724
	2da fila	3	8			1520
Ref. Inferior	1ra fila	6	6	2	8	2724
	2da fila	3	7			1164

2. Momento resistente en traccion y compresión

MOMENTO RESISTENTE IZQUIERDO			MOMENTO RESISTENTE DERECHO			M nudo
a (mm)	M_n (T-m)	ϕM_n (T-m)	a (mm)	Mn (T-m)	ϕ Mn (T-m)	ϕ Mn (T-m)
86	120.94	108.85	78	0.00	0.00	**108.85**

CHEQUEO NUDO, COLUMNA FUERTE VIGA DEBIL SEGÚN C.21.3.6

$\sum M_n c$= 1210.00
$\sum M_n b$= 108.85

$\sum$Mnc	**11.12**
$\sum$Mnb	

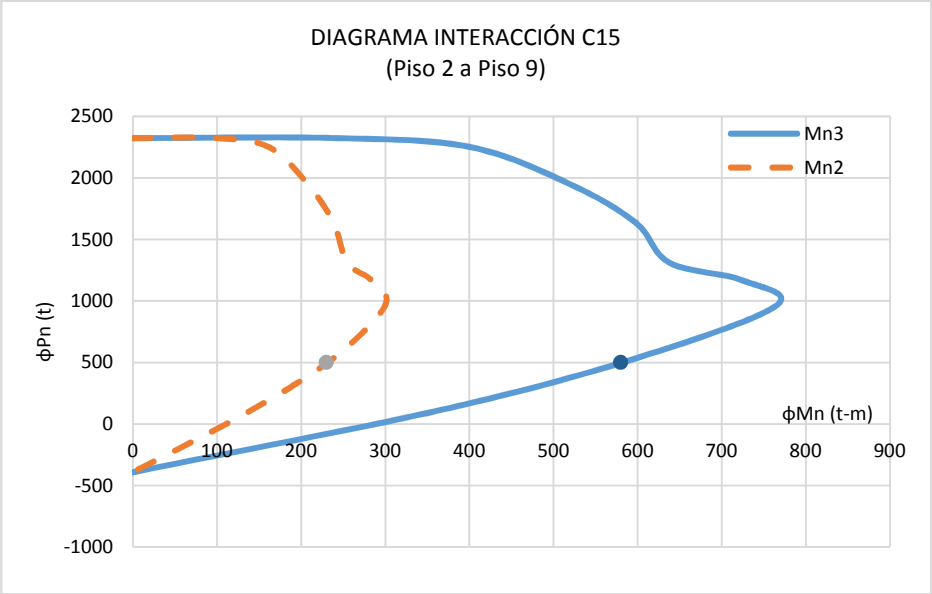
VERIFICACIÓN COLUMNA FUERTE - VIGA DÉBIL
SEGÚN C.21.3.6 DE NSR-10

COLUMNA: C15 PISO: PISO 7

f'c (MPa)	B (mm)	H (mm)	$P_{mín}$ (t)
49	600	1600	470

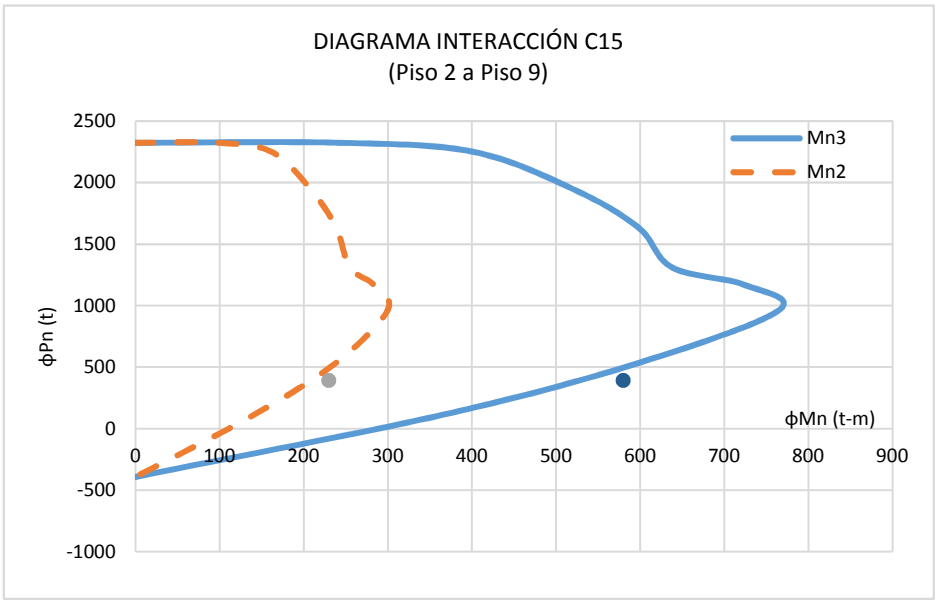
Pu<Pmín, hacer chequeo de columna fuerte viga débil

DIAGRAMA COLUMNA INFERIOR AL NUDO



P_u (t)= 499
ϕM_{n3} (t-m) = 580
ϕM_{n2} (t-m) = 230

DIAGRAMA COLUMNA SUPERIOR AL NUDO



P_u (t)= 391
ϕM_{n3} (t-m) = 580
ϕM_{n2} (t-m) = 230

VIGA: **V801** Nudo: **Eje 4B**

Fy (MPa) =	420
f'c (MPa) =	49

GEOMETRIA VIGA

b (mm)	h (mm)	$r_{1\ fila}$(mm)	$r_{2\ fila}$(mm)
500	800	50	80

1. Refuerzo de la viga

		Cantidad	# Barra	Cantidad	# Barra	As (mm2)
Ref. Superior	1ra fila	5	7	3	8	3460
	2da fila	3	8			1520
Ref. Inferior	1ra fila	4	5	4	6	1932
	2da fila	2	5			396

2. Momento resistente en traccion y compresión

MOMENTO RESISTENTE IZQUIERDO			MOMENTO RESISTENTE DERECHO			M nudo
a (mm)	M_n (T-m)	ϕM_n (T-m)	a (mm)	Mn (T-m)	ϕ Mn (T-m)	ϕ Mn (T-m)
100	141.26	127.13	47	0.00	0.00	**127.13**

CHEQUEO NUDO, COLUMNA FUERTE VIGA DEBIL SEGÚN C.21.3.6

$\sum M_n c$ (t-m)= 460.00

$\sum M_n b$ (t-m)= 127.13

$\sum$Mnc	**3.62**
$\sum$Mnb	

VIGA: **V812** Nudo: **Eje 4B**

Fy (MPa) =	420
f'c (MPa) =	49

GEOMETRIA VIGA

b (mm)	h (mm)	$r_{1\ fila}$(mm)	$r_{2\ fila}$(mm)
500	800	50	80

1. Refuerzo de la viga

		Cantidad	# Barra	Cantidad	# Barra	As (mm2)
Ref. Superior	1ra fila	6	6	2	8	2724
	2da fila	2	8			1013
Ref. Inferior	1ra fila	6	6	3	8	3230
	2da fila	2	6			570

2. Momento resistente en traccion y compresión

MOMENTO RESISTENTE IZQUIERDO			MOMENTO RESISTENTE DERECHO			M nudo
a (mm)	M_n (T-m)	ϕM_n (T-m)	a (mm)	Mn (T-m)	ϕ Mn (T-m)	ϕ Mn (T-m)
75	108.39	97.56	77	0.00	0.00	**97.56**

CHEQUEO NUDO, COLUMNA FUERTE VIGA DEBIL SEGÚN C.21.3.6

$\sum M_n c$= 1160.00

$\sum M_n b$= 97.56

$\sum$Mnc	**11.89**
$\sum$Mnb	

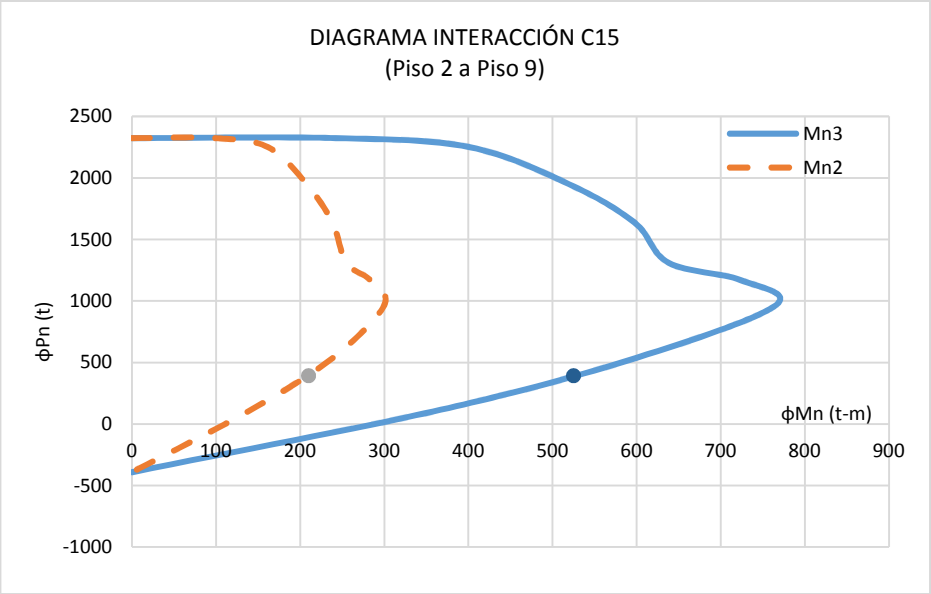
VERIFICACIÓN COLUMNA FUERTE - VIGA DÉBIL
SEGÚN C.21.3.6 DE NSR-10

COLUMNA: C15 PISO: PISO 8

f'c (MPa)	B (mm)	H (mm)	$P_{mín}$ (t)
49	600	1600	470

No aplica chequeo de columna fuerte viga debil porque el esfuerzo a compresión en la columna es menor al

DIAGRAMA COLUMNA INFERIOR AL NUDO

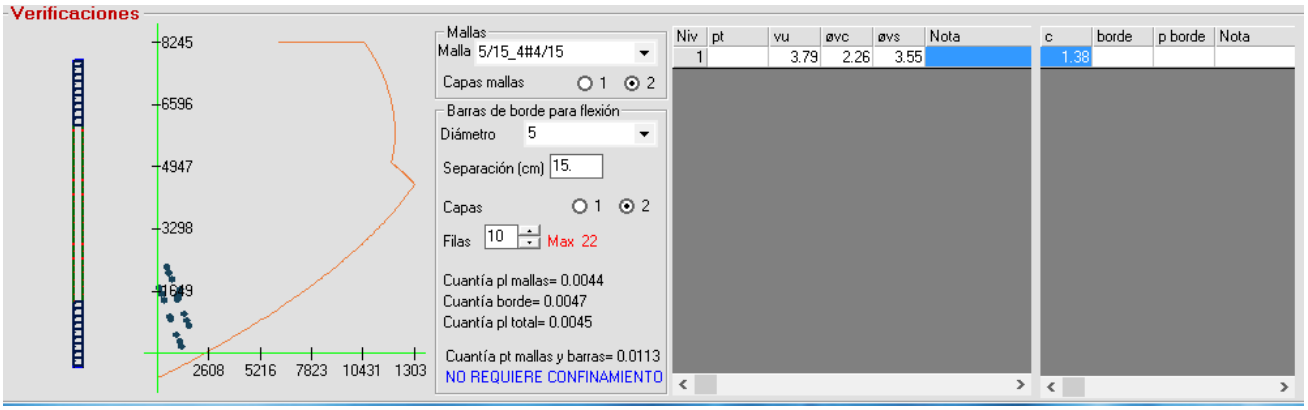


P_u (t)= 391
ϕM_{n3} (t-m) = 525
ϕM_{n2} (t-m) = 210

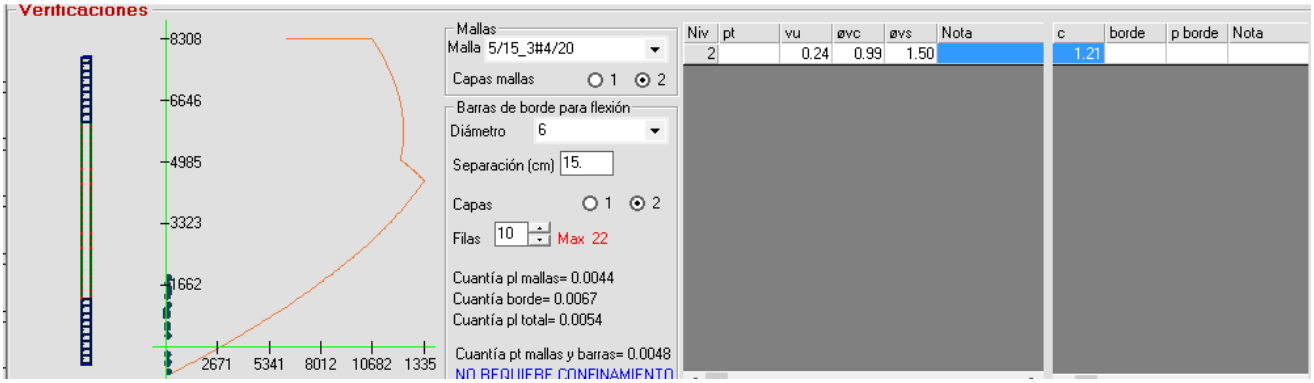
COMPLEMENTO MEMORIAS DE CÁLCULO DE PANTALLAS

Longitud elemento de borde y su confinamiento

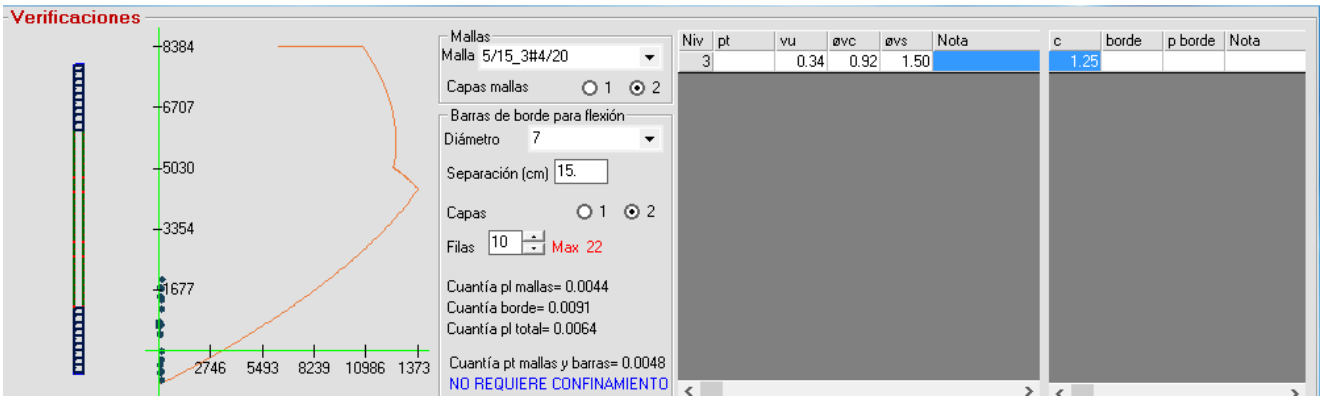
PANTALLA 1-TRAMO 1



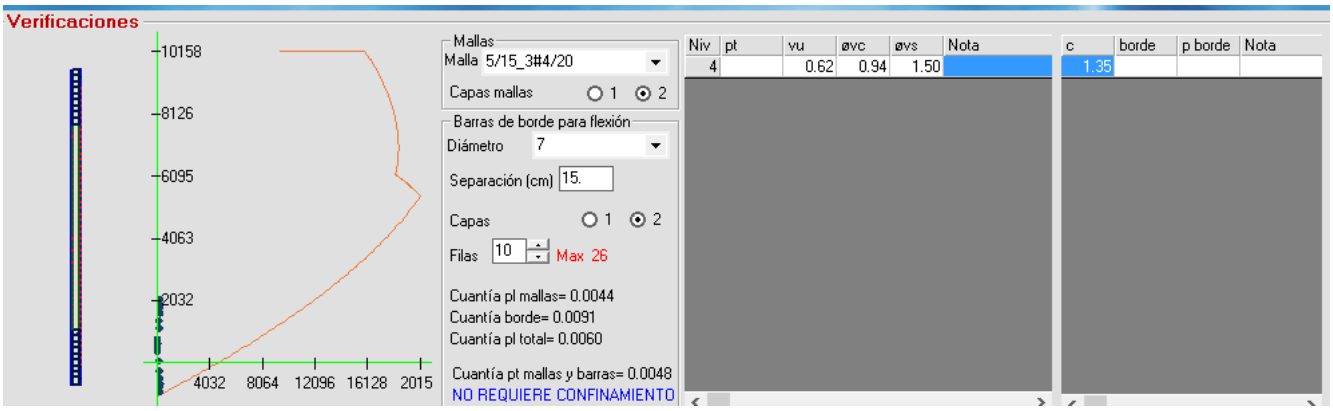
PANTALLA 1-TRAMO 2



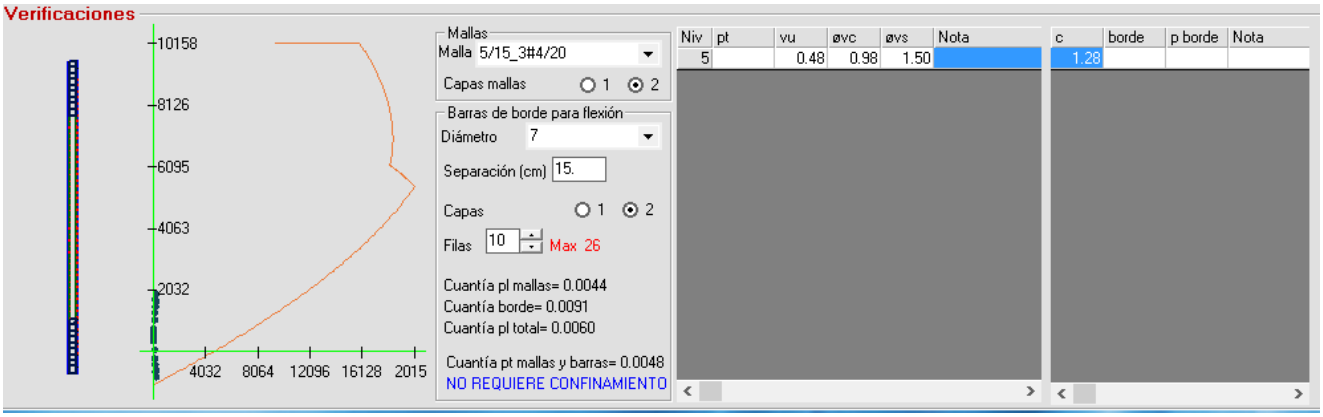
PANTALLA 1-TRAMO 3



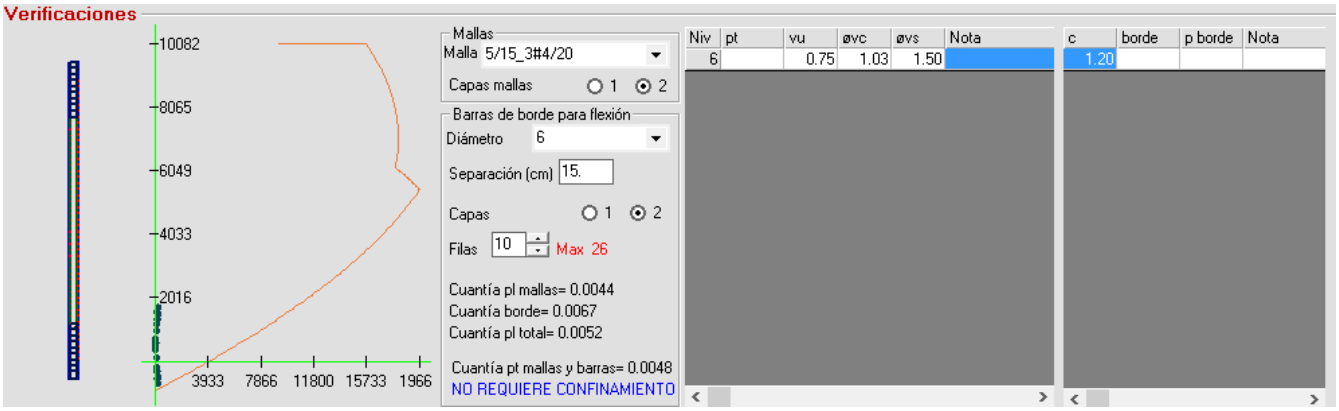
PANTALLA 1-TRAMO 4



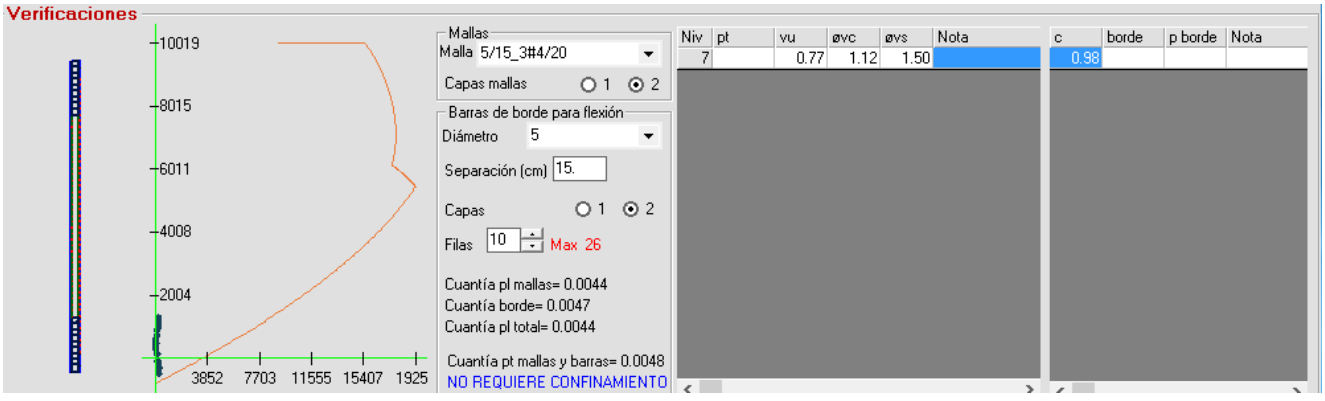
PANTALLA 1-TRAMO 5



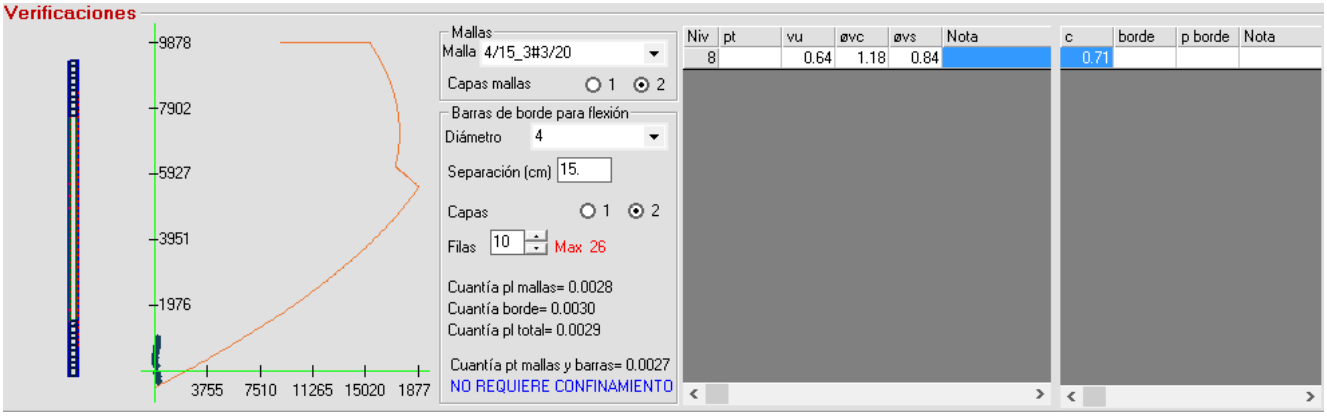
PANTALLA 1-TRAMO 6



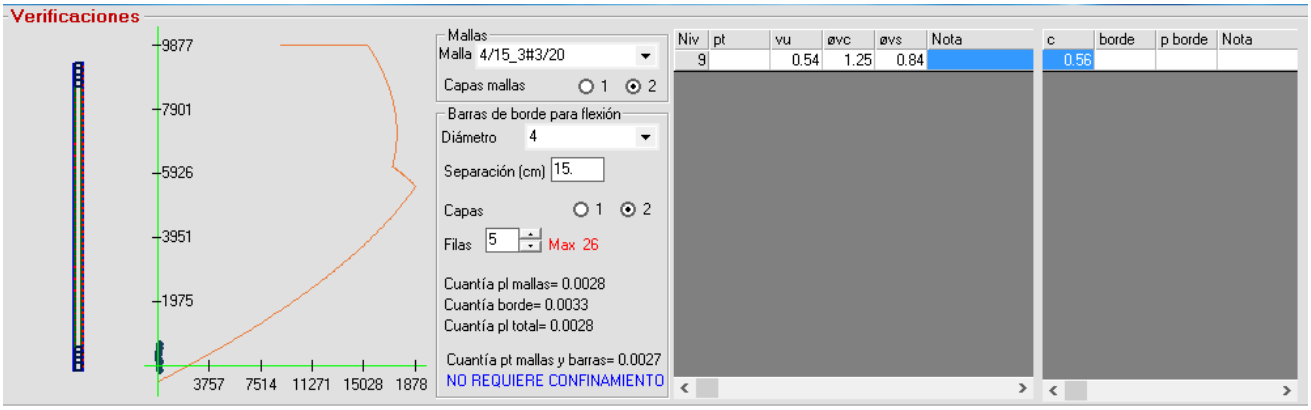
PANTALLA 1-TRAMO 7



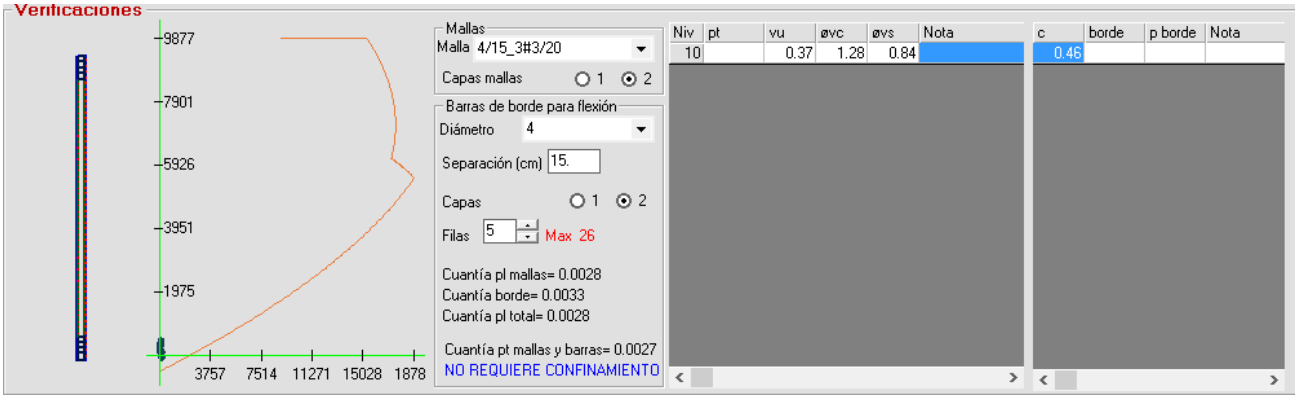
PANTALLA 1-TRAMO 8



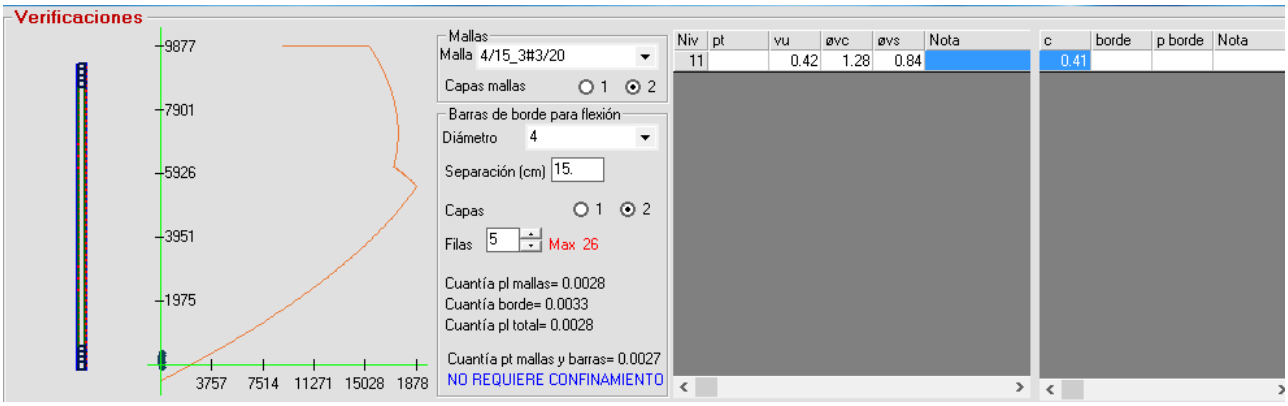
PANTALLA 1-TRAMO 9



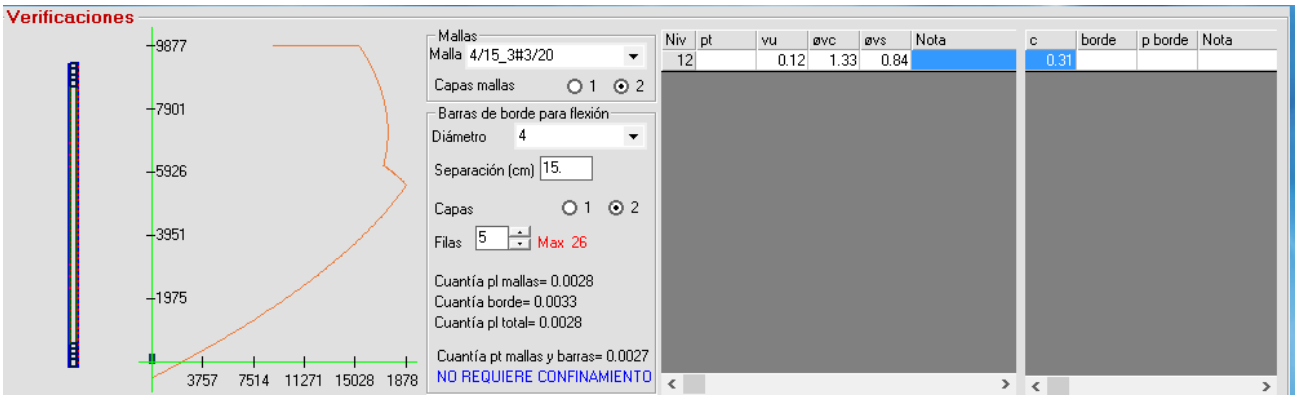
PANTALLA 1-TRAMO 10



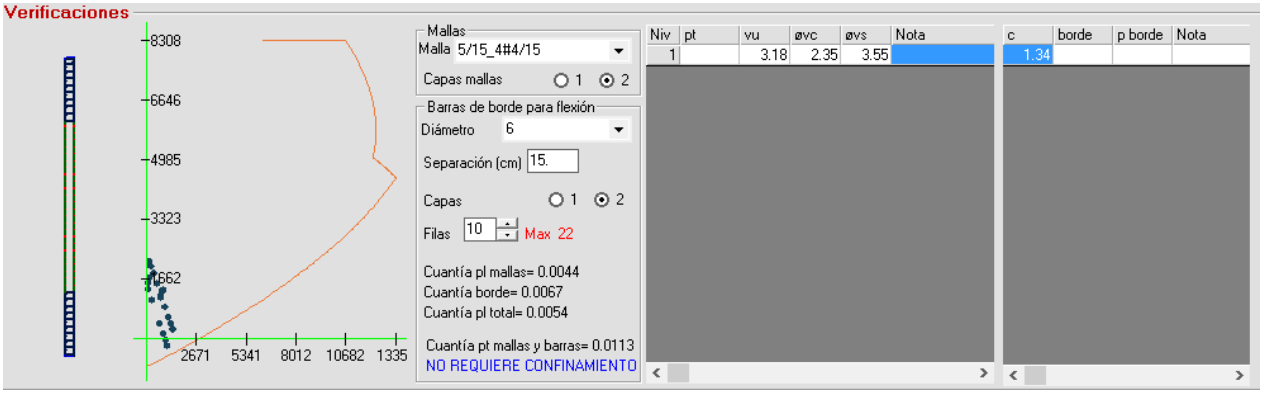
PANTALLA 1-TRAMO 11



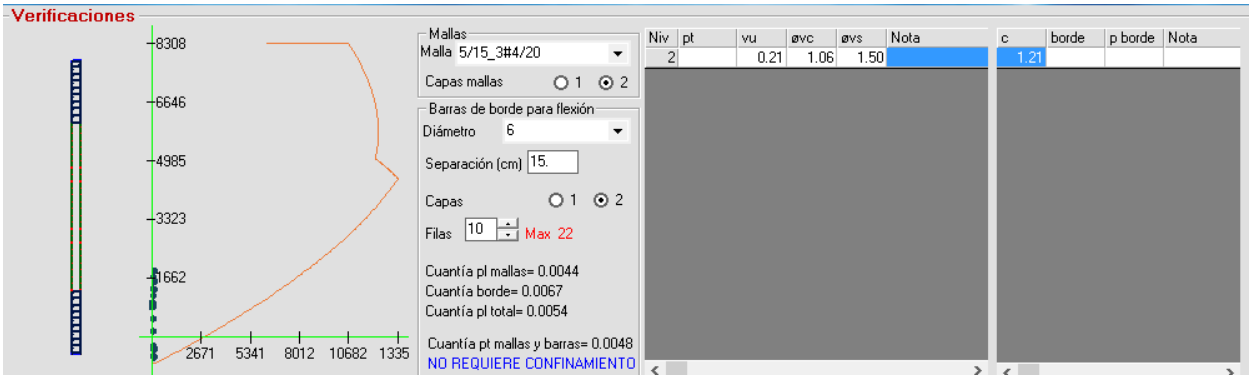
PANTALLA 1-TRAMO 12



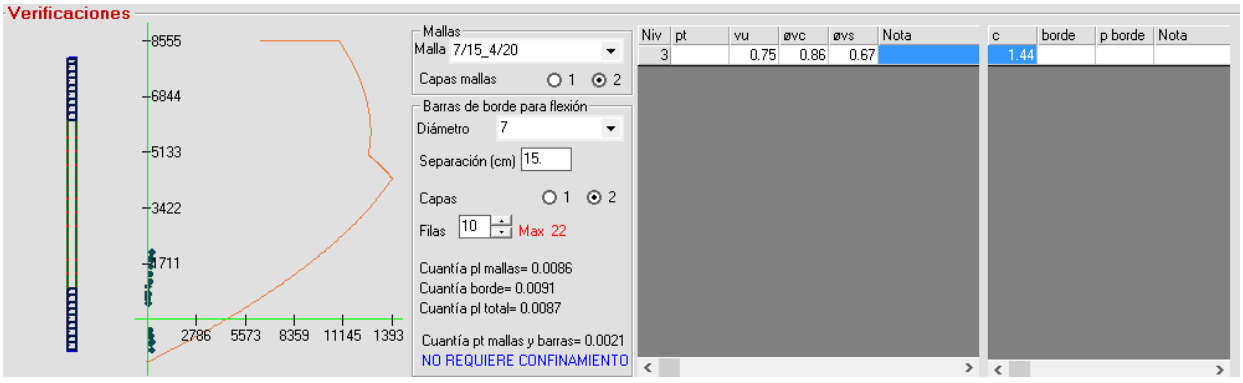
PANTALLA 2-TRAMO 1



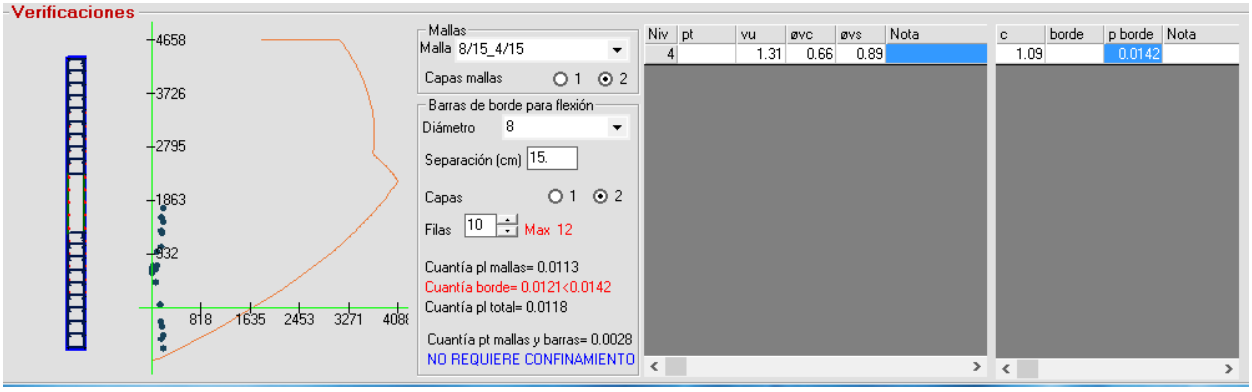
PANTALLA 2-TRAMO 2



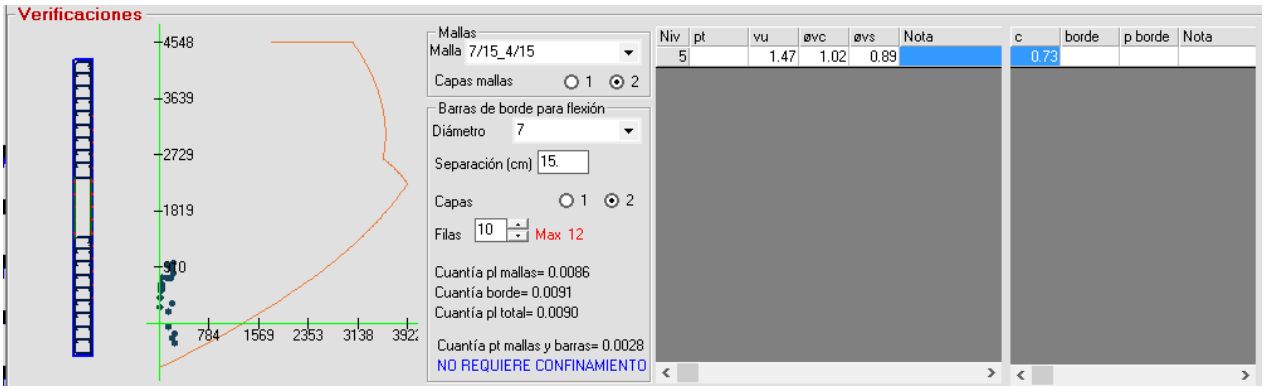
PANTALLA 2-TRAMO 3



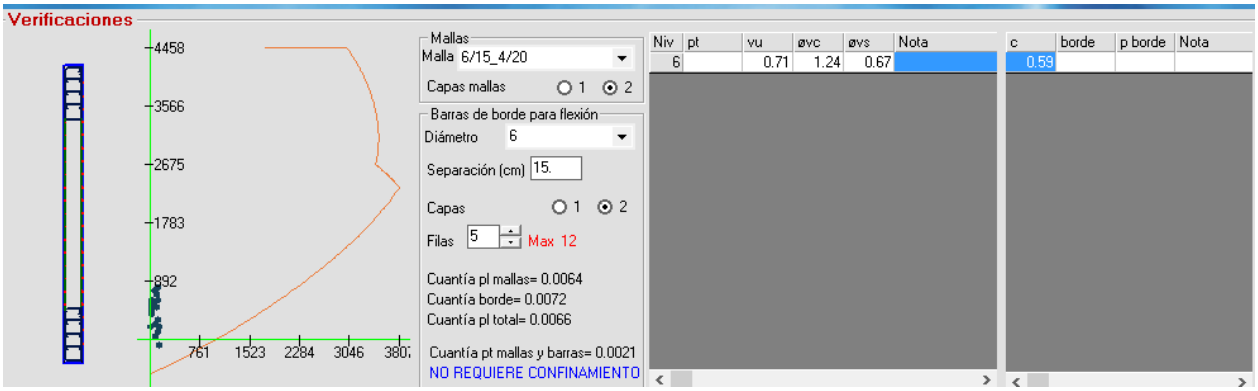
PANTALLA 2-TRAMO 4



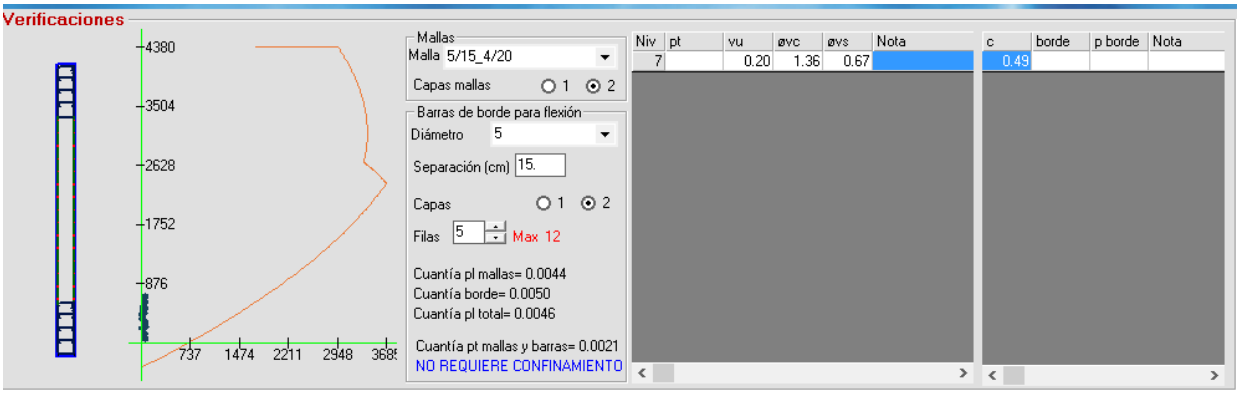
PANTALLA 2-TRAMO 5



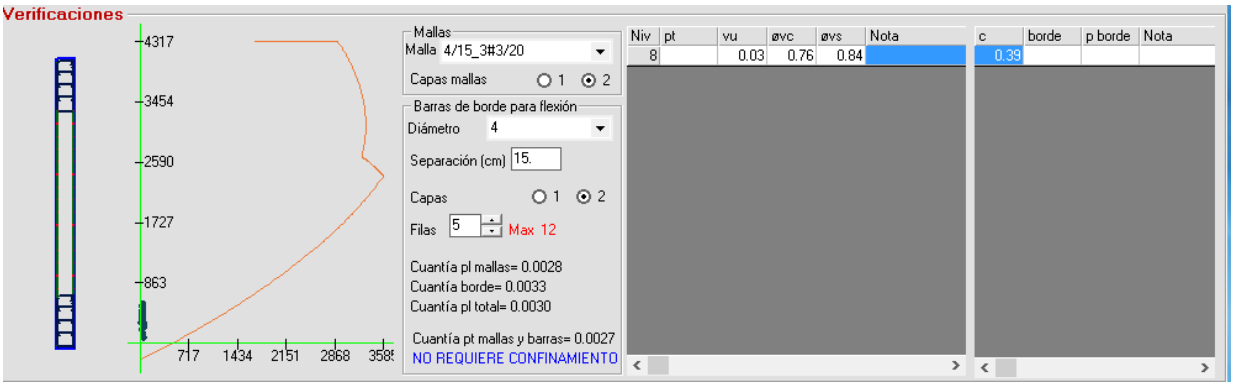
PANTALLA 2-TRAMO 6



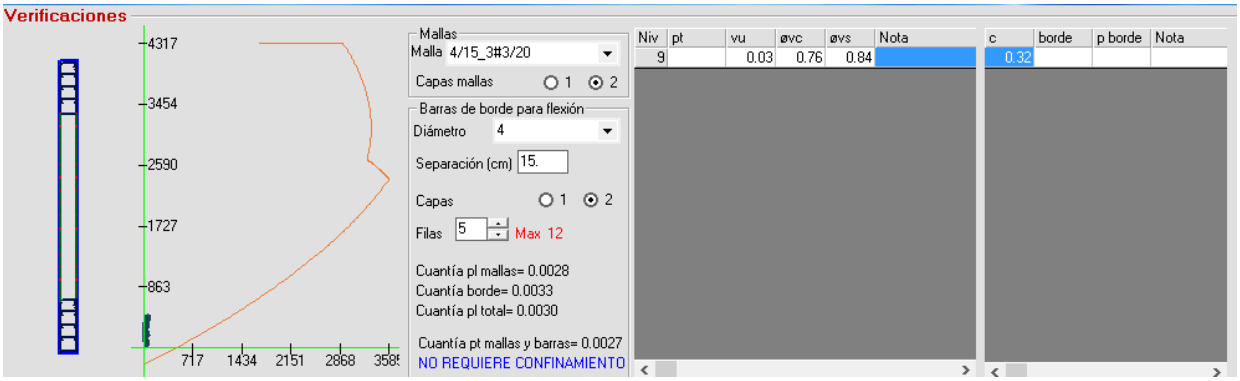
PANTALLA 2-TRAMO 7



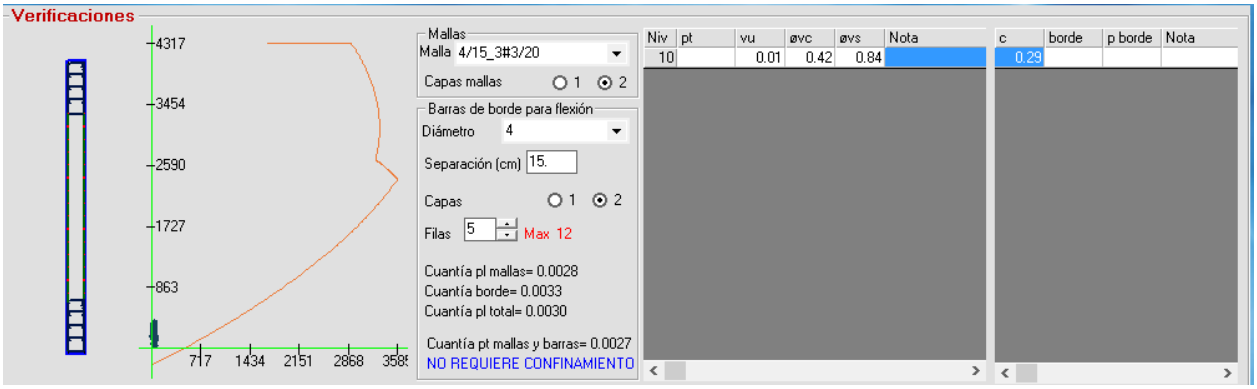
PANTALLA 2-TRAMO 8



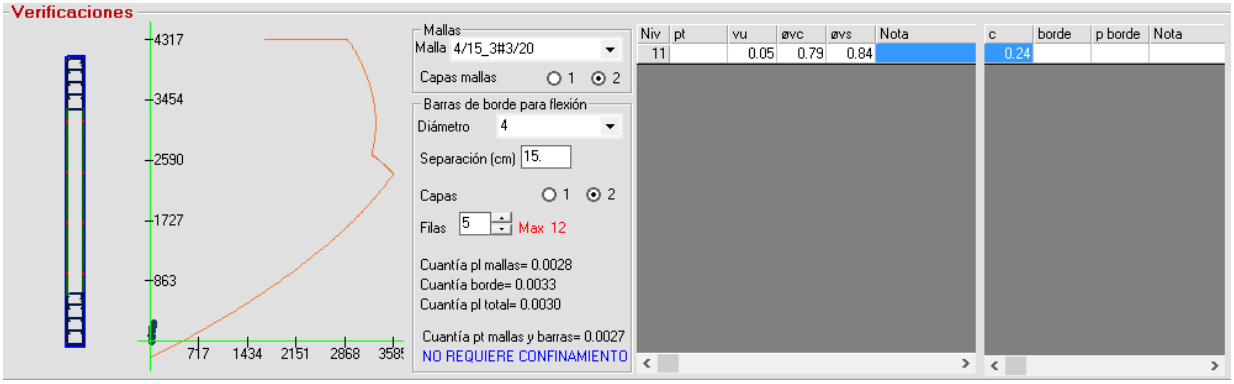
PANTALLA 2-TRAMO 9



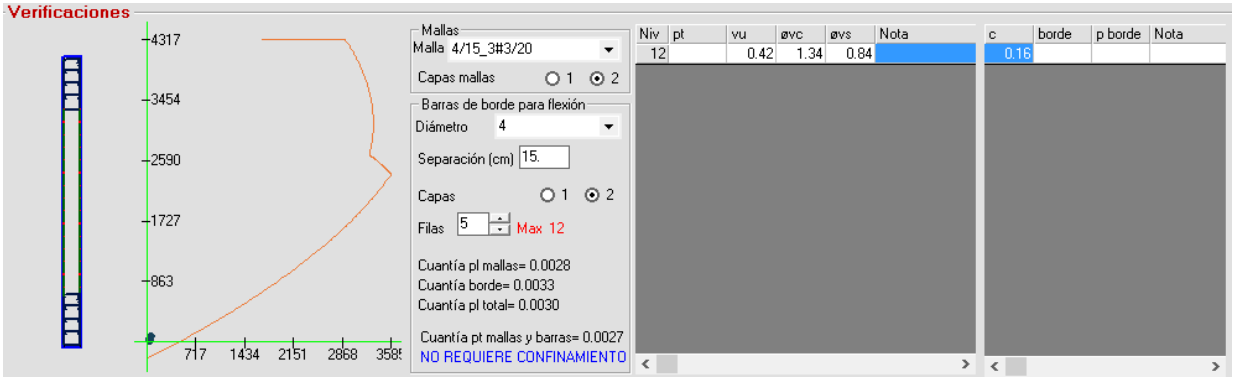
PANTALLA 2-TRAMO 10



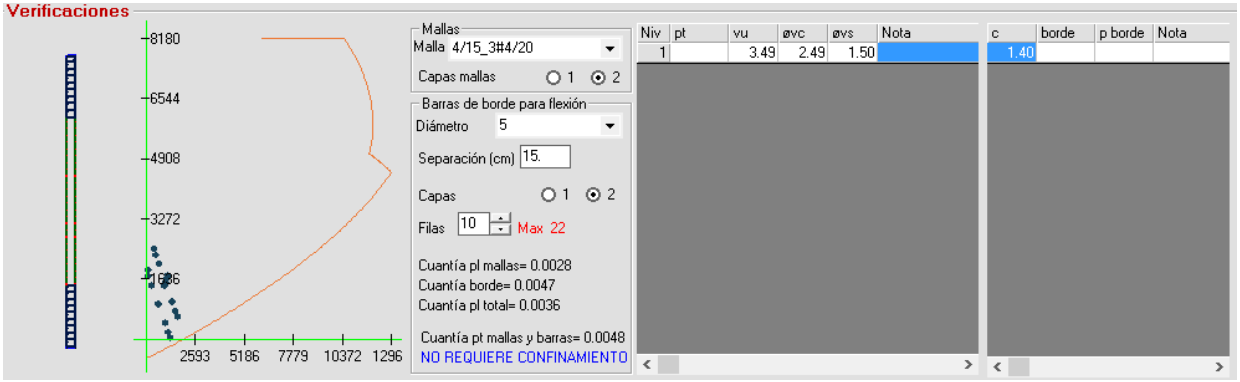
PANTALLA 2-TRAMO 11



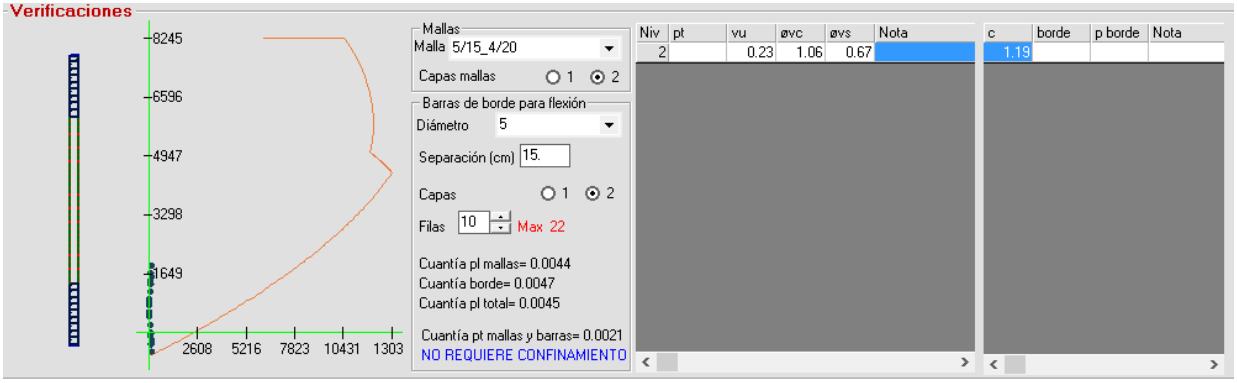
PANTALLA 2-TRAMO 12



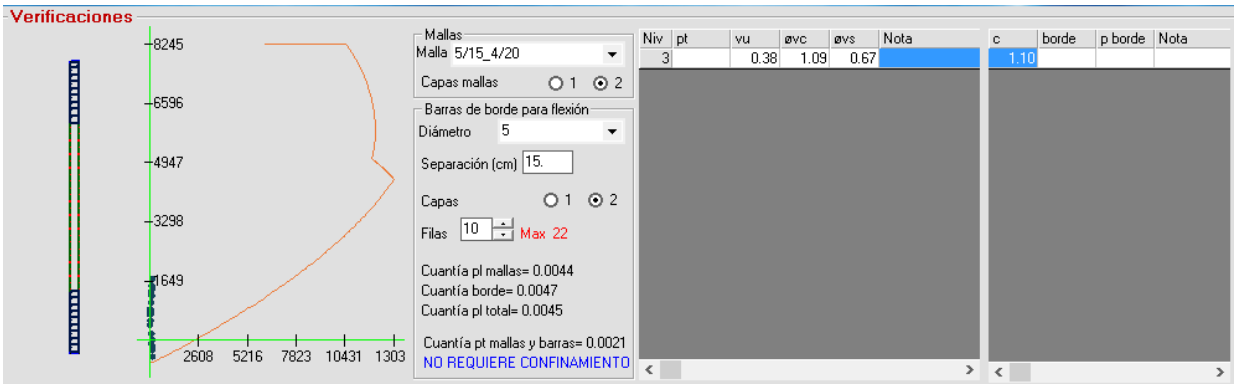
PANTALLA 3-TRAMO 1



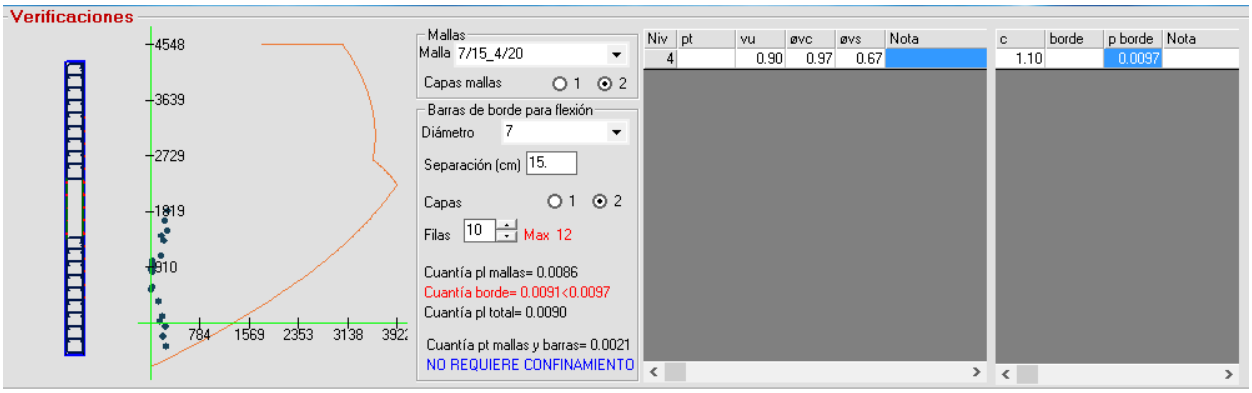
PANTALLA 3-TRAMO 2



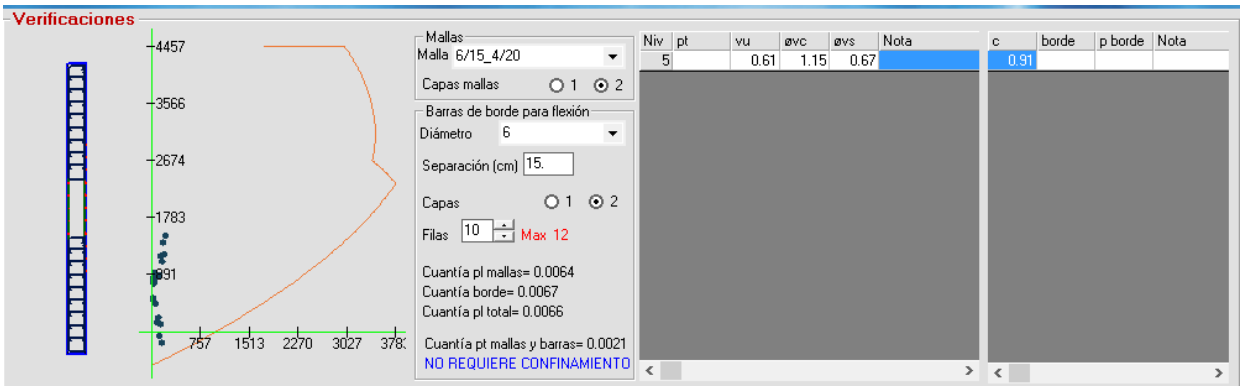
PANTALLA 3-TRAMO 3



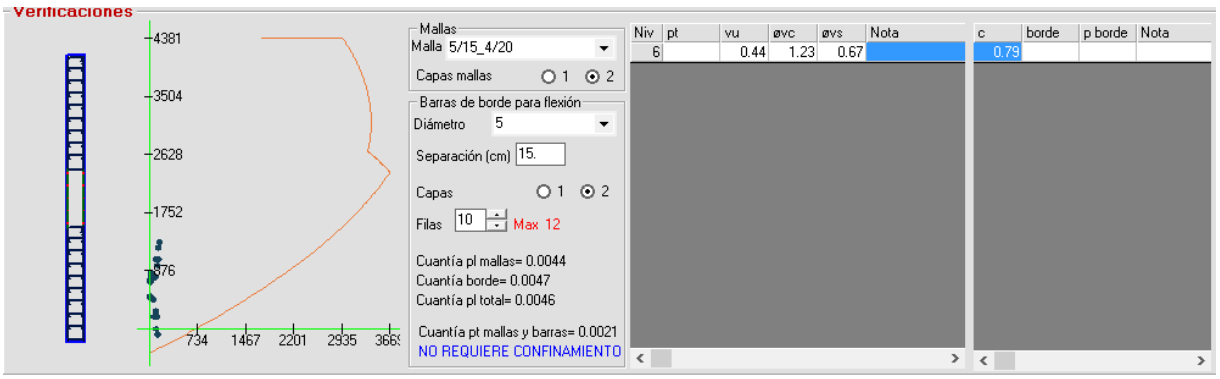
PANTALLA 3-TRAMO 4



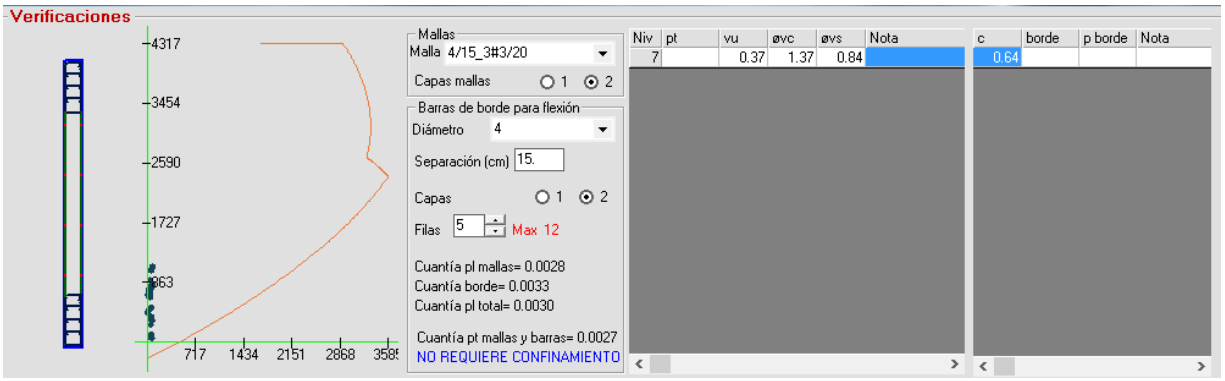
PANTALLA 3-TRAMO 5



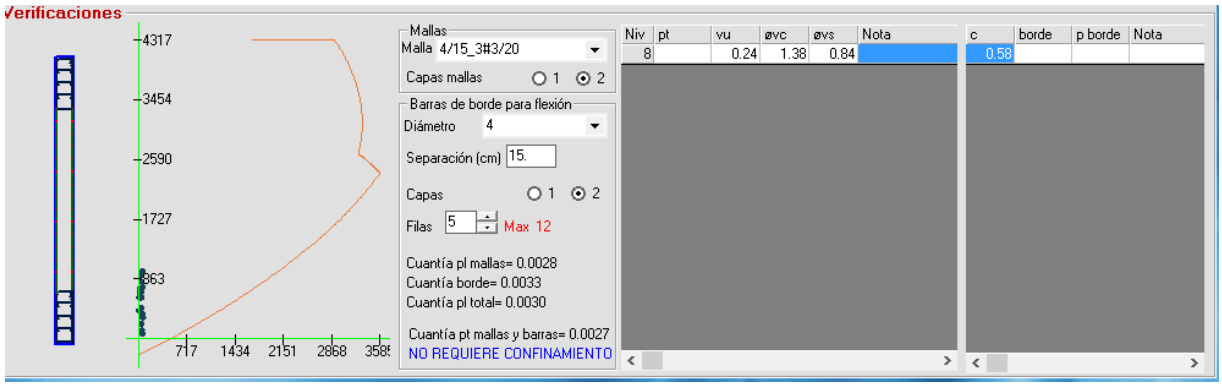
PANTALLA 3-TRAMO 6



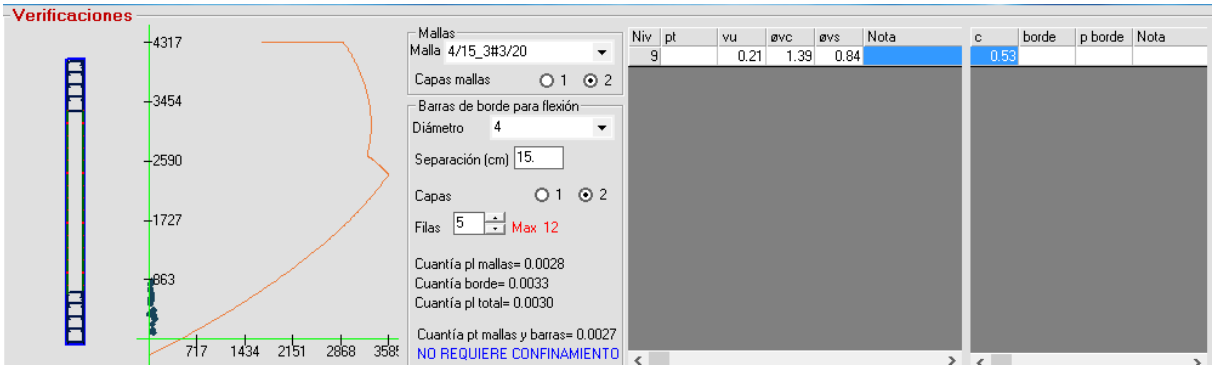
PANTALLA 3-TRAMO 7



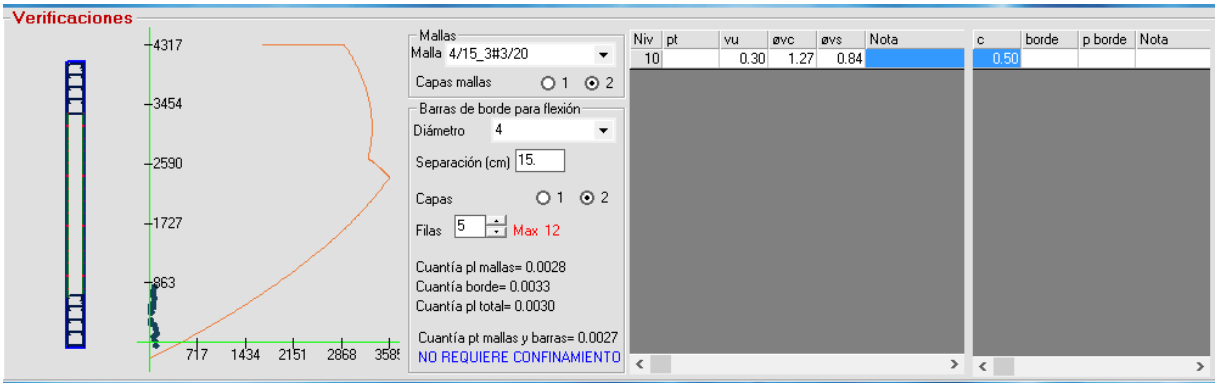
PANTALLA 3-TRAMO 8



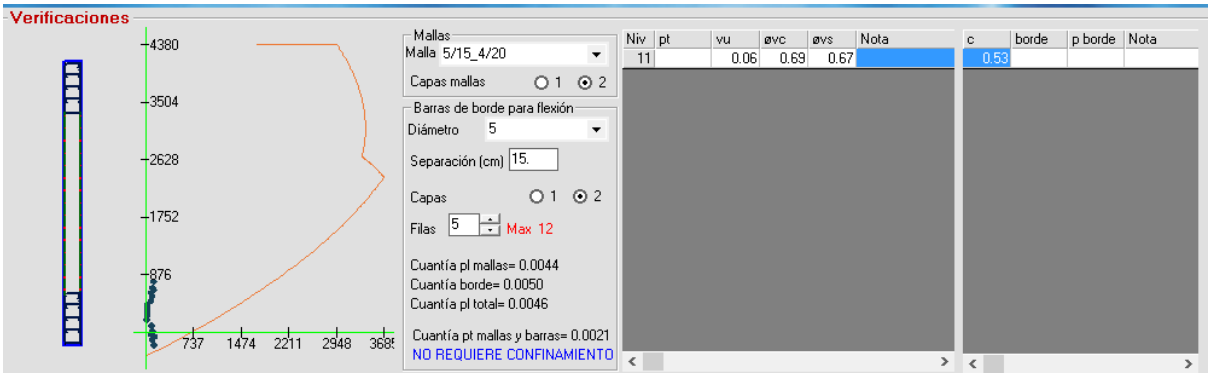
PANTALLA 3-TRAMO 9



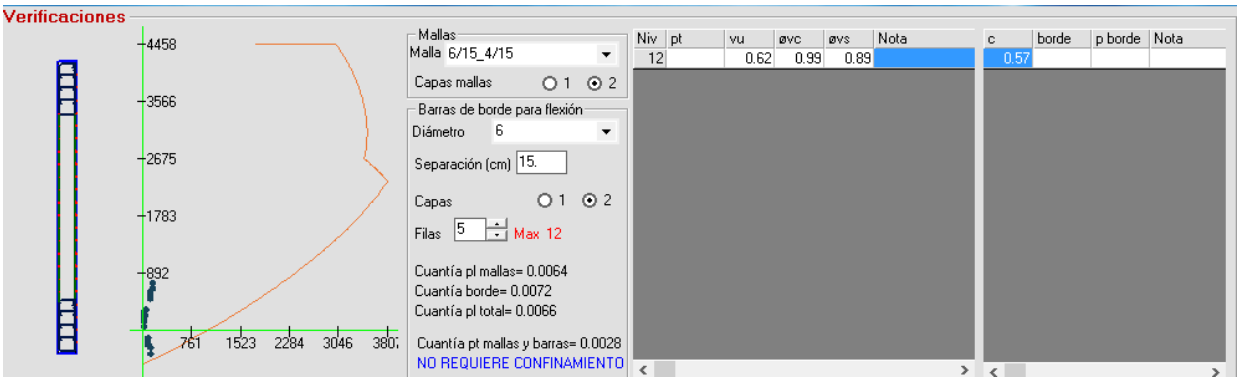
PANTALLA 3-TRAMO 10



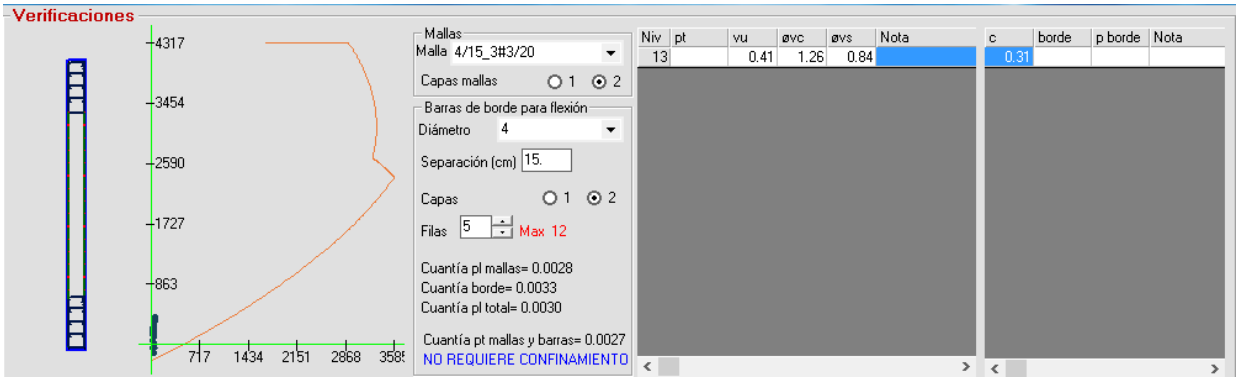
PANTALLA 3-TRAMO 11



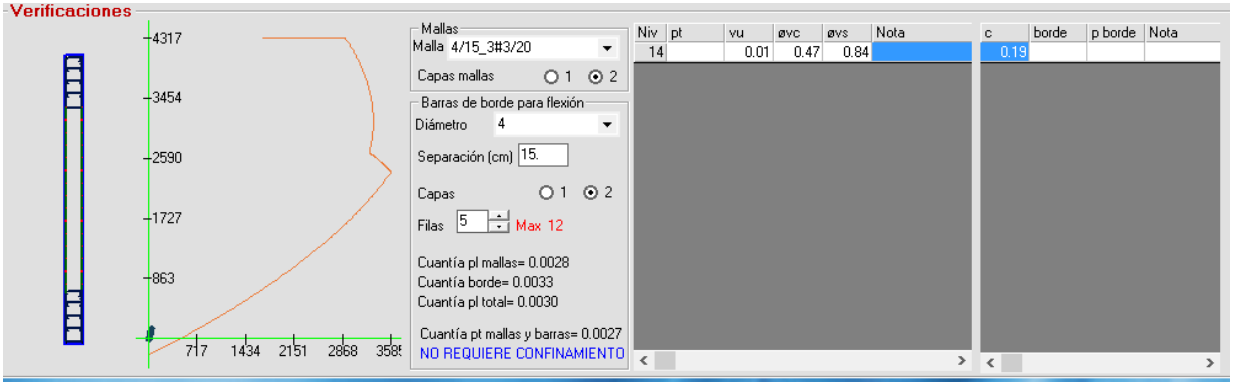
PANTALLA 3-TRAMO 12



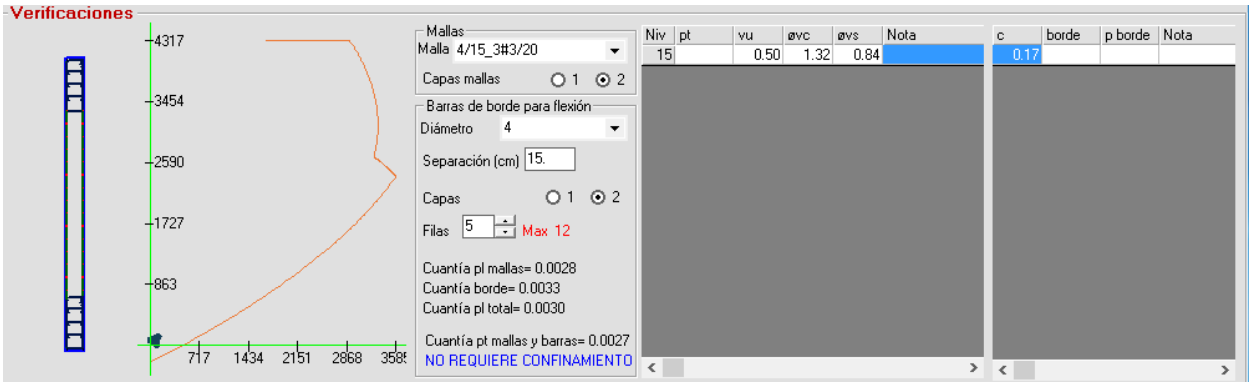
PANTALLA 3-TRAMO 13



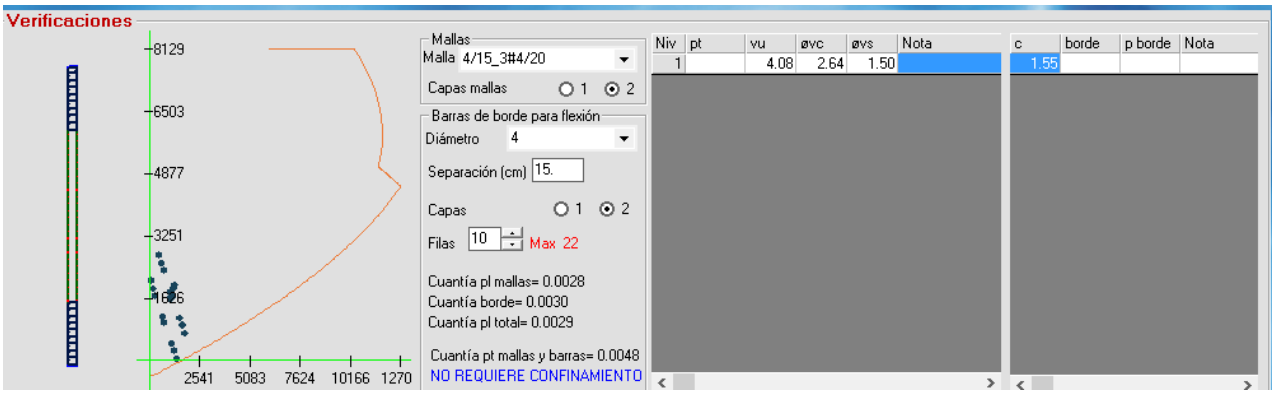
PANTALLA 3-TRAMO 14



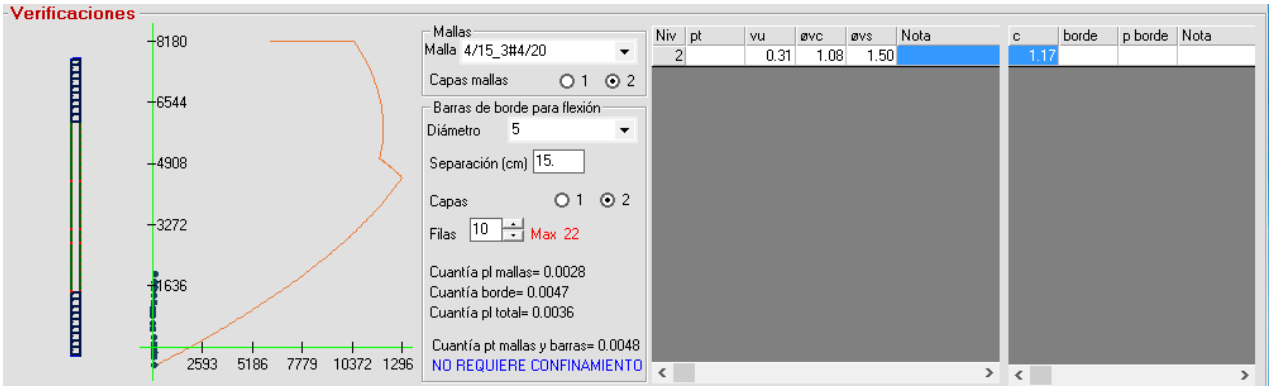
PANTALLA 3-TRAMO 15



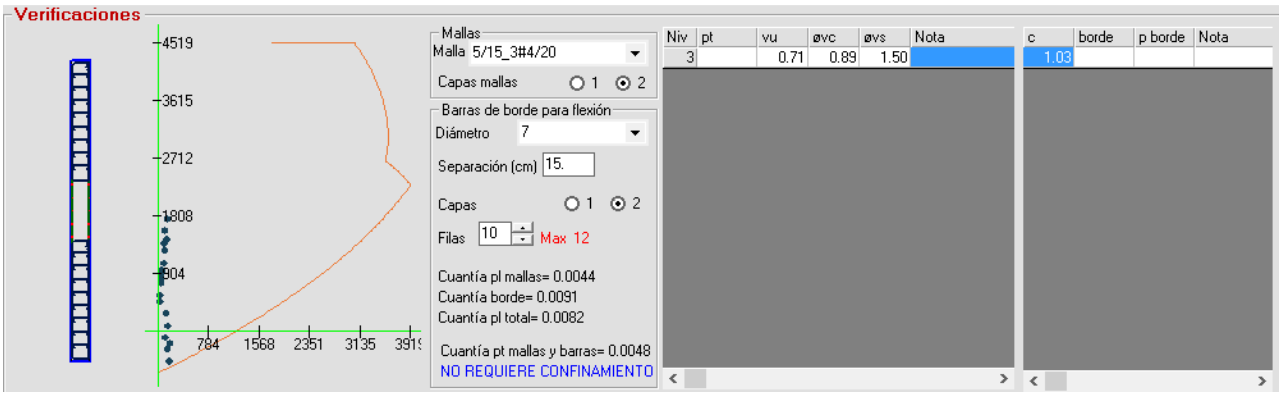
PANTALLA 4-TRAMO 1



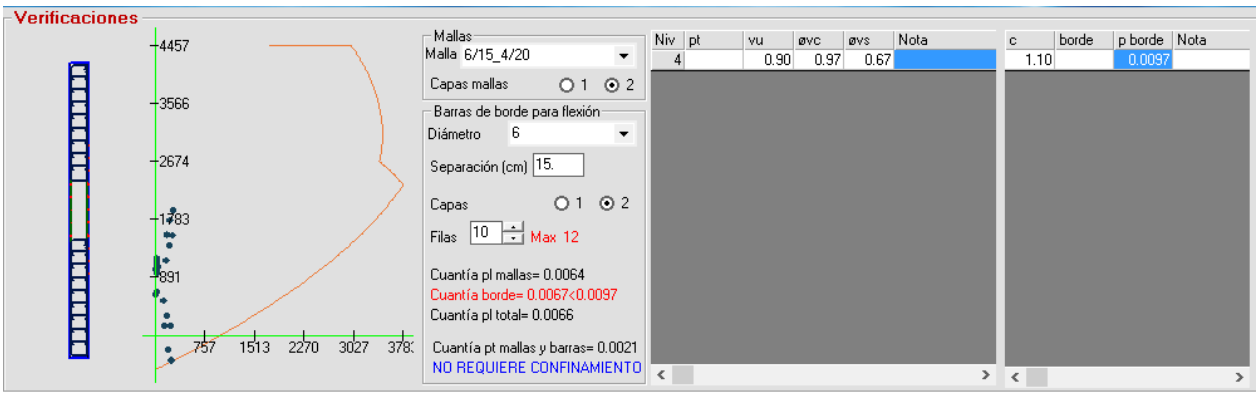
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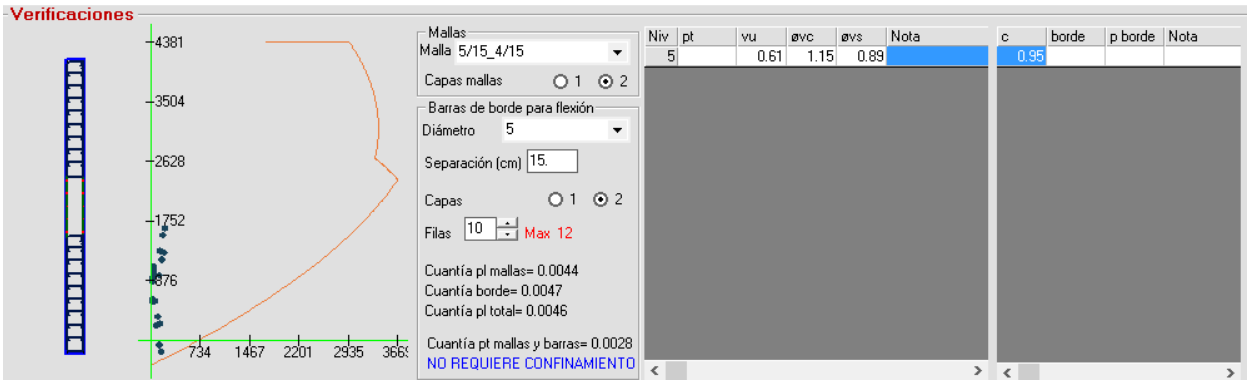
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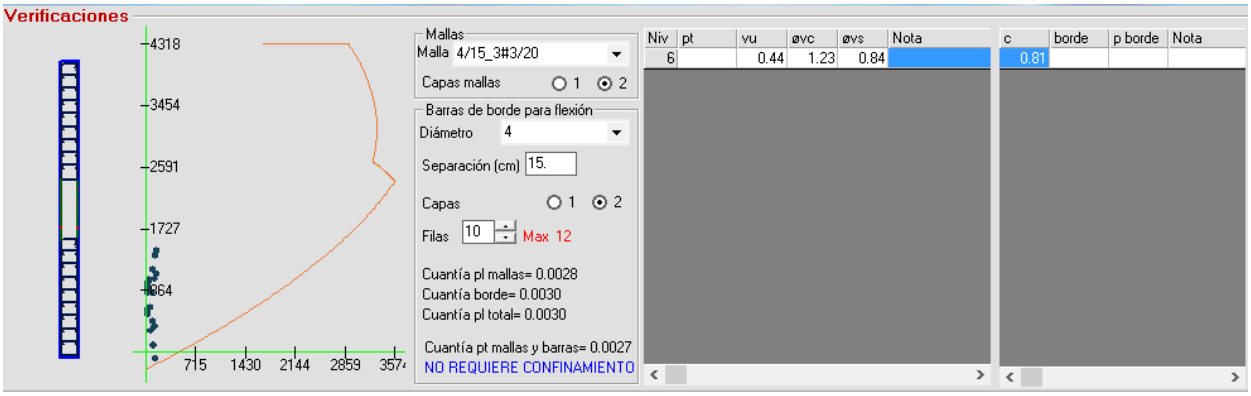
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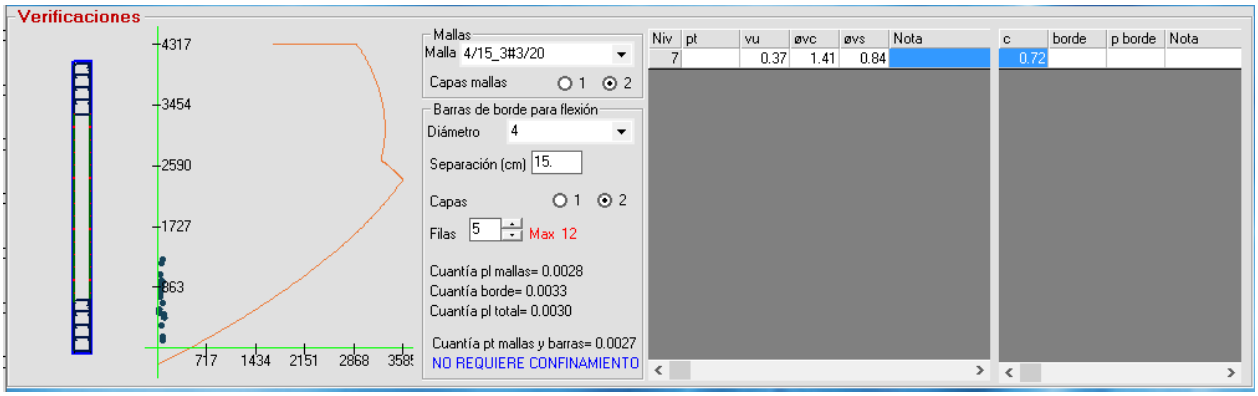
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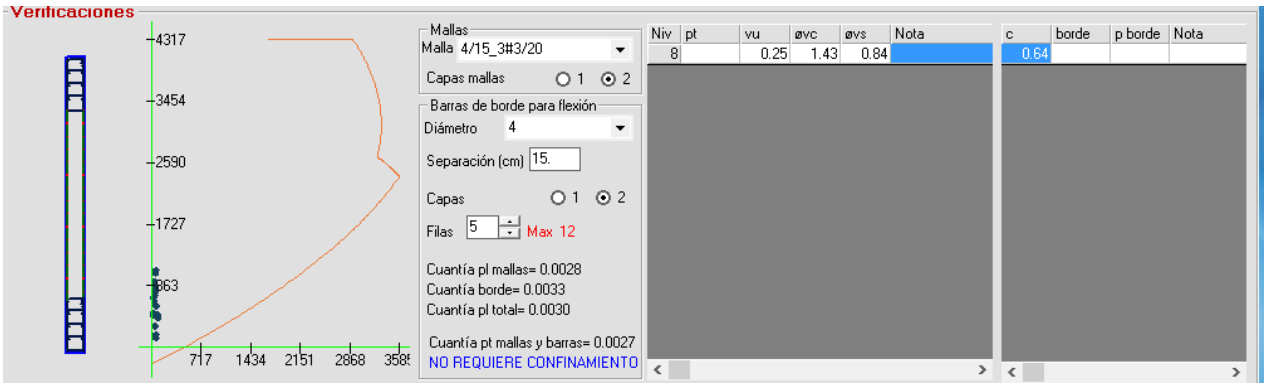
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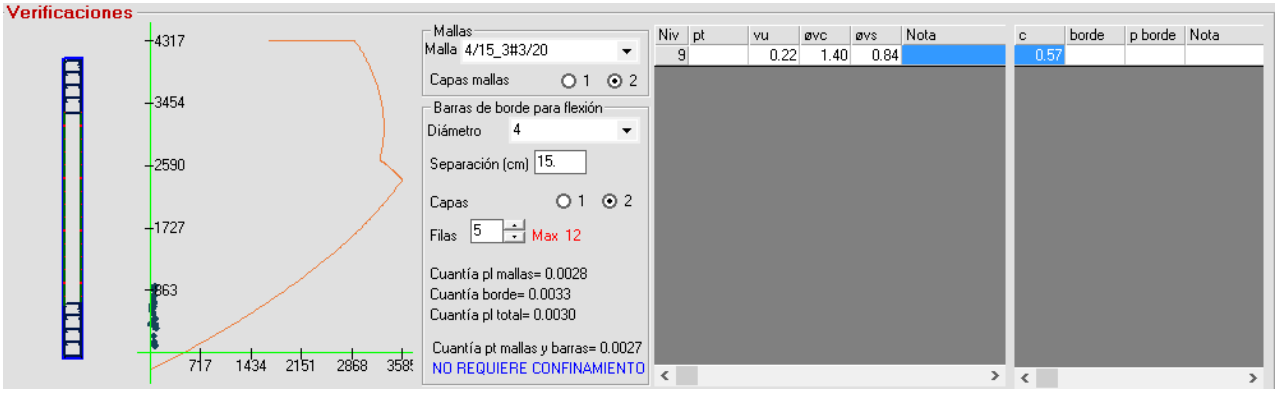
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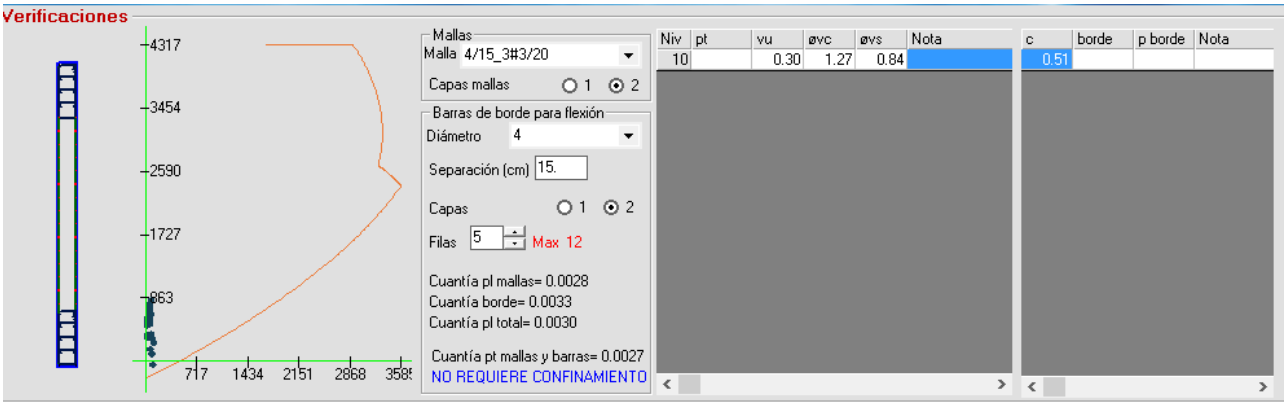
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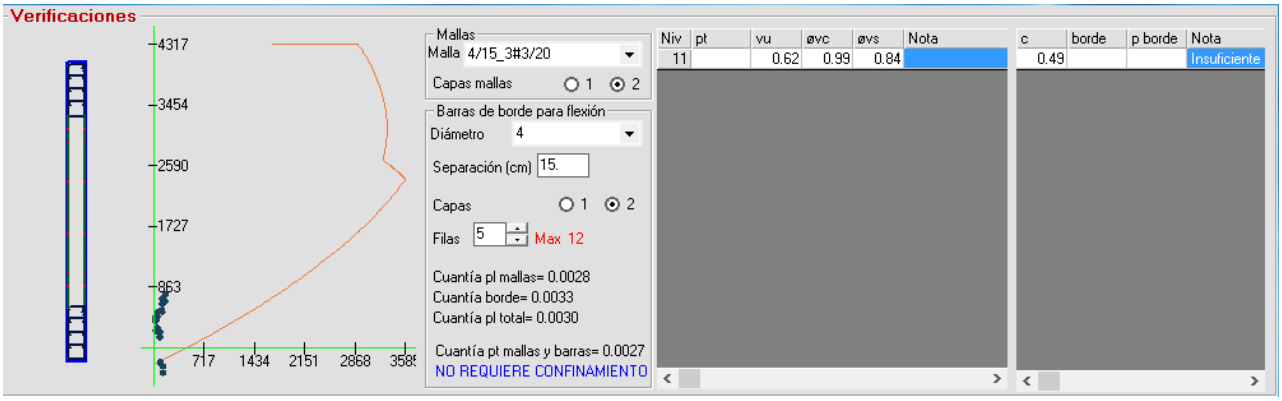
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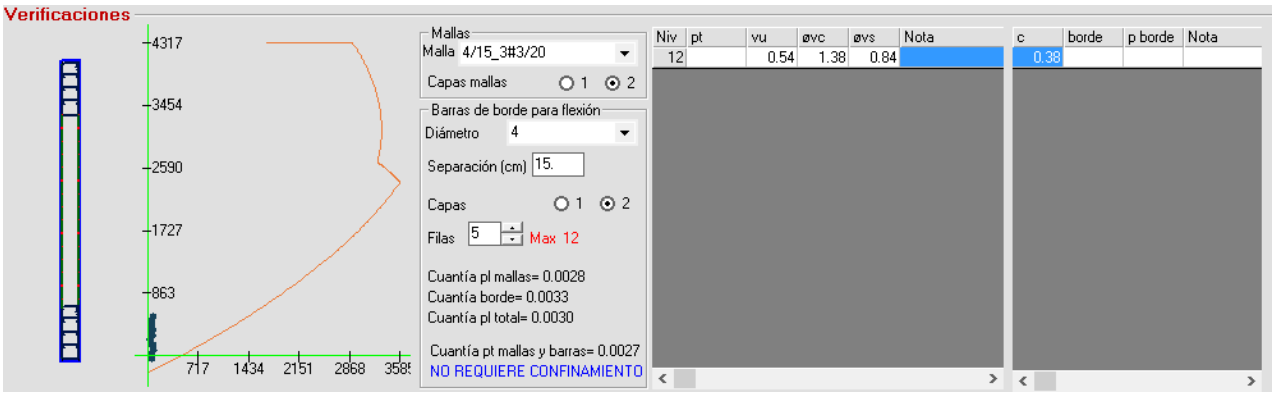
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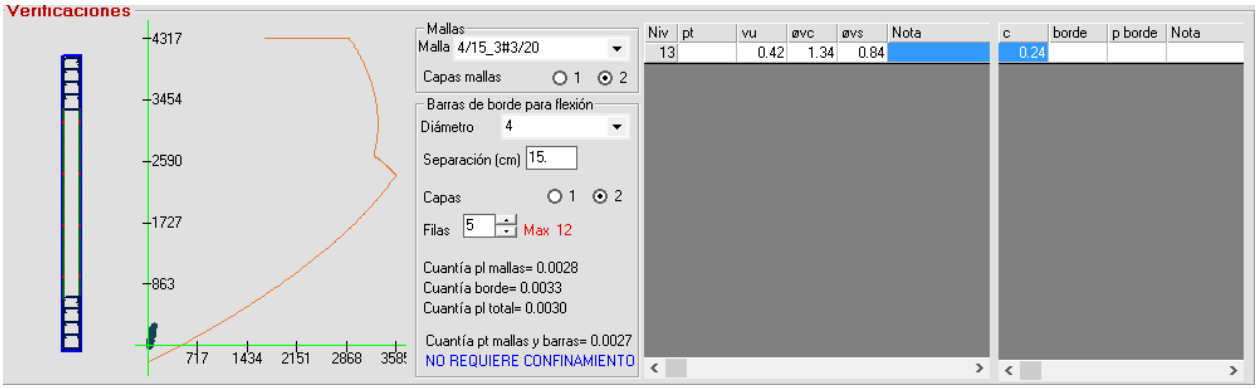
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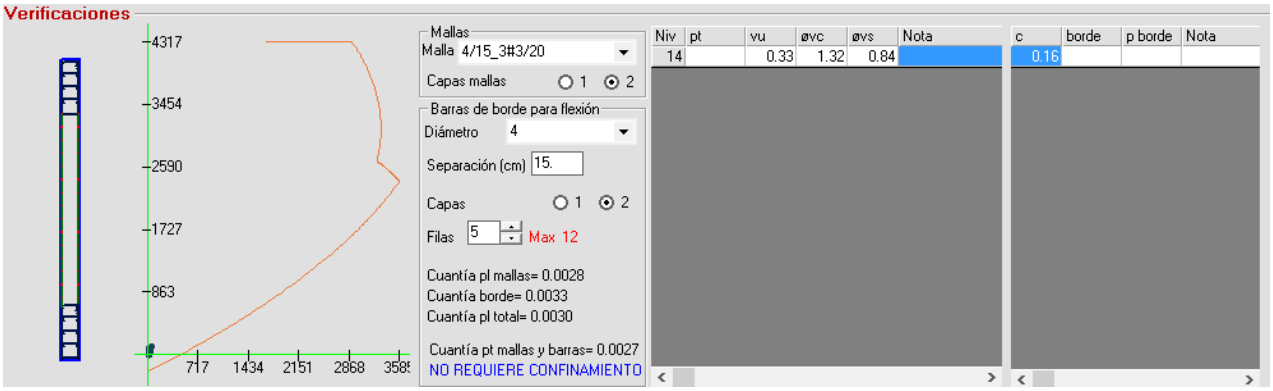
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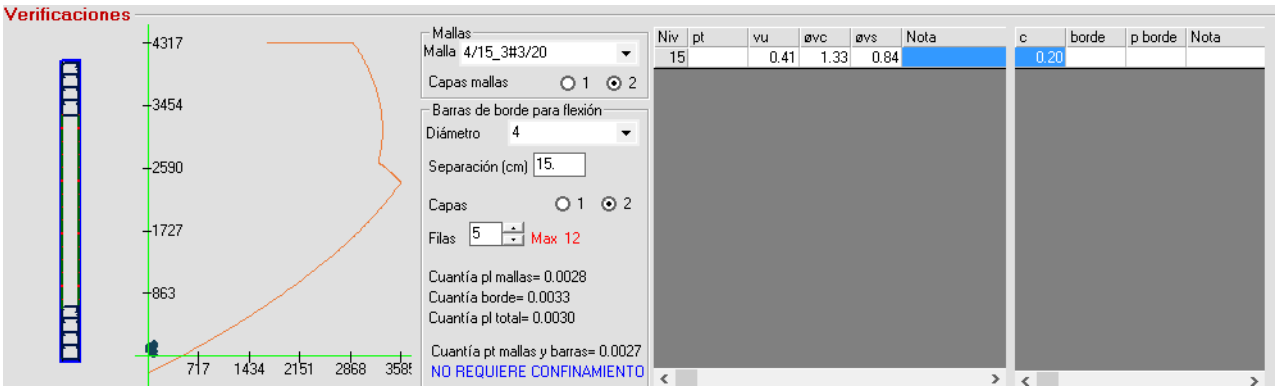
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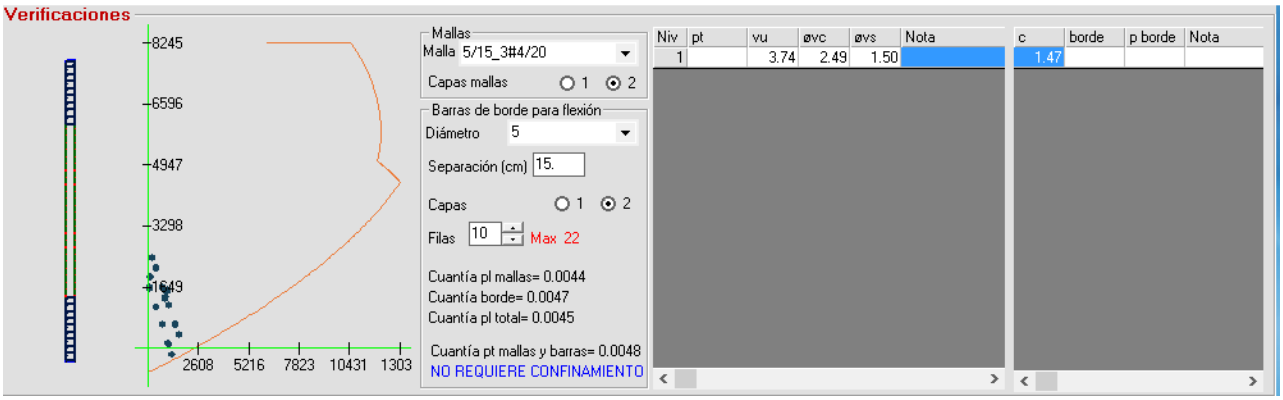
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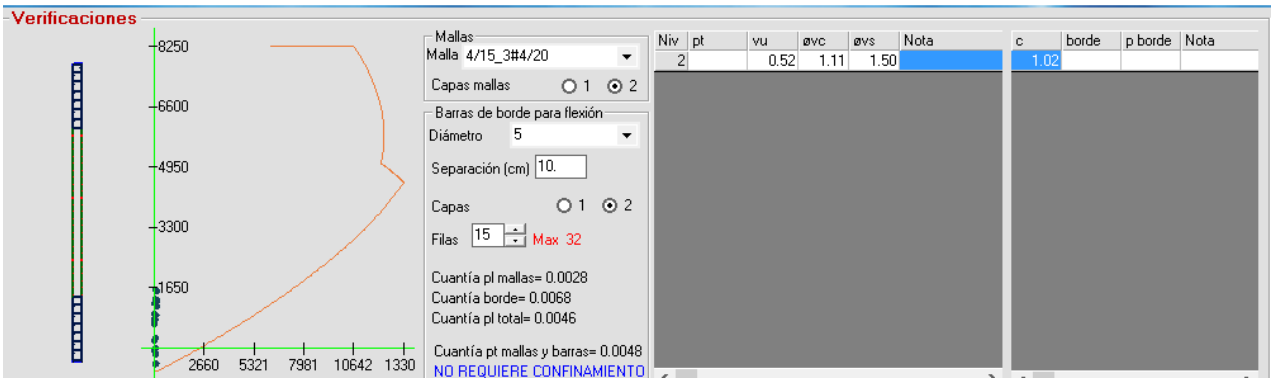
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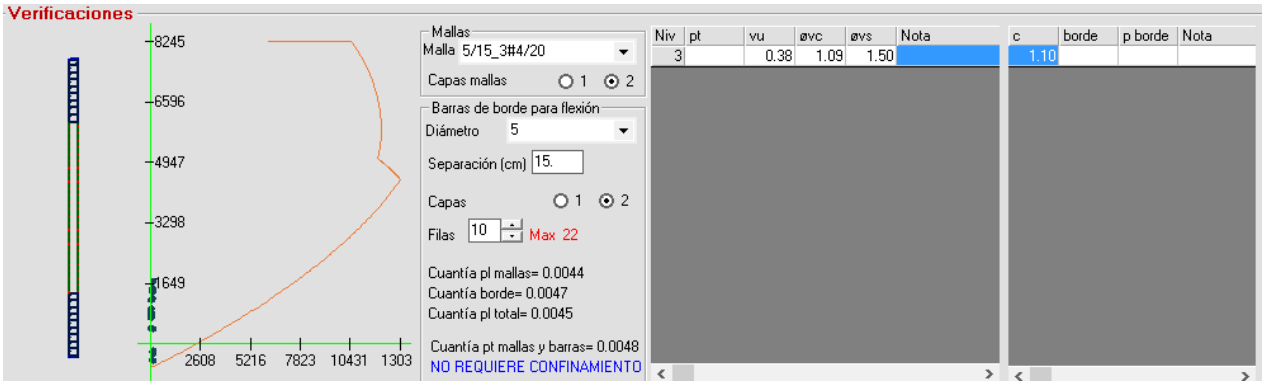
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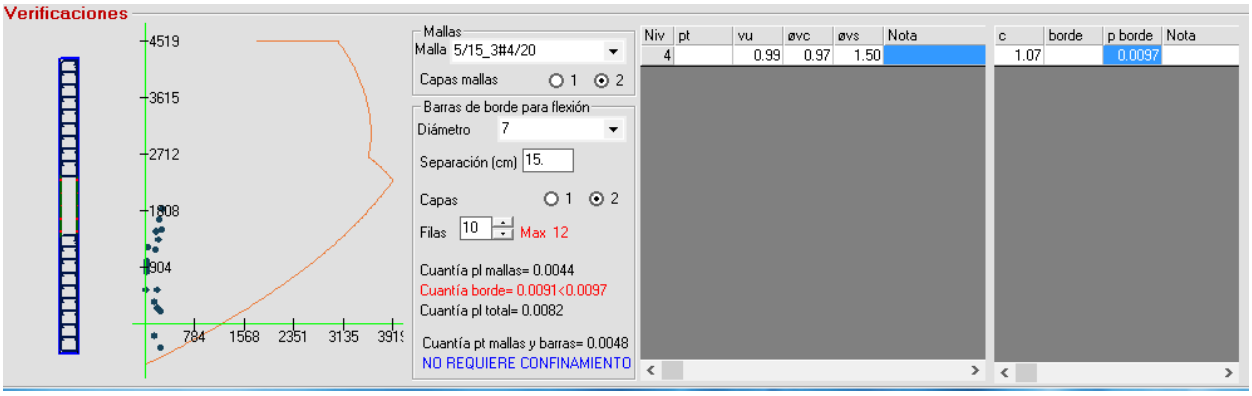
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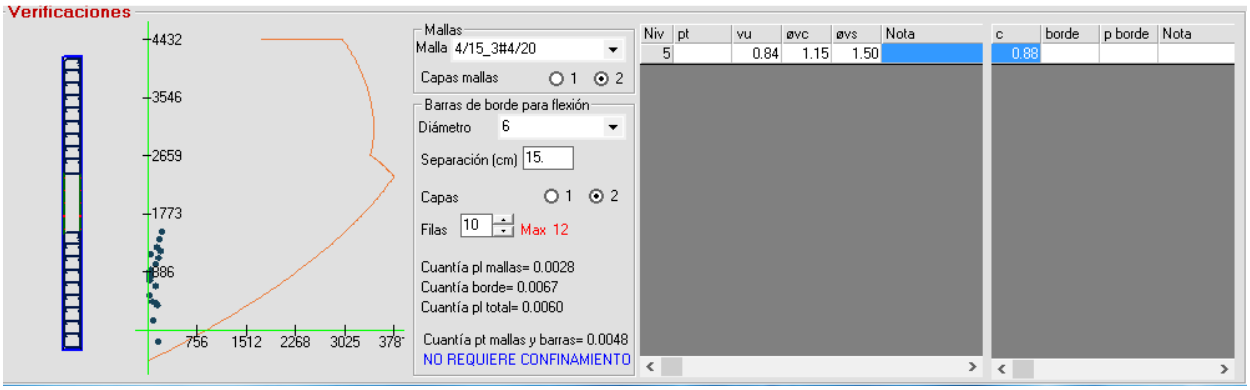
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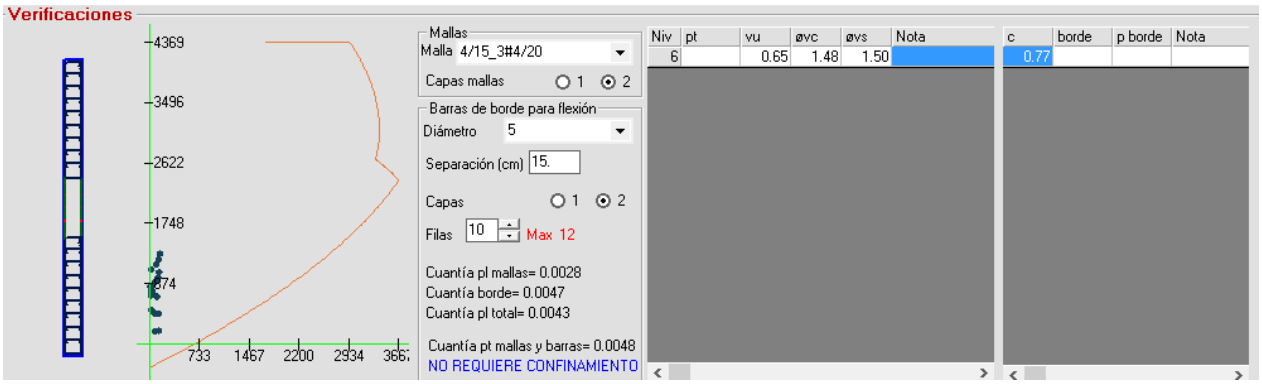
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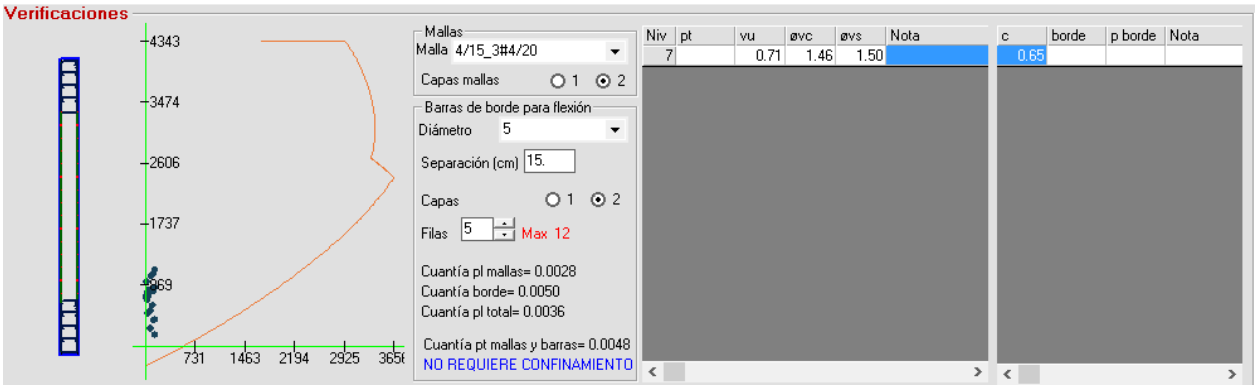
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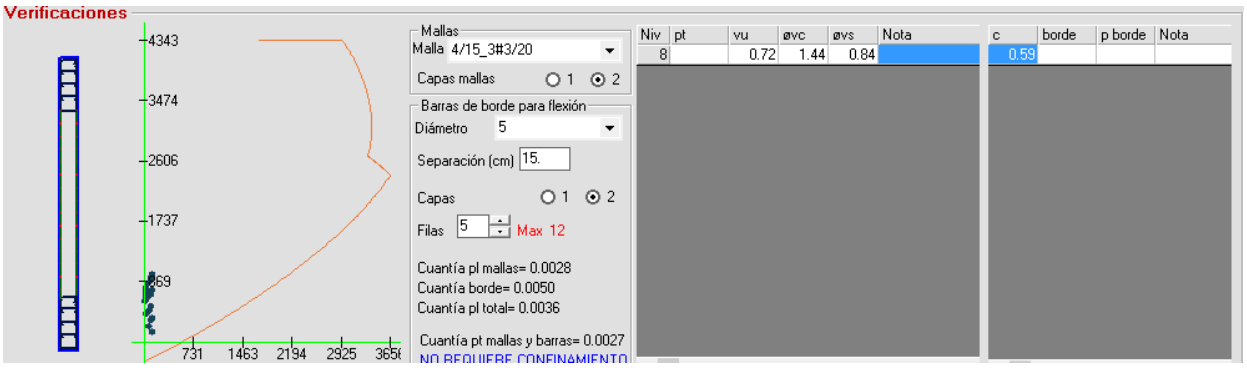
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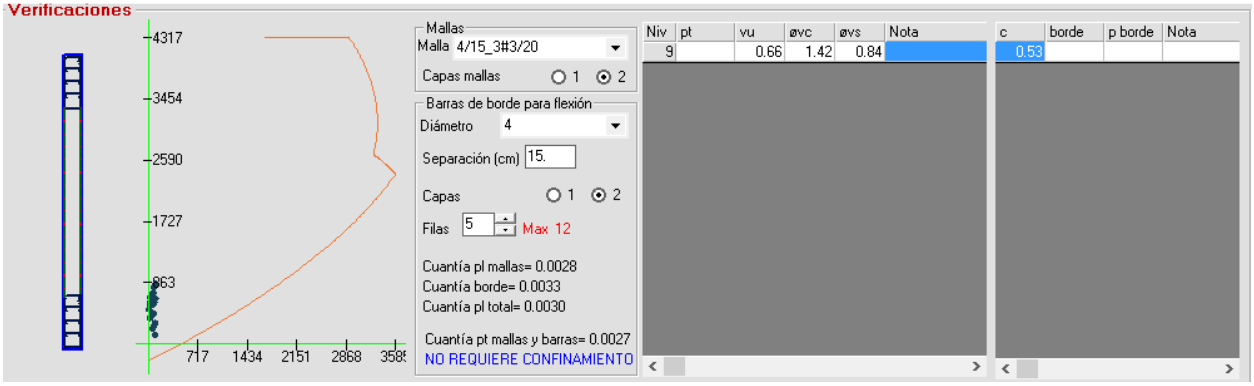
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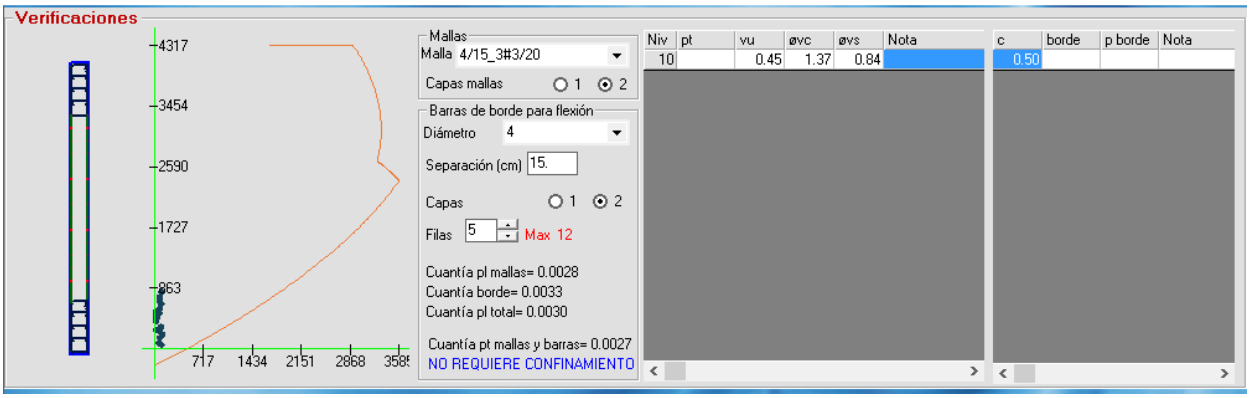
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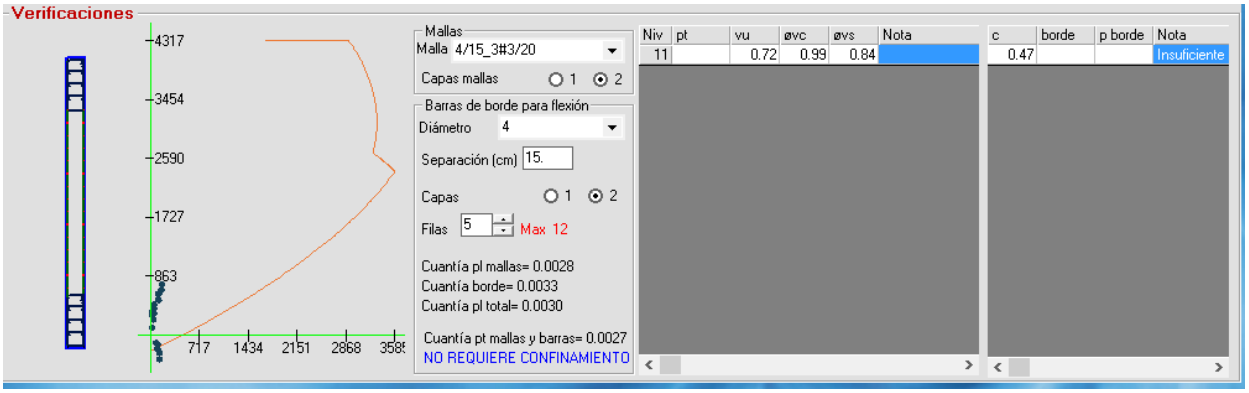
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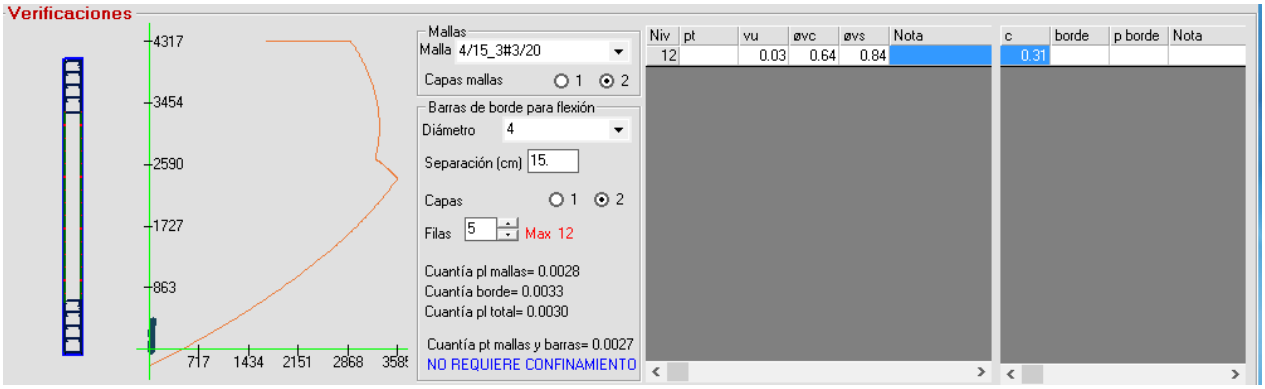
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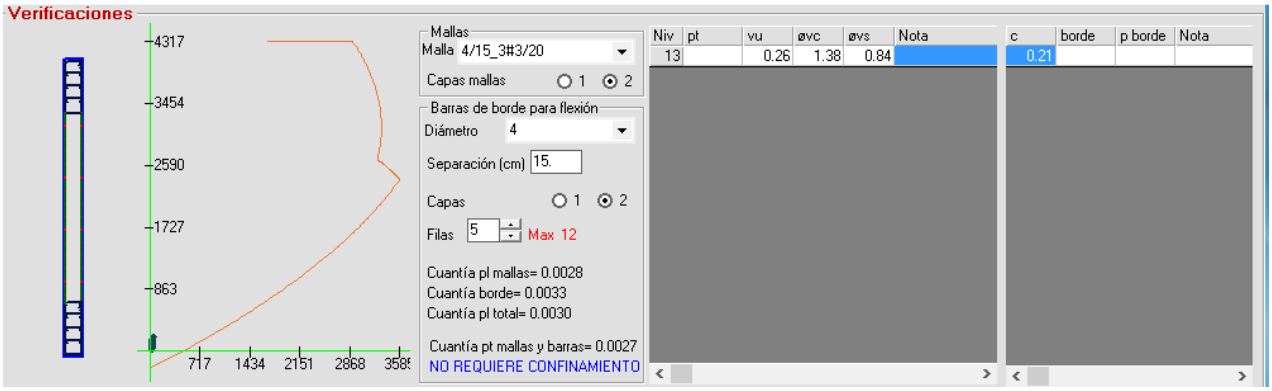
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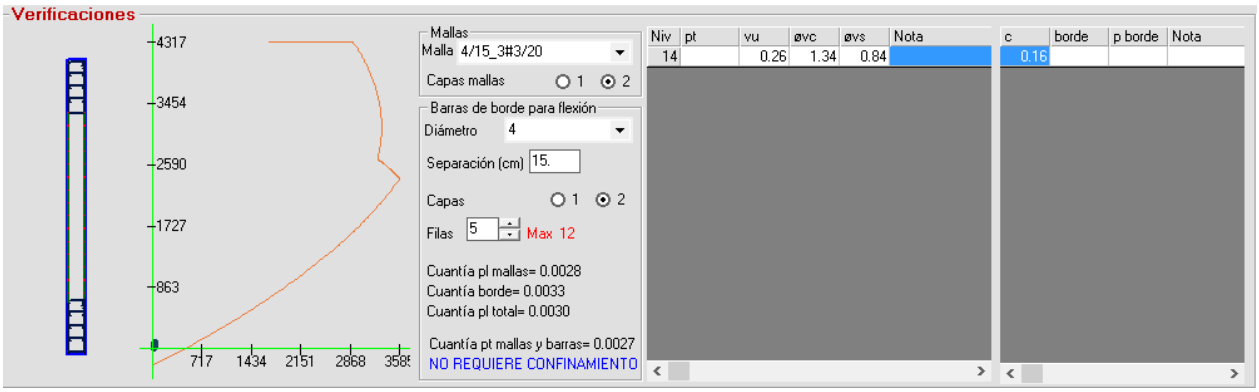
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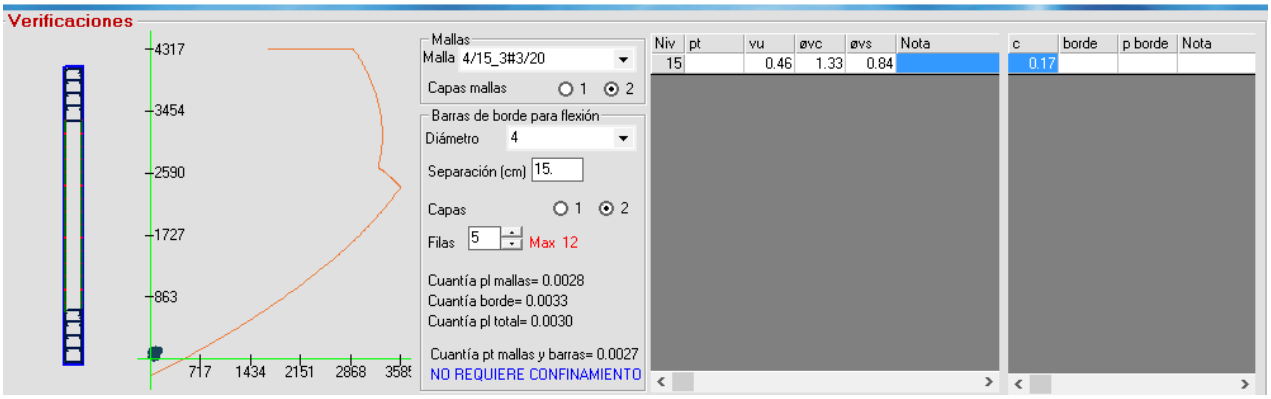
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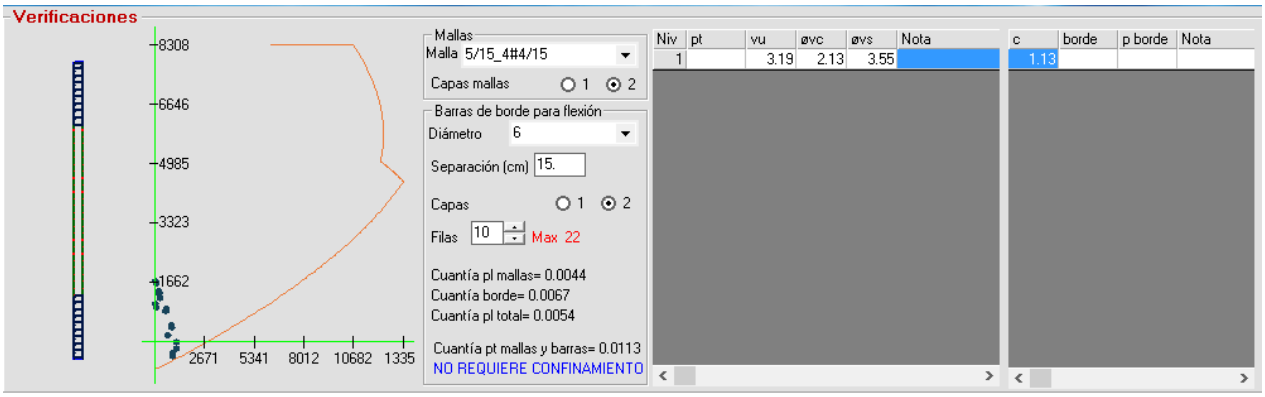
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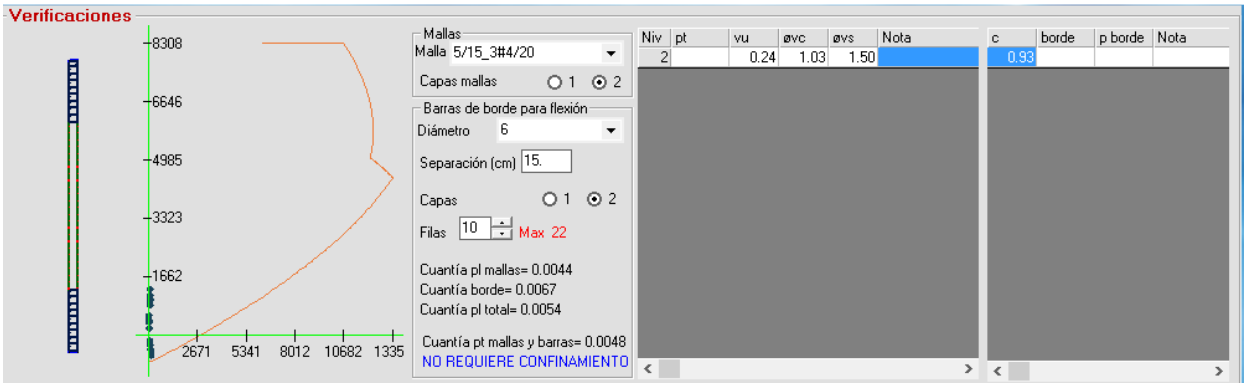
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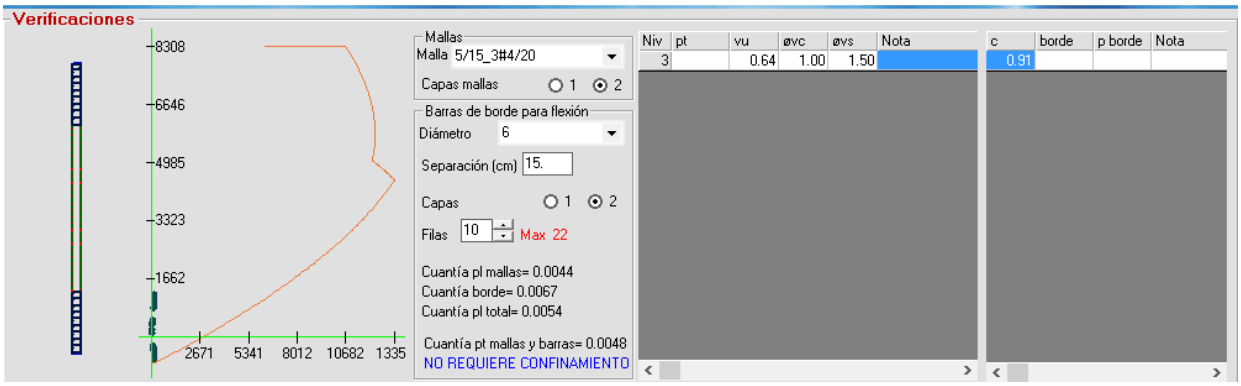
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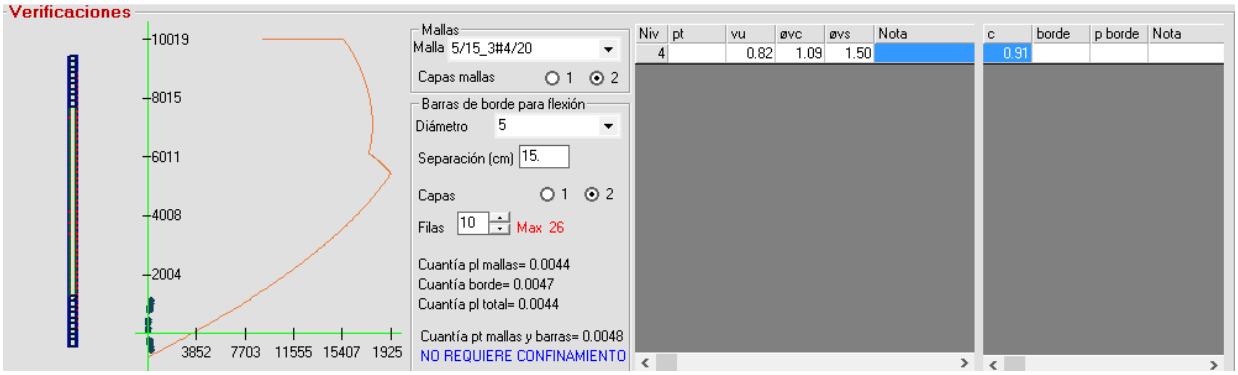
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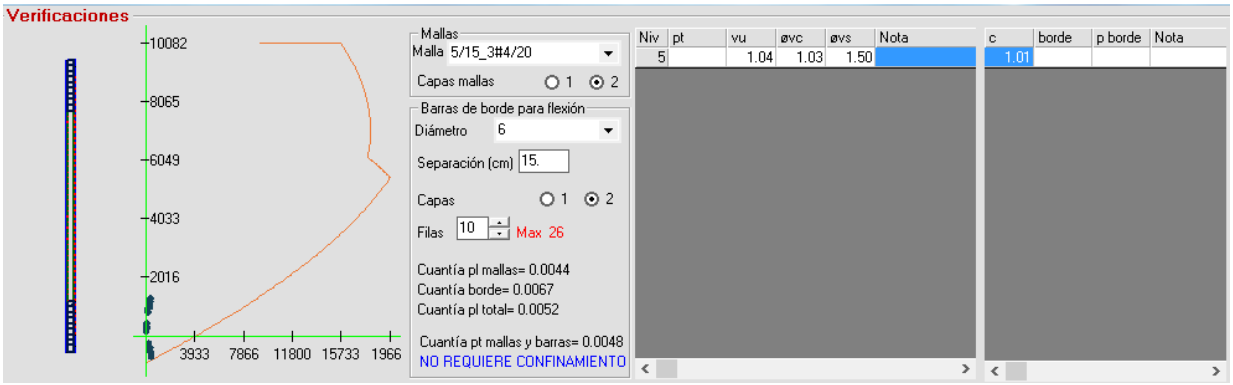
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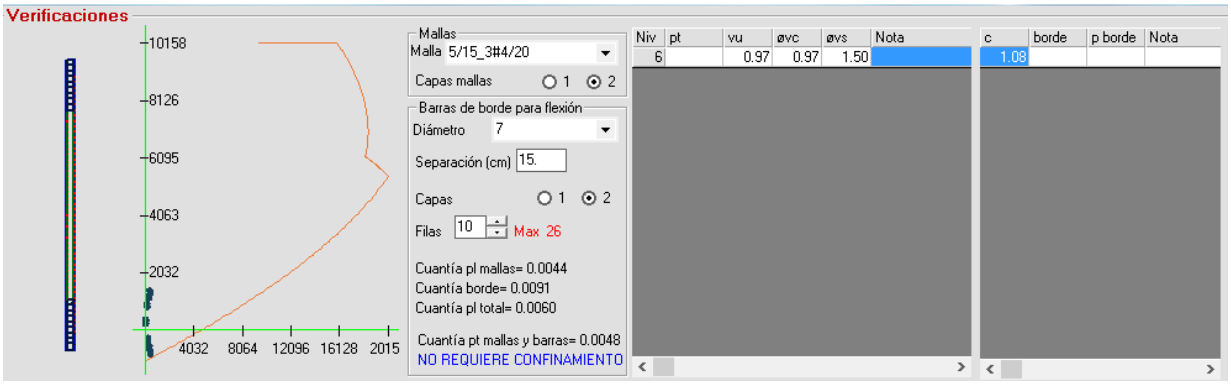
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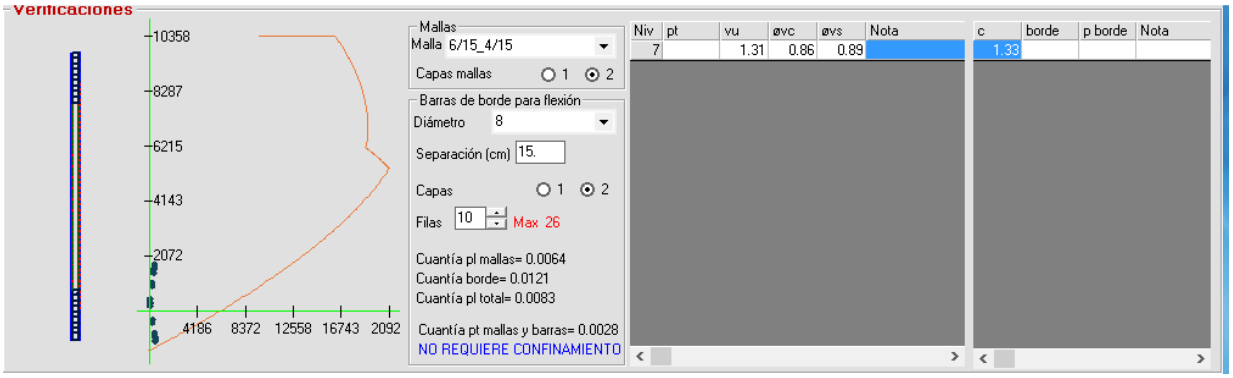
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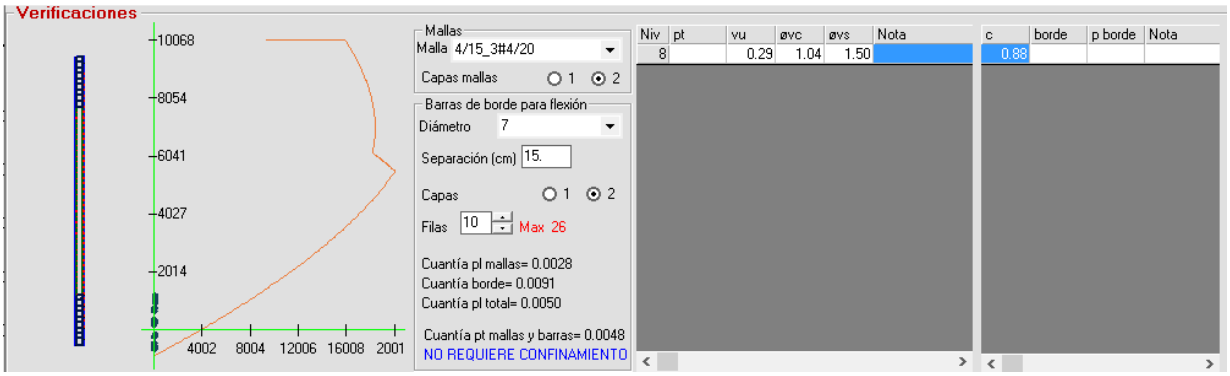
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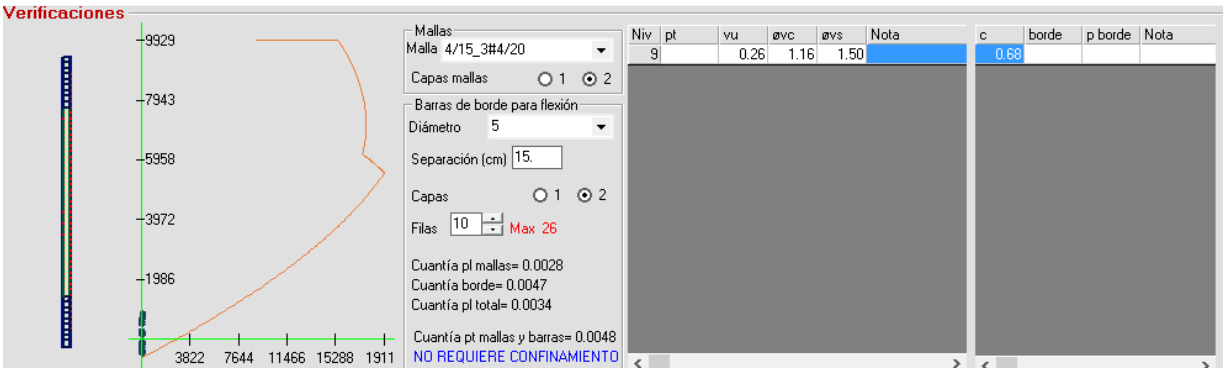
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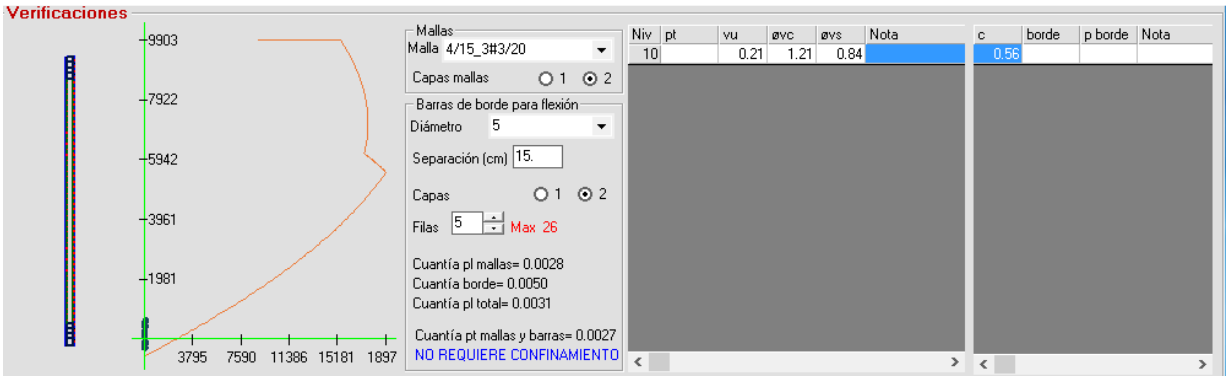
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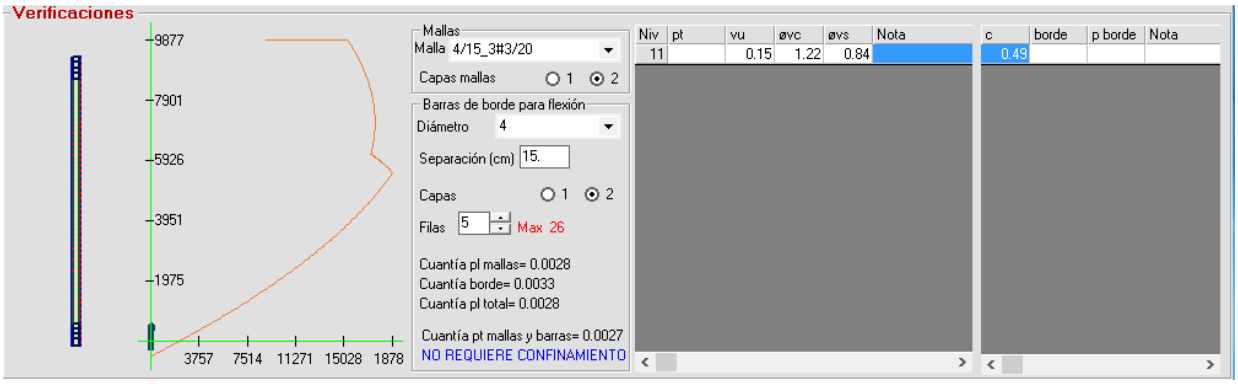
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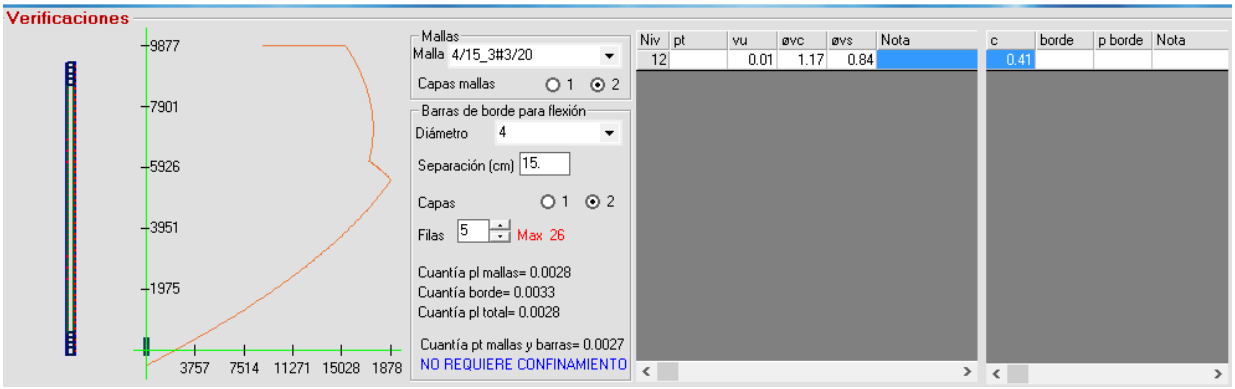
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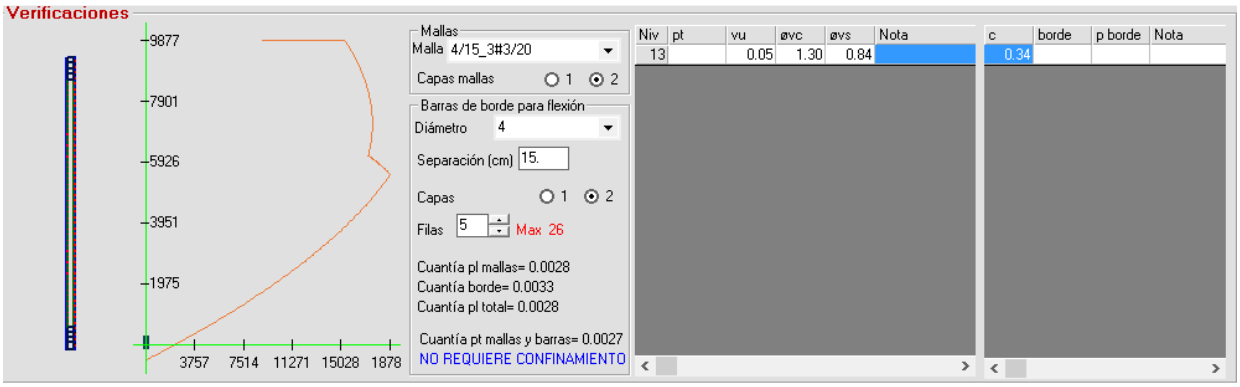
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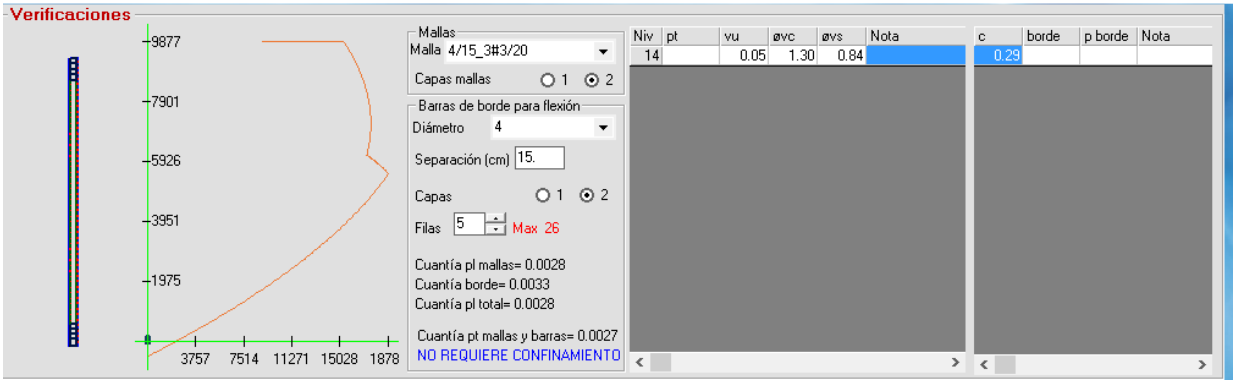
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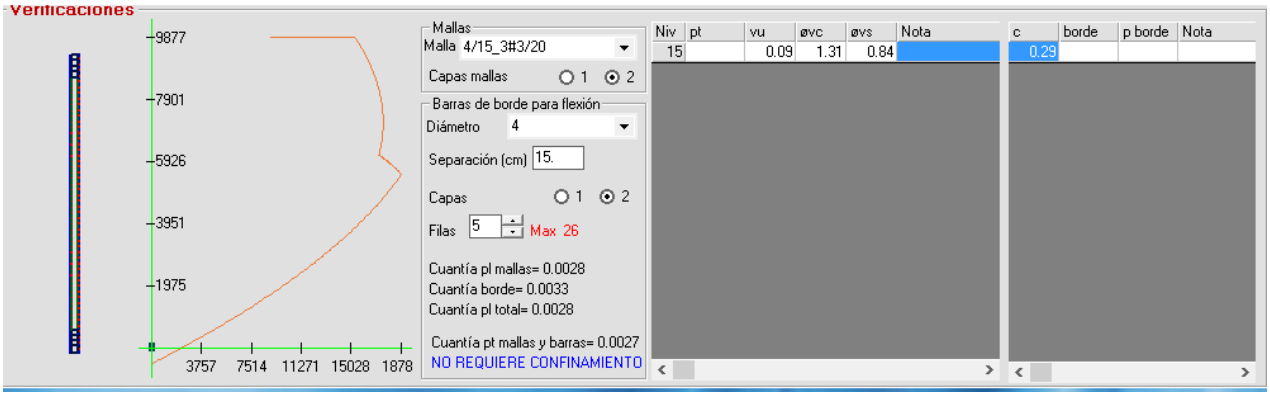
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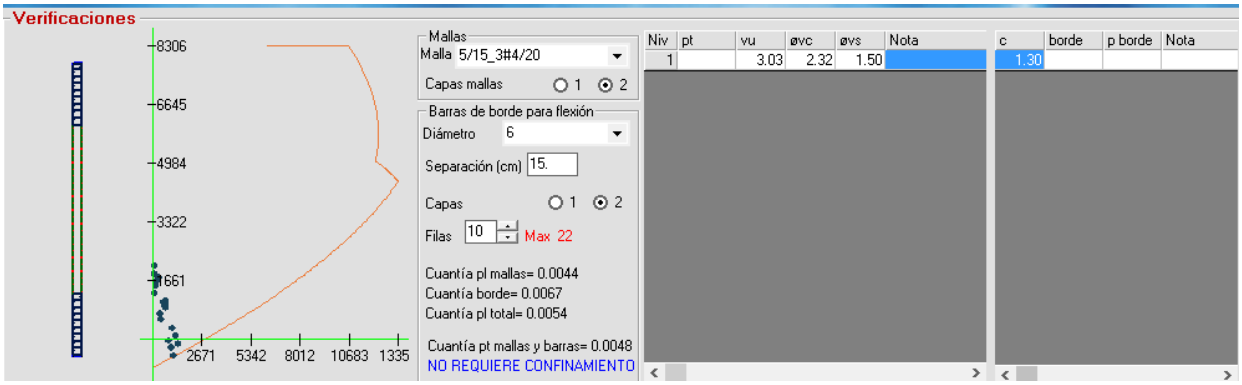
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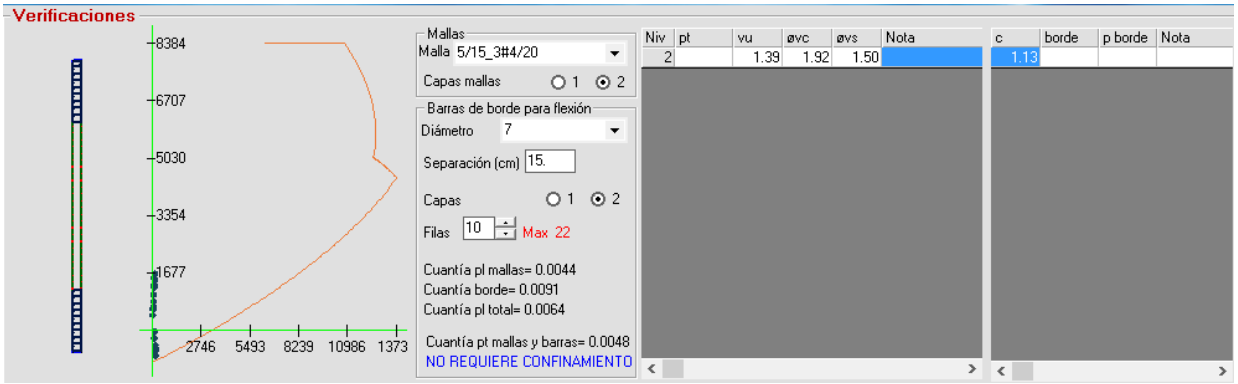
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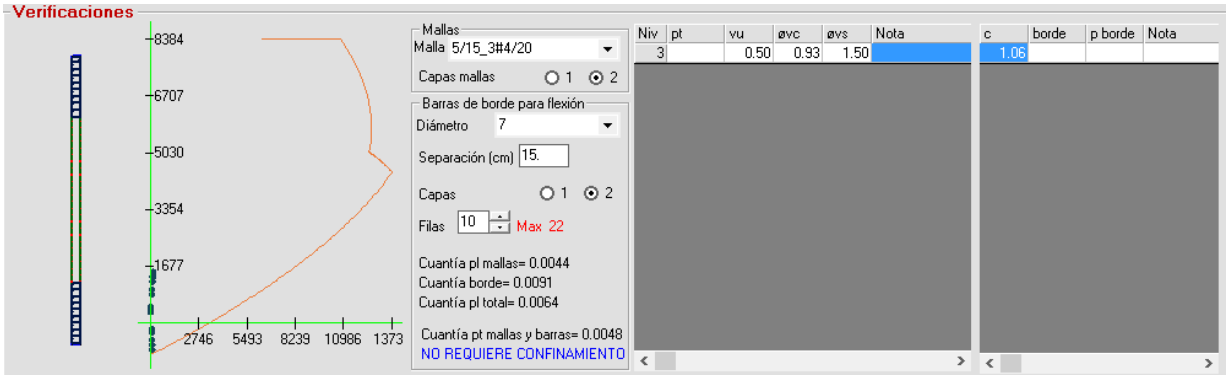
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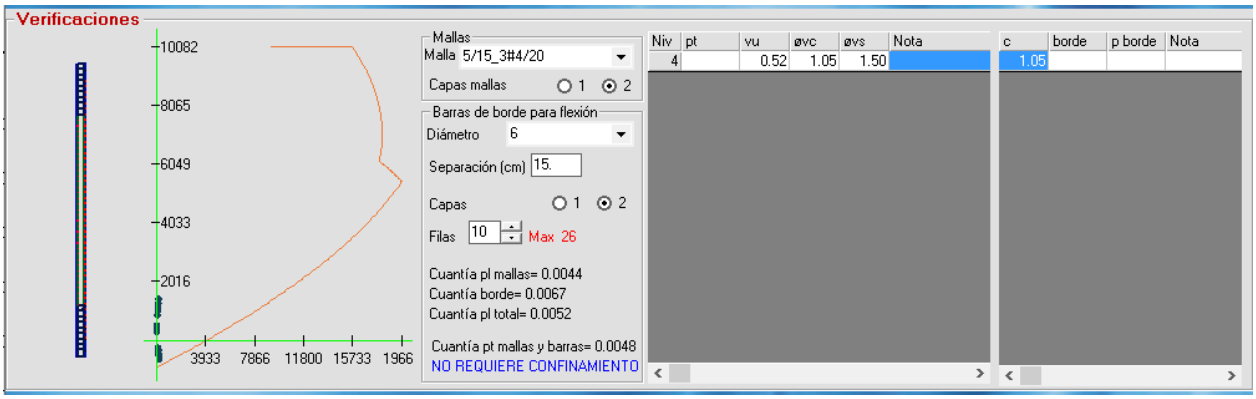
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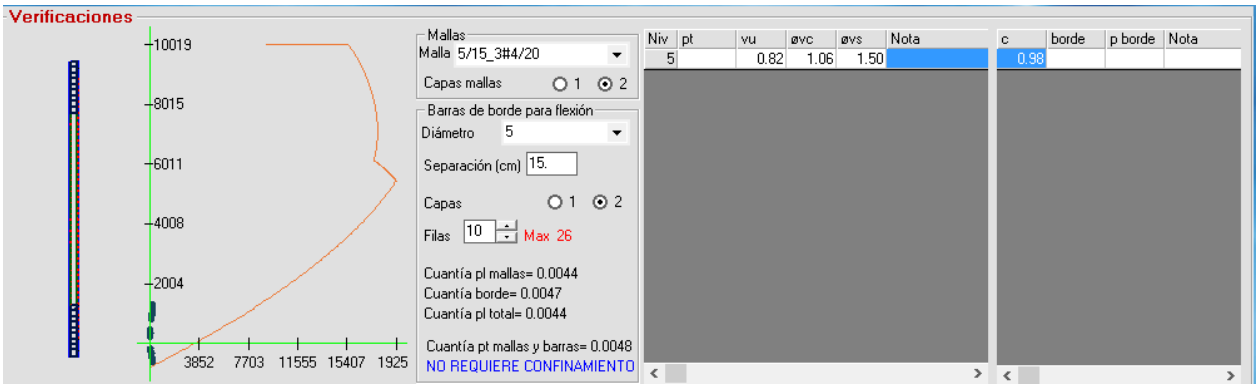
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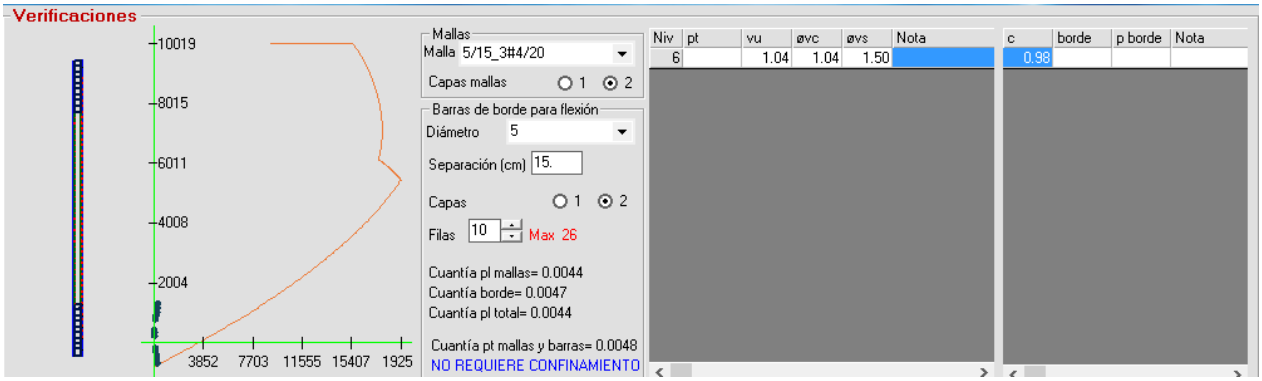
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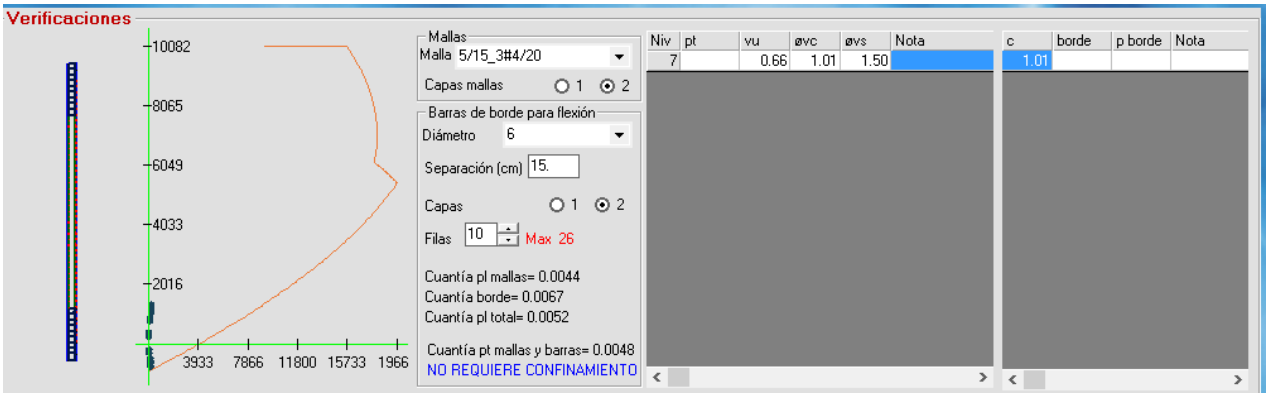
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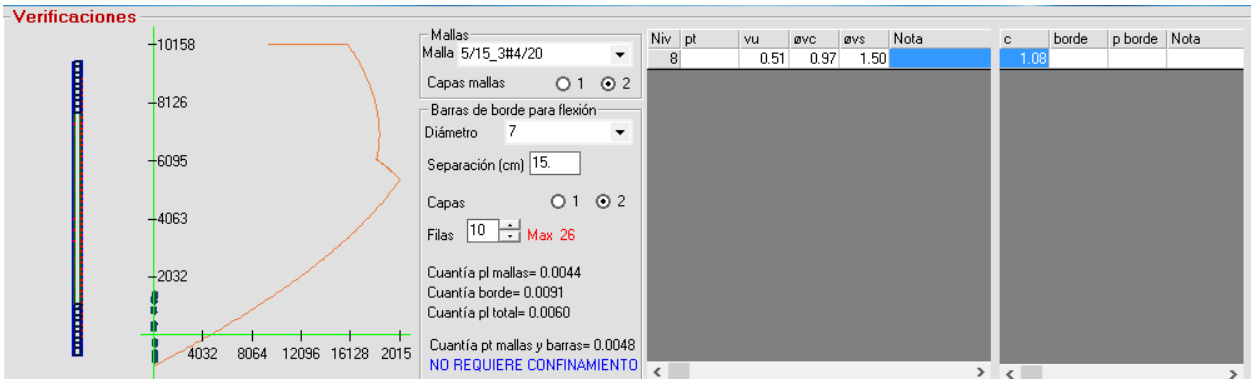
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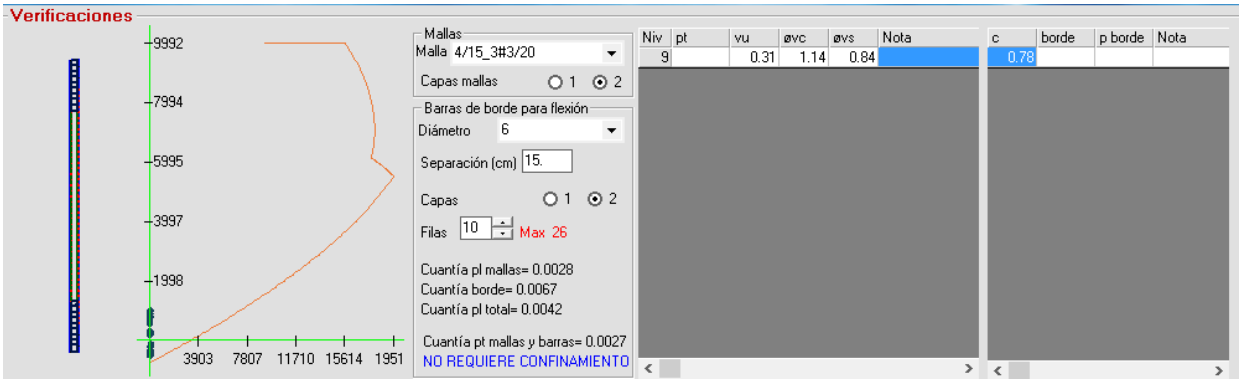
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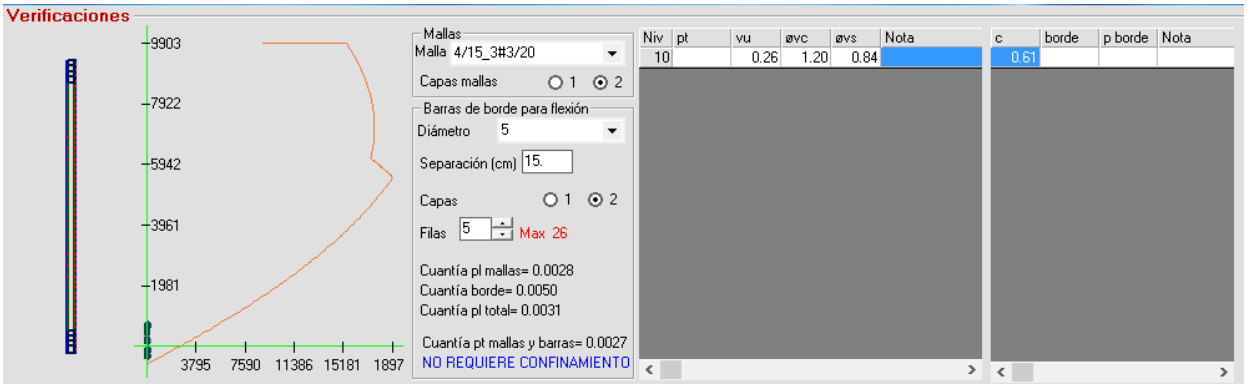
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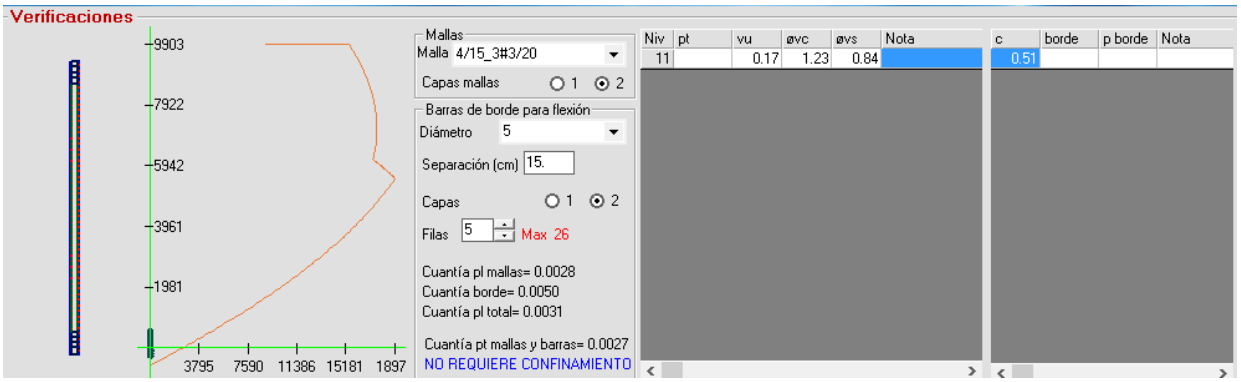
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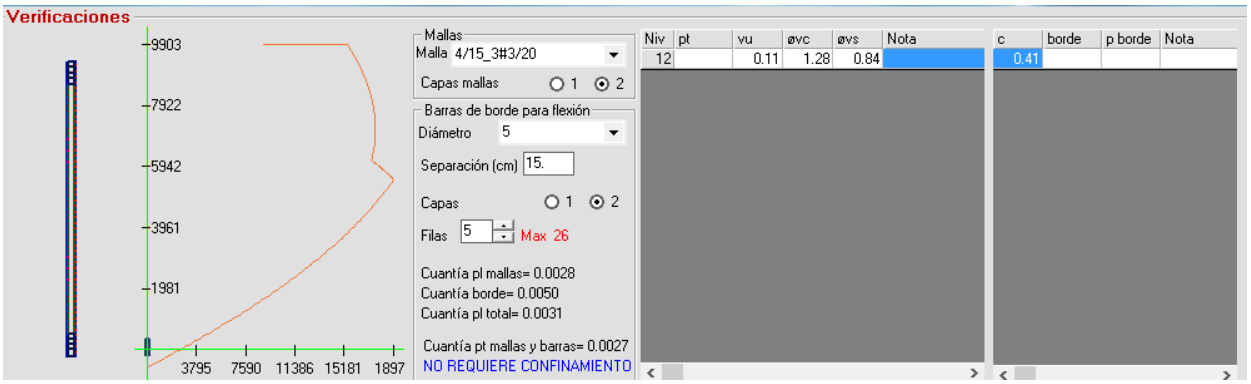
PANTALLA 7-TRAMO 10



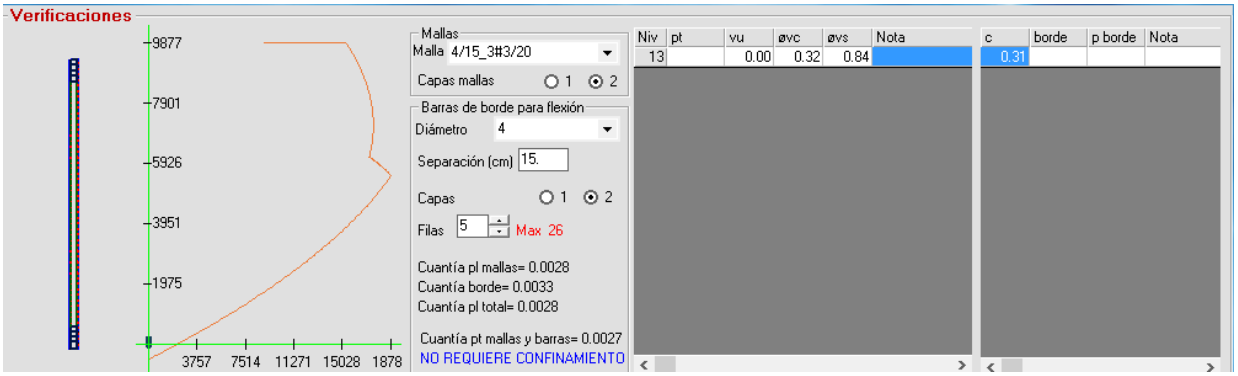
PANTALLA 7-TRAMO 11



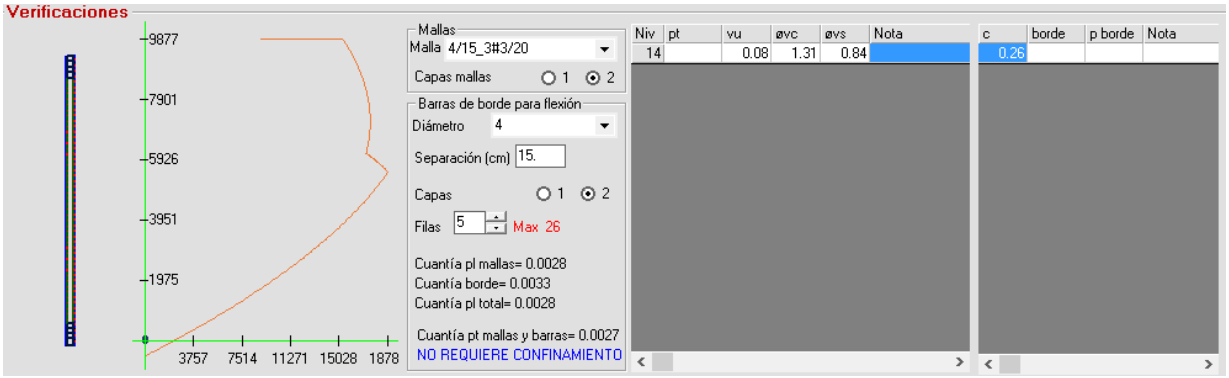
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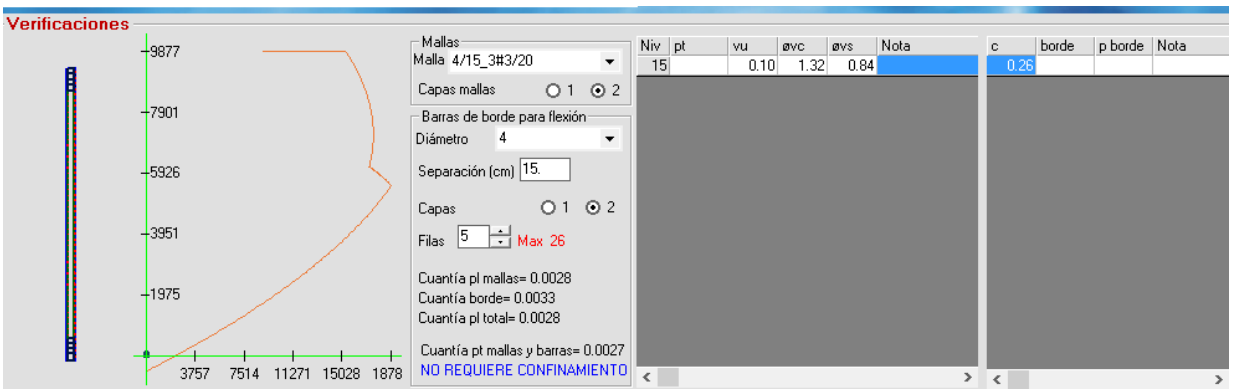
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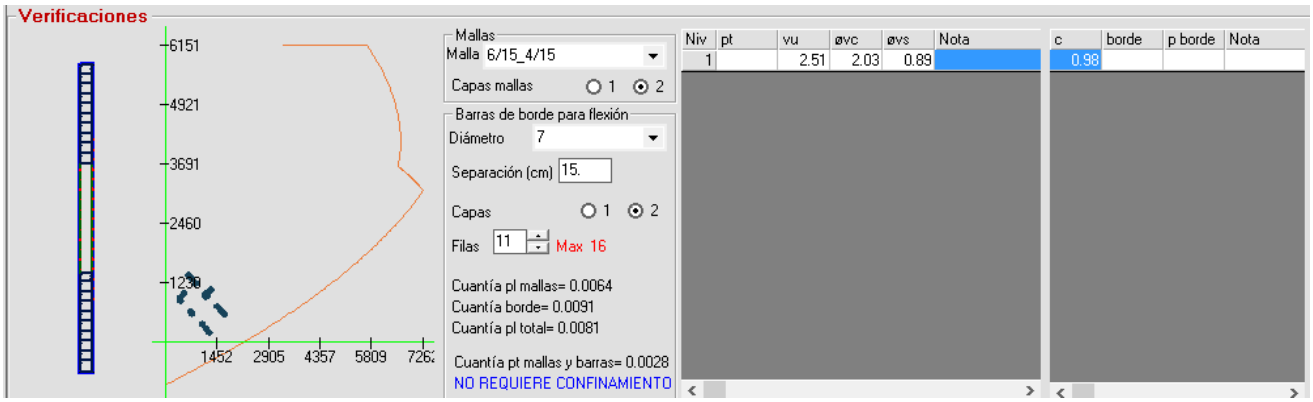
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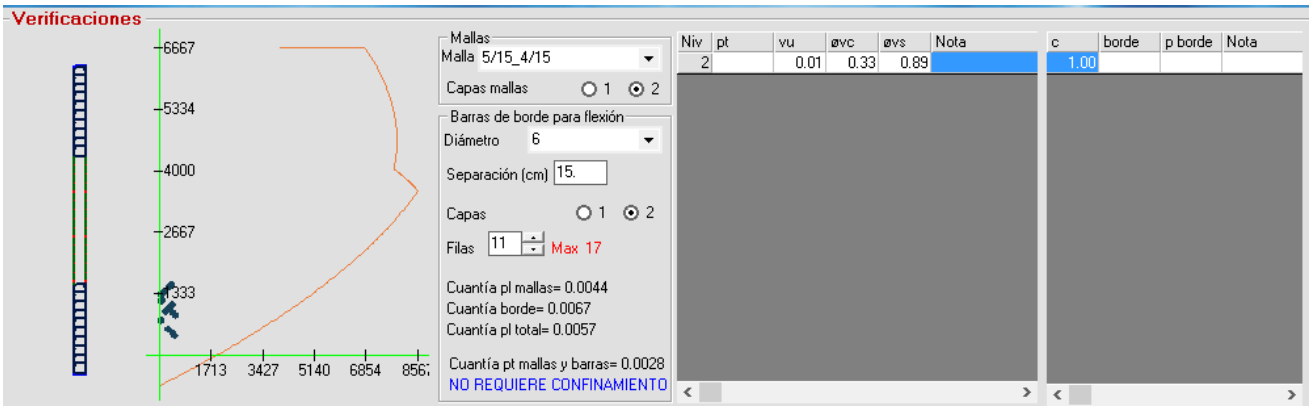
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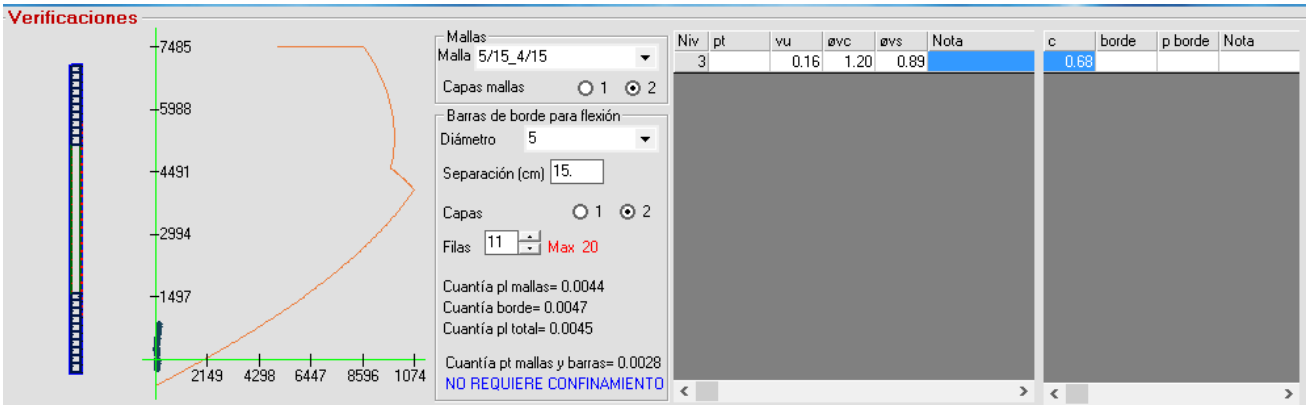
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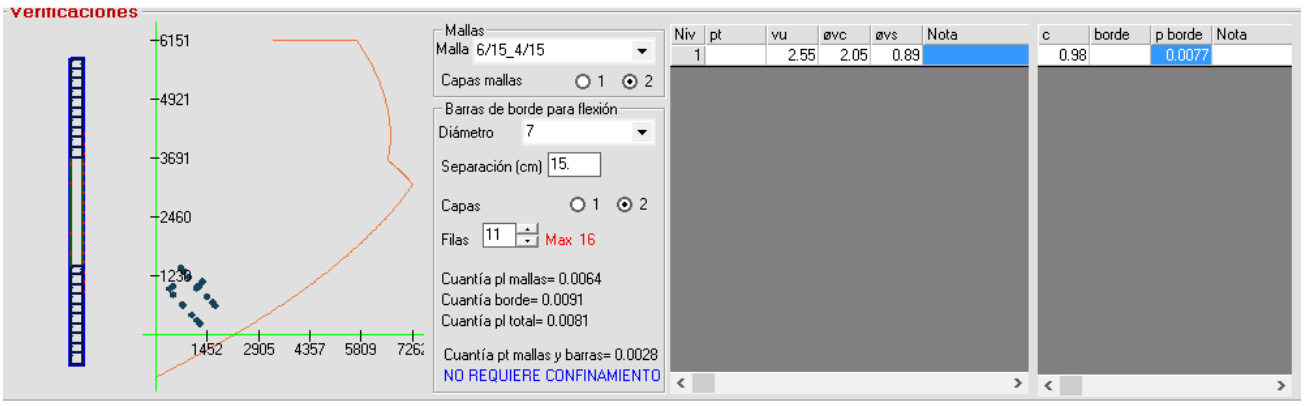
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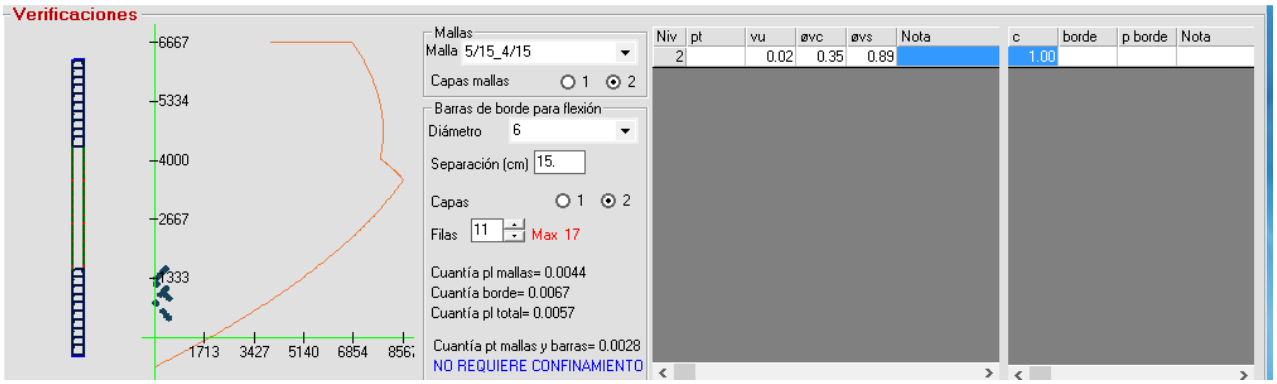
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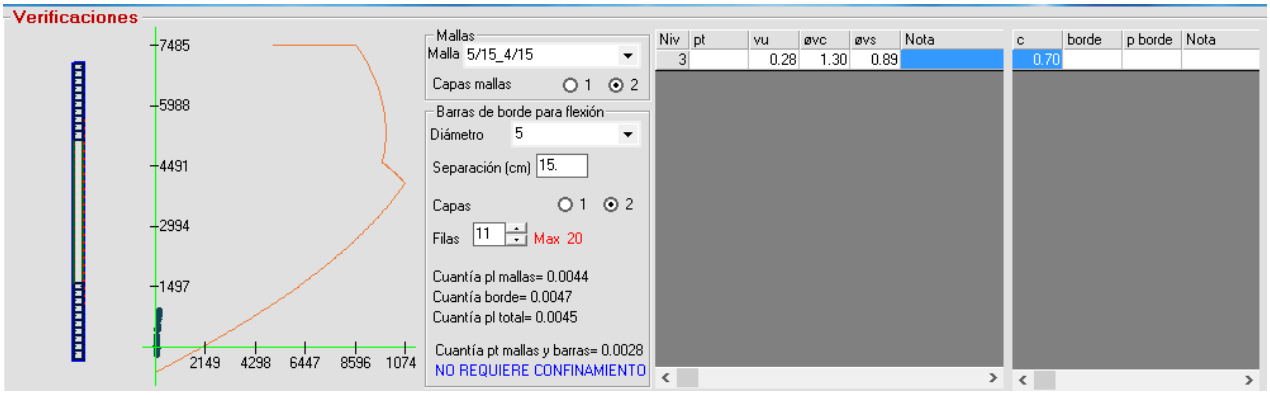
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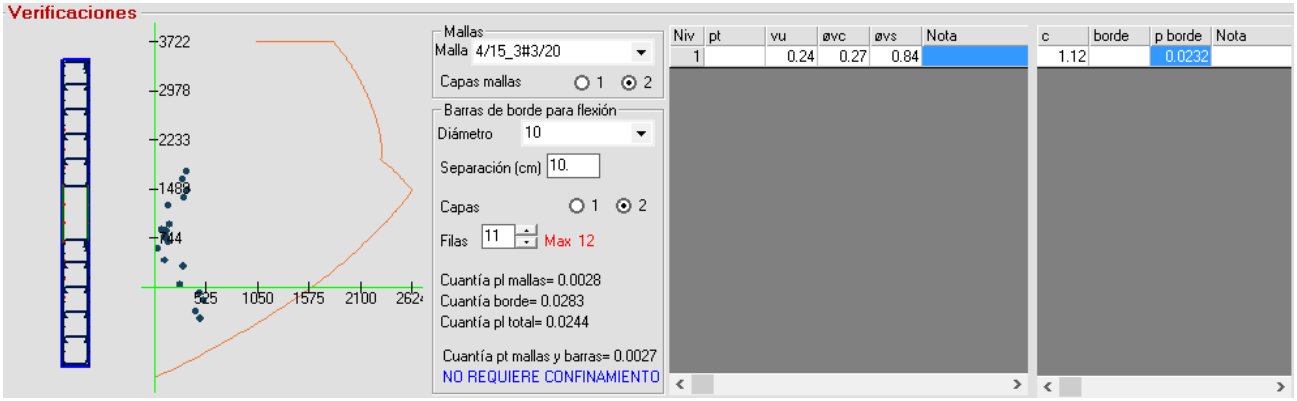
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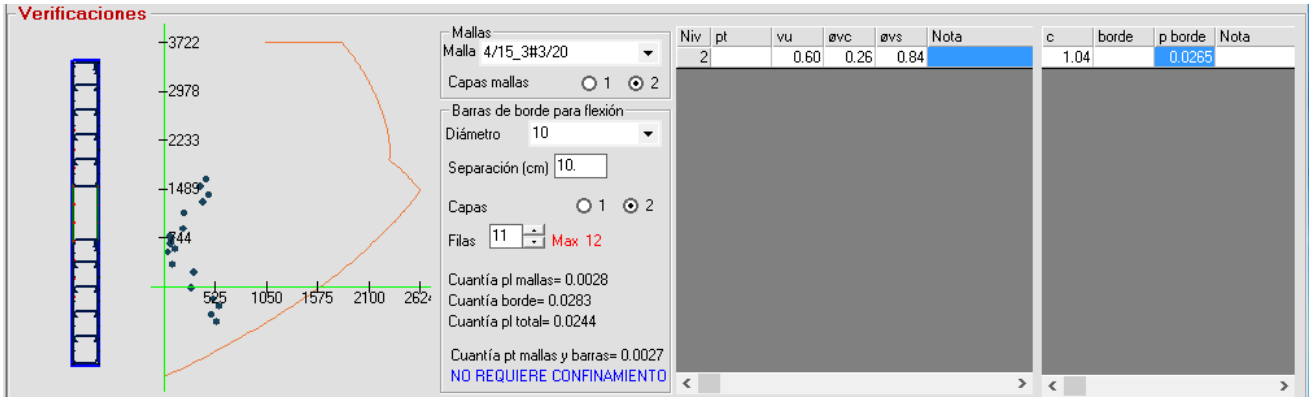
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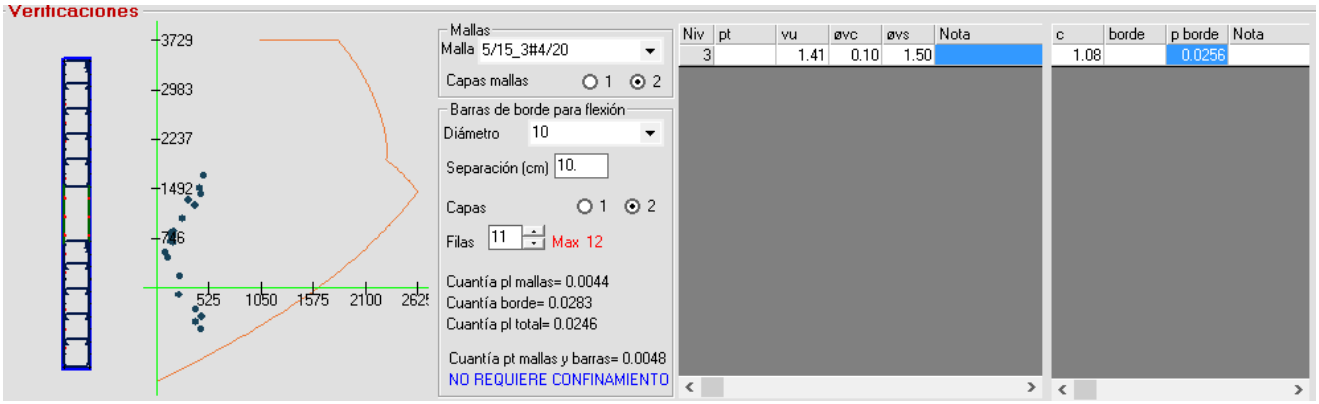
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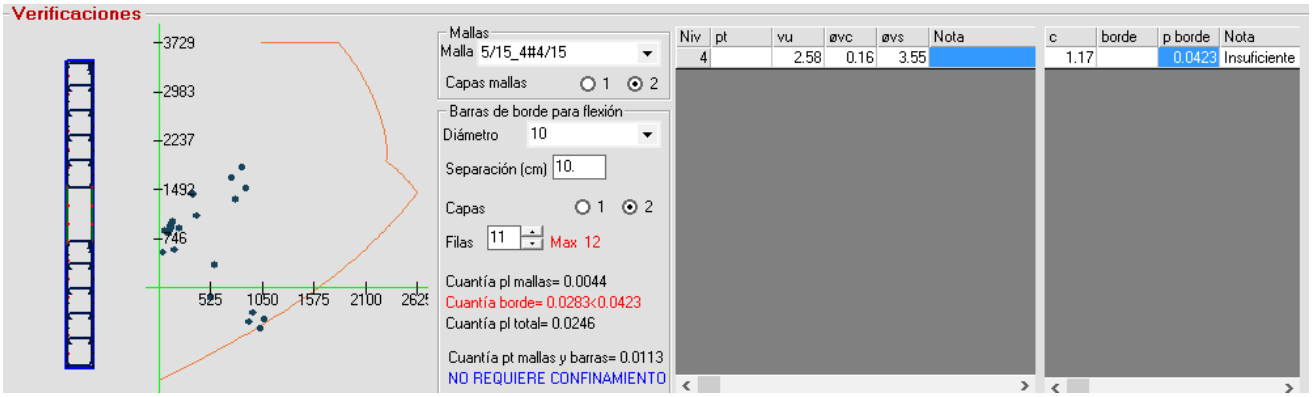
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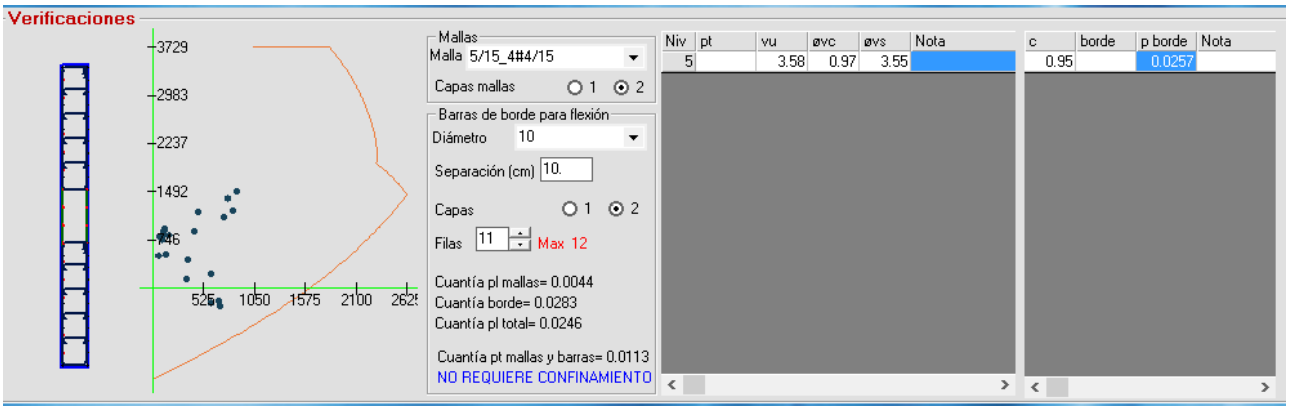
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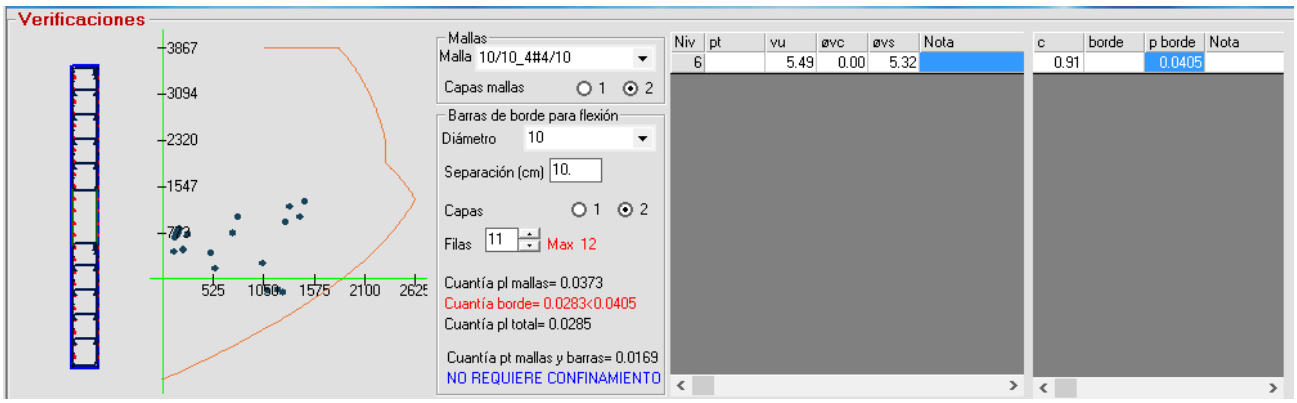
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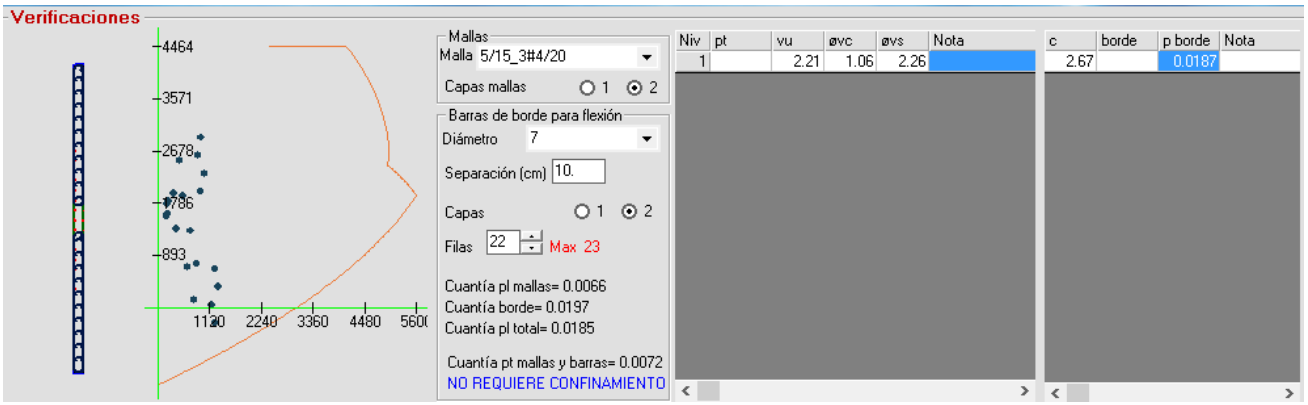
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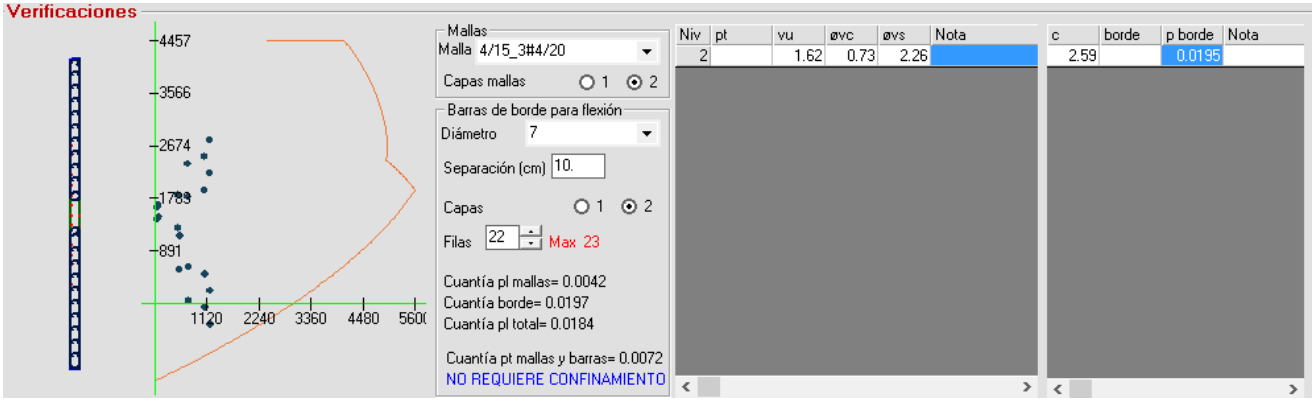
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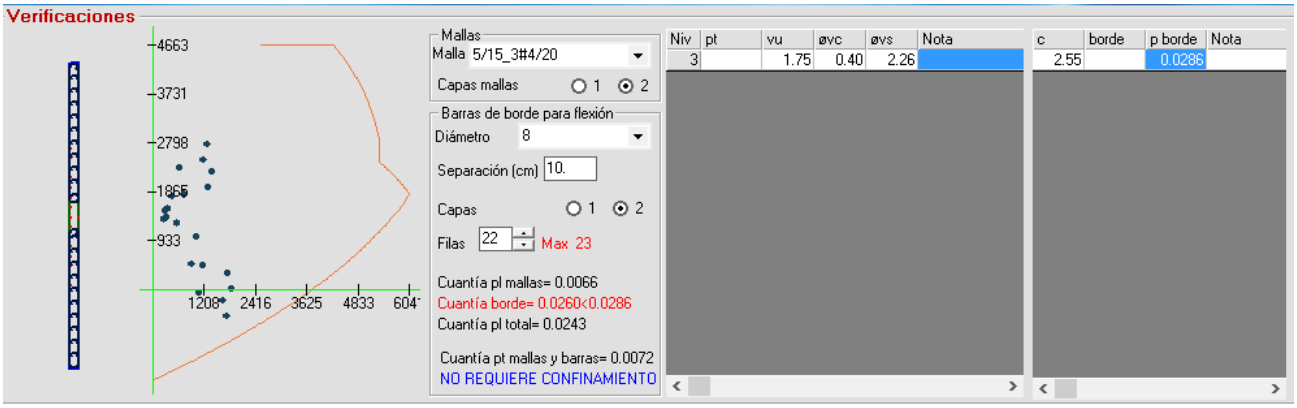
PANTALLA 14-TRAMO 1



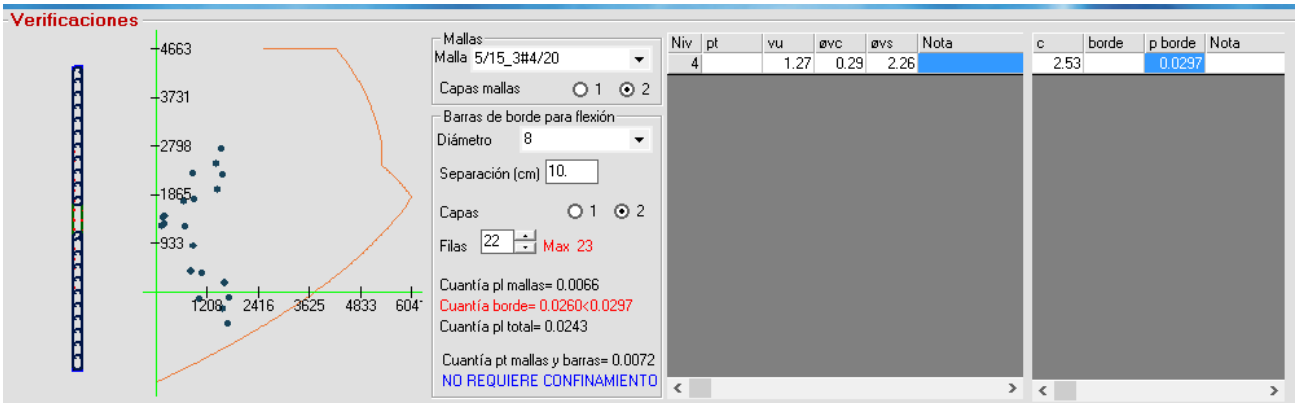
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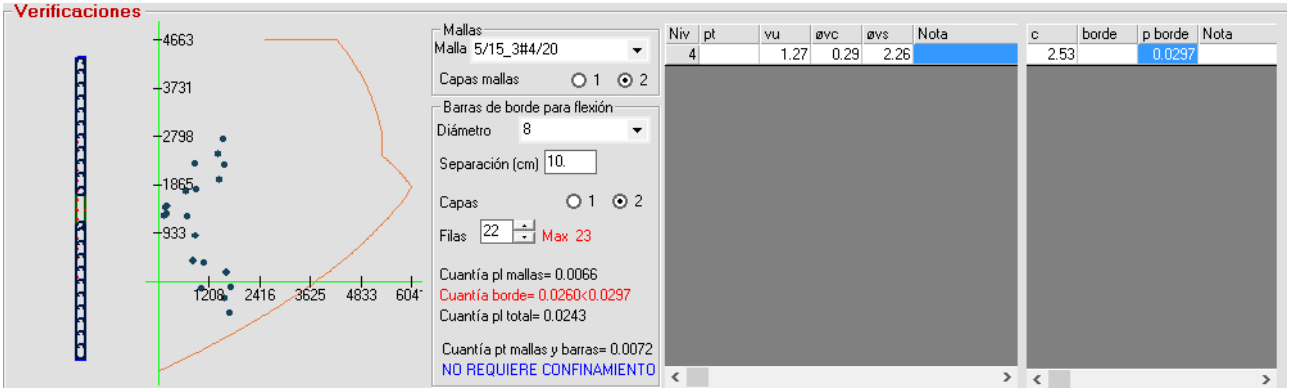
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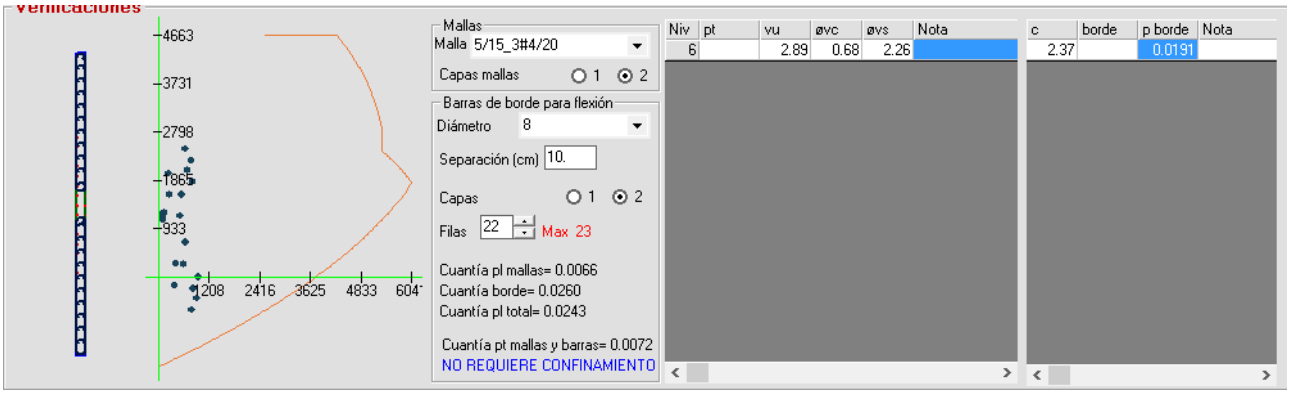
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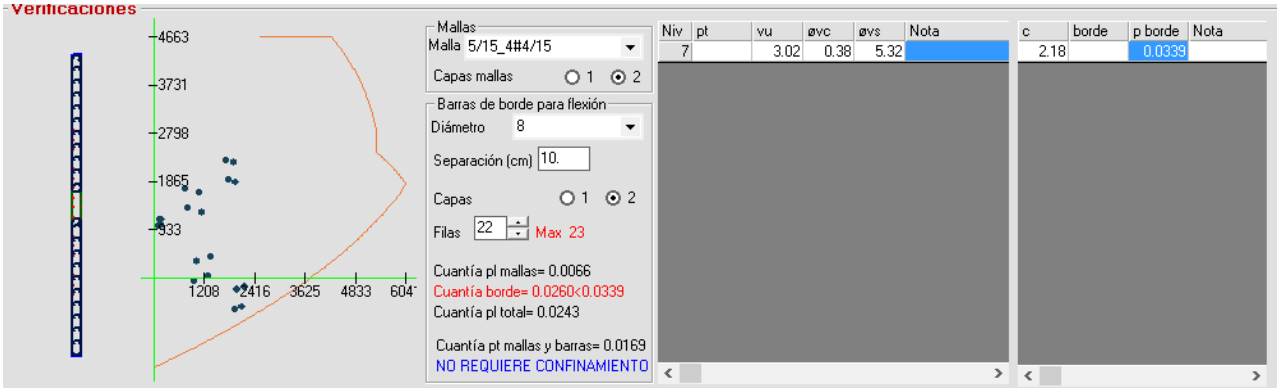
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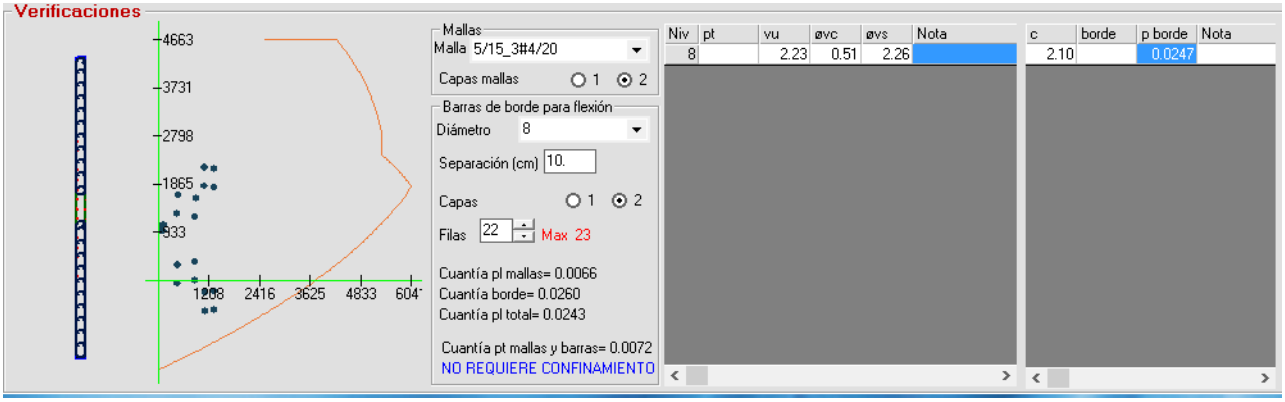
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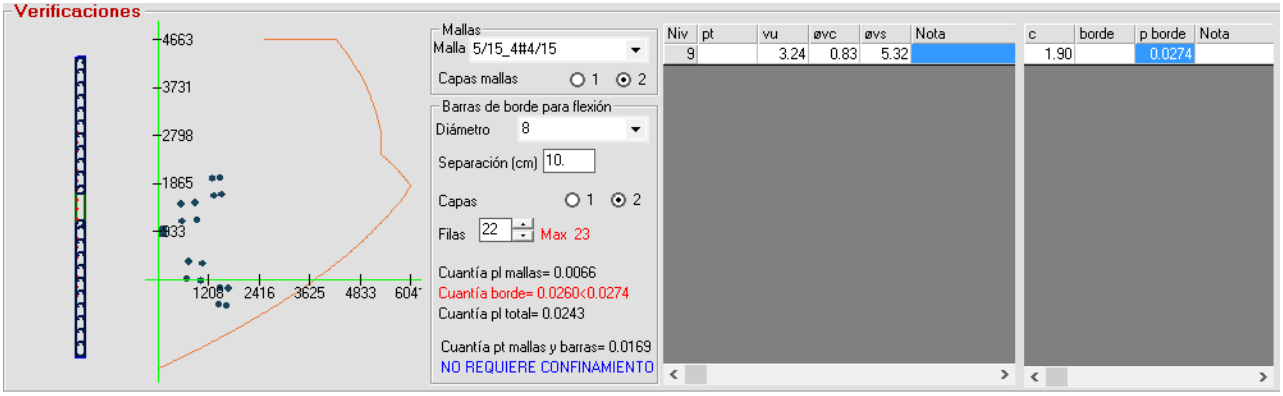
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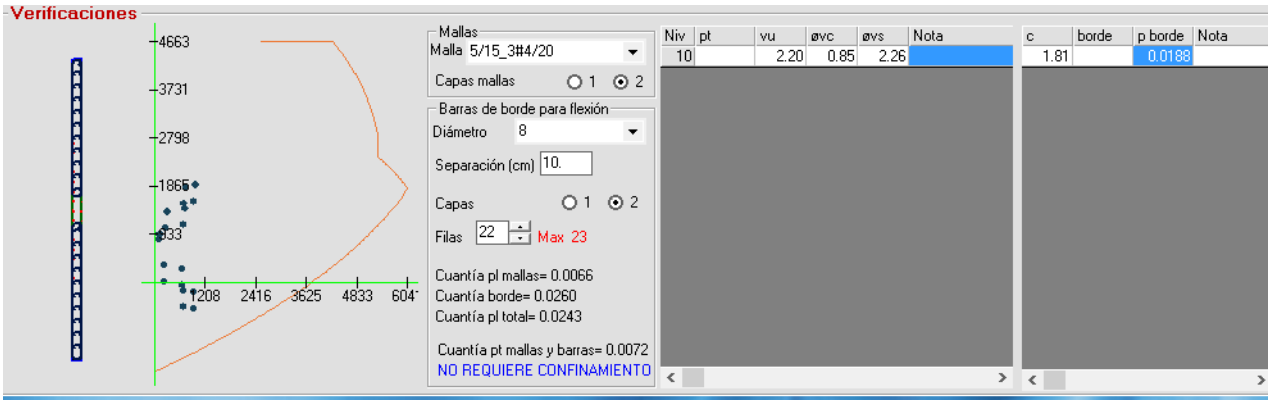
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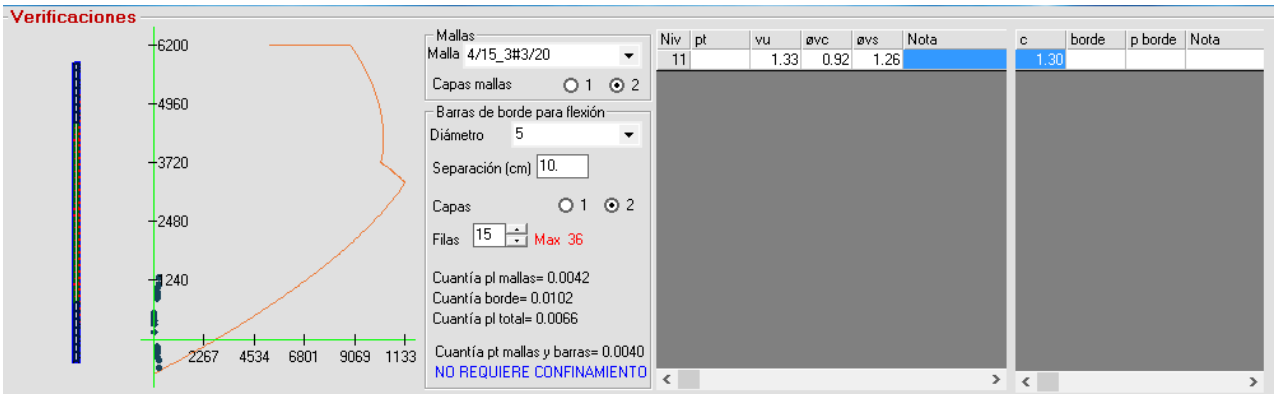
PANTALLA 14-TRAMO 9



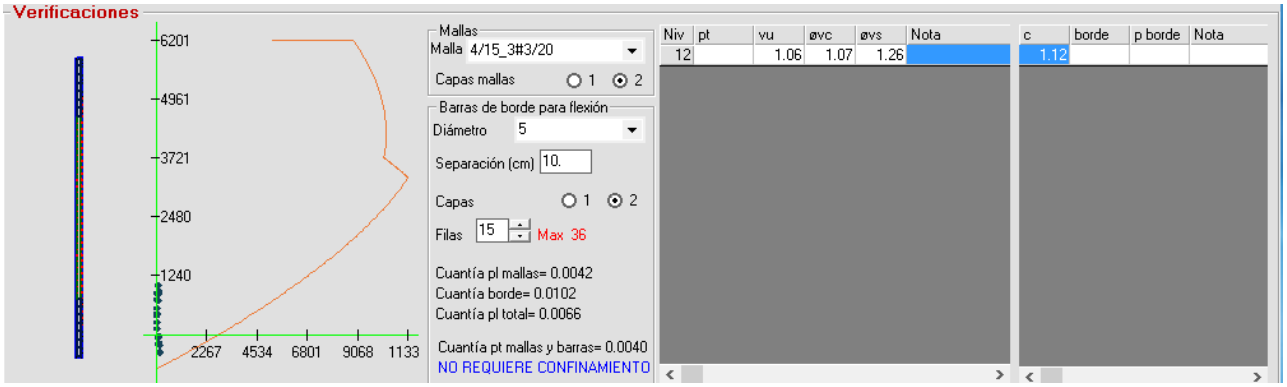
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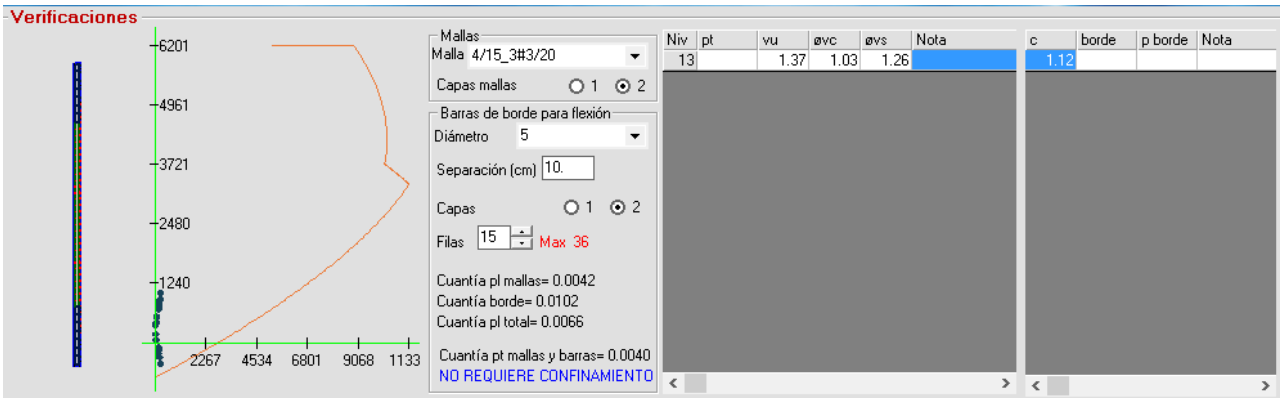
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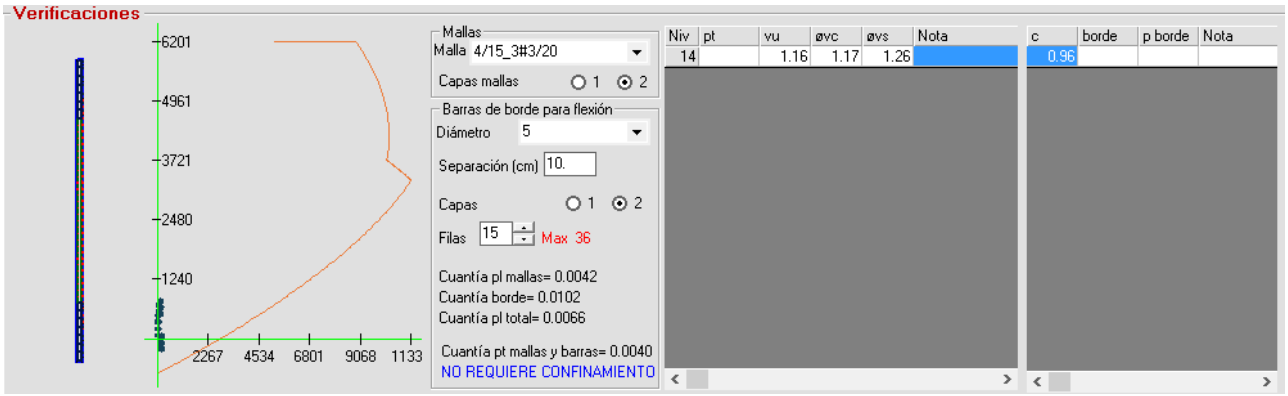
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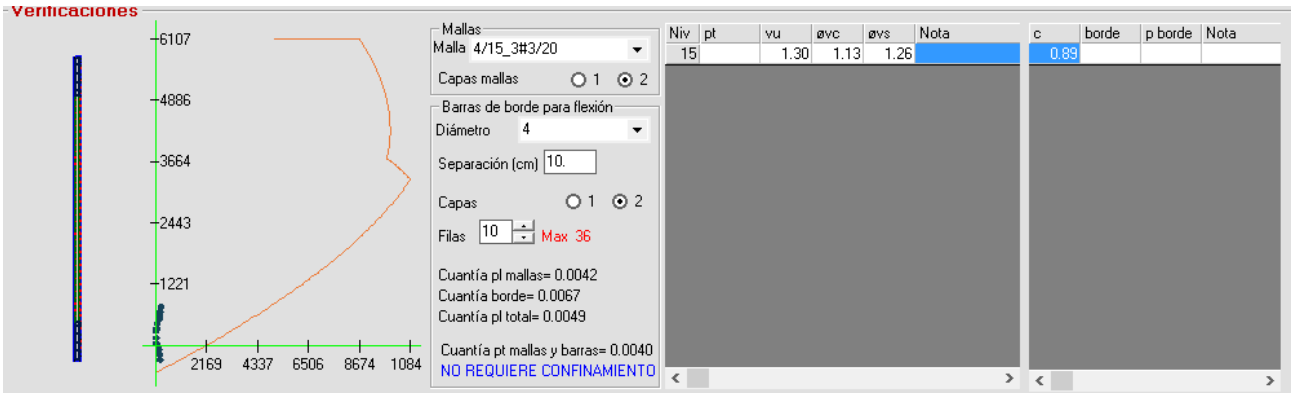
PANTALLA 14-TRAMO 13



PANTALLA 14-TRAMO 14

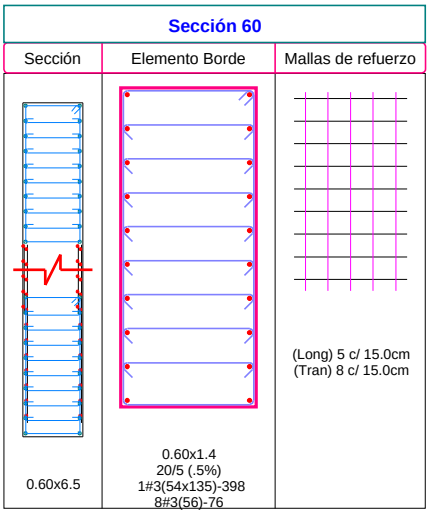


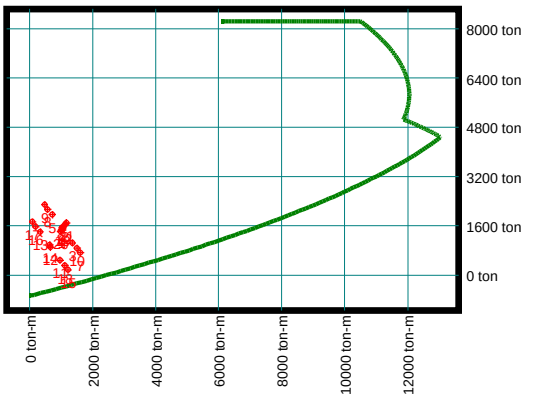
PANTALLA 14-TRAMO 15



Pantalla P1 (Vanos 1 a 1) F'c= 49Mpa

Cortante de Diseño =1183.0 ton En el vano 1 Combinación 5 [vu=3.79Mpa Øvc=2.26Mpa Øvs=3.57Mpa]
Esfuerzo flexión=7.14Mpa En el vano 1 Combinación 21 [Momento =1177.0 ton-m Axial =1698.0 ton C=1.10m]

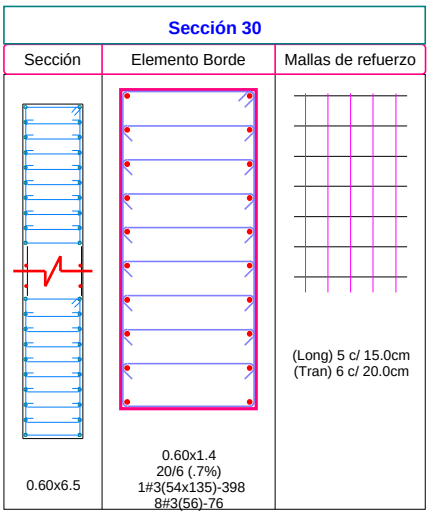


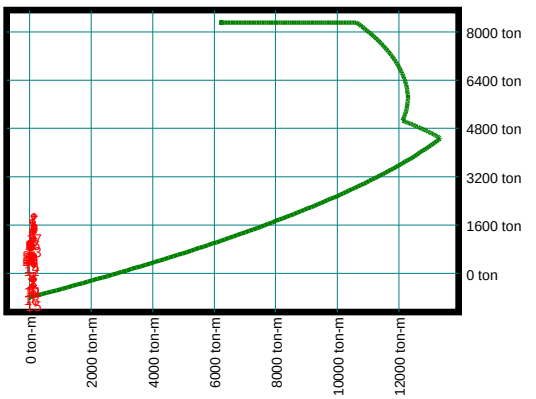


N	Mu	Pu	C
1	1021.0	1473.0	1.0
2	1147.0	1655.0	1.1
3	1363.0	1049.0	0.8
4	1054.0	1471.0	1.0
5	727.1	1967.0	1.2
6	1036.0	1545.0	1.0
7	1610.0	728.9	0.7
8	578.3	2138.0	1.3
9	480.4	2287.0	1.4
10	1512.0	877.6	0.7
11	974.5	488.0	0.5
12	665.5	910.2	0.7
13	338.8	1406.0	1.0
14	647.7	984.2	0.8
15	1221.0	168.2	0.4

Pantalla P1 (Vanos 2 a 2) F'c= 49Mpa

Cortante de Diseño =73.9 ton En el vano 2 Combinación 15 [vu=0.24Mpa Øvc=0.99Mpa Øvs=1.49Mpa]
Esfuerzo flexión=5.16Mpa En el vano 2 Combinación 9 [Momento =144.4 ton-m Axial =1878.0 ton C=1.21m]

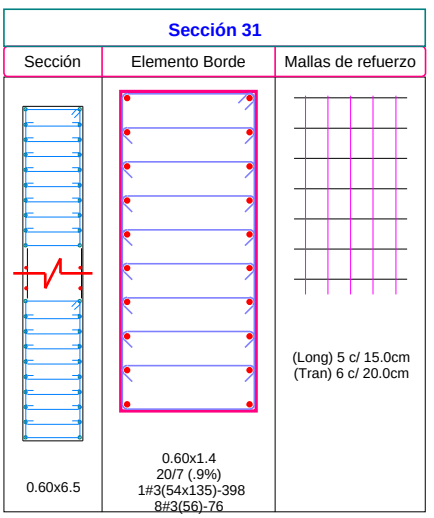


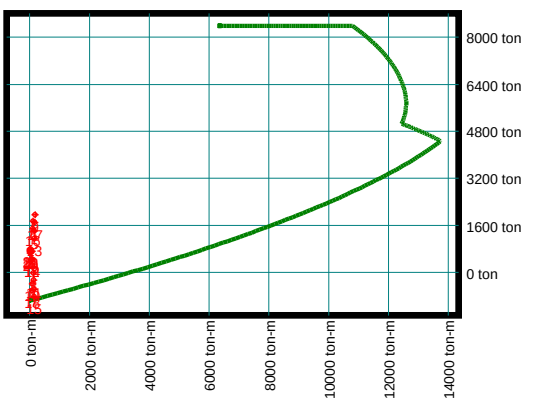


N	Mu	Pu	C
1	9.3	858.7	0.7
2	12.3	961.8	0.8
3	119.7	292.2	0.5
4	73.0	835.5	0.7
5	130.8	1462.0	1.0
6	66.4	918.8	0.8
7	123.1	-404.2	0.2
8	91.7	1690.0	1.1
9	144.4	1878.0	1.2
10	70.4	-192.6	0.3
11	118.7	-207.0	0.3
12	71.9	510.4	0.6
13	126.1	1137.0	0.9
14	63.8	593.7	0.6
15	127.8	-666.9	0.0

Pantalla P1 (Vanos 3 a 3) F'c= 49Mpa

Cortante de Diseño =105.1 ton En el vano 3 Combinación 15 [vu=0.34Mpa Øvc=0.92Mpa Øvs=1.49Mpa]
Esfuerzo flexión=5.45Mpa En el vano 3 Combinación 9 [Momento =176.7 ton-m Axial =1962.0 ton C=1.25m]

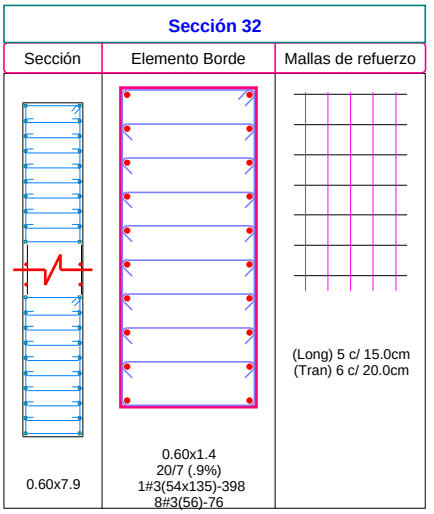


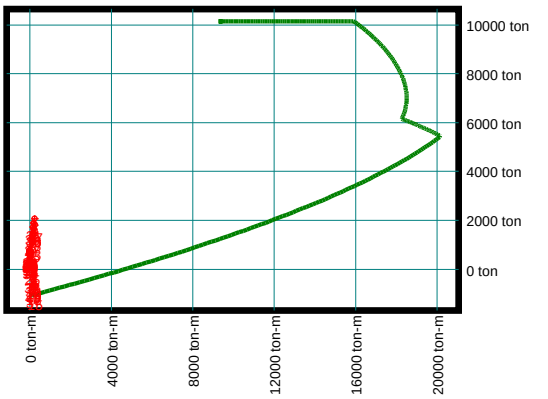


N	Mu	Pu	C
1	16.7	697.5	0.7
2	20.5	770.4	0.7
3	131.7	-14.7	0.4
4	54.9	690.9	0.7
5	163.4	1409.0	1.0
6	86.6	720.4	0.7
7	145.0	-567.7	0.1
8	111.3	1747.0	1.2
9	176.7	1962.0	1.3
10	79.6	-392.3	0.2
11	138.4	-254.6	0.3
12	61.7	433.6	0.6
13	156.6	1151.0	0.9
14	79.8	463.1	0.6
15	151.8	-807.7	0.0

Pantalla P1 (Vanos 4 a 5) F'c= 49Mpa

Cortante de Diseño =233.6 ton En el vano 4 Combinación 15 [vu=0.62Mpa Øvc=0.94Mpa Øvs=1.49Mpa]
Esfuerzo flexión=4.74Mpa En el vano 4 Combinación 9 [Momento =244.9 ton-m Axial =2061.0 ton C=1.35m]

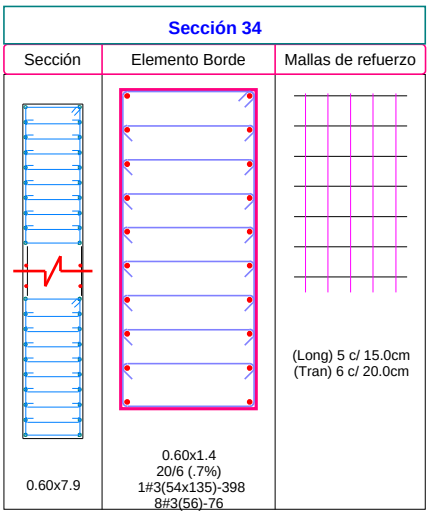


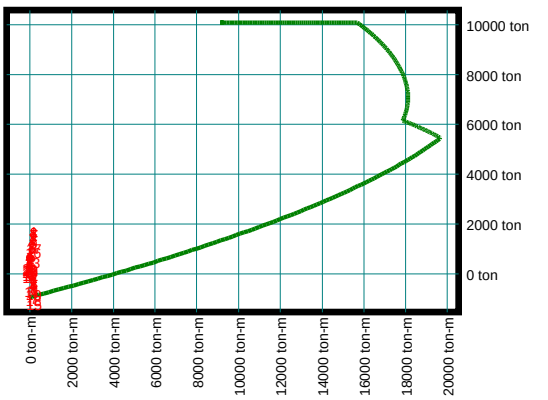


N	Mu	Pu	C
1	3.5	675.7	0.8
2	3.4	749.7	0.8
3	157.9	56.2	0.5
4	25.1	753.0	0.8
5	151.5	1385.0	1.1
6	19.3	618.4	0.7
7	251.4	-689.2	0.2
8	192.0	1871.0	1.3
9	244.9	2061.0	1.4
10	198.5	-499.7	0.2
11	157.0	-265.4	0.3
12	24.1	501.7	0.7
13	152.4	1134.0	1.0
14	19.6	367.1	0.6
15	250.4	-940.5	0.0

Pantalla P1 (Vanos 6 a 6) F'c= 49Mpa

Cortante de Diseño =283.8 ton En el vano 6 Combinación 15 [vu=0.75Mpa Øvc=1.03Mpa Øvs=1.49Mpa]
Esfuerzo flexión=3.94Mpa En el vano 6 Combinación 9 [Momento =189.7 ton-m Axial =1722.0 ton C=1.20m]

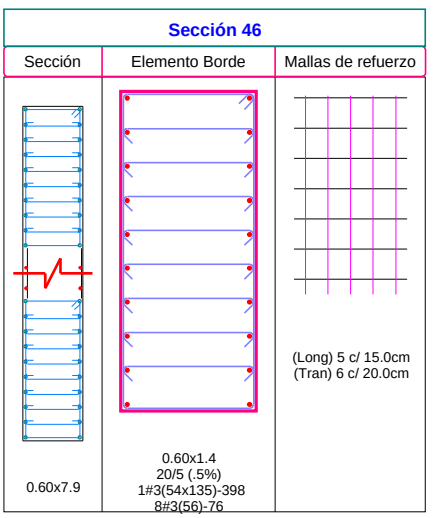


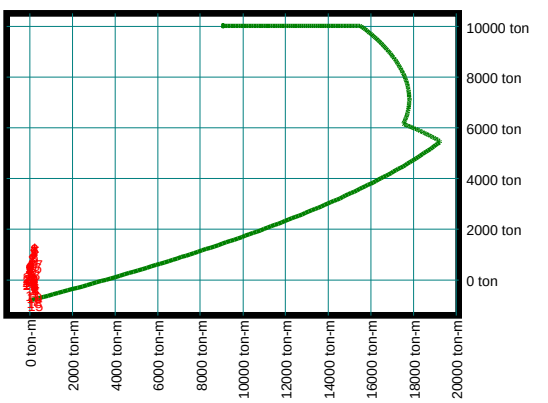


N	Mu	Pu	C
1	3.3	604.5	0.7
2	3.0	676.1	0.7
3	110.0	110.5	0.5
4	6.8	661.6	0.7
5	104.2	1187.0	1.0
6	5.0	572.2	0.7
7	195.6	-488.6	0.2
8	157.2	1565.0	1.1
9	189.7	1722.0	1.2
10	163.1	-331.1	0.3
11	109.2	-181.9	0.3
12	6.5	433.3	0.6
13	105.0	959.1	0.9
14	5.3	358.3	0.6
15	194.8	-716.9	0.1

Pantalla P1 (Vanos 7 a 7) F'c= 49Mpa

Cortante de Diseño =291.1 ton En el vano 7 Combinación 15 [vu=0.77Mpa Øvc=1.12Mpa Øvs=1.49Mpa]
Esfuerzo flexión=3.08Mpa En el vano 7 Combinación 9 [Momento =231.4 ton-m Axial =1285.0 ton C=0.98m]

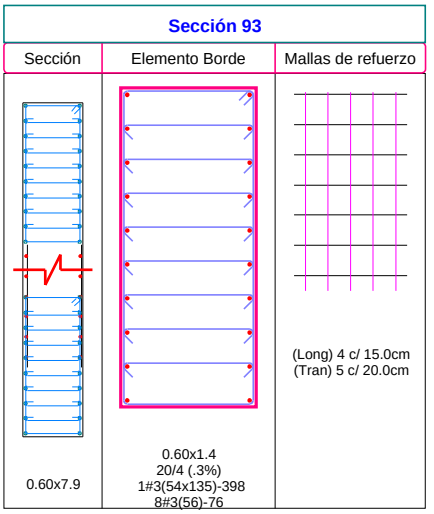


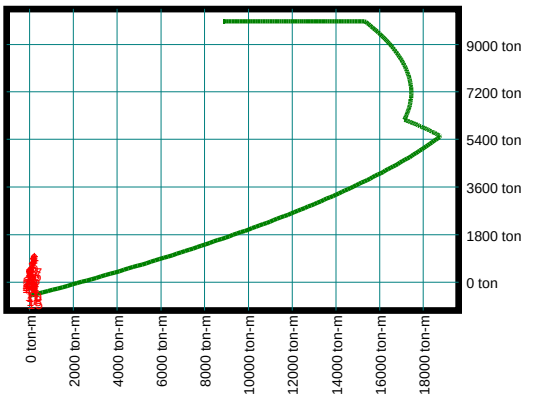


N	Mu	Pu	C
1	14.3	475.6	0.6
2	14.4	539.2	0.6
3	150.3	141.9	0.4
4	16.0	520.8	0.6
5	123.1	901.0	0.8
6	11.2	476.5	0.6
7	258.6	-304.8	0.2
8	189.7	1171.0	0.9
9	231.4	1285.0	1.0
10	216.9	-190.9	0.3
11	145.9	-105.4	0.3
12	11.6	336.7	0.5
13	127.6	716.9	0.7
14	6.7	302.4	0.5
15	254.1	-488.9	0.1

Pantalla P1 (Vanos 8 a 8) F'c= 49Mpa

Cortante de Diseño =243.1 ton En el vano 8 Combinación 15 [vu=0.64Mpa Øvc=1.18Mpa Øvs=1.04Mpa]
Esfuerzo flexión=2.39Mpa En el vano 8 Combinación 9 [Momento =218.9 ton-m Axial =966.5 ton C=0.71m]

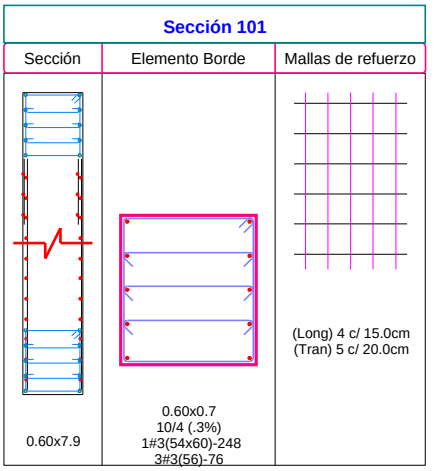


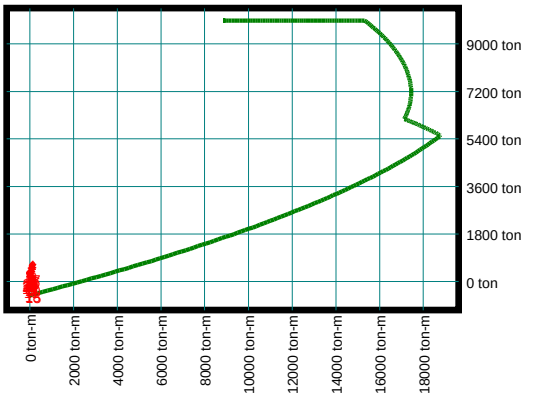


N	Mu	Pu	C
1	14.1	381.9	0.4
2	13.9	439.6	0.5
3	143.4	154.6	0.3
4	16.3	415.0	0.4
5	116.9	695.8	0.6
6	10.2	389.7	0.4
7	245.4	-171.4	0.2
8	179.0	882.3	0.7
9	218.9	966.5	0.7
10	205.5	-87.3	0.2
11	139.2	-52.7	0.2
12	12.1	263.0	0.4
13	121.1	543.8	0.5
14	7.0	245.5	0.4
15	241.2	-323.4	0.1

Pantalla P1 (Vanos 9 a 9) F'c= 49Mpa

Cortante de Diseño =204.2 ton En el vano 9 Combinación 15 [vu=0.54Mpa Øvc=1.25Mpa Øvs=1.04Mpa]
Esfuerzo flexión=1.61Mpa En el vano 9 Combinación 9 [Momento =136.8 ton-m Axial =657.3 ton C=0.56m]

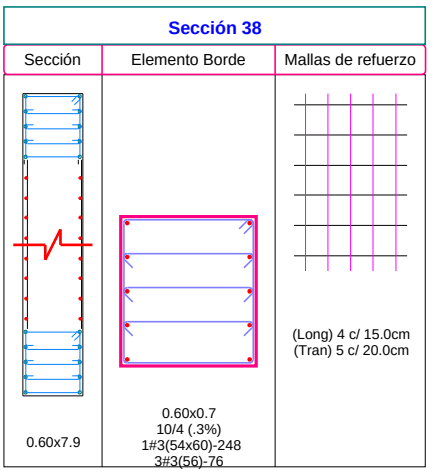


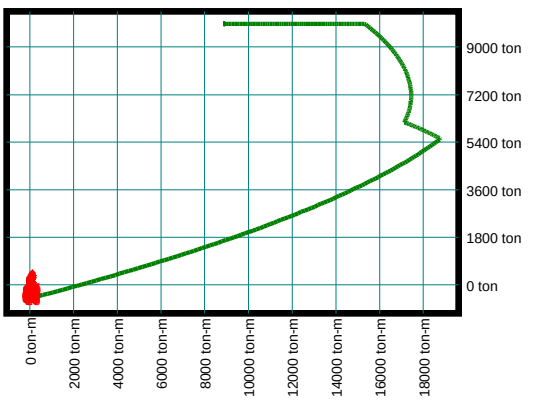


N	Mu	Pu	C
1	14.0	298.0	0.4
2	13.3	349.5	0.4
3	94.3	161.1	0.3
4	11.9	313.5	0.4
5	68.6	503.5	0.5
6	13.8	319.9	0.4
7	162.5	77.7	0.3
8	112.6	600.4	0.5
9	136.8	657.3	0.6
10	138.3	125.3	0.3
11	90.5	44.5	0.3
12	8.1	190.8	0.3
13	72.5	380.8	0.4
14	10.0	203.4	0.3
15	158.6	-151.5	0.2

Pantalla P1 (Vanos 10 a 12) F'c= 49Mpa

Cortante de Diseño =160.6 ton En el vano 11 Combinación 15 [vu=0.42Mpa Øvc=1.28Mpa Øvs=1.04Mpa]
Esfuerzo flexión=1.15Mpa En el vano 10 Combinación 9 [Momento =121.0 ton-m Axial =452.6 ton C=0.46m]





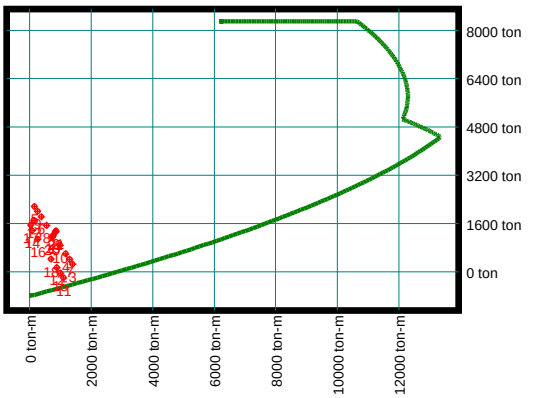
N	Mu	Pu	C
1	13.5	218.4	0.4
2	11.3	267.1	0.4
3	85.0	133.1	0.3
4	12.4	221.1	0.4
5	62.2	368.6	0.4
6	10.4	261.5	0.4
7	143.8	85.7	0.3
8	98.7	408.4	0.4
9	121.0	452.6	0.5
10	121.4	124.2	0.3
11	82.3	36.7	0.3
12	9.7	124.1	0.3
13	64.9	271.6	0.4
14	7.7	165.0	0.3
15	141.1	-75.9	0.2

Pantalla P2 (Vanos 1 a 1) F'c= 49Mpa

Cortante de Diseño =992.3 ton En el vano 1 Combinación 5 [vu=3.18Mpa Øvc=2.35Mpa Øvs=3.57Mpa]
Esfuerzo flexión=5.90Mpa En el vano 1 Combinación 5 [Momento =154.7 ton-m Axial =2160.0 ton C=1.34m]

Sección 61

Sección	Elemento Borde	Mallas de refuerzo
0.60x6.5	0.60x1.4 20/6 (.7%) 1#3(54x135)-398 8#3(56)-76	(Long) 5 c/ 15.0cm (Tran) 8 c/ 15.0cm



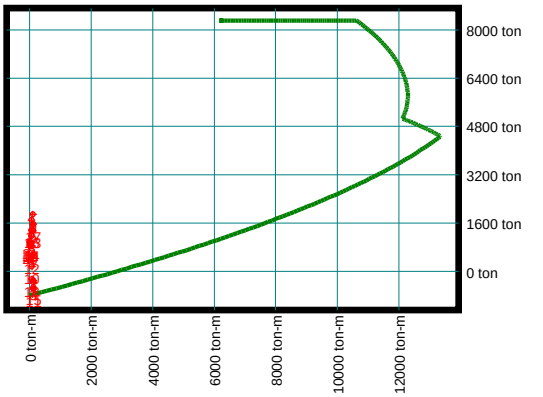
N	Mu	Pu	C
1	754.1	1171.0	0.9
2	857.2	1332.0	1.0
3	1402.0	257.7	0.5
4	1179.0	595.3	0.6
5	154.7	2160.0	1.3
6	377.1	1822.0	1.2
7	1303.0	410.9	0.5
8	560.4	1538.0	1.0
9	253.5	2007.0	1.3
10	995.8	879.7	0.7
11	1108.0	-198.2	0.3
12	885.8	139.5	0.4
13	138.7	1704.0	1.1
14	83.7	1367.0	1.0
15	1009.0	-44.9	0.3

Pantalla P2 (Vanos 2 a 2) F'c= 49Mpa

Cortante de Diseño =65.9 ton En el vano 2 Combinación 15 [vu=0.21Mpa Øvc=1.06Mpa Øvs=1.49Mpa]
Esfuerzo flexión=5.07Mpa En el vano 2 Combinación 9 [Momento =106.7 ton-m Axial =1878.0 ton C=1.21m]

Sección 30

Sección	Elemento Borde	Mallas de refuerzo
0.60x6.5	0.60x1.4 20/6 (.7%) 1#3(54x135)-398 8#3(56)-76	(Long) 5 c/ 15.0cm (Tran) 6 c/ 20.0cm



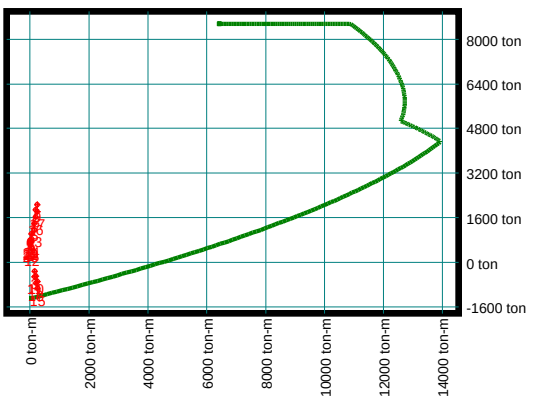
N	Mu	Pu	C
1	8.1	858.7	0.7
2	9.8	961.8	0.8
3	119.7	-369.1	0.2
4	73.0	835.5	0.7
5	109.5	1565.0	1.1
6	62.8	1159.0	0.9
7	124.1	-308.3	0.2
8	58.7	1690.0	1.1
9	106.7	1878.0	1.2
10	76.2	149.5	0.4
11	118.7	-591.6	0.1
12	71.9	510.4	0.6
13	110.6	1342.0	1.0
14	63.8	936.5	0.8
15	120.6	-530.8	0.1

Pantalla P2 (Vanos 3 a 3) F'c= 49Mpa

Cortante de Diseño =233.6 ton En el vano 3 Combinación 15 [vu=0.75Mpa Øvc=0.86Mpa Øvs=0.68Mpa]
Esfuerzo flexión=5.86Mpa En el vano 3 Combinación 9 [Momento =244.9 ton-m Axial =2061.0 ton C=1.44m]

Sección 74

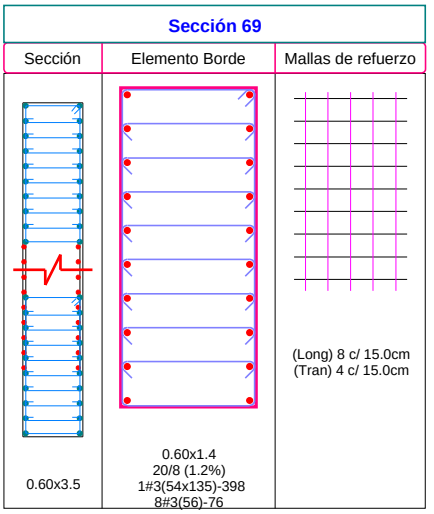
Sección	Elemento Borde	Mallas de refuerzo
0.60x6.5	0.60x1.4 20/7 (.9%) 1#3(54x135)-398 8#3(56)-76	(Long) 7 c/ 15.0cm (Tran) 4 c/ 20.0cm

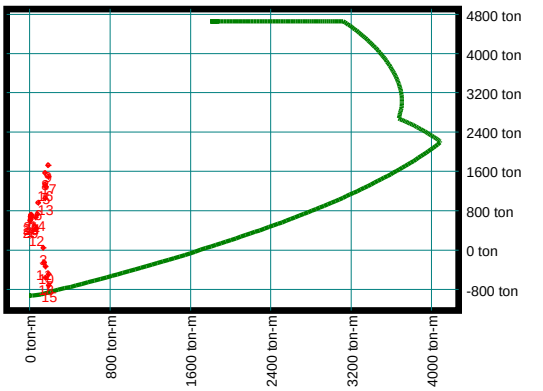


N	Mu	Pu	C
1	3.5	675.7	0.8
2	3.4	749.7	0.9
3	157.9	-331.4	0.4
4	48.2	753.0	0.9
5	151.5	1385.0	1.1
6	54.2	1014.0	1.0
7	251.4	-689.2	0.3
8	192.0	1871.0	1.4
9	244.9	2061.0	1.4
10	198.5	-499.7	0.3
11	157.0	-516.5	0.3
12	49.1	501.7	0.8
13	152.4	1156.0	1.0
14	53.2	829.1	0.9
15	250.4	-940.5	0.1

Pantalla P2 (Vanos 4 a 4) F'c= 49Mpa

Cortante de Diseño =216.8 ton En el vano 4 Combinación 15 [vu=1.31Mpa Øvc=0.66Mpa Øvs=0.90Mpa]
Esfuerzo flexión=9.91Mpa En el vano 4 Combinación 9 [Momento =189.7 ton-m Axial =1722.0 ton C=1.09m]

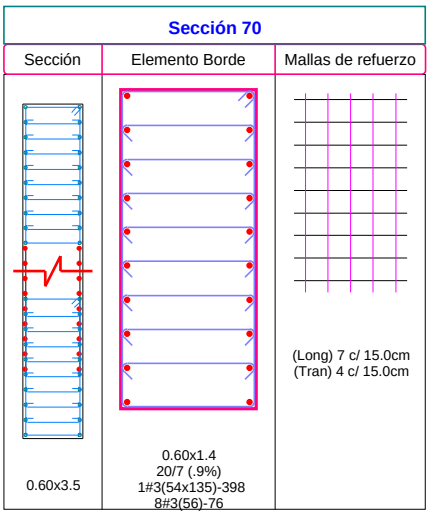


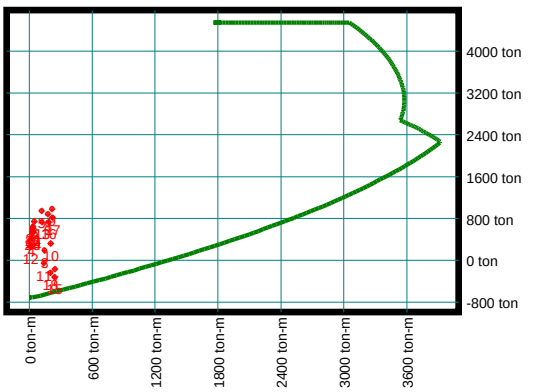


N	Mu	Pu	C
1	10.4	622.7	0.6
2	15.1	699.5	0.7
3	139.3	46.4	0.4
4	61.6	661.6	0.6
5	164.9	1290.0	0.9
6	87.2	963.8	0.8
7	195.6	-488.6	0.2
8	157.2	1565.0	1.0
9	189.7	1722.0	1.1
10	163.1	-331.1	0.2
11	145.4	-252.8	0.3
12	67.7	433.3	0.6
13	158.7	1053.0	0.8
14	81.0	726.8	0.7
15	194.8	-716.9	0.1

Pantalla P2 (Vanos 5 a 5) F'c= 49Mpa

Cortante de Diseño =243.1 ton En el vano 5 Combinación 15 [vu=1.47Mpa Øvc=1.02Mpa Øvs=0.90Mpa]
Esfuerzo flexión=6.56Mpa En el vano 5 Combinación 9 [Momento =218.9 ton-m Axial =978.2 ton C=0.73m]

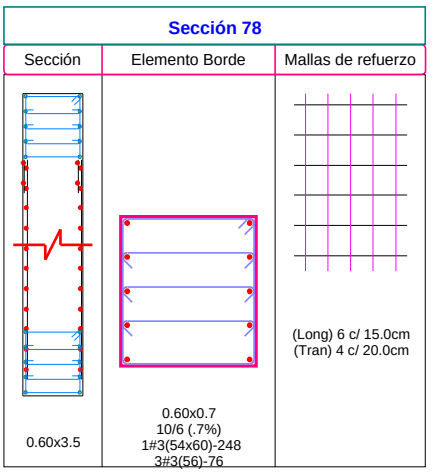


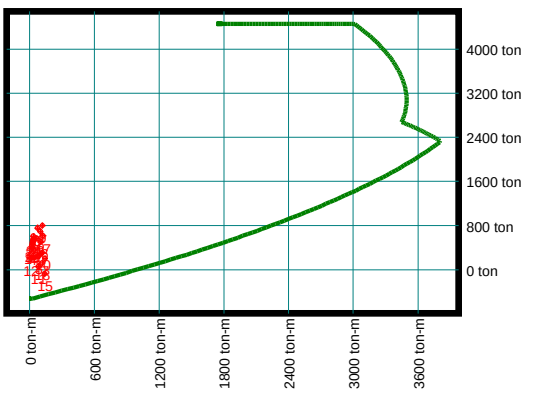


N	Mu	Pu	C
1	29.5	547.4	0.5
2	33.6	621.5	0.6
3	143.4	187.4	0.4
4	16.3	415.0	0.5
5	116.9	941.3	0.7
6	46.9	743.3	0.6
7	245.4	-171.4	0.2
8	179.0	882.3	0.7
9	218.9	978.2	0.7
10	205.5	317.1	0.4
11	139.2	-52.7	0.3
12	12.1	263.0	0.4
13	121.1	728.8	0.6
14	35.4	530.8	0.5
15	241.2	-323.4	0.2

Pantalla P2 (Vanos 6 a 6) F'c= 49Mpa

Cortante de Diseño =118.4 ton En el vano 6 Combinación 15 [vu=0.71Mpa Øvc=1.24Mpa Øvs=0.68Mpa]
Esfuerzo flexión=4.88Mpa En el vano 6 Combinación 9 [Momento =121.0 ton-m Axial =800.5 ton C=0.59m]





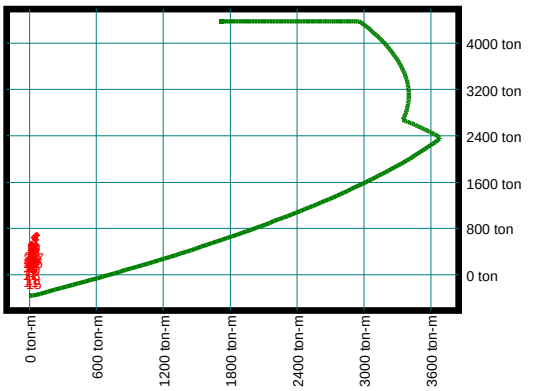
N	Mu	Pu	C
1	27.6	487.3	0.4
2	34.8	550.7	0.5
3	85.0	246.5	0.3
4	27.9	393.6	0.4
5	72.7	755.2	0.6
6	33.3	608.1	0.5
7	143.8	201.2	0.3
8	98.7	692.1	0.5
9	121.0	800.5	0.6
10	121.4	309.6	0.4
11	82.3	58.9	0.3
12	15.1	206.0	0.3
13	64.9	567.6	0.5
14	20.5	420.5	0.4
15	141.1	-75.9	0.2

Pantalla P2 (Vanos 7 a 7) F'c= 49Mpa

Cortante de Diseño =5.7 ton En el vano 7 Combinación 17 [vu=0.03Mpa Øvc=1.04Mpa Øvs=0.68Mpa]
Esfuerzo flexión=3.83Mpa En el vano 7 Combinación 9 [Momento =63.3 ton-m Axial =682.8 ton C=0.49m]

Sección 92

Sección	Elemento Borde	Mallas de refuerzo
0.60x3.5	0.60x0.7 10/5 (.5%) 1#3(54x60)-248 3#3(56)-76	(Long) 5 c/ 15.0cm (Tran) 4 c/ 20.0cm



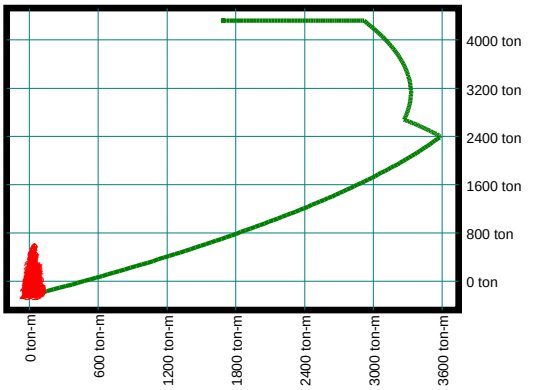
N	Mu	Pu	C
1	16.5	439.5	0.4
2	17.7	504.6	0.4
3	10.1	272.7	0.3
4	15.5	385.3	0.3
5	42.8	640.6	0.5
6	17.1	528.0	0.4
7	30.6	230.5	0.3
8	55.1	606.3	0.5
9	63.3	682.8	0.5
10	22.4	307.0	0.3
11	15.9	98.6	0.2
12	9.8	211.2	0.3
13	37.1	466.5	0.4
14	11.4	353.9	0.3
15	36.4	56.4	0.2

Pantalla P2 (Vanos 8 a 12) F'c= 49Mpa

Cortante de Diseño =.2 ton En el vano 8 Combinación 9 [vu=0.00Mpa Øvc=0.28Mpa Øvs=1.04Mpa]
Esfuerzo flexión=3.12Mpa En el vano 8 Combinación 9 [Momento =43.3 ton-m Axial =570.0 ton C=0.39m]

Sección 58

Sección	Elemento Borde	Mallas de refuerzo
0.60x3.5	0.60x0.7 10/4 (.3%) 1#3(54x60)-248 3#3(56)-76	(Long) 4 c/ 15.0cm (Tran) 5 c/ 20.0cm



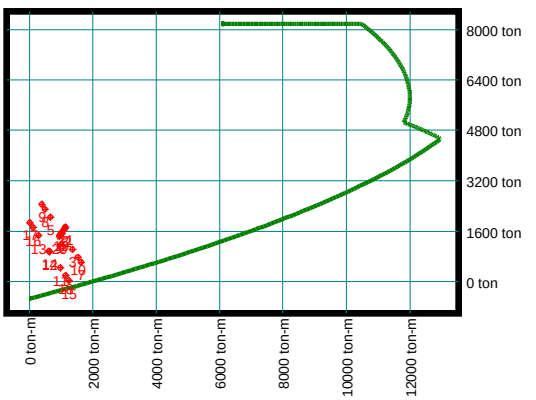
N	Mu	Pu	C
1	14.4	385.7	0.3
2	16.4	447.1	0.3
3	3.8	269.1	0.2
4	11.2	352.3	0.3
5	33.6	537.7	0.4
6	18.6	454.5	0.3
7	13.5	236.8	0.2
8	36.6	514.5	0.4
9	43.3	570.0	0.4
10	6.8	292.3	0.3
11	9.5	113.6	0.2
12	5.5	196.9	0.2
13	28.0	382.2	0.3
14	13.0	299.0	0.3
15	19.1	81.3	0.1

Pantalla P3 (Vanos 1 a 1) F'c= 49Mpa

Cortante de Diseño =1089.0 ton En el vano 1 Combinación 9 [vu=3.49Mpa Øvc=2.49Mpa Øvs=1.49Mpa]
Esfuerzo flexión=7.22Mpa En el vano 1 Combinación 9 [Momento =394.3 ton-m Axial =2452.0 ton C=1.40m]

Sección 62

Sección	Elemento Borde	Mallas de refuerzo
0.60x6.5	0.60x1.4 20/5 (.5%) 1#3(54x135)-398 8#3(56)-76	(Long) 4 c/ 15.0cm (Tran) 6 c/ 20.0cm

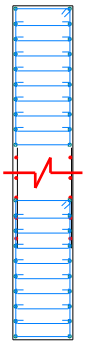
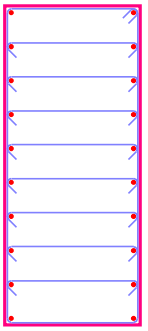
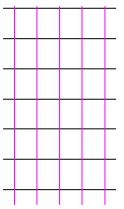


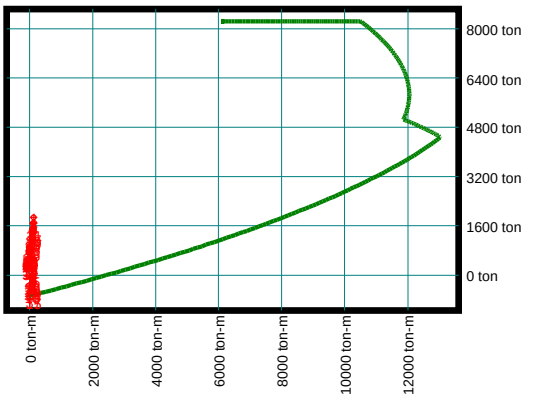
N	Mu	Pu	C
1	984.2	1485.0	1.0
2	1119.0	1689.0	1.0
3	1364.0	1021.0	0.7
4	1023.0	1525.0	1.0
5	668.5	2045.0	1.2
6	1009.0	1540.0	1.0
7	1638.0	613.1	0.5
8	500.5	2296.0	1.3
9	394.3	2452.0	1.4
10	1532.0	768.8	0.6
11	980.2	442.2	0.4
12	639.5	946.5	0.7
13	285.2	1466.0	0.9
14	625.8	962.1	0.7
15	1254.0	34.8	0.3

Pantalla P3 (Vanos 2 a 3) F'c= 49Mpa

Cortante de Diseño =117.0 ton En el vano 3 Combinación 15 [vu=0.38Mpa Øvc=1.09Mpa Øvs=0.68Mpa]
Esfuerzo flexión=5.12Mpa En el vano 2 Combinación 9 [Momento =128.1 ton-m Axial =1880.0 ton C=1.19m]

Sección 67

Sección	Elemento Borde	Mallas de refuerzo
 0.60x6.5	 0.60x1.4 20/5 (.5%) 1#3(54x135)-398 8#3(56)-76	 (Long) 5 c/ 15.0cm (Tran) 4 c/ 20.0cm

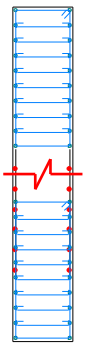
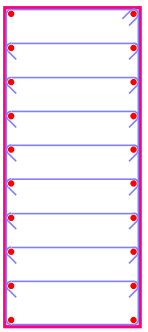
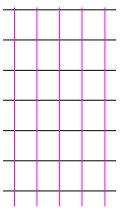


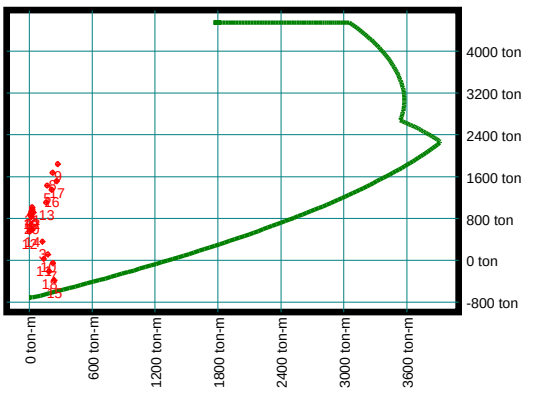
N	Mu	Pu	C
1	6.5	804.6	0.7
2	8.4	912.5	0.7
3	66.9	201.7	0.4
4	2.1	769.6	0.7
5	81.6	1456.0	1.0
6	16.8	888.2	0.7
7	113.4	-221.8	0.2
8	103.0	1674.0	1.1
9	128.1	1880.0	1.2
10	88.3	-16.1	0.3
11	70.1	-110.0	0.3
12	5.2	457.9	0.5
13	78.5	1144.0	0.8
14	13.6	576.5	0.6
15	116.6	-533.5	0.0

Pantalla P3 (Vanos 4 a 4) F'c= 49Mpa

Cortante de Diseño =148.8 ton En el vano 4 Combinación 15 [vu=0.90Mpa Øvc=0.97Mpa Øvs=0.68Mpa]
Esfuerzo flexión=11.19Mpa En el vano 4 Combinación 9 [Momento =274.2 ton-m Axial =1839.0 ton C=1.10m]

Sección 80

Sección	Elemento Borde	Mallas de refuerzo
 0.60x3.5	 0.60x1.4 20/7 (.9%) 1#3(54x135)-398 8#3(56)-76	 (Long) 7 c/ 15.0cm (Tran) 4 c/ 20.0cm

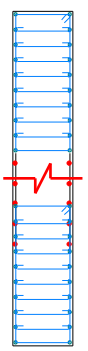
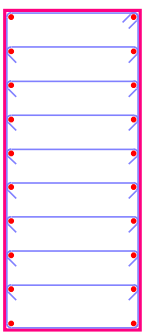
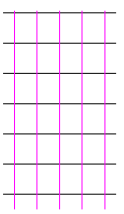


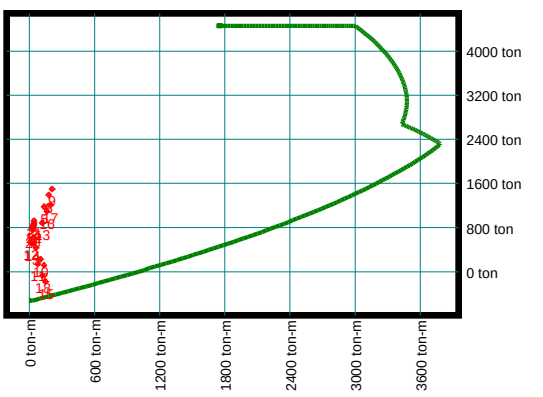
N	Mu	Pu	C
1	18.8	878.5	0.7
2	27.2	974.3	0.7
3	127.5	354.1	0.5
4	8.1	872.2	0.7
5	173.6	1429.0	0.9
6	38.0	910.5	0.7
7	228.1	-56.5	0.3
8	224.6	1673.0	1.0
9	274.2	1839.0	1.1
10	178.5	110.1	0.3
11	138.5	27.6	0.3
12	2.9	545.6	0.5
13	162.6	1102.0	0.8
14	27.0	583.9	0.6
15	239.1	-383.1	0.1

Pantalla P3 (Vanos 5 a 5) F'c= 49Mpa

Cortante de Diseño =.3 ton En el vano 5 Combinación 6 [vu=0.00Mpa Øvc=0.29Mpa Øvs=0.68Mpa]
Esfuerzo flexión=9.02Mpa En el vano 5 Combinación 9 [Momento =211.2 ton-m Axial =1499.0 ton C=0.91m]

Sección 94

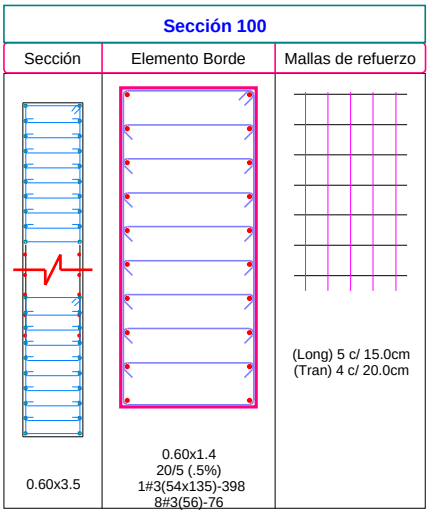
Sección	Elemento Borde	Mallas de refuerzo
 0.60x3.5	 0.60x1.4 20/6 (.7%) 1#3(54x135)-398 8#3(56)-76	 (Long) 6 c/ 15.0cm (Tran) 4 c/ 20.0cm

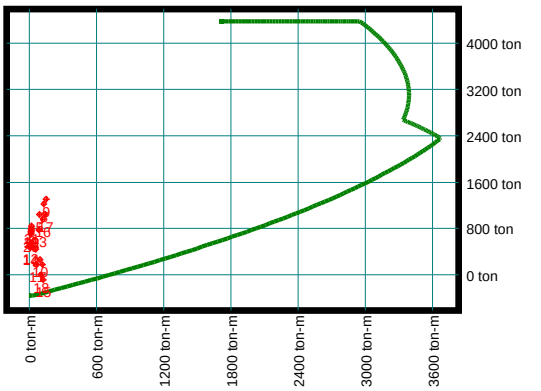


N	Mu	Pu	C
1	32.8	799.1	0.6
2	42.3	883.7	0.6
3	62.3	438.3	0.4
4	32.8	819.5	0.6
5	136.3	1180.0	0.8
6	41.2	798.8	0.6
7	137.2	119.0	0.3
8	180.2	1391.0	0.9
9	211.2	1499.0	0.9
10	106.2	227.0	0.3
11	78.3	142.9	0.3
12	16.8	524.1	0.5
13	120.4	884.5	0.6
14	25.3	503.3	0.5
15	153.2	-176.5	0.1

Pantalla P3 (Vanos 6 a 6) F'c= 49Mpa

Cortante de Diseño =.3 ton En el vano 6 Combinación 2 [vu=0.00Mpa Øvc=0.33Mpa Øvs=0.68Mpa]
Esfuerzo flexión=7.59Mpa En el vano 6 Combinación 9 [Momento =152.7 ton-m Axial =1306.0 ton C=0.79m]

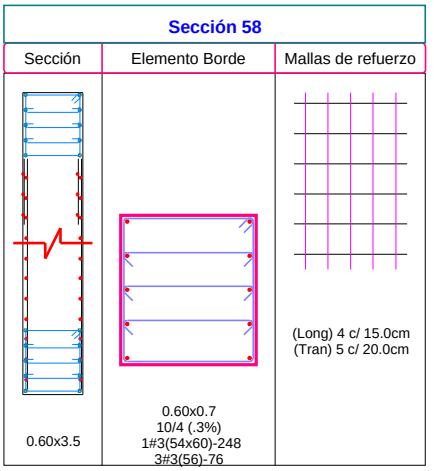


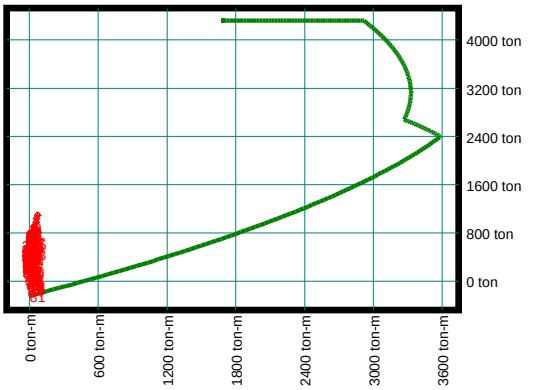


N	Mu	Pu	C
1	15.4	743.6	0.5
2	19.0	803.2	0.6
3	57.6	441.7	0.4
4	17.2	754.5	0.5
5	91.3	1040.0	0.7
6	16.5	727.5	0.5
7	119.0	176.2	0.3
8	130.5	1220.0	0.7
9	152.7	1306.0	0.8
10	96.8	261.8	0.3
11	64.5	178.7	0.3
12	10.2	491.5	0.4
13	84.3	777.4	0.5
14	9.6	464.6	0.4
15	125.9	-86.7	0.1

Pantalla P3 (Vanos 7 a 10) F'c= 49Mpa

Cortante de Diseño =.1 ton En el vano 10 Combinación 14 [vu=0.00Mpa Øvc=0.28Mpa Øvs=1.04Mpa]
Esfuerzo flexión=5.88Mpa En el vano 7 Combinación 9 [Momento =71.7 ton-m Axial =1092.0 ton C=0.64m]

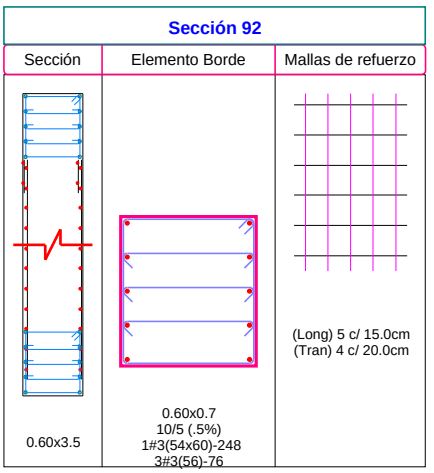


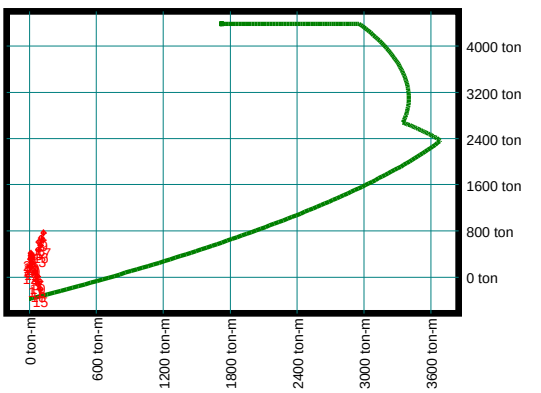


N	Mu	Pu	C
1	1.2	697.7	0.4
2	1.0	763.0	0.5
3	34.8	502.9	0.4
4	4.6	720.9	0.5
5	36.8	899.4	0.6
6	2.7	681.5	0.4
7	69.7	310.7	0.3
8	62.0	1038.0	0.6
9	71.7	1092.0	0.6
10	60.1	364.2	0.3
11	35.1	250.3	0.2
12	4.4	468.2	0.3
13	36.6	646.8	0.4
14	2.9	428.8	0.3
15	69.9	58.0	0.1

Pantalla P3 (Vanos 11 a 11) F'c= 49Mpa

Cortante de Diseño =.5 ton En el vano 11 Combinación 8 [vu=0.00Mpa Øvc=0.28Mpa Øvs=0.68Mpa]
Esfuerzo flexión=4.79Mpa En el vano 11 Combinación 9 [Momento =127.5 ton-m Axial =768.8 ton C=0.53m]

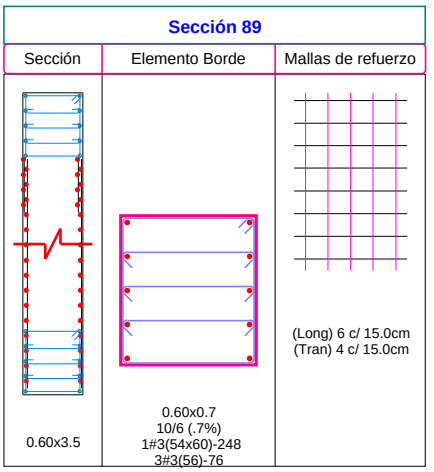


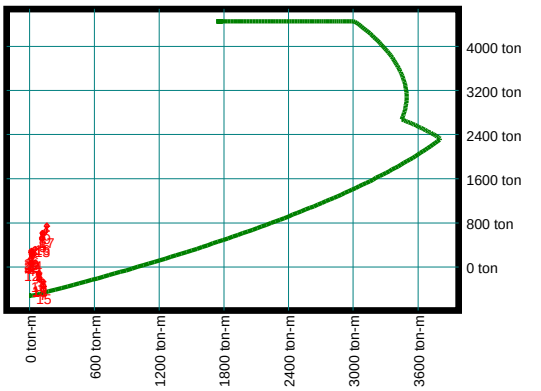


N	Mu	Pu	C
1	18.6	342.7	0.3
2	17.0	382.9	0.3
3	50.5	92.4	0.2
4	9.3	317.8	0.3
5	83.6	606.5	0.5
6	23.9	381.1	0.3
7	94.3	-69.8	0.1
8	105.2	682.3	0.5
9	127.5	768.8	0.5
10	72.0	16.6	0.2
11	55.1	-36.7	0.1
12	4.7	188.7	0.3
13	79.0	477.3	0.4
14	19.2	252.0	0.3
15	98.9	-199.0	0.1

Pantalla P3 (Vanos 12 a 12) F'c= 49Mpa

Cortante de Diseño =1.7 ton En el vano 12 Combinación 6 [vu=0.01Mpa Øvc=1.61Mpa Øvs=0.90Mpa]
Esfuerzo flexión=4.96Mpa En el vano 12 Combinación 9 [Momento =162.0 ton-m Axial =745.2 ton C=0.57m]

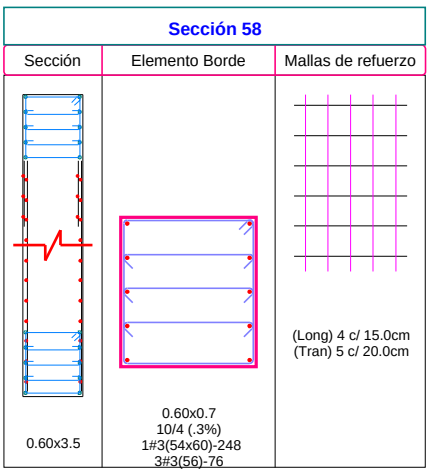


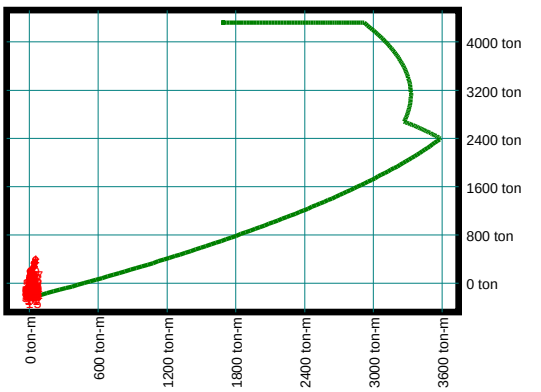


N	Mu	Pu	C
1	20.8	236.1	0.3
2	18.8	260.8	0.3
3	86.6	-111.9	0.2
4	12.8	152.3	0.3
5	123.4	589.6	0.5
6	49.6	325.4	0.4
7	125.2	-267.5	0.1
8	121.2	614.2	0.5
9	162.0	745.2	0.6
10	84.4	-136.5	0.2
11	91.7	-199.0	0.1
12	17.8	65.2	0.3
13	118.4	502.5	0.5
14	44.6	238.3	0.3
15	130.2	-354.6	0.1

Pantalla P3 (Vanos 13 a 15) F'c= 49Mpa

Cortante de Diseño =.1 ton En el vano 14 Combinación 17 [vu=0.00Mpa Øvc=0.30Mpa Øvs=1.04Mpa]
Esfuerzo flexión=2.38Mpa En el vano 13 Combinación 9 [Momento =53.9 ton-m Axial =398.3 ton C=0.31m]

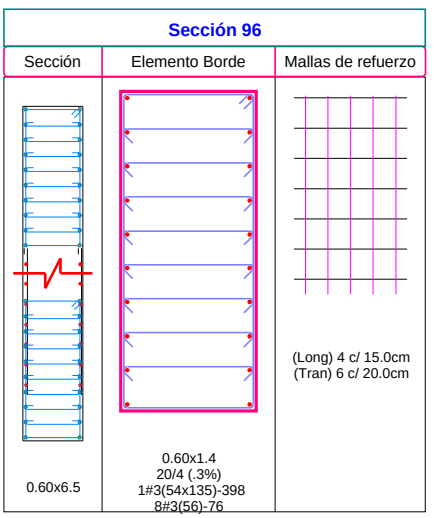


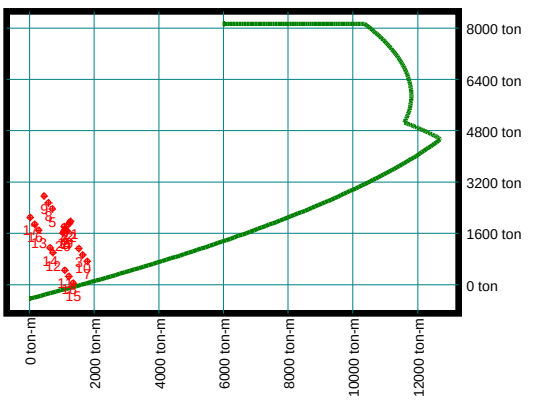


N	Mu	Pu	C
1	12.8	170.5	0.2
2	8.8	188.9	0.2
3	24.3	6.7	0.1
4	1.9	122.4	0.2
5	43.6	339.0	0.3
6	21.1	223.4	0.2
7	34.7	-52.6	0.1
8	40.3	333.4	0.3
9	53.9	398.3	0.3
10	21.1	12.3	0.1
11	25.7	-56.5	0.1
12	3.3	59.1	0.1
13	42.2	275.8	0.2
14	19.7	160.1	0.2
15	36.1	-115.9	0.0

Pantalla P4 (Vanos 1 a 1) F'c= 49Mpa

Cortante de Diseño =1274.0 ton En el vano 1 Combinación 9 [vu=4.08Mpa Øvc=2.64Mpa Øvs=1.49Mpa]
Esfuerzo flexión=8.15Mpa En el vano 1 Combinación 9 [Momento =455.1 ton-m Axial =2760.0 ton C=1.55m]





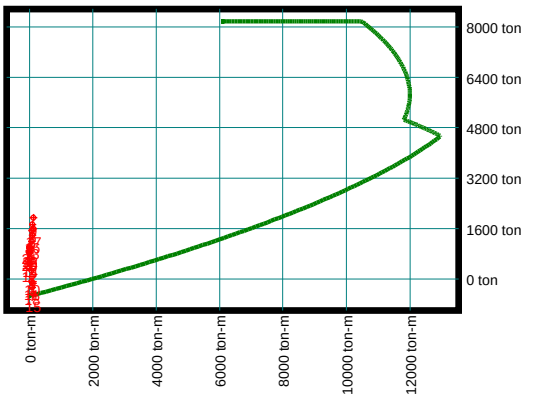
N	Mu	Pu	C
1	1074.0	1666.0	1.0
2	1244.0	1929.0	1.1
3	1528.0	1122.0	0.7
4	1169.0	1670.0	1.0
5	716.7	2360.0	1.4
6	1076.0	1812.0	1.1
7	1790.0	722.6	0.6
8	590.6	2553.0	1.4
9	455.1	2760.0	1.6
10	1654.0	929.5	0.7
11	1096.0	451.9	0.4
12	737.1	1000.0	0.7
13	284.7	1691.0	1.0
14	644.0	1142.0	0.8
15	1358.0	52.8	0.2

Pantalla P4 (Vanos 2 a 2) F'c= 49Mpa

Cortante de Diseño =97.5 ton En el vano 2 Combinación 15 [vu=0.31Mpa Øvc=1.08Mpa Øvs=1.49Mpa]
Esfuerzo flexión=5.28Mpa En el vano 2 Combinación 9 [Momento =122.6 ton-m Axial =1945.0 ton C=1.17m]

Sección 62

Sección	Elemento Borde	Mallas de refuerzo
0.60x6.5	0.60x1.4 20/5 (.5%) 1#3(54x135)-398 8#3(56)-76	(Long) 4 c/ 15.0cm (Tran) 6 c/ 20.0cm



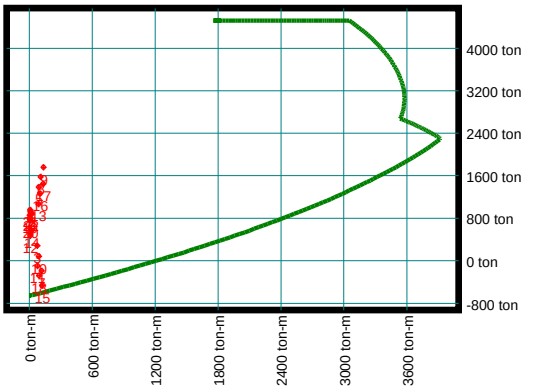
N	Mu	Pu	C
1	6.1	864.8	0.7
2	8.7	998.1	0.7
3	63.3	263.7	0.4
4	1.4	824.4	0.6
5	78.1	1540.0	1.0
6	16.2	979.1	0.7
7	107.8	-141.2	0.2
8	98.8	1730.0	1.1
9	122.6	1945.0	1.2
10	84.0	73.2	0.3
11	66.8	-82.1	0.2
12	4.9	478.6	0.5
13	74.7	1194.0	0.8
14	12.8	633.3	0.6
15	111.3	-487.0	0.0

Pantalla P4 (Vanos 3 a 3) F'c= 49Mpa

Cortante de Diseño =117.0 ton En el vano 3 Combinación 15 [vu=0.71Mpa Øvc=0.89Mpa Øvs=1.49Mpa]
Esfuerzo flexión=9.64Mpa En el vano 3 Combinación 9 [Momento =137.5 ton-m Axial =1757.0 ton C=1.03m]

Sección 97

Sección	Elemento Borde	Mallas de refuerzo
0.60x3.5	0.60x1.4 20/7 (.9%) 1#3(54x135)-398 8#3(56)-76	(Long) 5 c/ 15.0cm (Tran) 6 c/ 20.0cm



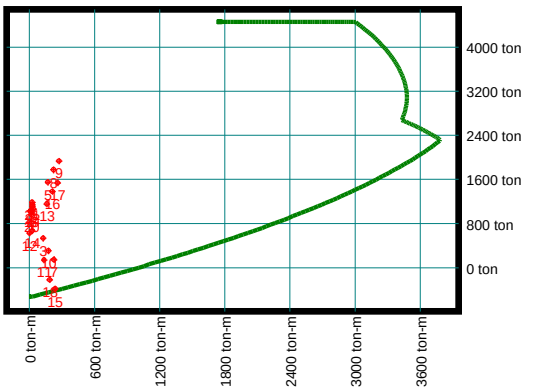
N	Mu	Pu	C
1	8.6	805.3	0.6
2	11.7	918.4	0.7
3	74.7	283.9	0.4
4	6.5	784.4	0.6
5	92.4	1382.0	0.9
6	24.2	881.3	0.6
7	119.8	-186.3	0.2
8	107.9	1579.0	1.0
9	137.5	1757.0	1.0
10	90.2	87.1	0.3
11	78.6	-94.9	0.2
12	10.4	469.2	0.5
13	88.5	1067.0	0.7
14	20.3	566.2	0.5
15	123.7	-465.5	0.1

Pantalla P4 (Vanos 4 a 4) F'c= 49Mpa

Cortante de Diseño =148.8 ton En el vano 4 Combinación 15 [vu=0.90Mpa Øvc=0.97Mpa Øvs=0.68Mpa]
Esfuerzo flexión=11.63Mpa En el vano 4 Combinación 9 [Momento =274.2 ton-m Axial =1931.0 ton C=1.10m]

Sección 94

Sección	Elemento Borde	Mallas de refuerzo
0.60x3.5	0.60x1.4 20/6 (.7%) 1#3(54x135)-398 8#3(56)-76	(Long) 6 c/ 15.0cm (Tran) 4 c/ 20.0cm



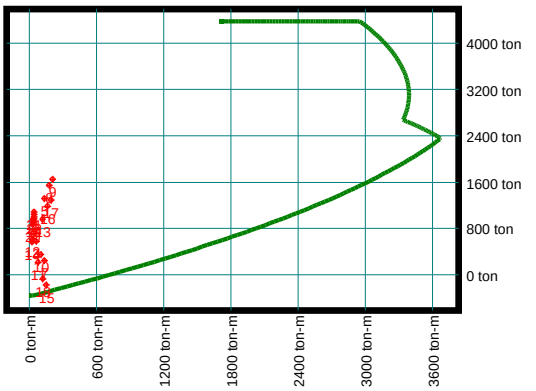
N	Mu	Pu	C
1	18.8	1007.0	0.7
2	27.2	1145.0	0.8
3	127.5	532.2	0.5
4	8.1	1019.0	0.7
5	173.6	1547.0	0.9
6	38.0	1060.0	0.7
7	228.1	147.7	0.3
8	224.6	1773.0	1.0
9	274.2	1931.0	1.1
10	178.5	305.7	0.4
11	138.5	140.2	0.3
12	2.9	627.1	0.5
13	162.6	1155.0	0.8
14	27.0	667.6	0.5
15	239.1	-383.1	0.0

Pantalla P4 (Vanos 5 a 5) F'c= 49Mpa

Cortante de Diseño =100.7 ton En el vano 5 Combinación 15 [vu=0.61Mpa Øvc=1.15Mpa Øvs=0.90Mpa]
Esfuerzo flexión=9.73Mpa En el vano 5 Combinación 9 [Momento =211.2 ton-m Axial =1647.0 ton C=0.95m]

Sección 102

Sección	Elemento Borde	Mallas de refuerzo
0.60x3.5	0.60x1.4 20/5 (.5%) 1#3(54x135)-398 8#3(56)-76	(Long) 5 c/ 15.0cm (Tran) 4 c/ 15.0cm



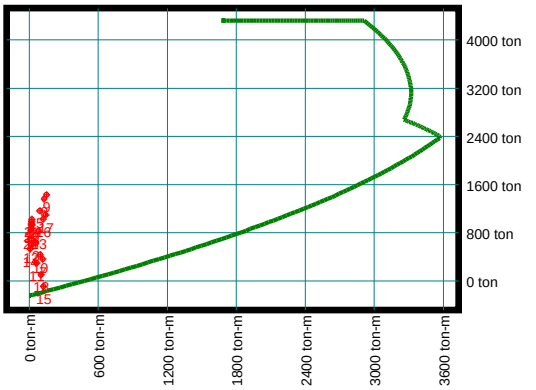
N	Mu	Pu	C
1	34.0	913.4	0.6
2	42.3	1044.0	0.7
3	62.3	577.6	0.4
4	40.3	966.1	0.6
5	136.3	1314.0	0.8
6	41.2	925.9	0.6
7	137.2	245.4	0.3
8	180.2	1542.0	0.9
9	211.2	1647.0	0.9
10	106.2	349.8	0.3
11	78.3	218.8	0.3
12	26.9	607.3	0.5
13	120.4	955.6	0.6
14	25.3	567.1	0.4
15	153.2	-176.5	0.1

Pantalla P4 (Vanos 6 a 6) F'c= 49Mpa

Cortante de Diseño =72.2 ton En el vano 6 Combinación 15 [vu=0.44Mpa Øvc=1.23Mpa Øvs=1.04Mpa]
Esfuerzo flexión=8.18Mpa En el vano 6 Combinación 9 [Momento =152.7 ton-m Axial =1428.0 ton C=0.81m]

Sección 59

Sección	Elemento Borde	Mallas de refuerzo
0.60x3.5	0.60x1.4 20/4 (.3%) 1#3(54x135)-398 8#3(56)-76	(Long) 4 c/ 15.0cm (Tran) 5 c/ 20.0cm



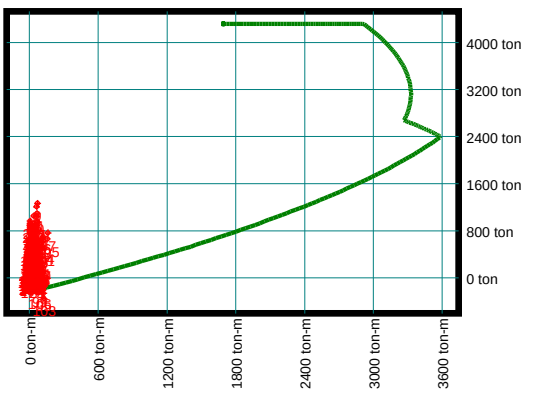
N	Mu	Pu	C
1	16.0	877.9	0.5
2	20.2	983.5	0.6
3	57.6	630.8	0.4
4	25.3	928.3	0.6
5	91.3	1163.0	0.7
6	16.5	865.5	0.5
7	119.0	365.3	0.3
8	130.5	1358.0	0.8
9	152.7	1428.0	0.8
10	96.8	435.6	0.3
11	64.5	298.3	0.3
12	17.7	595.8	0.4
13	84.3	830.4	0.5
14	9.6	532.9	0.4
15	125.9	-86.7	0.1

Pantalla P4 (Vanos 7 a 15) F'c= 49Mpa

Cortante de Diseño =2.6 ton En el vano 12 Combinación 16 [vu=0.02Mpa Øvc=0.42Mpa Øvs=1.04Mpa]
Esfuerzo flexión=6.69Mpa En el vano 7 Combinación 9 [Momento =71.7 ton-m Axial =1260.0 ton C=0.72m]

Sección 58

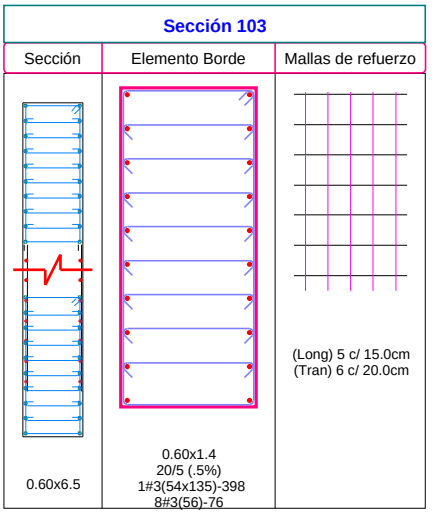
Sección	Elemento Borde	Mallas de refuerzo
0.60x3.5	0.60x0.7 10/4 (.3%) 1#3(54x60)-248 3#3(56)-76	(Long) 4 c/ 15.0cm (Tran) 5 c/ 20.0cm

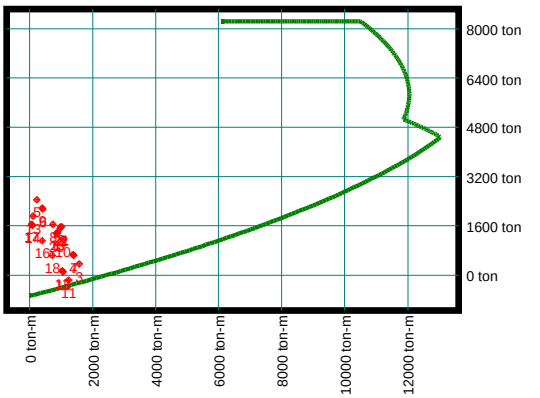


N	Mu	Pu	C
1	6.0	819.8	0.5
2	6.2	926.0	0.6
3	34.8	636.0	0.4
4	11.0	870.5	0.5
5	36.8	1049.0	0.6
6	2.7	814.0	0.5
7	69.7	424.2	0.3
8	62.0	1207.0	0.7
9	71.7	1260.0	0.7
10	60.1	477.6	0.3
11	35.1	320.7	0.3
12	9.0	555.2	0.4
13	36.6	733.3	0.5
14	2.9	498.8	0.3
15	69.9	109.0	0.2

Pantalla P5 (Vanos 1 a 1) F'c= 49Mpa

Cortante de Diseño =1166.0 ton En el vano 1 Combinación 5 [vu=3.74Mpa Øvc=2.49Mpa Øvs=1.49Mpa]
Esfuerzo flexión=6.82Mpa En el vano 1 Combinación 5 [Momento =226.7 ton-m Axial =2449.0 ton C=1.47m]

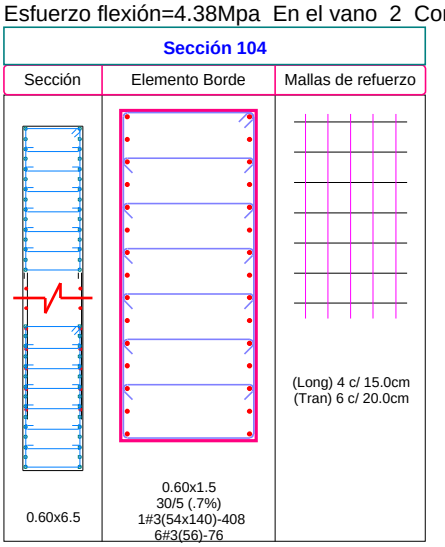


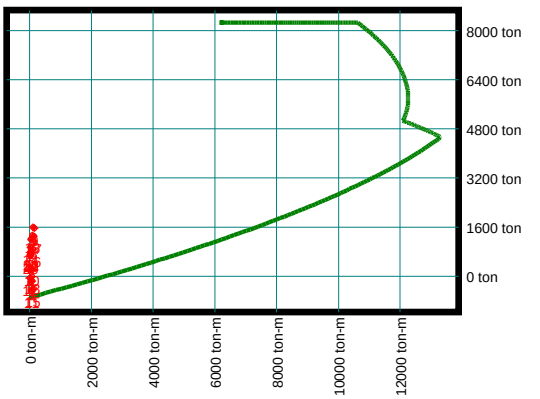


N	Mu	Pu	C
1	880.0	1370.0	1.0
2	995.0	1549.0	1.0
3	1583.0	367.8	0.5
4	1384.0	670.3	0.6
5	226.7	2449.0	1.5
6	425.8	2147.0	1.3
7	1410.0	637.3	0.6
8	745.7	1647.0	1.1
9	399.1	2180.0	1.3
10	1064.0	1170.0	0.8
11	1244.0	-160.3	0.2
12	1045.0	142.2	0.4
13	112.4	1921.0	1.2
14	86.8	1619.0	1.1
15	1071.0	109.1	0.4

Pantalla P5 (Vanos 2 a 2) F'c= 49Mpa

Cortante de Diseño =.5 ton En el vano 2 Combinación 11 [vu=0.00Mpa Øvc=0.28Mpa Øvs=1.49Mpa]
Esfuerzo flexión=4.38Mpa En el vano 2 Combinación 9 [Momento =154.7 ton-m Axial =1566.0 ton C=1.00m]

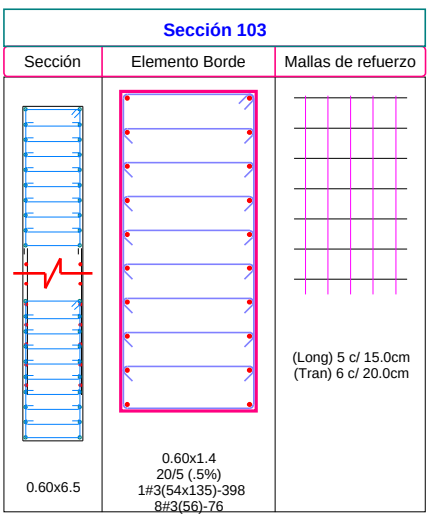


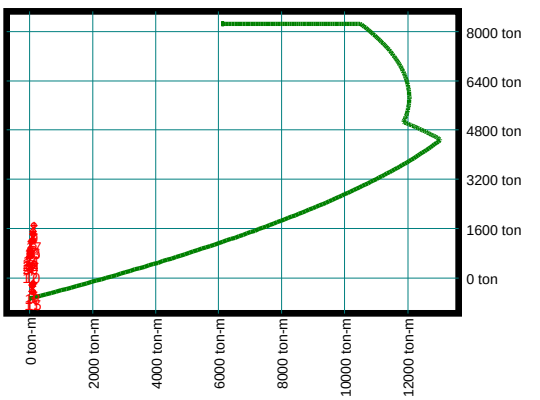


N	Mu	Pu	C
1	27.3	688.7	0.6
2	37.7	776.0	0.7
3	43.5	-182.6	0.2
4	22.1	207.8	0.4
5	108.1	1595.0	1.0
6	42.5	1205.0	0.8
7	90.0	-153.0	0.2
8	128.9	1150.0	0.8
9	154.7	1566.0	1.0
10	64.2	262.7	0.4
11	58.3	-446.1	0.1
12	7.3	-55.8	0.3
13	93.4	1332.0	0.9
14	27.8	941.3	0.7
15	104.8	-416.6	0.1

Pantalla P5 (Vanos 3 a 3) F'c= 49Mpa

Cortante de Diseño =117.0 ton En el vano 3 Combinación 15 [vu=0.38Mpa Øvc=1.09Mpa Øvs=1.49Mpa]
Esfuerzo flexión=4.69Mpa En el vano 3 Combinación 9 [Momento =137.5 ton-m Axial =1701.0 ton C=1.10m]

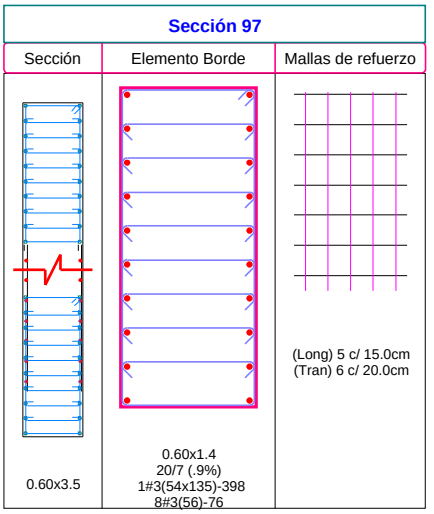


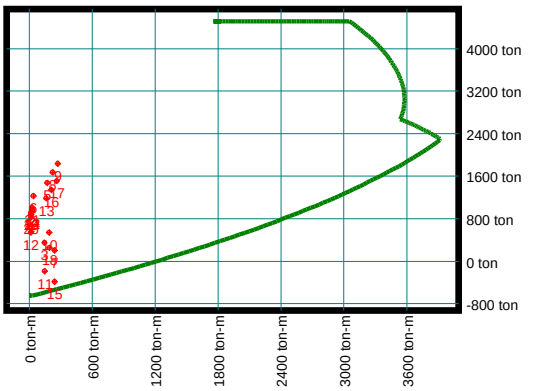


N	Mu	Pu	C
1	18.4	744.1	0.7
2	26.7	829.4	0.7
3	74.7	-227.6	0.2
4	6.5	692.5	0.6
5	94.7	1418.0	1.0
6	44.5	1175.0	0.9
7	119.8	-186.3	0.2
8	107.9	1510.0	1.0
9	137.5	1701.0	1.1
10	90.2	399.9	0.5
11	78.6	-443.3	0.1
12	10.4	413.4	0.5
13	88.5	1202.0	0.9
14	33.7	959.1	0.8
15	123.7	-465.5	0.1

Pantalla P5 (Vanos 4 a 4) F'c= 49Mpa

Cortante de Diseño =164.6 ton En el vano 4 Combinación 15 [vu=0.99Mpa Øvc=0.97Mpa Øvs=1.49Mpa]
Esfuerzo flexión=11.19Mpa En el vano 4 Combinación 9 [Momento =274.2 ton-m Axial =1839.0 ton C=1.07m]

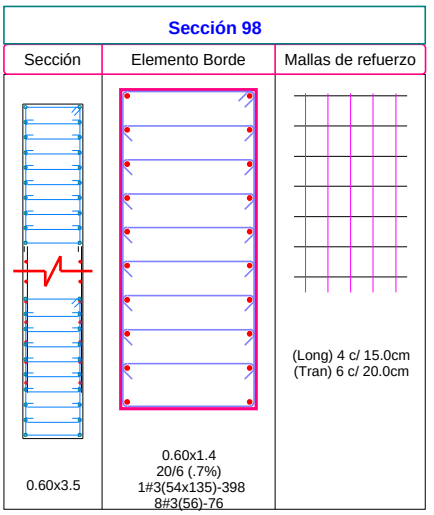


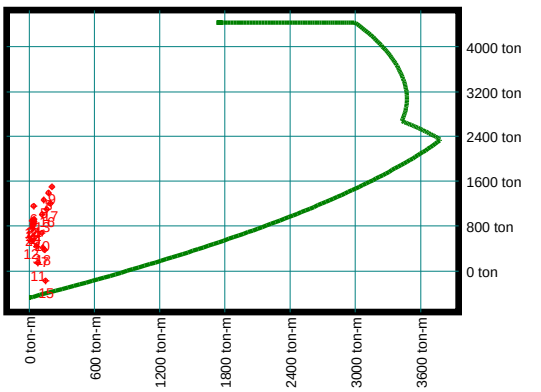


N	Mu	Pu	C
1	18.8	878.5	0.6
2	27.2	974.3	0.7
3	146.0	354.1	0.4
4	14.4	872.2	0.6
5	173.6	1478.0	0.9
6	38.0	1230.0	0.8
7	241.9	207.2	0.4
8	224.6	1673.0	1.0
9	274.2	1839.0	1.1
10	192.3	545.0	0.5
11	147.7	-185.3	0.2
12	16.0	545.6	0.5
13	162.6	1190.0	0.8
14	27.0	941.9	0.7
15	243.5	-383.1	0.1

Pantalla P5 (Vanos 5 a 5) F'c= 49Mpa

Cortante de Diseño =.3 ton En el vano 5 Combinación 6 [vu=0.00Mpa Øvc=0.30Mpa Øvs=1.49Mpa]
Esfuerzo flexión=9.02Mpa En el vano 5 Combinación 9 [Momento =211.2 ton-m Axial =1499.0 ton C=0.88m]

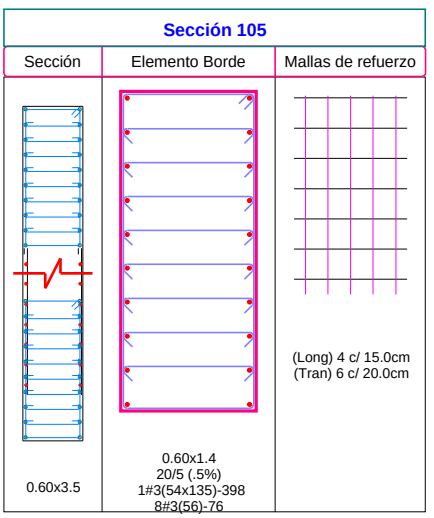


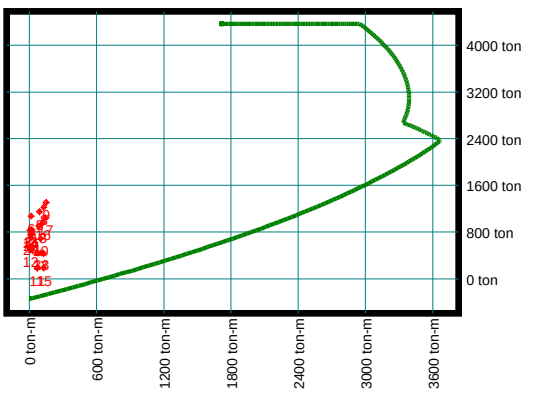


N	Mu	Pu	C
1	32.8	799.1	0.6
2	42.3	883.7	0.6
3	67.0	438.3	0.4
4	32.8	819.5	0.6
5	136.3	1264.0	0.8
6	41.2	1153.0	0.7
7	144.3	376.3	0.4
8	180.2	1391.0	0.8
9	211.2	1499.0	0.9
10	118.9	675.1	0.5
11	78.3	142.9	0.3
12	17.4	524.1	0.4
13	120.4	1005.0	0.7
14	25.3	894.3	0.6
15	153.2	-176.5	0.1

Pantalla P5 (Vanos 6 a 6) F'c= 49Mpa

Cortante de Diseño =107.3 ton En el vano 6 Combinación 15 [vu=0.65Mpa Øvc=1.48Mpa Øvs=1.49Mpa]
Esfuerzo flexión=7.59Mpa En el vano 6 Combinación 9 [Momento =152.7 ton-m Axial =1306.0 ton C=0.77m]

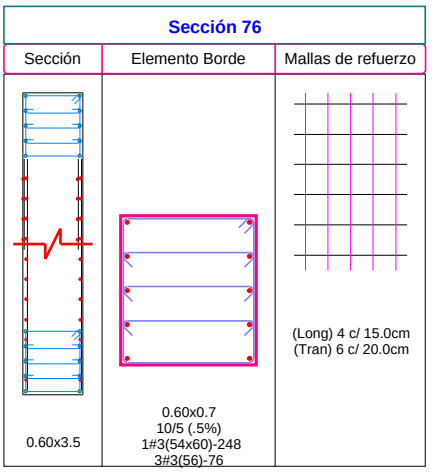


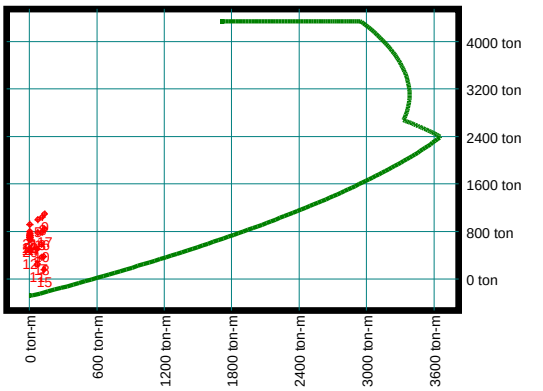


N	Mu	Pu	C
1	15.4	743.6	0.5
2	19.0	803.2	0.5
3	70.3	441.7	0.4
4	17.2	754.5	0.5
5	91.3	1146.0	0.7
6	16.5	1071.0	0.7
7	127.9	431.1	0.4
8	130.5	1220.0	0.7
9	152.7	1306.0	0.8
10	103.9	685.9	0.5
11	72.3	178.7	0.2
12	10.2	491.5	0.4
13	84.3	901.0	0.6
14	9.6	826.0	0.5
15	129.8	185.8	0.2

Pantalla P5 (Vanos 7 a 7) F'c= 49Mpa

Cortante de Diseño =.6 ton En el vano 7 Combinación 22 [vu=0.00Mpa Øvc=0.68Mpa Øvs=1.49Mpa]
Esfuerzo flexión=6.42Mpa En el vano 7 Combinación 9 [Momento =136.5 ton-m Axial =1092.0 ton C=0.65m]

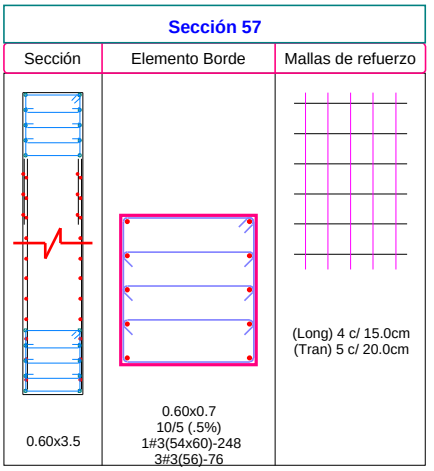


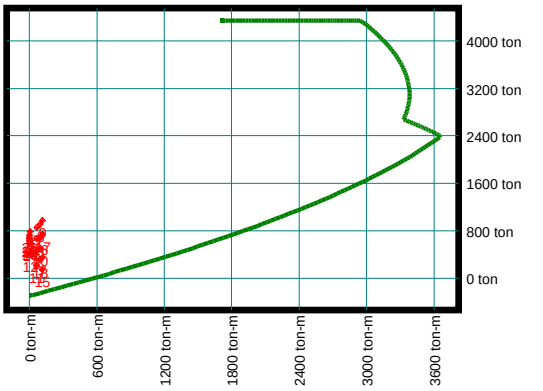


N	Mu	Pu	C
1	3.2	697.7	0.5
2	4.5	763.0	0.5
3	68.6	502.9	0.4
4	4.6	720.9	0.5
5	76.3	998.1	0.6
6	3.2	918.5	0.6
7	128.8	378.5	0.3
8	115.0	1038.0	0.6
9	136.5	1092.0	0.6
10	107.3	584.6	0.4
11	70.4	250.3	0.3
12	4.4	468.2	0.3
13	74.5	778.0	0.5
14	2.9	698.4	0.5
15	130.7	158.5	0.2

Pantalla P5 (Vanos 8 a 8) F'c= 49Mpa

Cortante de Diseño =119.7 ton En el vano 8 Combinación 15 [vu=0.72Mpa Øvc=1.44Mpa Øvs=1.04Mpa]
Esfuerzo flexión=5.68Mpa En el vano 8 Combinación 9 [Momento =117.1 ton-m Axial =972.5 ton C=0.59m]

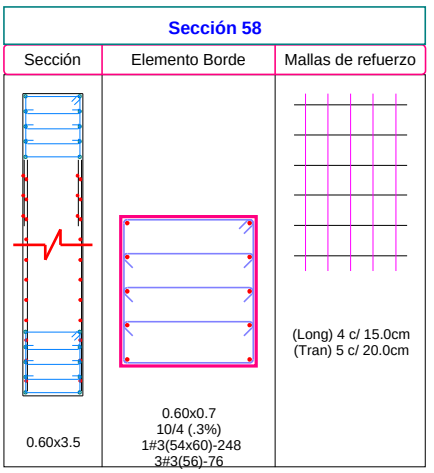


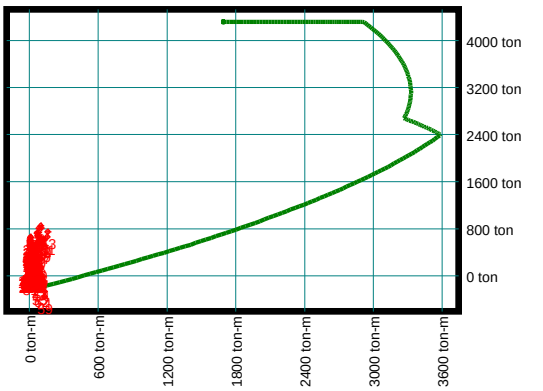


N	Mu	Pu	C
1	1.5	633.6	0.4
2	0.8	695.0	0.5
3	64.4	450.8	0.3
4	7.6	634.1	0.4
5	66.4	857.5	0.5
6	6.9	784.9	0.5
7	115.2	343.1	0.3
8	97.0	915.2	0.6
9	117.1	972.5	0.6
10	95.1	507.6	0.4
11	64.4	220.1	0.2
12	7.8	403.3	0.3
13	66.4	660.0	0.4
14	6.7	587.3	0.4
15	115.2	145.6	0.2

Pantalla P5 (Vanos 9 a 15) F'c= 49Mpa

Cortante de Diseño =.5 ton En el vano 12 Combinación 14 [vu=0.00Mpa Øvc=0.31Mpa Øvs=1.04Mpa]
Esfuerzo flexión=4.96Mpa En el vano 11 Combinación 9 [Momento =162.0 ton-m Axial =745.2 ton C=0.47m]

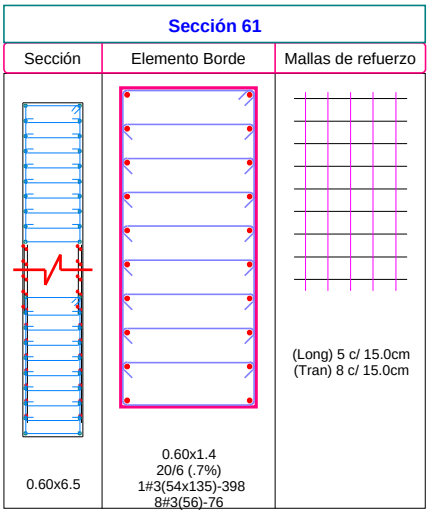


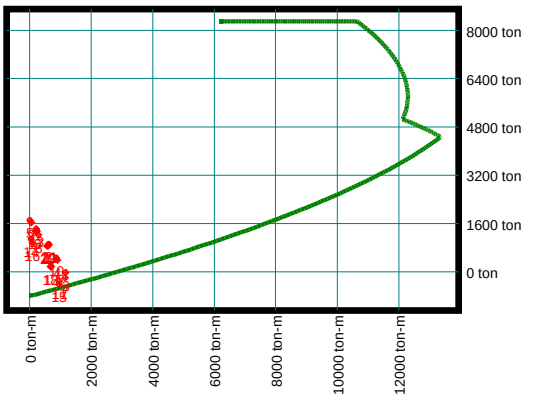


N	Mu	Pu	C
1	6.1	563.7	0.4
2	7.9	625.3	0.4
3	56.6	422.5	0.3
4	7.7	573.2	0.4
5	64.4	721.5	0.5
6	11.2	653.1	0.4
7	95.1	298.2	0.3
8	82.6	801.4	0.5
9	102.9	845.8	0.5
10	74.8	423.8	0.3
11	57.6	212.9	0.2
12	4.8	363.6	0.3
13	63.4	548.0	0.4
14	10.2	481.5	0.3
15	96.1	122.6	0.2

Pantalla P6 (Vanos 1 a 1) F'c= 49Mpa

Cortante de Diseño =995.5 ton En el vano 1 Combinación 5 [vu=3.19Mpa Øvc=2.13Mpa Øvs=3.57Mpa]
Esfuerzo flexión=4.40Mpa En el vano 1 Combinación 5 [Momento =12.5 ton-m Axial =1705.0 ton C=1.13m]

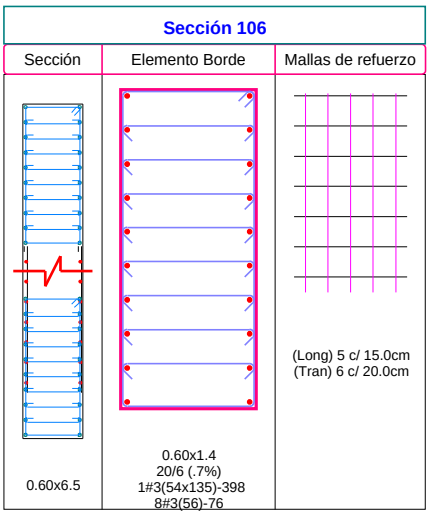


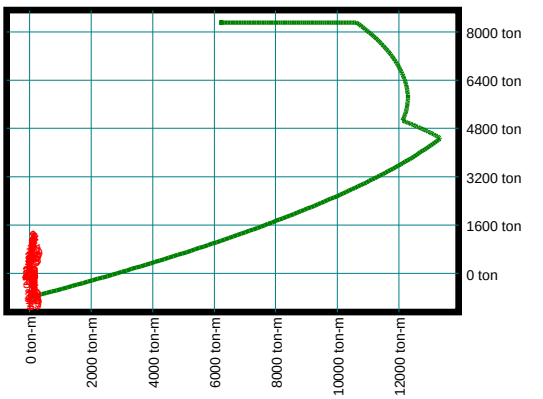


N	Mu	Pu	C
1	595.2	858.8	0.7
2	625.6	902.1	0.8
3	1177.0	-25.1	0.3
4	915.4	388.5	0.5
5	12.5	1705.0	1.1
6	249.1	1353.0	1.0
7	1158.0	-197.5	0.3
8	284.7	1220.0	0.9
9	53.5	1633.0	1.1
10	879.9	459.5	0.6
11	977.4	-312.9	0.2
12	715.8	175.1	0.4
13	212.1	1417.0	1.0
14	49.5	1065.0	0.8
15	958.2	-410.9	0.2

Pantalla P6 (Vanos 2 a 3) F'c= 49Mpa

Cortante de Diseño =198.8 ton En el vano 3 Combinación 15 [vu=0.64Mpa Øvc=1.00Mpa Øvs=1.49Mpa]
Esfuerzo flexión=3.60Mpa En el vano 2 Combinación 9 [Momento =116.9 ton-m Axial =1296.0 ton C=0.93m]

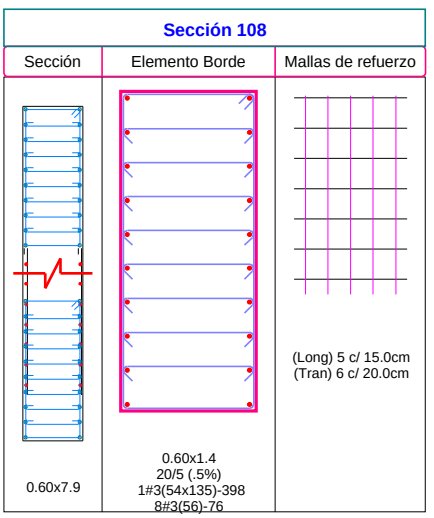


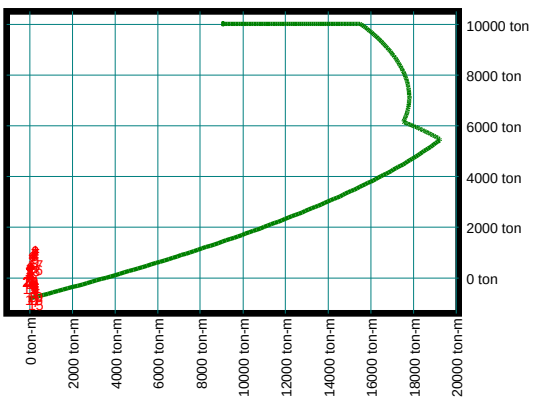


N	Mu	Pu	C
1	14.6	469.8	0.6
2	17.0	496.2	0.6
3	95.3	-166.4	0.3
4	30.6	356.3	0.5
5	85.0	1008.0	0.8
6	26.6	565.9	0.6
7	137.4	-470.0	0.1
8	85.8	1101.0	0.8
9	116.9	1296.0	0.9
10	108.8	-288.7	0.2
11	89.3	-289.1	0.2
12	24.7	197.2	0.4
13	84.1	848.7	0.7
14	25.7	406.8	0.5
15	131.5	-592.8	0.1

Pantalla P6 (Vanos 4 a 4) F'c= 49Mpa

Cortante de Diseño =311.1 ton En el vano 4 Combinación 15 [vu=0.82Mpa Øvc=1.09Mpa Øvs=1.49Mpa]
Esfuerzo flexión=2.78Mpa En el vano 4 Combinación 9 [Momento =258.6 ton-m Axial =1121.0 ton C=0.91m]

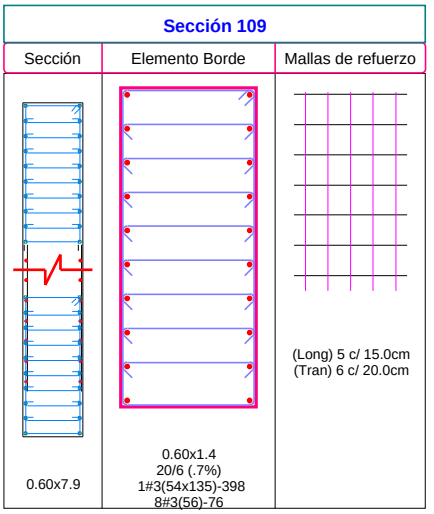


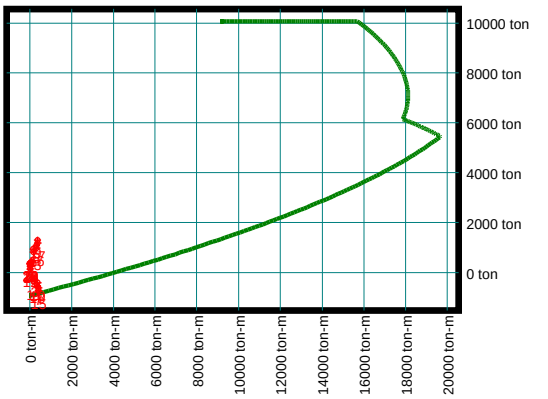


N	Mu	Pu	C
1	6.6	346.3	0.5
2	6.9	353.3	0.5
3	135.0	-228.1	0.3
4	21.5	180.7	0.5
5	122.1	892.3	0.8
6	30.0	483.6	0.6
7	271.5	-456.7	0.2
8	226.2	907.7	0.8
9	258.6	1121.0	0.9
10	239.1	-243.5	0.3
11	132.7	-337.6	0.2
12	23.0	71.2	0.4
13	124.3	782.8	0.7
14	28.6	385.4	0.6
15	269.2	-566.2	0.1

Pantalla P6 (Vanos 5 a 5) F'c= 49Mpa

Cortante de Diseño =392.7 ton En el vano 5 Combinación 15 [vu=1.04Mpa Øvc=1.03Mpa Øvs=1.49Mpa]
Esfuerzo flexión=3.31Mpa En el vano 5 Combinación 9 [Momento =364.8 ton-m Axial =1293.0 ton C=1.01m]

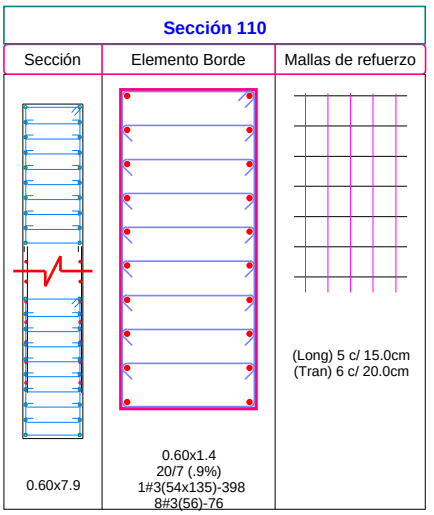


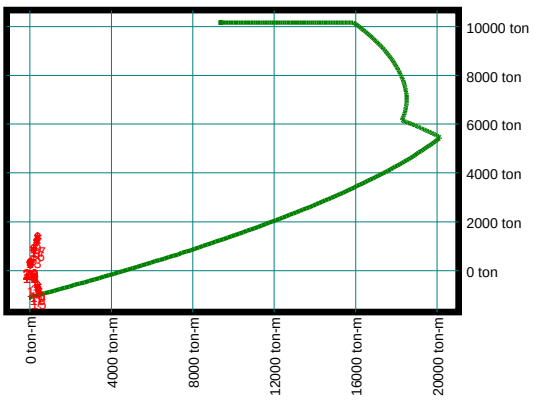


N	Mu	Pu	C
1	25.8	355.0	0.6
2	27.8	364.5	0.6
3	212.5	-248.1	0.3
4	22.7	261.5	0.5
5	161.2	931.8	0.8
6	58.9	422.3	0.6
7	416.0	-609.0	0.1
8	318.8	1092.0	0.9
9	364.8	1293.0	1.0
10	370.0	-408.1	0.2
11	203.4	-361.8	0.2
12	23.1	147.8	0.5
13	170.3	818.2	0.8
14	49.9	314.9	0.6
15	407.0	-722.7	0.1

Pantalla P6 (Vanos 6 a 6) F'c= 49Mpa

Cortante de Diseño =367.9 ton En el vano 6 Combinación 15 [vu=0.97Mpa Øvc=0.97Mpa Øvs=1.49Mpa]
Esfuerzo flexión=3.63Mpa En el vano 6 Combinación 9 [Momento =385.1 ton-m Axial =1427.0 ton C=1.08m]

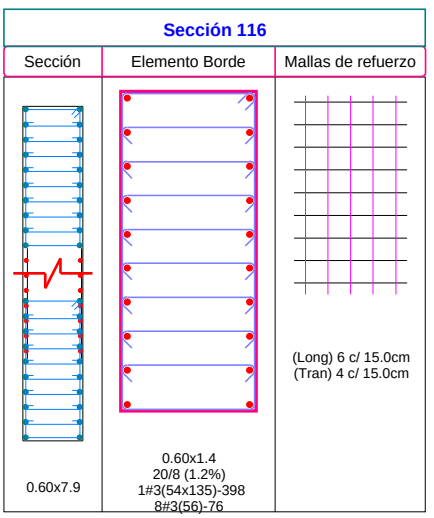


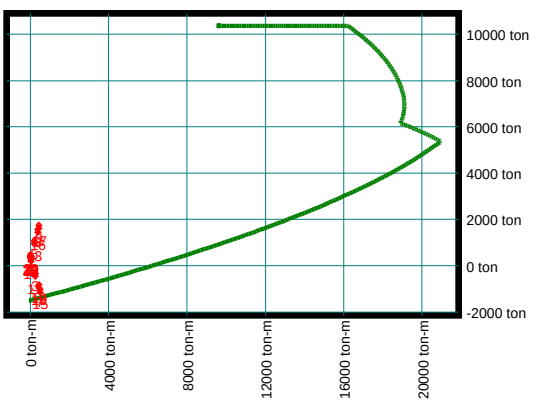


N	Mu	Pu	C
1	26.3	353.9	0.6
2	27.8	363.7	0.6
3	227.3	-259.5	0.3
4	19.1	336.6	0.6
5	175.7	941.7	0.9
6	55.1	345.6	0.6
7	436.8	-744.4	0.1
8	333.6	1245.0	1.0
9	385.1	1427.0	1.1
10	385.2	-563.1	0.2
11	218.4	-373.1	0.3
12	18.8	223.0	0.6
13	184.6	828.1	0.8
14	46.2	232.0	0.6
15	427.9	-858.0	0.1

Pantalla P6 (Vanos 7 a 7) F'c= 49Mpa

Cortante de Diseño =495.1 ton En el vano 7 Combinación 15 [vu=1.31Mpa Øvc=0.86Mpa Øvs=0.90Mpa]
Esfuerzo flexión=4.40Mpa En el vano 7 Combinación 9 [Momento =449.8 ton-m Axial =1745.0 ton C=1.33m]



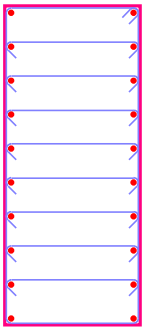
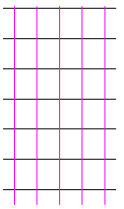


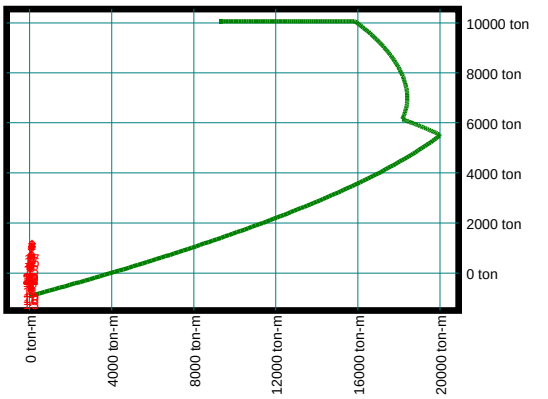
N	Mu	Pu	C
1	34.4	378.9	0.8
2	36.5	392.0	0.8
3	269.0	-328.8	0.5
4	12.9	441.2	0.8
5	201.3	1062.0	1.0
6	70.6	301.8	0.7
7	517.5	-1011.0	0.2
8	390.3	1559.0	1.3
9	449.8	1745.0	1.3
10	458.0	-825.2	0.3
11	257.3	-452.0	0.4
12	14.7	318.0	0.7
13	213.1	939.1	1.0
14	58.9	185.7	0.7
15	505.7	-1135.0	0.1

Pantalla P6 (Vanos 8 a 8) F'c= 49Mpa

Cortante de Diseño =109.8 ton En el vano 8 Combinación 15 [vu=0.29Mpa Øvc=1.04Mpa Øvs=1.49Mpa]
Esfuerzo flexión=2.67Mpa En el vano 8 Combinación 9 [Momento =120.0 ton-m Axial =1175.0 ton C=0.88m]

Sección 113

Sección	Elemento Borde	Mallas de refuerzo
 0.60x7.9	 0.60x1.4 20/7 (.9%) 1#3(54x135)-398 8#3(56)-76	 (Long) 4 c/ 15.0cm (Tran) 6 c/ 20.0cm

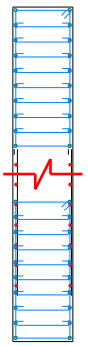
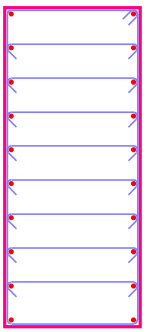
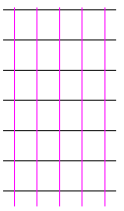


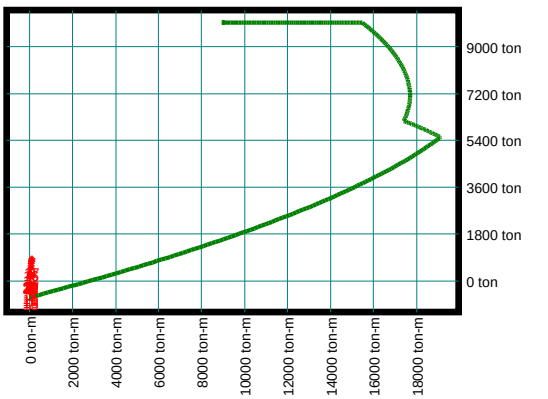
N	Mu	Pu	C
1	37.5	303.5	0.5
2	39.5	313.1	0.5
3	48.3	-159.6	0.3
4	35.5	331.9	0.5
5	83.4	746.0	0.7
6	37.9	258.6	0.5
7	70.2	-589.1	0.1
8	105.6	1051.0	0.8
9	120.0	1175.0	0.9
10	55.8	-465.0	0.2
11	45.7	-257.7	0.3
12	23.0	233.8	0.5
13	70.8	647.9	0.7
14	25.3	166.0	0.5
15	67.6	-687.2	0.1

Pantalla P6 (Vanos 9 a 9) F'c= 49Mpa

Cortante de Diseño =86.8 ton En el vano 9 Combinación 15 [vu=0.23Mpa Øvc=1.13Mpa Øvs=1.49Mpa]
Esfuerzo flexión=1.96Mpa En el vano 9 Combinación 9 [Momento =101.6 ton-m Axial =851.4 ton C=0.68m]

Sección 114

Sección	Elemento Borde	Mallas de refuerzo
 0.60x7.9	 0.60x1.4 20/5 (.5%) 1#3(54x135)-398 8#3(56)-76	 (Long) 4 c/ 15.0cm (Tran) 6 c/ 20.0cm

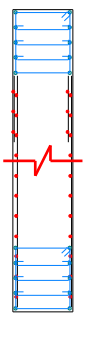
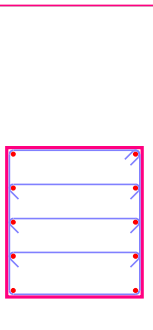
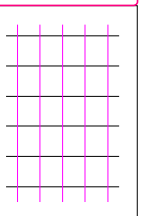


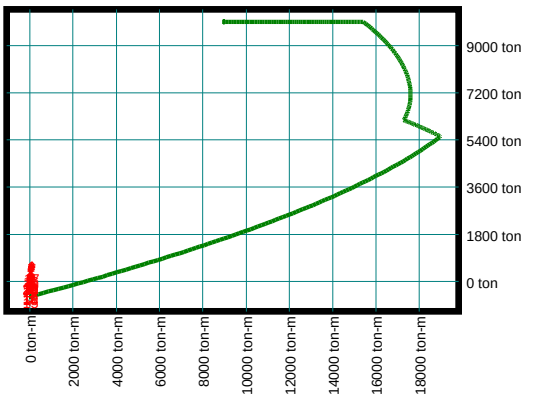
N	Mu	Pu	C
1	38.7	245.3	0.4
2	40.8	252.5	0.4
3	37.9	-100.3	0.2
4	35.8	238.0	0.4
5	74.8	573.6	0.6
6	40.1	239.0	0.4
7	50.4	-378.1	0.1
8	89.9	750.9	0.6
9	101.6	851.4	0.7
10	37.9	-277.6	0.1
11	36.3	-179.3	0.2
12	22.8	159.0	0.4
13	61.7	494.6	0.5
14	27.1	163.5	0.4
15	48.8	-457.1	0.1

Pantalla P6 (Vanos 10 a 10) F'c= 49Mpa

Cortante de Diseño =67.3 ton En el vano 10 Combinación 15 [vu=0.18Mpa Øvc=1.19Mpa Øvs=1.04Mpa]
Esfuerzo flexión=1.47Mpa En el vano 10 Combinación 9 [Momento =87.6 ton-m Axial =632.3 ton C=0.56m]

Sección 115

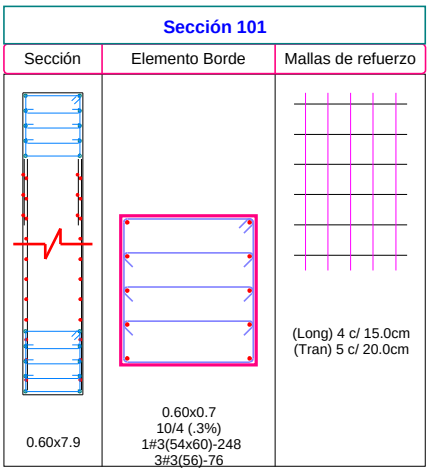
Sección	Elemento Borde	Mallas de refuerzo
 0.60x7.9	 0.60x0.7 10/5 (.5%) 1#3(54x60)-248 3#3(56)-76	 (Long) 4 c/ 15.0cm (Tran) 5 c/ 20.0cm

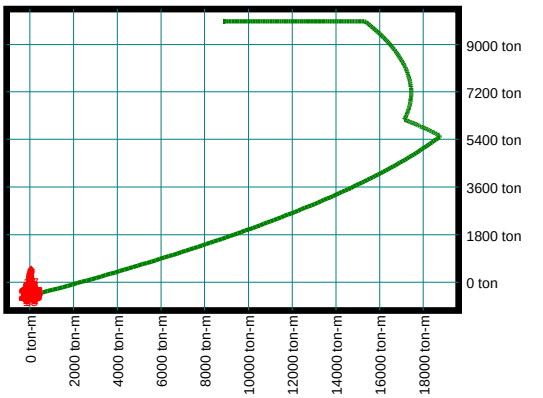


N	Mu	Pu	C
1	38.4	193.5	0.4
2	39.3	199.8	0.4
3	31.9	-90.0	0.2
4	36.0	148.4	0.3
5	65.5	464.2	0.5
6	37.8	234.9	0.4
7	38.2	-258.1	0.1
8	78.7	537.7	0.5
9	87.6	632.3	0.6
10	25.8	-163.5	0.2
11	31.1	-152.7	0.2
12	23.8	85.7	0.3
13	53.3	401.5	0.4
14	25.6	173.7	0.3
15	37.4	-320.8	0.1

Pantalla P6 (Vanos 11 a 16) F'c= 49Mpa

Cortante de Diseño =.3 ton En el vano 14 Combinación 10 [vu=0.00Mpa Øvc=0.93Mpa Øvs=1.04Mpa]
Esfuerzo flexión=1.13Mpa En el vano 11 Combinación 9 [Momento =62.8 ton-m Axial =489.7 ton C=0.49m]

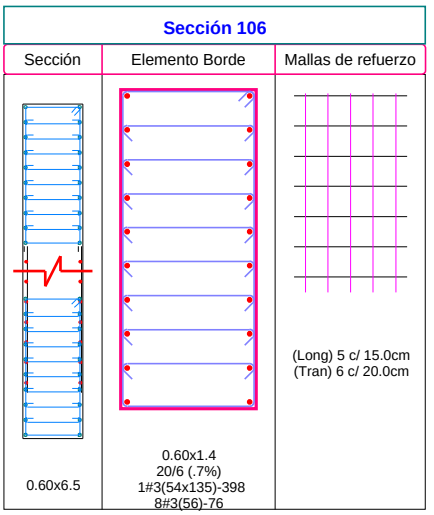


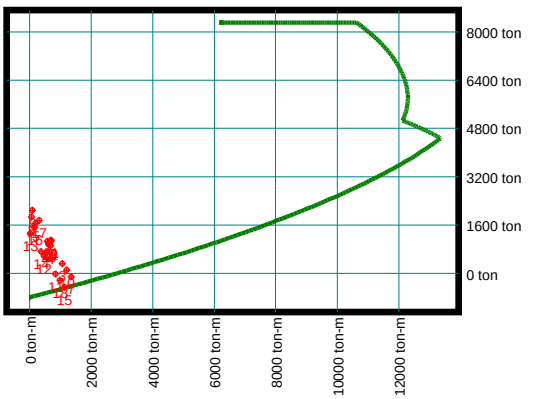


N	Mu	Pu	C
1	24.5	160.3	0.3
2	27.4	165.1	0.3
3	20.2	-93.9	0.2
4	24.8	77.6	0.3
5	46.0	403.3	0.4
6	25.3	231.7	0.4
7	23.7	-180.4	0.2
8	56.5	392.2	0.4
9	62.8	489.7	0.5
10	14.6	-82.8	0.2
11	20.6	-145.5	0.2
12	15.5	26.0	0.3
13	36.8	351.6	0.4
14	16.0	180.1	0.3
15	24.1	-232.0	0.1

Pantalla P7 (Vanos 1 a 1) F'c= 49Mpa

Cortante de Diseño =946.2 ton En el vano 1 Combinación 9 [vu=3.03Mpa Øvc=2.32Mpa Øvs=1.49Mpa]
Esfuerzo flexión=5.56Mpa En el vano 1 Combinación 9 [Momento =86.8 ton-m Axial =2087.0 ton C=1.30m]

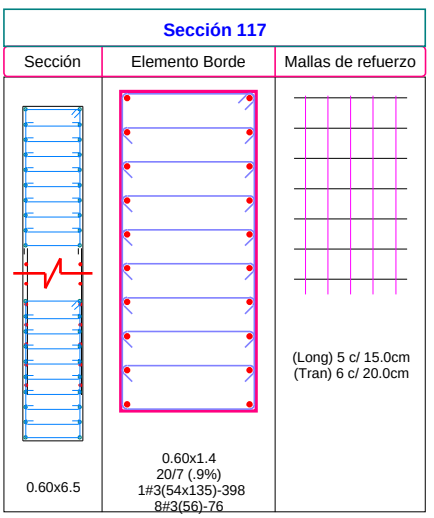


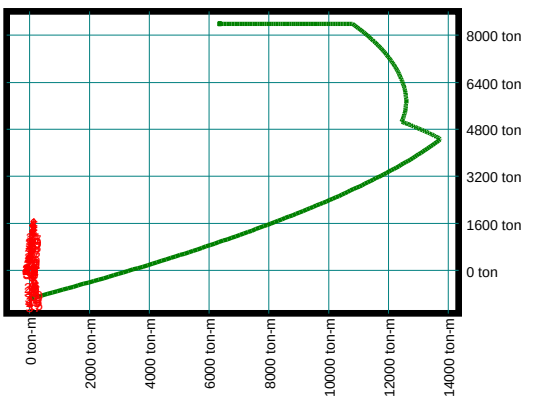


N	Mu	Pu	C
1	647.9	1002.0	0.8
2	683.8	1058.0	0.8
3	1072.0	313.5	0.5
4	682.6	907.7	0.8
5	199.2	1653.0	1.1
6	588.7	1059.0	0.8
7	1358.0	-119.9	0.3
8	58.0	1863.0	1.2
9	86.8	2087.0	1.3
10	1213.0	103.5	0.4
11	852.9	-25.7	0.3
12	463.5	568.5	0.6
13	19.9	1314.0	1.0
14	369.6	720.0	0.7
15	1139.0	-459.1	0.1

Pantalla P7 (Vanos 2 a 3) F'c= 49Mpa

Cortante de Diseño =157.4 ton En el vano 3 Combinación 15 [vu=0.50Mpa Øvc=0.93Mpa Øvs=1.49Mpa]
Esfuerzo flexión=4.56Mpa En el vano 2 Combinación 9 [Momento =136.9 ton-m Axial =1651.0 ton C=1.13m]

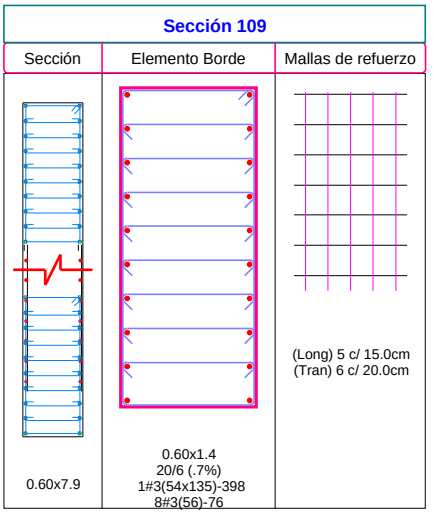


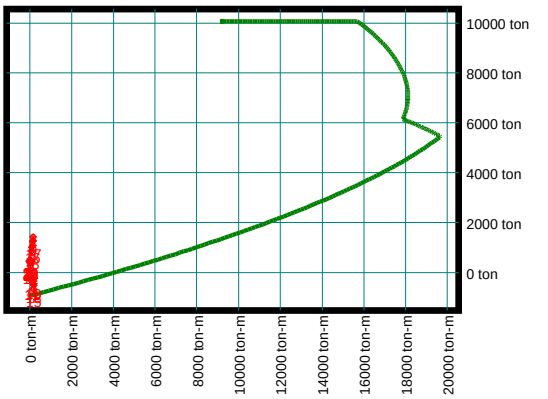


N	Mu	Pu	C
1	77.8	628.1	0.7
2	82.7	664.4	0.7
3	151.4	-21.7	0.4
4	80.4	642.9	0.7
5	101.1	1256.0	0.9
6	73.1	845.8	0.8
7	207.0	-552.5	0.2
8	98.1	1521.0	1.1
9	136.9	1651.0	1.1
10	183.5	-422.6	0.2
11	124.7	-235.1	0.3
12	53.7	451.8	0.6
13	100.8	1043.0	0.8
14	46.4	632.4	0.7
15	180.3	-743.6	0.1

Pantalla P7 (Vanos 4 a 4) F'c= 49Mpa

Cortante de Diseño =198.8 ton En el vano 4 Combinación 15 [vu=0.52Mpa Øvc=1.05Mpa Øvs=1.49Mpa]
Esfuerzo flexión=3.24Mpa En el vano 4 Combinación 9 [Momento =155.1 ton-m Axial =1420.0 ton C=1.05m]

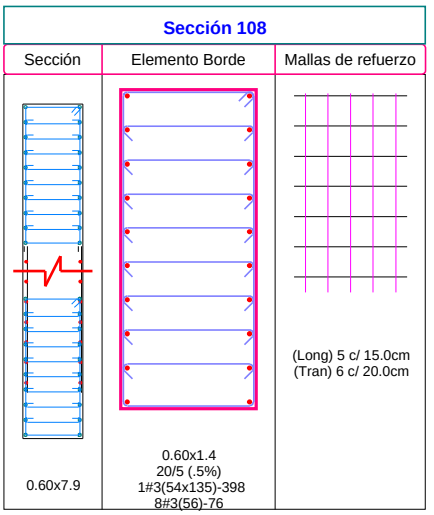


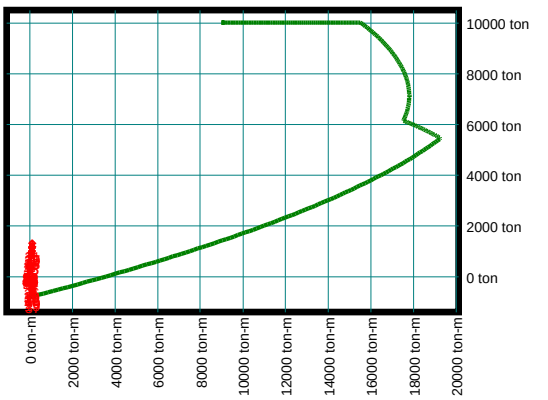


N	Mu	Pu	C
1	19.3	468.3	0.6
2	21.9	481.0	0.6
3	109.6	-262.1	0.3
4	23.8	419.0	0.6
5	86.0	1011.0	0.9
6	33.6	483.3	0.6
7	194.9	-517.3	0.2
8	130.5	1242.0	1.0
9	155.1	1420.0	1.1
10	170.3	-340.1	0.3
11	102.1	-362.5	0.2
12	25.3	268.9	0.5
13	84.5	860.4	0.8
14	32.1	377.2	0.6
15	187.4	-667.4	0.1

Pantalla P7 (Vanos 5 a 6) F'c= 49Mpa

Cortante de Diseño =392.7 ton En el vano 6 Combinación 15 [vu=1.04Mpa Øvc=1.04Mpa Øvs=1.49Mpa]
Esfuerzo flexión=2.96Mpa En el vano 5 Combinación 9 [Momento =110.5 ton-m Axial =1318.0 ton C=0.98m]

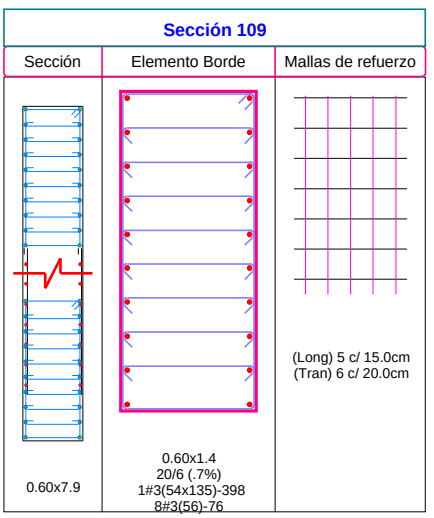


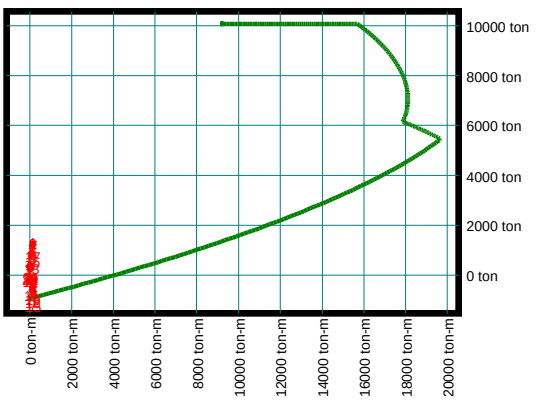


N	Mu	Pu	C
1	4.4	427.0	0.6
2	4.6	434.5	0.6
3	63.4	-172.0	0.3
4	21.5	354.0	0.5
5	61.2	954.4	0.8
6	30.0	482.8	0.6
7	112.7	-500.0	0.1
8	91.6	1138.0	0.9
9	110.5	1318.0	1.0
10	93.8	-320.2	0.2
11	62.4	-271.0	0.2
12	23.0	219.7	0.5
13	62.2	820.1	0.8
14	28.6	385.4	0.6
15	111.7	-634.3	0.1

Pantalla P7 (Vanos 7 a 7) F'c= 49Mpa

Cortante de Diseño =251.0 ton En el vano 7 Combinación 15 [vu=0.66Mpa Øvc=1.01Mpa Øvs=1.49Mpa]
Esfuerzo flexión=3.05Mpa En el vano 7 Combinación 9 [Momento =143.4 ton-m Axial =1336.0 ton C=1.01m]

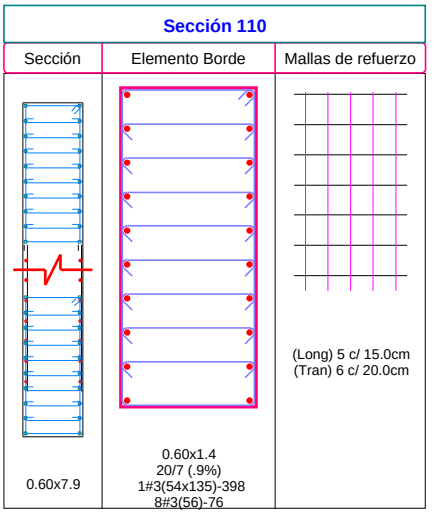


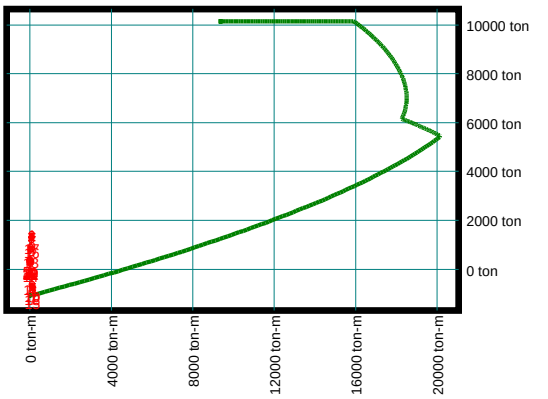


N	Mu	Pu	C
1	7.0	357.4	0.6
2	7.7	362.2	0.6
3	83.9	-202.4	0.3
4	19.1	345.2	0.6
5	69.8	884.9	0.8
6	17.8	337.3	0.6
7	157.5	-653.6	0.1
8	122.5	1174.0	0.9
9	143.4	1336.0	1.0
10	136.5	-491.9	0.2
11	81.3	-313.9	0.3
12	18.8	233.7	0.5
13	72.4	773.4	0.8
14	18.1	228.8	0.5
15	154.9	-765.1	0.1

Pantalla P7 (Vanos 8 a 8) F'c= 49Mpa

Cortante de Diseño =193.9 ton En el vano 8 Combinación 15 [vu=0.51Mpa Øvc=0.97Mpa Øvs=1.49Mpa]
Esfuerzo flexión=3.21Mpa En el vano 8 Combinación 9 [Momento =97.1 ton-m Axial =1447.0 ton C=1.08m]

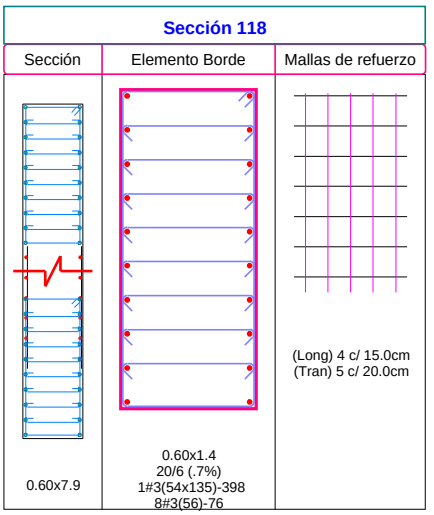


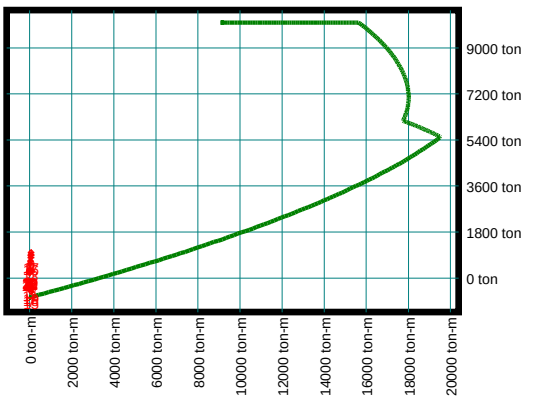


N	Mu	Pu	C
1	16.8	356.6	0.6
2	17.7	369.1	0.6
3	75.9	-224.3	0.4
4	12.9	388.9	0.6
5	44.1	914.9	0.9
6	20.1	307.5	0.6
7	130.0	-756.8	0.1
8	80.3	1290.0	1.0
9	97.1	1447.0	1.1
10	113.3	-599.2	0.2
11	70.3	-340.4	0.3
12	9.7	272.8	0.6
13	48.6	798.8	0.8
14	14.4	210.5	0.6
15	124.4	-872.9	0.1

Pantalla P7 (Vanos 9 a 9) F'c= 49Mpa

Cortante de Diseño =103.2 ton En el vano 9 Combinación 15 [vu=0.27Mpa Øvc=1.10Mpa Øvs=1.04Mpa]
Esfuerzo flexión=2.20Mpa En el vano 9 Combinación 9 [Momento =66.8 ton-m Axial =994.4 ton C=0.78m]

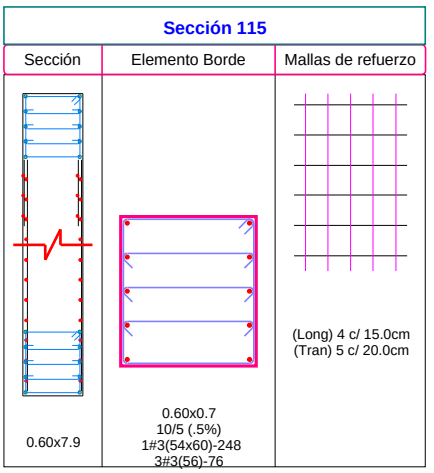


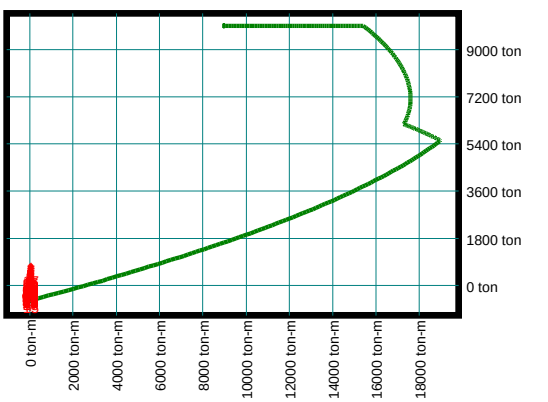


N	Mu	Pu	C
1	9.3	285.9	0.5
2	9.3	295.2	0.5
3	48.3	-137.3	0.3
4	15.2	294.2	0.5
5	38.6	656.3	0.6
6	6.4	270.9	0.5
7	70.2	-441.6	0.1
8	58.5	885.9	0.7
9	66.8	994.4	0.8
10	55.8	-333.1	0.2
11	45.7	-218.6	0.2
12	12.6	201.6	0.4
13	35.8	563.7	0.6
14	3.6	189.6	0.4
15	67.6	-534.2	0.1

Pantalla P7 (Vanos 10 a 12) F'c= 49Mpa

Cortante de Diseño =86.0 ton En el vano 10 Combinación 15 [vu=0.23Mpa Øvc=1.17Mpa Øvs=1.04Mpa]
Esfuerzo flexión=1.63Mpa En el vano 10 Combinación 9 [Momento =51.8 ton-m Axial =732.5 ton C=0.61m]

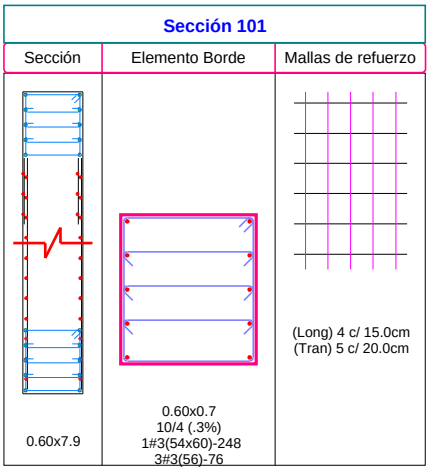


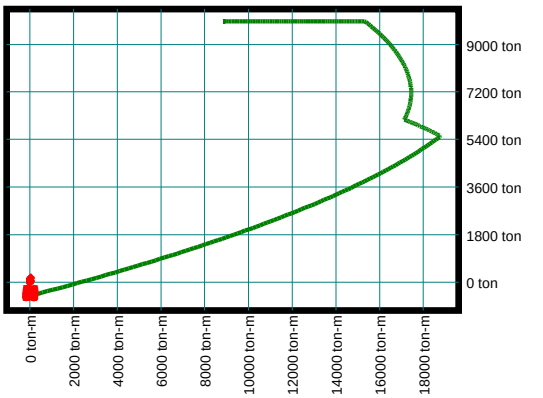


N	Mu	Pu	C
1	10.7	234.7	0.4
2	10.8	241.5	0.4
3	37.9	-90.7	0.2
4	14.6	213.8	0.4
5	32.8	515.2	0.5
6	9.9	239.0	0.4
7	50.4	-286.9	0.1
8	45.1	642.2	0.6
9	51.8	732.5	0.6
10	37.9	-190.9	0.2
11	36.3	-157.3	0.2
12	13.0	138.3	0.3
13	29.5	439.8	0.5
14	6.6	163.5	0.3
15	48.8	-355.3	0.1

Pantalla P7 (Vanos 13 a 16) F'c= 49Mpa

Cortante de Diseño =.2 ton En el vano 13 Combinación 8 [vu=0.00Mpa Øvc=0.31Mpa Øvs=1.04Mpa]
Esfuerzo flexión=0.50Mpa En el vano 16 Combinación 5 [Momento =53.9 ton-m Axial =197.9 ton C=0.26m]

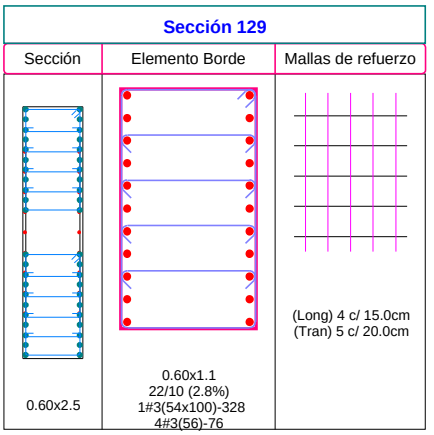


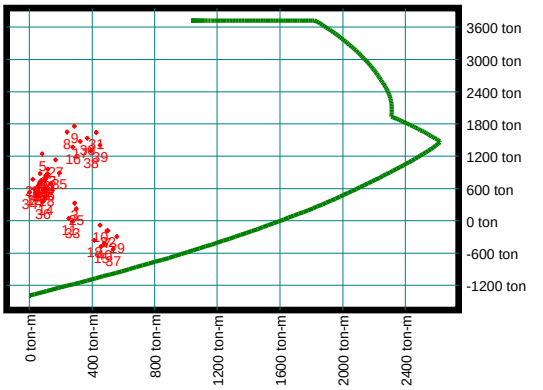


N	Mu	Pu	C
1	14.3	71.8	0.3
2	13.5	64.5	0.3
3	3.8	-6.6	0.2
4	8.6	43.3	0.3
5	22.3	133.4	0.3
6	17.5	83.5	0.3
7	3.0	-33.3	0.2
8	18.9	133.1	0.3
9	23.0	160.1	0.3
10	7.1	-6.4	0.2
11	0.1	-23.9	0.2
12	4.7	26.0	0.3
13	18.4	116.1	0.3
14	13.6	66.3	0.3
15	0.8	-50.6	0.2

Pantalla P13 (Vanos 1 a 2) F'c= 49Mpa

Cortante de Diseño =72.3 ton En el vano 2 Combinación 15 [vu=0.60Mpa Øvc=0.26Mpa Øvs=1.04Mpa]
Esfuerzo flexión=17.77Mpa En el vano 2 Combinación 9 [Momento =427.5 ton-m Axial =1639.0 ton C=1.04m]

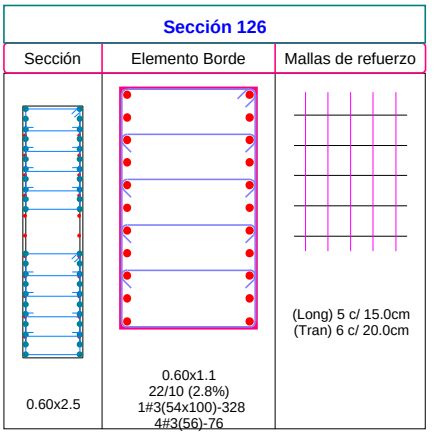


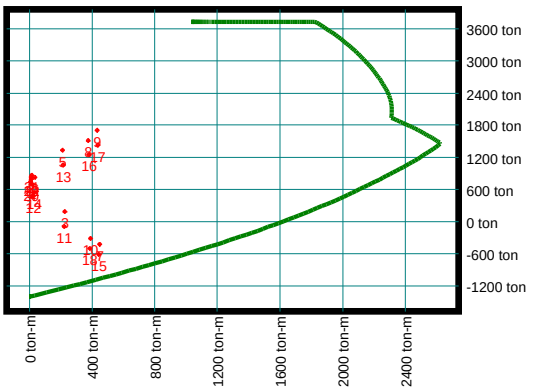


N	Mu	Pu	C
1	104.9	775.4	0.7
2	112.6	850.2	0.7
3	290.5	323.1	0.5
4	69.1	873.9	0.7
5	82.4	1238.0	0.8
6	139.0	687.3	0.6
7	496.2	-193.3	0.4
8	242.7	1645.0	1.0
9	288.1	1755.0	1.1
10	450.8	-84.2	0.4
11	253.9	41.0	0.4
12	32.5	591.8	0.6
13	119.0	956.0	0.7
14	102.4	405.2	0.6
15	459.6	-475.4	0.3

Pantalla P13 (Vanos 3 a 3) F'c= 49Mpa

Cortante de Diseño =168.9 ton En el vano 3 Combinación 15 [vu=1.41Mpa Øvc=0.00Mpa Øvs=1.49Mpa]
Esfuerzo flexión=18.26Mpa En el vano 3 Combinación 9 [Momento =432.8 ton-m Axial =1701.0 ton C=1.08m]

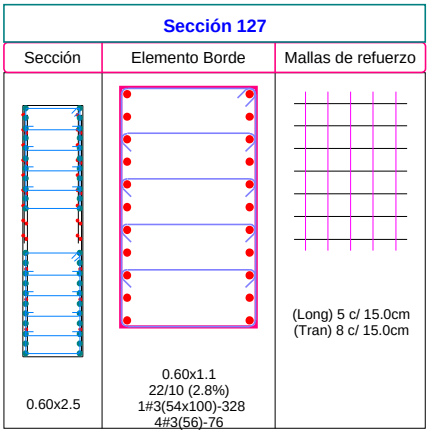


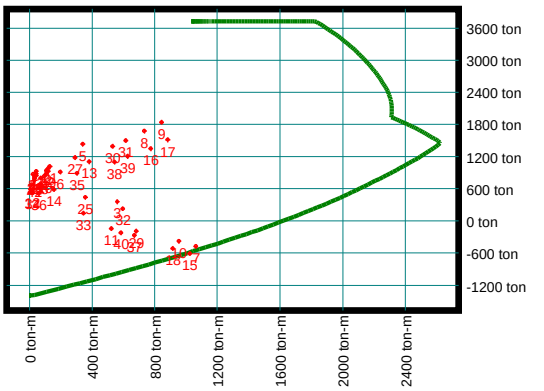


N	Mu	Pu	C
1	7.7	744.1	0.7
2	10.2	829.4	0.7
3	227.8	184.3	0.5
4	18.9	692.5	0.7
5	212.1	1331.0	0.9
6	34.6	822.6	0.7
7	448.5	-426.9	0.3
8	374.9	1510.0	1.0
9	432.8	1701.0	1.1
10	390.6	-318.1	0.3
11	223.1	-94.9	0.4
12	23.6	467.9	0.6
13	216.8	1052.0	0.8
14	29.9	543.4	0.6
15	443.8	-615.1	0.2

Pantalla P13 (Vanos 4 a 5) F'c= 49Mpa

Cortante de Diseño =309.1 ton En el vano 4 Combinación 15 [vu=2.58Mpa Øvc=0.16Mpa Øvs=3.57Mpa]
Esfuerzo flexión=25.76Mpa En el vano 4 Combinación 9 [Momento =843.9 ton-m Axial =1839.0 ton C=1.17m]

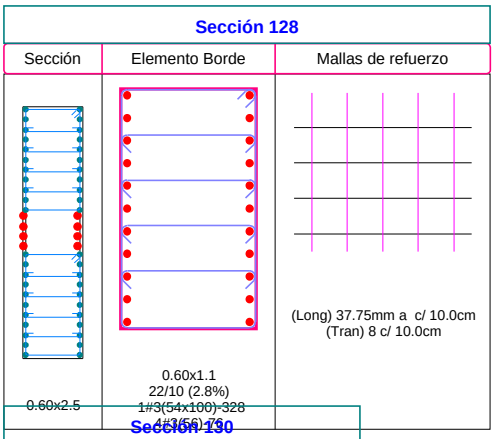


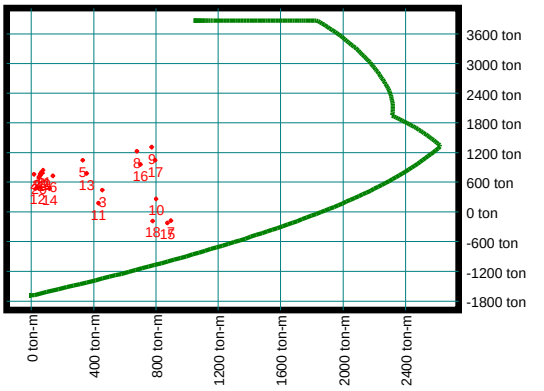


N	Mu	Pu	C
1	109.1	878.5	0.7
2	120.3	974.3	0.7
3	561.7	354.1	0.5
4	22.7	872.2	0.7
5	341.2	1429.0	0.9
6	197.8	910.5	0.7
7	1064.0	-475.9	0.3
8	734.9	1673.0	1.1
9	843.9	1839.0	1.2
10	955.4	-380.7	0.3
11	521.6	-144.5	0.4
12	17.4	545.6	0.6
13	381.3	1102.0	0.8
14	157.7	583.9	0.6
15	1024.0	-609.7	0.2

Pantalla P13 (Vanos 6 a 6) F'c= 49Mpa

Cortante de Diseño =683.7 ton En el vano 6 Combinación 15 [vu=5.70Mpa Øvc=1.03Mpa Øvs=5.36Mpa]
Esfuerzo flexión=21.08Mpa En el vano 6 Combinación 9 [Momento =773.2 ton-m Axial =1306.0 ton C=0.91m]

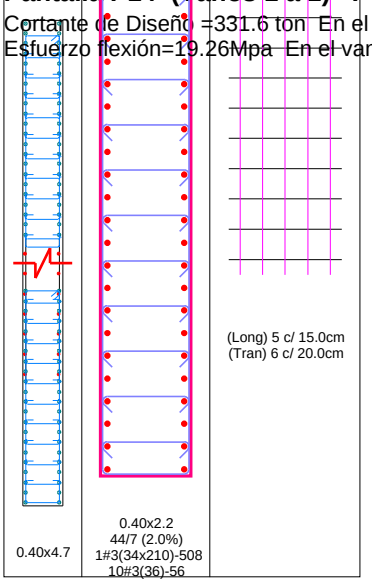


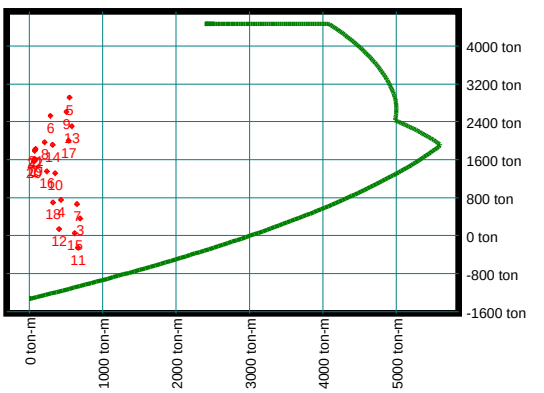


N	Mu	Pu	C
1	60.3	743.6	0.8
2	67.5	803.2	0.8
3	455.0	441.7	0.7
4	17.2	754.5	0.8
5	331.9	1040.0	0.8
6	140.0	727.5	0.7
7	896.3	-179.2	0.5
8	678.8	1220.0	0.9
9	773.2	1306.0	0.9
10	802.0	261.8	0.6
11	432.2	178.7	0.6
12	39.7	491.5	0.7
13	354.7	777.4	0.8
14	117.2	464.6	0.7
15	873.5	-222.2	0.5

Pantalla P14 (Vanos 1 a 1) F'c= 49Mpa

Cortante de Diseño =331.6 ton En el vano 1 Combinación 11 [vu=2.21Mpa Øvc=1.06Mpa Øvs=2.24Mpa]
Esfuerzo flexión=19.26Mpa En el vano 1 Combinación 5 [Momento =551.9 ton-m Axial =2914.0 ton C=2.67m]





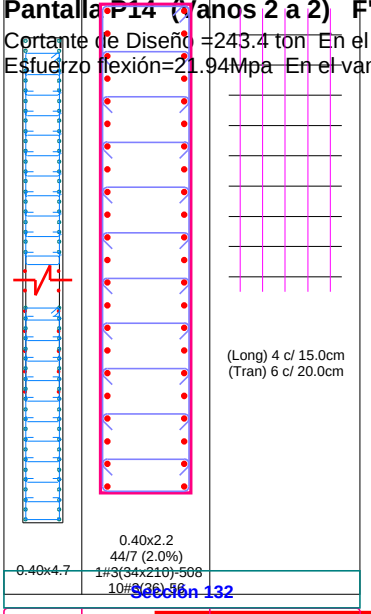
N	Mu	Pu	C
1	66.9	1590.0	1.6
2	79.6	1801.0	1.7
3	694.5	360.3	0.9
4	435.4	749.6	1.1
5	551.9	2914.0	2.7
6	292.9	2524.0	2.4
7	651.4	663.2	1.1
8	213.1	1962.0	1.8
9	508.9	2611.0	2.5
10	355.6	1311.0	1.4
11	666.2	-254.4	0.6
12	407.2	134.8	0.8
13	580.2	2299.0	2.2
14	321.2	1910.0	1.7
15	623.2	48.4	0.7

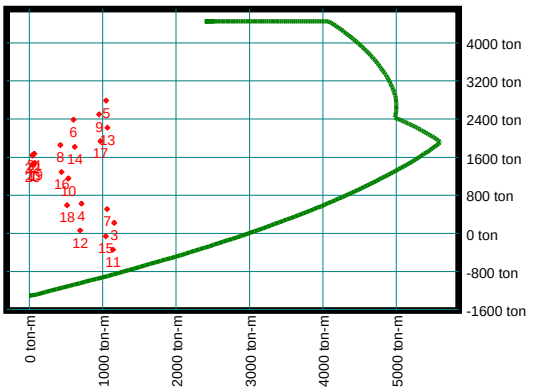
Sección 136

Sección	Elemento Borde	Mallas de refuerzo

Pantalla P14 (Vanos 2 a 2) F'c= 49Mpa

Cortante de Diseño =243.4 ton En el vano 2 Combinación 11 [vu=1.62Mpa Øvc=0.73Mpa Øvs=2.24Mpa]
Esfuerzo flexión=21.94Mpa En el vano 2 Combinación 5 [Momento =1049.0 ton-m Axial =2784.0 ton C=2.59m]





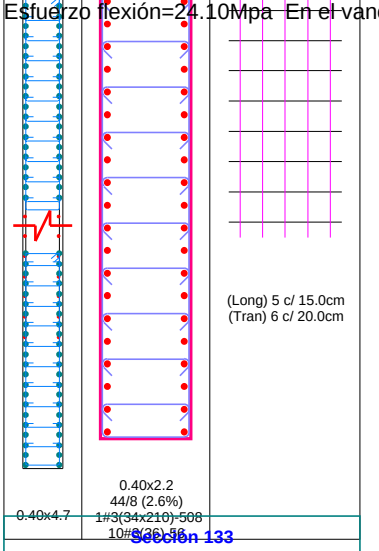
N	Mu	Pu	C
1	57.5	1457.0	1.5
2	56.3	1655.0	1.6
3	1156.0	221.4	0.8
4	711.0	624.0	1.0
5	1049.0	2784.0	2.6
6	603.7	2381.0	2.3
7	1061.0	507.3	1.0
8	426.0	1851.0	1.7
9	953.3	2498.0	2.4
10	533.3	1154.0	1.3
11	1140.0	-344.7	0.5
12	694.3	57.9	0.7
13	1066.0	2218.0	2.1
14	620.4	1815.0	1.7
15	1044.0	-58.9	0.7

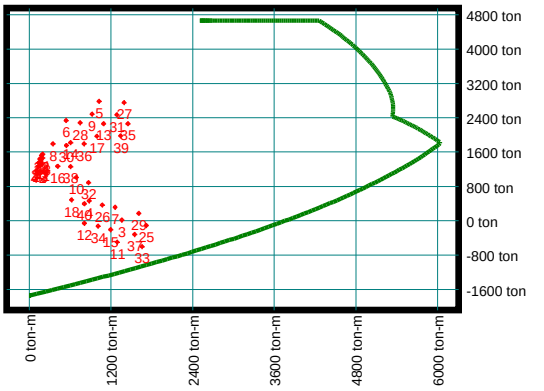
Sección 132

Sección	Elemento Borde	Mallas de refuerzo

Pantalla P14 (Vanos 3 a 4) F'c= 49Mpa

Cortante de Diseño =262.7 ton En el vano 3 Combinación 11 [vu=1.75Mpa Øvc=0.49Mpa Øvs=2.24Mpa]
Esfuerzo flexión=24.10Mpa En el vano 4 Combinación 5 [Momento =1395.0 ton-m Axial =2748.0 ton C=2.53m]





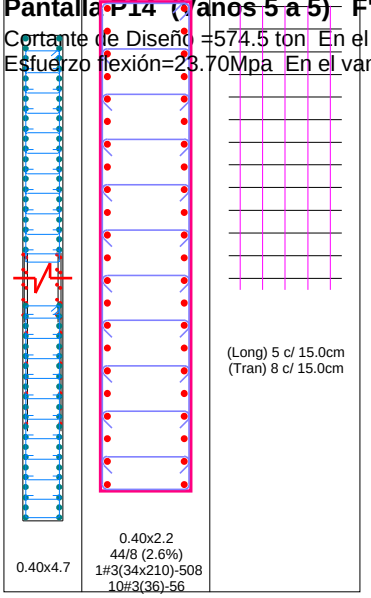
N	Mu	Pu	C
1	157.0	1365.0	1.5
2	189.9	1532.0	1.6
3	1364.0	17.0	0.8
4	880.0	459.1	1.1
5	1026.0	2776.0	2.6
6	541.7	2334.0	2.2
7	1262.0	311.6	1.0
8	353.0	1787.0	1.7
9	923.9	2482.0	2.4
10	691.3	1006.0	1.3
11	1296.0	-502.0	0.6
12	811.8	-59.8	0.8
13	1094.0	2257.0	2.2
14	609.9	1815.0	1.7
15	1194.0	-207.4	0.7

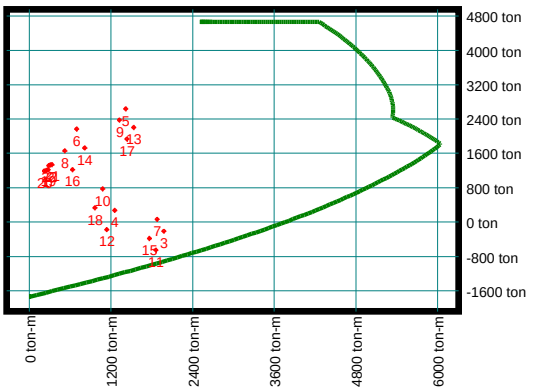
Sección 133

Sección	Elemento Borde	Mallas de refuerzo

Pantalla P14 (Vanos 5 a 5) F'c= 49Mpa

Cortante de Diseño =574.5 ton En el vano 5 Combinación 11 [vu=3.82Mpa Øvc=0.66Mpa Øvs=5.36Mpa]
Esfuerzo flexión=23.70Mpa En el vano 5 Combinación 5 [Momento =1420.0 ton-m Axial =2641.0 ton C=2.47m]





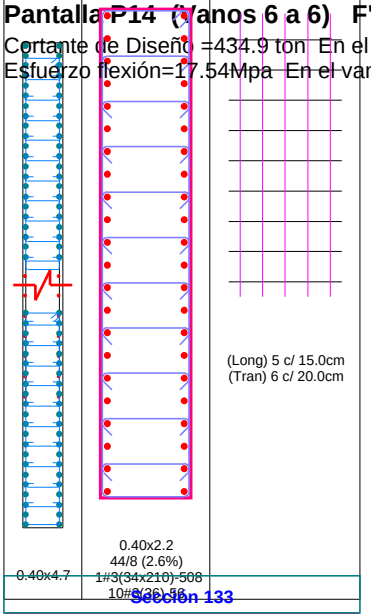
N	Mu	Pu	C
1	253.3	1201.0	1.4
2	314.6	1325.0	1.5
3	1977.0	-212.0	0.7
4	1256.0	266.6	1.0
5	1420.0	2641.0	2.5
6	700.3	2162.0	2.1
7	1881.0	60.1	0.9
8	522.9	1658.0	1.7
9	1325.0	2369.0	2.3
10	1079.0	771.4	1.2
11	1861.0	-654.2	0.5
12	1141.0	-175.6	0.7
13	1536.0	2199.0	2.1
14	815.5	1720.0	1.7
15	1766.0	-382.1	0.6

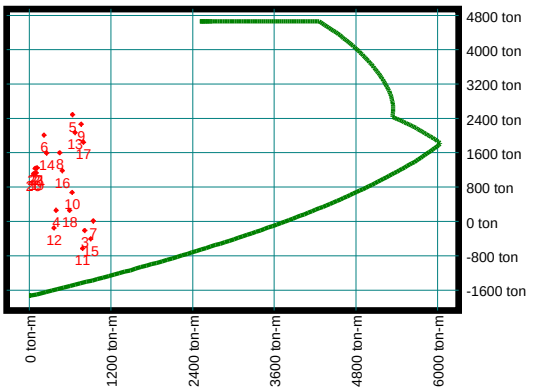
Sección 132

Sección	Elemento Borde	Mallas de refuerzo

Pantalla P14 (Vanos 6 a 6) F'c= 49Mpa

Cortante de Diseño =434.9 ton En el vano 6 Combinación 11 [vu=2.89Mpa Øvc=0.68Mpa Øvs=2.24Mpa]
Esfuerzo flexión=17.54Mpa En el vano 6 Combinación 5 [Momento =637.8 ton-m Axial =2481.0 ton C=2.37m]





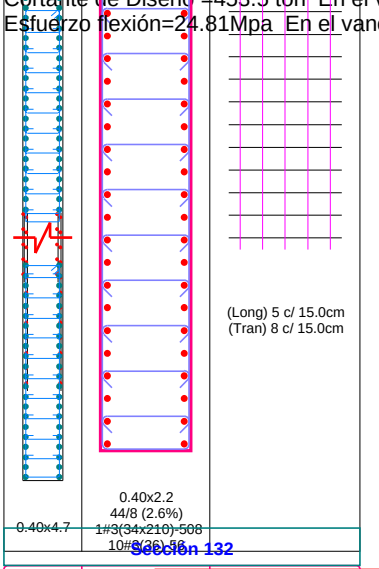
N	Mu	Pu	C
1	83.6	1117.0	1.4
2	100.7	1237.0	1.4
3	817.4	-216.5	0.7
4	400.2	258.8	1.0
5	637.8	2481.0	2.4
6	220.6	2006.0	1.9
7	941.5	6.1	0.8
8	450.9	1593.0	1.6
9	761.9	2258.0	2.2
10	630.5	671.9	1.2
11	781.3	-630.5	0.5
12	364.2	-155.1	0.8
13	673.9	2067.0	2.0
14	256.7	1592.0	1.6
15	905.4	-407.8	0.6

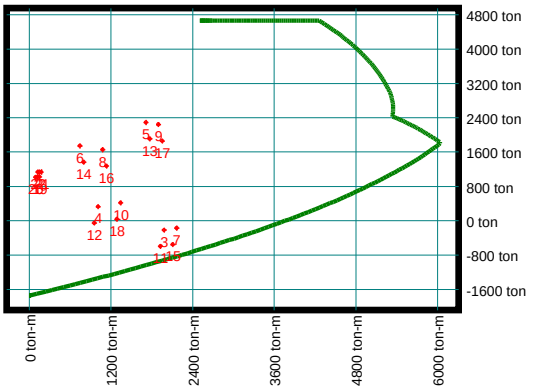
Sección 133

Sección	Elemento Borde	Mallas de refuerzo

Pantalla P14 (Vanos 7 a 7) F'c= 49Mpa

Cortante de Diseño =453.5 ton En el vano 7 Combinación 11 [vu=3.02Mpa Øvc=0.72Mpa Øvs=5.36Mpa]
Esfuerzo flexión=24.81Mpa En el vano 7 Combinación 9 [Momento =1898.0 ton-m Axial =2238.0 ton C=2.13m]





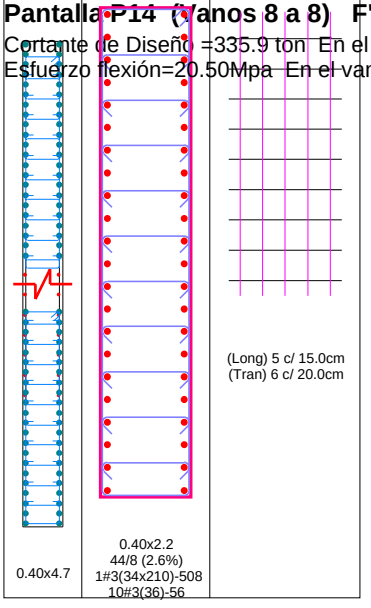
N	Mu	Pu	C
1	120.4	1017.0	1.3
2	151.7	1132.0	1.4
3	1985.0	-217.0	0.7
4	1013.0	328.4	1.0
5	1718.0	2286.0	2.2
6	745.6	1740.0	1.7
7	2165.0	-169.1	0.8
8	1080.0	1651.0	1.7
9	1898.0	2238.0	2.1
10	1347.0	417.2	1.0
11	1929.0	-597.6	0.5
12	956.5	-52.2	0.8
13	1774.0	1905.0	1.8
14	801.7	1360.0	1.5
15	2109.0	-549.7	0.6

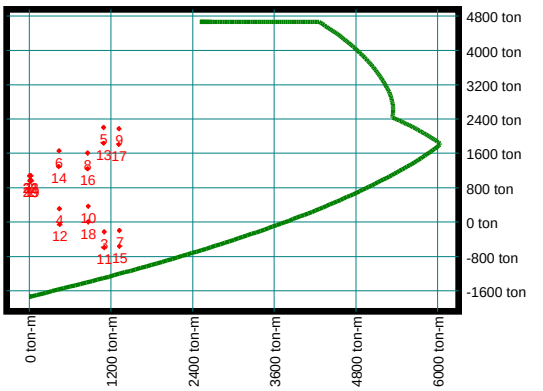
Sección 132

Sección	Elemento Borde	Mallas de refuerzo

Pantalla P14 (Vanos 8 a 8) F'c= 49Mpa

Cortante de Diseño =335.9 ton En el vano 8 Combinación 11 [vu=2.23Mpa Øvc=0.51Mpa Øvs=2.24Mpa]
Esfuerzo flexión=20.50Mpa En el vano 8 Combinación 9 [Momento =1320.0 ton-m Axial =2166.0 ton C=2.07m]





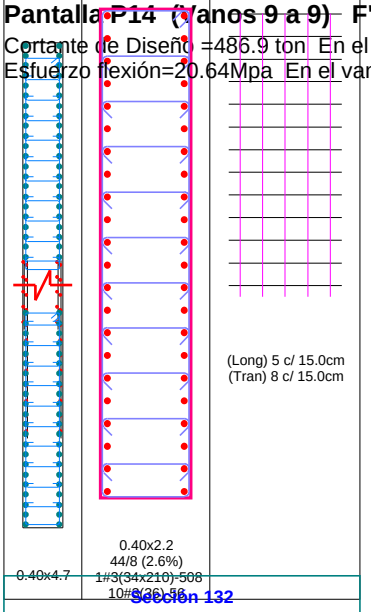
N	Mu	Pu	C
1	7.6	962.4	1.3
2	2.8	1076.0	1.4
3	1102.0	-232.6	0.7
4	446.9	307.3	1.0
5	1094.0	2196.0	2.1
6	438.5	1656.0	1.7
7	1328.0	-202.2	0.7
8	858.4	1600.0	1.6
9	1320.0	2166.0	2.1
10	866.9	363.7	1.0
11	1103.0	-595.8	0.5
12	447.6	-55.8	0.8
13	1093.0	1833.0	1.8
14	437.8	1293.0	1.5
15	1329.0	-565.4	0.6

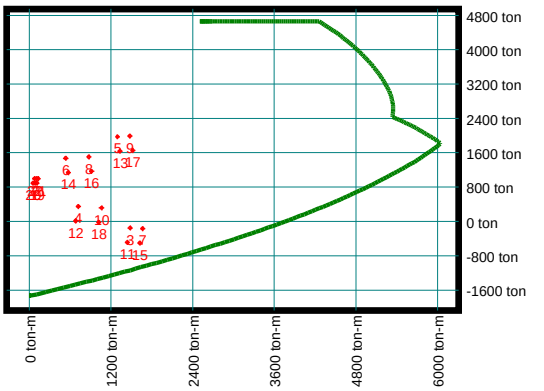
Sección 133

Sección	Elemento Borde	Mallas de refuerzo

Pantalla P14 (Vanos 9 a 9) F'c= 49Mpa

Cortante de Diseño =486.9 ton En el vano 9 Combinación 11 [vu=3.24Mpa Øvc=0.83Mpa Øvs=5.36Mpa]
Esfuerzo flexión=20.64Mpa En el vano 9 Combinación 9 [Momento =1483.0 ton-m Axial =1985.0 ton C=1.90m]





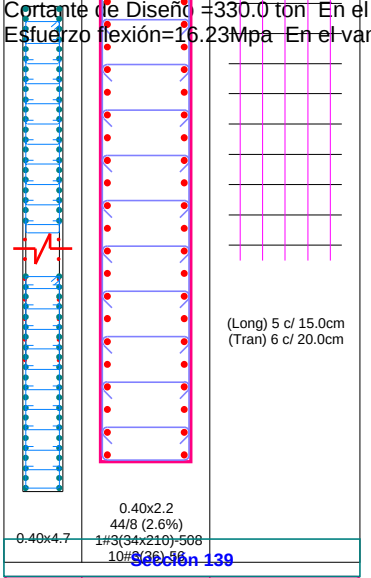
N	Mu	Pu	C
1	83.0	891.3	1.3
2	105.3	993.6	1.3
3	1484.0	-152.7	0.8
4	721.9	347.7	1.0
5	1299.0	1968.0	1.9
6	536.8	1467.0	1.6
7	1668.0	-170.3	0.8
8	877.2	1500.0	1.6
9	1483.0	1985.0	1.9
10	1062.0	315.1	1.0
11	1445.0	-487.2	0.6
12	682.7	13.1	0.8
13	1338.0	1633.0	1.6
14	576.0	1133.0	1.4
15	1629.0	-504.8	0.6

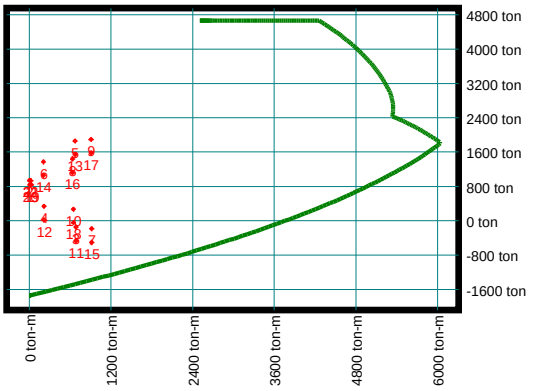
Sección 132

Sección	Elemento Borde	Mallas de refuerzo

Pantalla P14 (Vanos 10 a 10) F'c= 49Mpa

Cortante de Diseño =330.0 ton En el vano 10 Combinación 11 [vu=2.20Mpa Øvc=0.85Mpa Øvs=2.24Mpa]
Esfuerzo flexión=16.23Mpa En el vano 10 Combinación 9 [Momento =907.1 ton-m Axial =1891.0 ton C=1.81m]





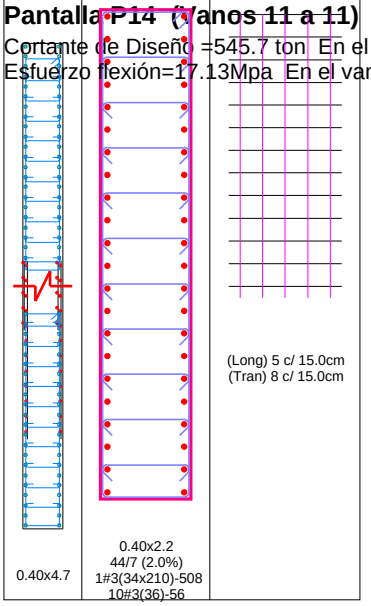
N	Mu	Pu	C
1	8.2	833.7	1.2
2	4.8	934.3	1.3
3	687.2	-152.1	0.8
4	220.7	334.1	1.0
5	675.8	1856.0	1.8
6	209.4	1370.0	1.5
7	918.5	-187.4	0.7
8	638.5	1435.0	1.5
9	907.1	1891.0	1.8
10	649.9	268.6	1.0
11	686.8	-468.0	0.6
12	220.3	18.1	0.8
13	676.2	1540.0	1.6
14	209.7	1054.0	1.3
15	918.1	-503.3	0.6

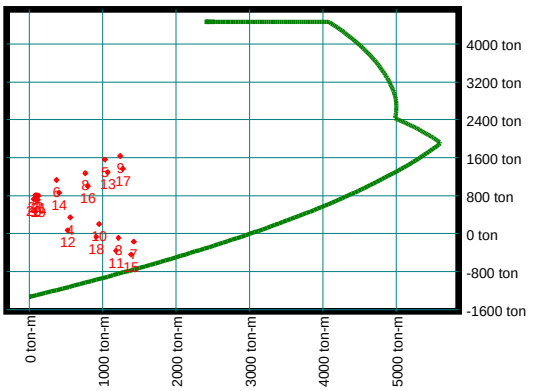
Sección 139

Sección	Elemento Borde	Mallas de refuerzo

Pantalla P14 (Vanos 11 a 11) F'c= 49Mpa

Cortante de Diseño =545.7 ton En el vano 11 Combinación 15 [vu=3.63Mpa Øvc=0.87Mpa Øvs=5.36Mpa]
Esfuerzo flexión=17.13Mpa En el vano 11 Combinación 9 [Momento =1241.0 ton-m Axial =1634.0 ton C=1.60m]





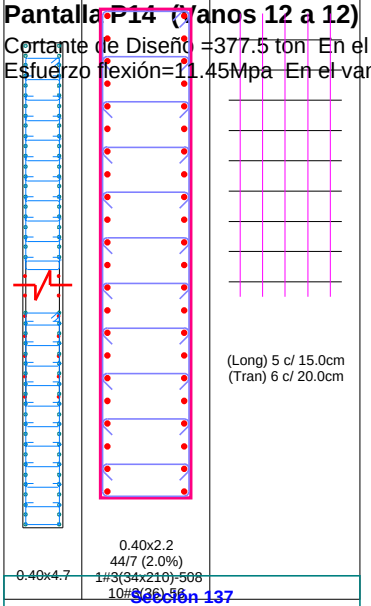
N	Mu	Pu	C
1	88.6	718.8	1.1
2	103.6	802.2	1.1
3	1217.0	-93.3	0.7
4	560.3	337.4	0.9
5	1030.0	1558.0	1.5
6	373.8	1127.0	1.3
7	1427.0	-169.3	0.6
8	764.1	1268.0	1.4
9	1241.0	1634.0	1.6
10	950.6	196.4	0.8
11	1180.0	-363.6	0.5
12	524.0	67.1	0.7
13	1067.0	1288.0	1.4
14	410.1	857.1	1.2
15	1391.0	-439.6	0.5

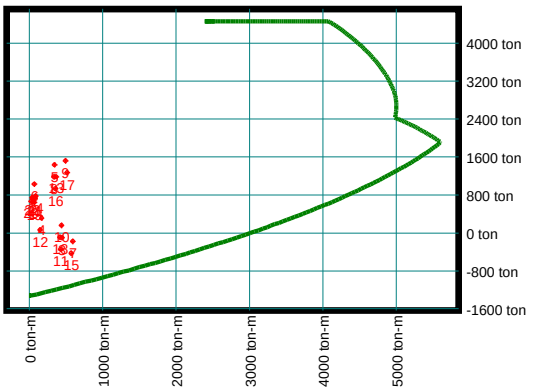
Sección 130

Sección	Elemento Borde	Mallas de refuerzo

Pantalla P14 (Vanos 12 a 12) F'c= 49Mpa

Cortante de Diseño =377.5 ton En el vano 12 Combinación 15 [vu=2.51Mpa Øvc=0.89Mpa Øvs=2.24Mpa]
Esfuerzo flexión=11.45Mpa En el vano 12 Combinación 9 [Momento =495.3 ton-m Axial =1519.0 ton C=1.53m]





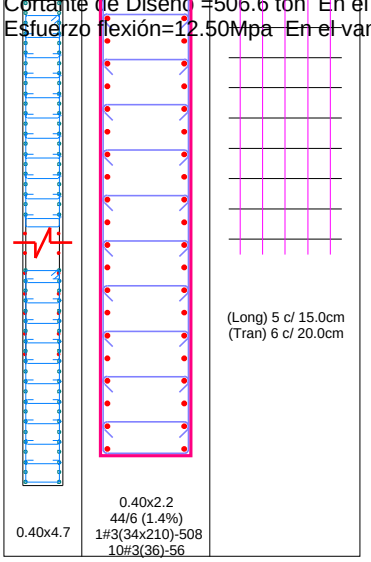
N	Mu	Pu	C
1	46.5	655.2	1.1
2	56.3	735.0	1.1
3	448.5	-95.3	0.7
4	168.0	312.6	0.9
5	348.2	1435.0	1.5
6	67.7	1027.0	1.3
7	595.6	-179.0	0.6
8	340.7	1183.0	1.3
9	495.3	1519.0	1.5
10	440.9	157.3	0.8
11	428.3	-344.1	0.5
12	147.8	63.9	0.7
13	368.5	1186.0	1.3
14	88.0	778.5	1.1
15	575.4	-427.8	0.5

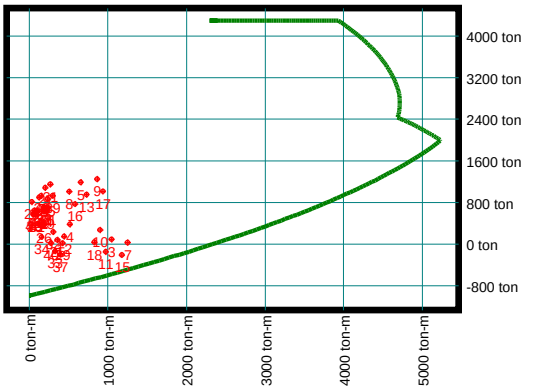
Sección 137

Sección	Elemento Borde	Mallas de refuerzo

Pantalla P14 (Vanos 13 a 14) F'c= 49Mpa

Cortante de Diseño =506.6 ton En el vano 13 Combinación 15 [vu=3.37Mpa Øvc=1.11Mpa Øvs=2.24Mpa]
Esfuerzo flexión=12.50Mpa En el vano 13 Combinación 9 [Momento =862.5 ton-m Axial =1247.0 ton C=1.30m]





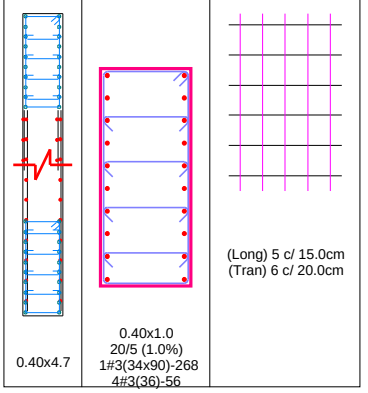
N	Mu	Pu	C
1	190.4	624.9	0.9
2	214.5	699.5	1.0
3	1046.0	89.4	0.6
4	517.6	382.2	0.8
5	655.6	1187.0	1.3
6	127.1	893.9	1.1
7	1253.0	28.8	0.6
8	511.0	1006.0	1.2
9	862.5	1247.0	1.3
10	901.4	269.8	0.7
11	973.2	-147.0	0.5
12	444.7	145.9	0.7
13	728.4	950.4	1.1
14	200.0	657.5	1.0
15	1180.0	-207.5	0.4

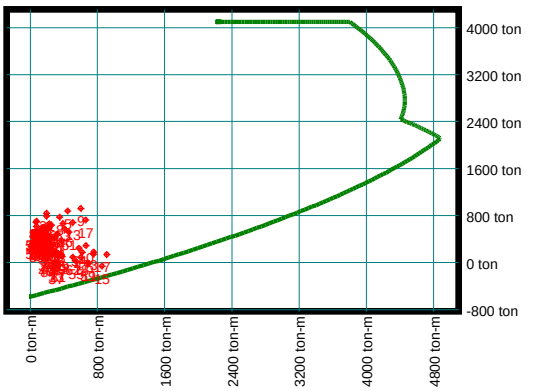
Pantalla P14 (Vanos 15 a 18) F'c= 49Mpa

Cortante de Diseño =442.8 ton En el vano 15 Combinación 15 [vu=2.95Mpa Øvc=1.25Mpa Øvs=2.24Mpa]
Esfuerzo flexión=9.01Mpa En el vano 15 Combinación 9 [Momento =603.9 ton-m Axial =921.6 ton C=0.94m]

Sección 145

Sección	Elemento Borde	Mallas de refuerzo

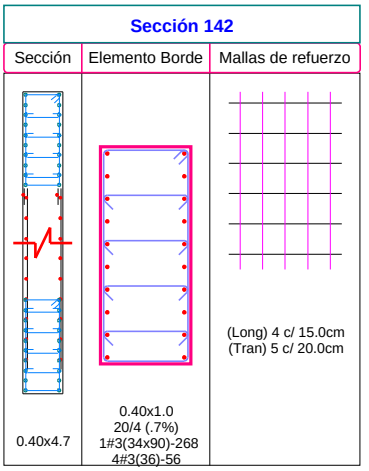


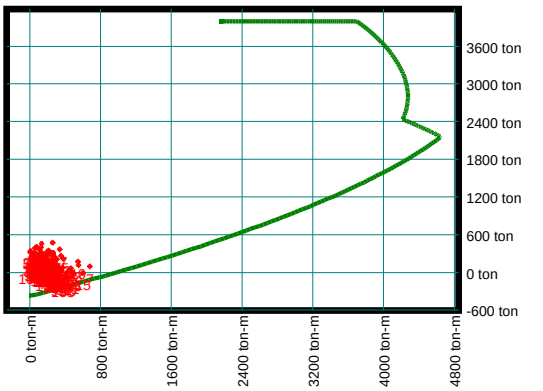


N	Mu	Pu	C
1	148.9	514.4	0.7
2	170.2	579.5	0.7
3	758.0	179.2	0.5
4	378.0	369.9	0.6
5	449.5	875.8	0.9
6	69.5	685.1	0.8
7	912.3	133.5	0.4
8	355.9	770.0	0.8
9	603.9	921.6	0.9
10	664.4	285.0	0.5
11	699.5	-17.6	0.4
12	319.5	173.1	0.5
13	508.0	679.0	0.8
14	128.1	488.3	0.7
15	853.8	-63.4	0.3

Pantalla P14 (Vanos 19 a 23) F'c= 49Mpa

Cortante de Diseño =311.5 ton En el vano 21 Combinación 15 [vu=2.07Mpa Øvc=1.26Mpa Øvs=1.57Mpa]
Esfuerzo flexión=5.14Mpa En el vano 19 Combinación 7 [Momento =680.2 ton-m Axial =97.2 ton C=0.31m]

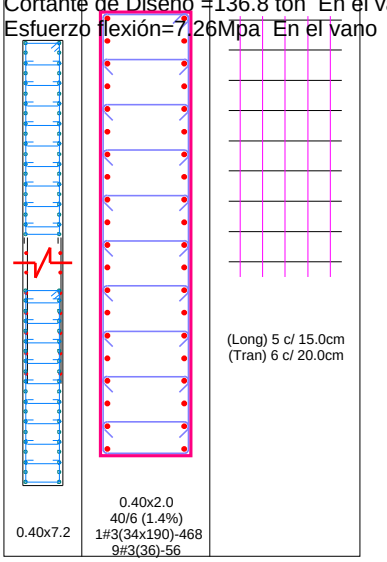


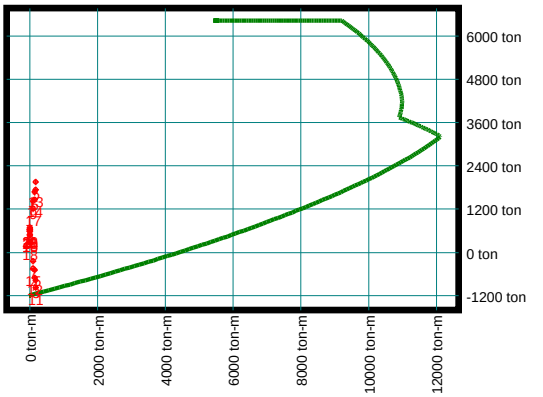


N	Mu	Pu	C
1	200.8	278.0	0.4
2	231.3	314.3	0.5
3	551.8	115.8	0.3
4	309.3	206.4	0.4
5	133.7	455.8	0.6
6	108.9	365.2	0.5
7	680.2	97.2	0.3
8	129.4	399.7	0.5
9	262.1	474.4	0.6
10	547.5	171.9	0.4
11	471.8	8.7	0.3
12	229.2	99.3	0.3
13	213.7	348.7	0.5
14	28.9	258.1	0.4
15	600.2	-9.9	0.2

Pantalla P15 (Vanos 1 a 1) F'c= 49Mpa

Cortante de Diseño =136.8 ton En el vano 1 Combinación 11 [vu=0.59Mpa Øvc=0.68Mpa Øvs=2.24Mpa]
Esfuerzo flexión=7.26Mpa En el vano 1 Combinación 5 [Momento =170.0 ton-m Axial =1948.0 ton C=1.85m]

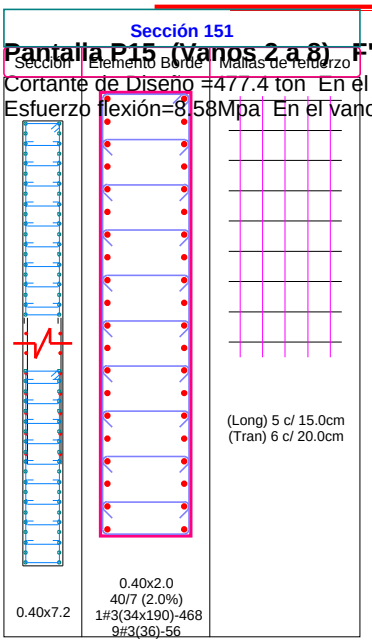


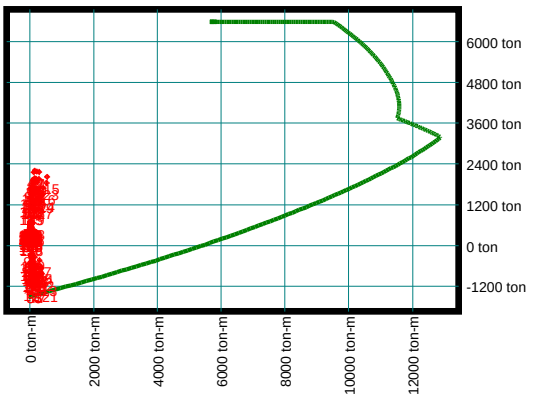


N	Mu	Pu	C
1	0.1	592.0	1.0
2	0.2	638.5	1.0
3	169.8	-769.4	0.2
4	142.8	-491.9	0.4
5	170.0	1948.0	1.9
6	142.9	1671.0	1.7
7	91.9	-239.3	0.5
8	1.7	687.0	1.1
9	92.1	1418.0	1.5
10	1.8	491.8	1.0
11	170.0	-978.2	0.1
12	142.9	-700.7	0.3
13	169.9	1739.0	1.7
14	142.8	1462.0	1.6
15	92.0	-448.1	0.4

Pantalla P15 (Vanos 2 a 8) F'c= 49Mpa

Cortante de Diseño =477.4 ton En el vano 7 Combinación 11 [vu=2.07Mpa Øvc=0.56Mpa Øvs=2.24Mpa]
Esfuerzo flexión=8.58Mpa En el vano 7 Combinación 5 [Momento =546.9 ton-m Axial =2016.0 ton C=1.94m]

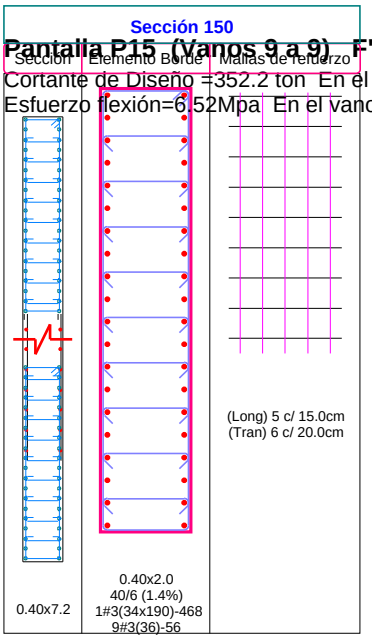


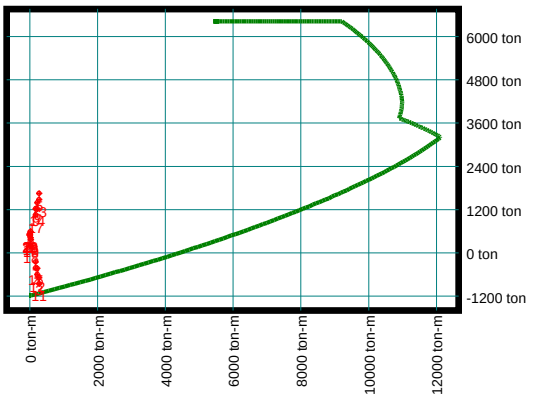


N	Mu	Pu	C
1	49.9	628.9	1.1
2	50.4	682.8	1.2
3	25.5	-897.4	0.3
4	15.8	-595.1	0.5
5	120.4	2155.0	2.0
6	110.8	1853.0	1.8
7	11.0	-287.5	0.6
8	43.2	721.4	1.2
9	84.0	1545.0	1.6
10	51.8	536.4	1.1
11	40.9	-1122.0	0.2
12	31.2	-819.7	0.4
13	105.0	1931.0	1.9
14	95.3	1628.0	1.7
15	4.5	-512.2	0.5

Pantalla P15 (Vanos 9 a 9) F'c= 49Mpa

Cortante de Diseño =352.2 ton En el vano 9 Combinación 11 [vu=1.53Mpa Øvc=0.76Mpa Øvs=2.24Mpa]
Esfuerzo flexión=6.52Mpa En el vano 9 Combinación 5 [Momento =273.7 ton-m Axial =1650.0 ton C=1.67m]

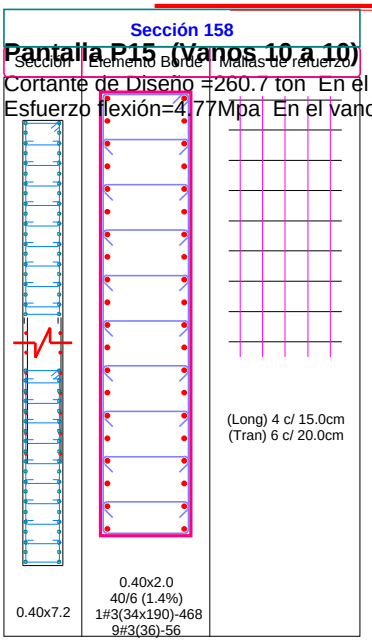


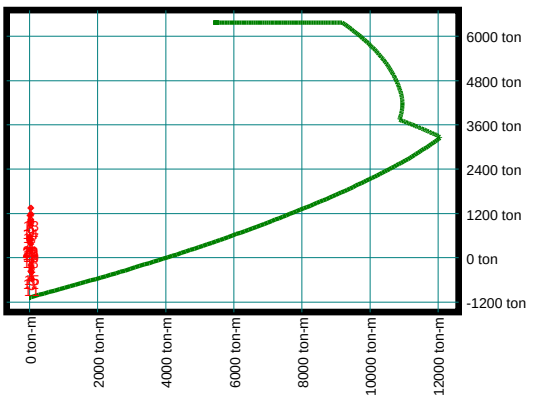


N	Mu	Pu	C
1	1.7	494.8	1.0
2	0.7	524.1	1.0
3	275.6	-676.6	0.3
4	217.9	-422.5	0.4
5	273.7	1650.0	1.7
6	216.0	1396.0	1.5
7	170.9	-247.9	0.5
8	21.7	600.2	1.0
9	169.0	1221.0	1.4
10	23.6	373.0	0.9
11	275.8	-845.1	0.2
12	218.1	-591.0	0.3
13	273.6	1481.0	1.6
14	215.8	1227.0	1.4
15	171.0	-416.4	0.4

Pantalla P15 (Vanos 10 a 10) F'c= 49Mpa

Cortante de Diseño =260.7 ton En el vano 10 Combinación 11 [vu=1.13Mpa Øvc=0.95Mpa Øvs=2.24Mpa]
Esfuerzo flexión=4.77Mpa En el vano 10 Combinación 5 [Momento =33.7 ton-m Axial =1345.0 ton C=1.42m]

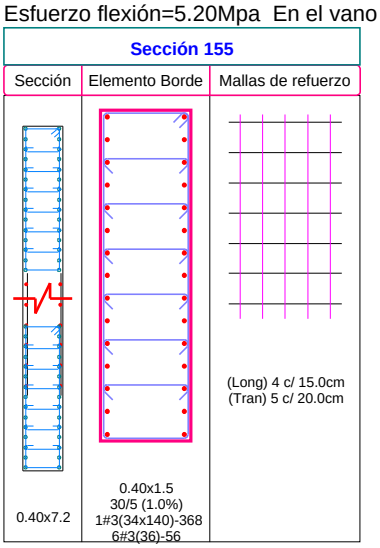


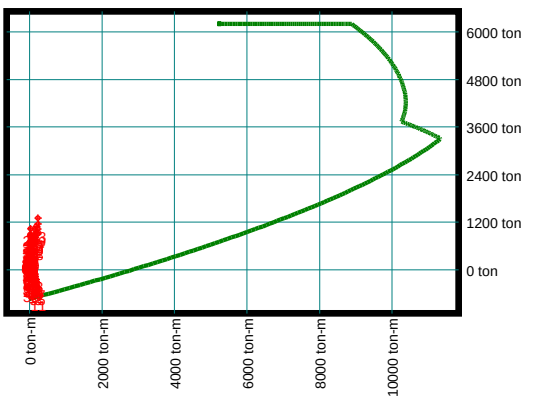


N	Mu	Pu	C
1	11.2	481.7	0.9
2	12.3	511.1	0.9
3	56.3	-396.7	0.4
4	37.1	-197.3	0.5
5	33.7	1345.0	1.4
6	14.5	1146.0	1.3
7	54.1	-89.7	0.6
8	10.2	576.0	1.0
9	31.4	1038.0	1.2
10	32.8	372.5	0.8
11	52.3	-561.4	0.3
12	33.0	-361.9	0.4
13	37.8	1181.0	1.3
14	18.6	981.2	1.2
15	50.0	-254.3	0.5

Pantalla P15 (Vanos 11 a 14) F'c= 49Mpa

Cortante de Diseño =306.8 ton En el vano 11 Combinación 11 [vu=1.33Mpa Øvc=0.92Mpa Øvs=1.57Mpa]
Esfuerzo flexión=5.20Mpa En el vano 11 Combinación 5 [Momento =233.1 ton-m Axial =1303.0 ton C=1.30m]



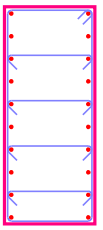
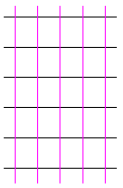


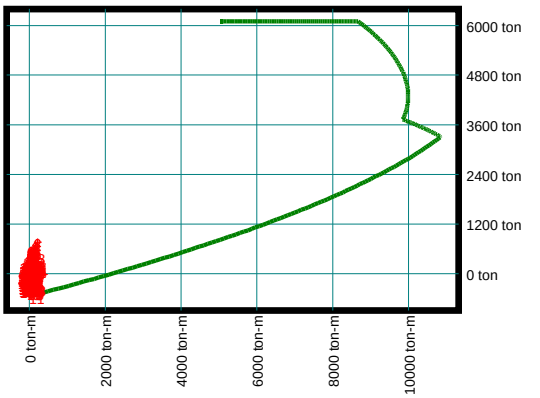
N	Mu	Pu	C
1	1.2	432.2	0.7
2	2.9	461.0	0.7
3	237.5	-449.0	0.2
4	183.7	-237.5	0.3
5	233.1	1303.0	1.3
6	179.4	1092.0	1.1
7	154.4	-156.6	0.4
8	25.1	549.2	0.8
9	150.0	1011.0	1.1
10	29.5	305.0	0.6
11	236.1	-598.2	0.1
12	182.3	-386.7	0.2
13	234.6	1154.0	1.2
14	180.8	942.5	1.0
15	153.0	-305.8	0.3

Pantalla P15 (Vanos 15 a 22) F'c= 49Mpa

Cortante de Diseño =299.4 ton En el vano 15 Combinación 11 [vu=1.30Mpa Øvc=1.13Mpa Øvs=1.57Mpa]
Esfuerzo flexión=3.29Mpa En el vano 15 Combinación 5 [Momento =217.2 ton-m Axial =767.1 ton C=0.89m]

Sección 156

Sección	Elemento Borde	Mallas de refuerzo
 0.40x7.2	 0.40x1.0 20/4 (.7%) 1#3(34x90)-268 4#3(36)-56	 (Long) 4 c/ 15.0cm (Tran) 5 c/ 20.0cm

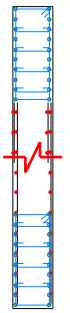
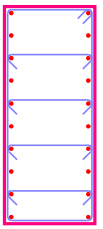
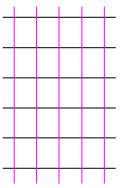


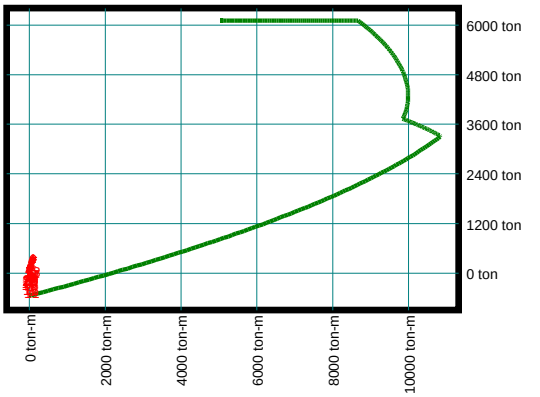
N	Mu	Pu	C
1	14.4	294.6	0.6
2	16.5	315.9	0.6
3	187.3	-182.8	0.2
4	126.2	-26.1	0.3
5	217.2	767.1	0.9
6	156.0	610.4	0.8
7	138.6	-88.2	0.3
8	65.6	434.9	0.7
9	168.4	672.5	0.8
10	35.7	149.4	0.4
11	193.0	-285.6	0.2
12	131.9	-128.9	0.3
13	211.5	664.3	0.8
14	150.3	507.6	0.7
15	144.3	-191.0	0.2

Pantalla P15 (Vanos 23 a 23) F'c= 49Mpa

Cortante de Diseño =150.2 ton En el vano 23 Combinación 11 [vu=0.65Mpa Øvc=1.21Mpa Øvs=2.24Mpa]
Esfuerzo flexión=1.60Mpa En el vano 23 Combinación 5 [Momento =100.0 ton-m Axial =377.2 ton C=0.61m]

Sección 157

Sección	Elemento Borde	Mallas de refuerzo
 0.40x7.2	 0.40x1.0 20/4 (.7%) 1#3(34x90)-268 4#3(36)-56	 (Long) 4 c/ 15.0cm (Tran) 6 c/ 20.0cm

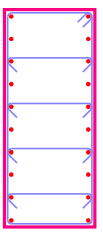
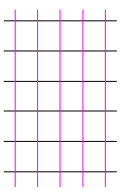


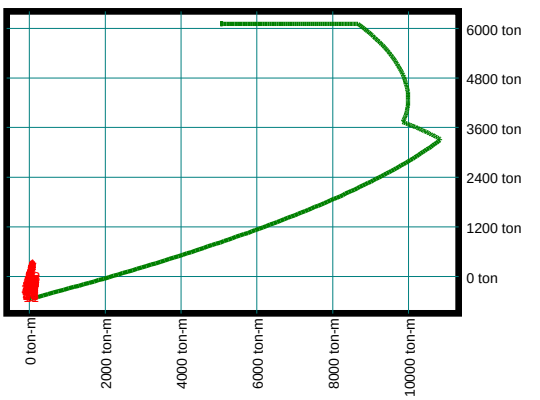
N	Mu	Pu	C
1	20.0	134.7	0.4
2	23.7	139.3	0.4
3	57.5	-116.6	0.3
4	34.0	-42.8	0.3
5	100.0	377.2	0.6
6	76.4	303.5	0.6
7	38.2	-55.7	0.3
8	40.5	190.5	0.5
9	80.6	316.3	0.6
10	2.0	70.1	0.4
11	65.9	-160.4	0.2
12	42.3	-86.6	0.3
13	91.7	333.5	0.6
14	68.1	259.7	0.5
15	46.5	-99.5	0.3

Pantalla P15 (Vanos 24 a 25) F'c= 49Mpa

Cortante de Diseño =.5 ton En el vano 25 Combinación 8 [vu=0.00Mpa Øvc=0.32Mpa Øvs=1.57Mpa]
Esfuerzo flexión=1.35Mpa En el vano 24 Combinación 5 [Momento =83.3 ton-m Axial =318.9 ton C=0.56m]

Sección 156

Sección	Elemento Borde	Mallas de refuerzo
 0.40x7.2	 0.40x1.0 20/4 (.7%) 1#3(34x90)-268 4#3(36)-56	 (Long) 4 c/ 15.0cm (Tran) 5 c/ 20.0cm



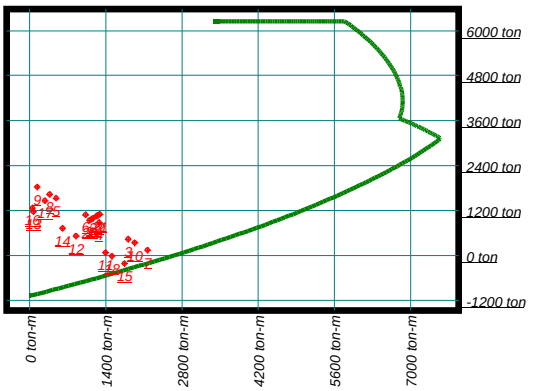
N	Mu	Pu	C
1	20.7	89.3	0.4
2	24.0	87.6	0.4
3	40.0	-152.1	0.3
4	20.4	-78.9	0.3
5	83.3	318.9	0.6
6	63.7	245.7	0.5
7	26.6	-98.4	0.3
8	38.9	146.0	0.4
9	69.9	265.2	0.5
10	4.4	20.8	0.4
11	48.3	-178.1	0.2
12	28.7	-104.9	0.3
13	74.9	292.9	0.6
14	55.3	219.7	0.5
15	35.0	-124.4	0.3

Pantalla P8 (Vanos 1 a 1) F'c= 49Mpa

Cortante de Diseño =404.6 ton En el vano 1 Combinación 7 [vu=1.79Mpa Øvc=1.20Mpa Øvs=0.90Mpa]
Esfuerzo flexión=10.33Mpa En el vano 1 Combinación 7 [Momento =2170.0 ton-m Axial =144.0 ton C=0.49m]

Sección 1

Sección	Elemento Borde	Mallas de refuerzo
.60x4.70	.60x1.56 22/8 (1.2%) 1#3 .54x1.50 L=4.28m 9#3560 L=.76m	(Long) 6150 (Tran) 4150



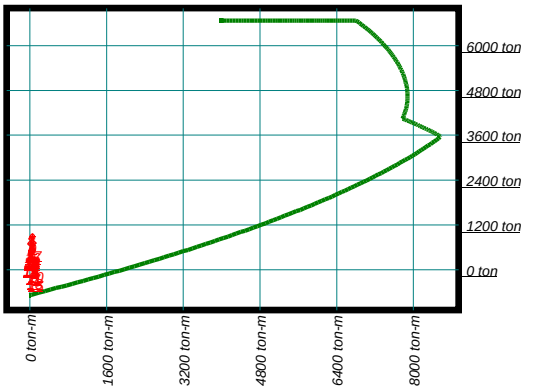
N	Mu	Pu	C
1	1137.0	967.4	0.8
2	1260.0	1074.0	0.9
3	1816.0	434.5	0.6
4	1277.0	878.3	0.8
5	490.3	1530.0	1.1
6	1029.0	1087.0	0.9
7	2170.0	144.0	0.5
8	371.8	1625.0	1.1
9	136.0	1821.0	1.2
10	1935.0	339.4	0.6
11	1394.0	74.0	0.5
12	855.2	517.8	0.6
13	68.2	1170.0	0.9
14	607.1	726.0	0.7
15	1748.0	-216.5	0.3

Pantalla P8 (Vanos 2 a 2) F'c= 49Mpa

Cortante de Diseño =.7 ton En el vano 2 Combinación 12 [vu=0.00Mpa Øvc=0.36Mpa Øvs=0.90Mpa]
Esfuerzo flexión=3.05Mpa En el vano 2 Combinación 9 [Momento =54.8 ton-m Axial =889.8 ton C=0.69m]

Sección 23

Sección	Elemento Borde	Mallas de refuerzo
.60x5.20	.60x1.56 22/6 (.7%) 1#3 .54x1.50 L=4.28m 9#3560 L=.76m	(Long) 5150 (Tran) 4150



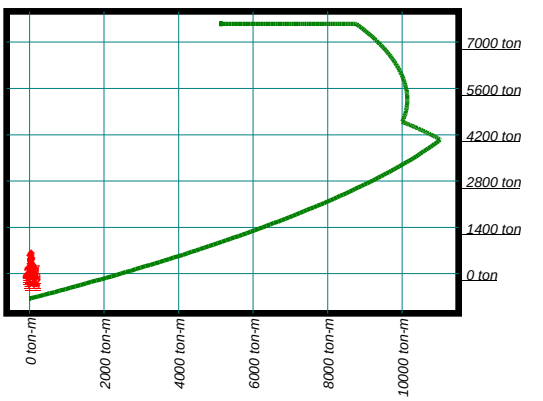
N	Mu	Pu	C
1	37.5	476.0	0.5
2	47.3	532.1	0.5
3	98.2	272.5	0.4
4	45.9	496.6	0.5
5	15.0	698.6	0.6
6	37.3	474.5	0.5
7	138.0	81.3	0.3
8	36.5	829.3	0.7
9	54.8	889.8	0.7
10	119.7	141.8	0.4
11	80.7	93.0	0.3
12	28.5	317.1	0.4
13	32.5	519.0	0.5
14	19.8	294.9	0.4
15	120.5	-98.3	0.3

Pantalla P8 (Vanos 3 a 3) F'c= 49Mpa

Cortante de Diseño =5.3 ton En el vano 3 Combinación 3 [vu=0.02Mpa Øvc=0.98Mpa Øvs=0.90Mpa]
Esfuerzo flexión=1.89Mpa En el vano 3 Combinación 9 [Momento =42.6 ton-m Axial =625.2 ton C=0.62m]

Sección 24

Sección	Elemento Borde	Mallas de refuerzo
.60x5.90	.60x1.56 22/6 (.7%) 1#3 .54x1.50 L=4.28m 9#3560 L=.76m	(Long) 5150 (Tran) 4150



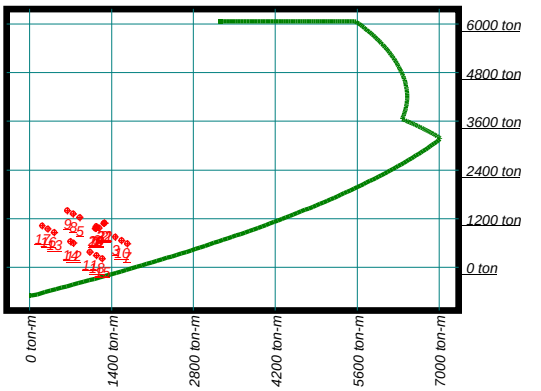
N	Mu	Pu	C
1	23.5	419.7	0.5
2	33.4	453.1	0.5
3	66.9	276.7	0.5
4	27.8	385.2	0.5
5	10.1	559.4	0.6
6	29.1	451.0	0.5
7	99.5	210.9	0.4
8	31.3	573.0	0.6
9	42.6	625.2	0.6
10	88.1	263.1	0.4
11	53.7	128.4	0.4
12	14.5	236.9	0.4
13	23.4	411.2	0.5
14	15.8	302.7	0.5
15	86.2	62.7	0.4

Pantalla P9 (Vanos 1 a 1) F'c= 49Mpa

Cortante de Diseño =567.0 ton En el vano 1 Combinación 22 [vu=2.51Mpa Øvc=2.03Mpa Øvs=0.90Mpa]
Esfuerzo flexión=9.68Mpa En el vano 1 Combinación 21 [Momento =1282.0 ton-m Axial =1092.0 ton C=0.81m]

Sección 2

Sección	Elemento Borde	Mallas de refuerzo
.60x4.70	.60x1.56 22/6 (.7%) 1#3 .54x1.50 L=4.28m 9#3560 L=.76m	(Long) 6150 (Tran) 4150



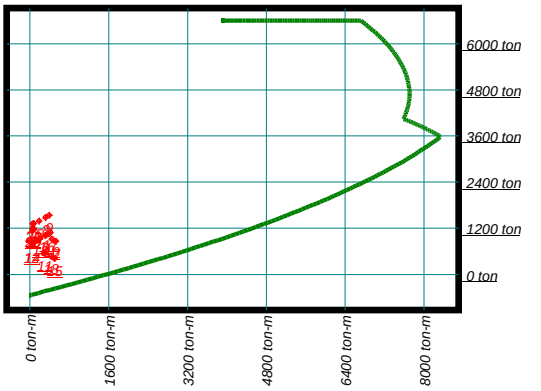
N	Mu	Pu	C
1	1132.0	962.8	0.7
2	1275.0	1087.0	0.8
3	1463.0	748.0	0.6
4	1186.0	968.3	0.7
5	858.8	1230.0	0.9
6	1136.0	1009.0	0.8
7	1673.0	581.9	0.6
8	746.7	1317.0	0.9
9	648.8	1396.0	0.9
10	1575.0	660.2	0.6
11	1030.0	378.1	0.5
12	752.6	598.5	0.6
13	425.7	859.8	0.7
14	703.3	639.4	0.6
15	1240.0	212.0	0.4

Pantalla P9 (Vanos 2 a 2) F'c= 49Mpa

Cortante de Diseño =1.2 ton En el vano 2 Combinación 8 [vu=0.00Mpa Øvc=0.33Mpa Øvs=0.90Mpa]
Esfuerzo flexión=6.40Mpa En el vano 2 Combinación 9 [Momento =398.5 ton-m Axial =1536.0 ton C=0.96m]

Sección 22

Sección	Elemento Borde	Mallas de refuerzo
.60x5.20	.60x1.56 22/5 (.5%) 1#3 .54x1.50 L=4.28m 9#3560 L=.76m	(Long) 5150 (Tran) 4150



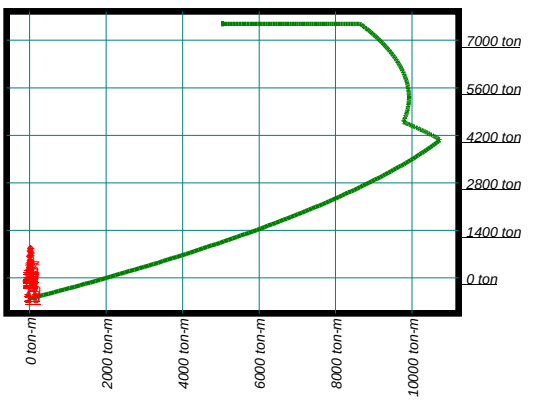
N	Mu	Pu	C
1	68.8	1168.0	0.8
2	69.3	1319.0	0.9
3	318.1	1011.0	0.7
4	62.6	1195.0	0.8
5	187.3	1389.0	0.9
6	68.2	1204.0	0.8
7	529.3	863.4	0.7
8	323.7	1478.0	0.9
9	398.5	1536.0	1.0
10	454.5	921.4	0.7
11	296.9	561.7	0.5
12	41.4	745.8	0.6
13	208.5	939.5	0.7
14	47.0	755.4	0.6
15	508.1	414.3	0.4

Pantalla P9 (Vanos 3 a 3) F'c= 49Mpa

Cortante de Diseño =6.3 ton En el vano 3 Combinación 3 [vu=0.02Mpa Øvc=0.76Mpa Øvs=0.90Mpa]
Esfuerzo flexión=2.51Mpa En el vano 3 Combinación 9 [Momento =27.4 ton-m Axial =860.5 ton C=0.68m]

Sección 21

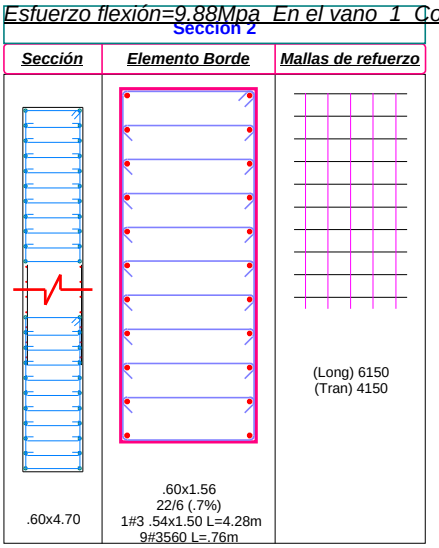
Sección	Elemento Borde	Mallas de refuerzo
.60x5.90	.60x1.56 22/5 (.5%) 1#3 .54x1.50 L=4.28m 9#3560 L=.76m	(Long) 5150 (Tran) 4150

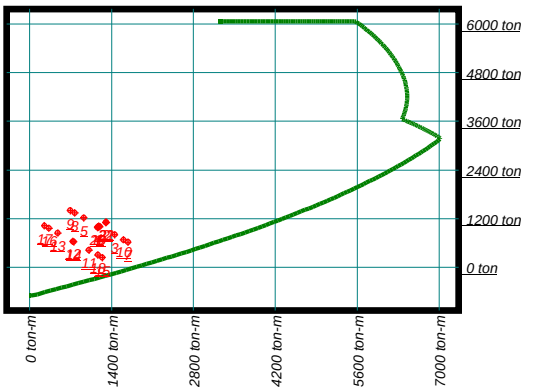


N	Mu	Pu	C
1	24.8	392.7	0.5
2	37.1	419.0	0.5
3	61.9	140.3	0.3
4	29.3	402.4	0.5
5	0.5	635.9	0.6
6	33.0	373.7	0.5
7	89.8	-84.4	0.2
8	18.8	790.6	0.7
9	27.4	860.5	0.7
10	81.1	-14.4	0.3
11	46.6	4.7	0.3
12	14.1	266.8	0.4
13	14.8	500.2	0.5
14	17.7	238.1	0.4
15	74.5	-220.0	0.2

Pantalla P10 (Vanos 1 a 1) F'c= 49Mpa

Cortante de Diseño =574.7 ton En el vano 1 Combinación 22 [vu=2.55Mpa Øvc=2.05Mpa Øvs=0.90Mpa]
Esfuerzo flexión=9.88Mpa En el vano 1 Combinación 21 [Momento =1309.0 ton-m Axial =1114.0 ton C=0.81m]

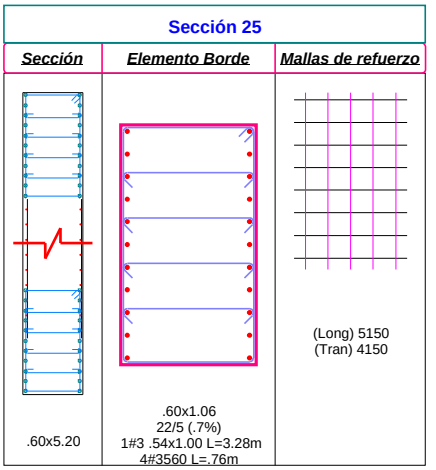


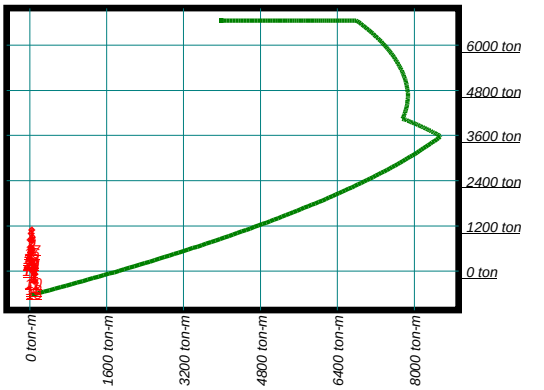


N	Mu	Pu	C
1	1164.0	989.4	0.8
2	1304.0	1111.0	0.8
3	1454.0	802.3	0.7
4	1182.0	1018.0	0.8
5	924.5	1222.0	0.9
6	1197.0	1006.0	0.8
7	1682.0	621.4	0.6
8	773.7	1342.0	0.9
9	696.5	1403.0	0.9
10	1605.0	682.5	0.6
11	1013.0	426.2	0.5
12	741.1	642.0	0.6
13	483.6	845.9	0.7
14	755.8	630.1	0.6
15	1241.0	245.4	0.4

Pantalla P10 (Vanos 2 a 2) F'c= 49Mpa

Cortante de Diseño =.7 ton En el vano 2 Combinación 15 [vu=0.00Mpa Øvc=0.31Mpa Øvs=0.90Mpa]
Esfuerzo flexión=3.65Mpa En el vano 2 Combinación 9 [Momento =40.6 ton-m Axial =1093.0 ton C=0.78m]

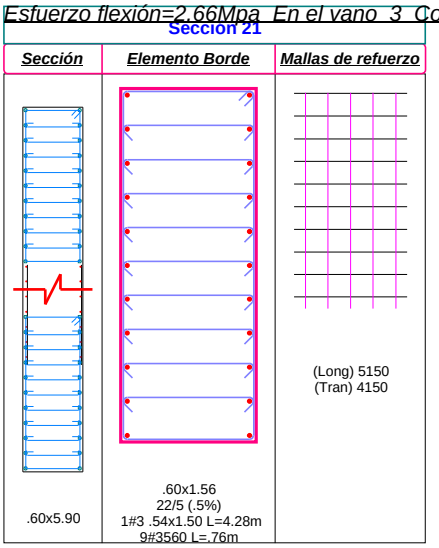


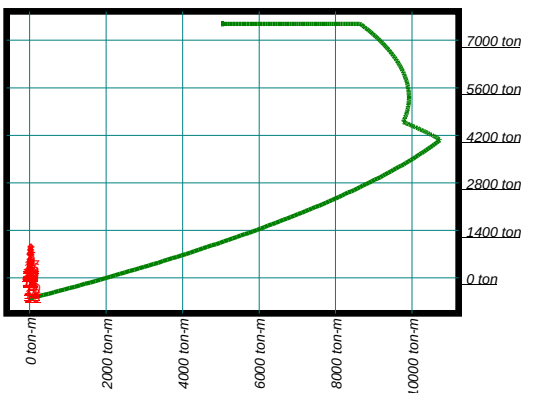


N	Mu	Pu	C
1	27.7	497.5	0.5
2	36.5	555.3	0.5
3	71.5	184.6	0.4
4	31.7	507.0	0.5
5	8.1	829.3	0.7
6	31.7	506.9	0.5
7	104.0	-79.3	0.2
8	28.7	996.7	0.7
9	40.6	1093.0	0.8
10	92.1	17.2	0.3
11	57.6	-2.5	0.3
12	17.8	319.9	0.4
13	22.0	642.1	0.6
14	17.8	319.8	0.4
15	90.1	-266.5	0.2

Pantalla P10 (Vanos 3 a 3) F'c= 49Mpa

Cortante de Diseño =.0 ton En el vano 3 Combinación 3 [vu=0.00Mpa Øvc=0.26Mpa Øvs=0.90Mpa]
Esfuerzo flexión=2.66Mpa En el vano 3 Combinación 9 [Momento =33.5 ton-m Axial =906.7 ton C=0.70m]





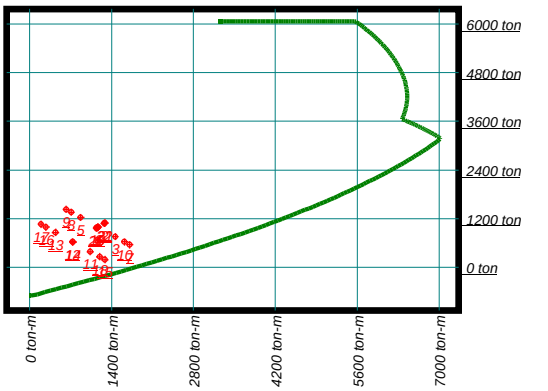
N	Mu	Pu	C
1	20.8	437.0	0.5
2	28.2	477.2	0.5
3	57.0	179.1	0.4
4	25.3	436.0	0.5
5	8.3	698.3	0.6
6	23.3	441.4	0.5
7	82.1	-29.3	0.3
8	23.4	828.1	0.7
9	33.5	906.7	0.7
10	72.1	49.3	0.3
11	46.0	21.3	0.3
12	14.4	278.2	0.4
13	19.2	540.5	0.5
14	12.4	283.6	0.4
15	71.2	-187.1	0.2

Pantalla P11 (Vanos 1 a 1) F'c= 49Mpa

Cortante de Diseño =491.1 ton En el vano 1 Combinación 10 [vu=2.18Mpa Øvc=1.73Mpa Øvs=0.90Mpa]
Esfuerzo flexión=9.74Mpa En el vano 1 Combinación 7 [Momento =1713.0 ton-m Axial =560.2 ton C=0.56m]

Sección 2

Sección	Elemento Borde	Mallas de refuerzo
.60x4.70	.60x1.56 22/6 (.7%) 1#3 .54x1.50 L=4.28m 9#3560 L=.76m	(Long) 6150 (Tran) 4150



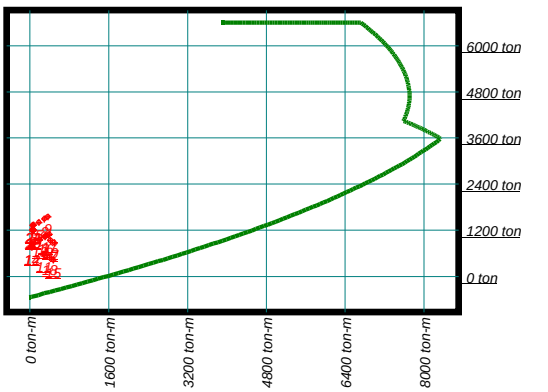
N	Mu	Pu	C
1	1149.0	975.9	0.8
2	1279.0	1089.0	0.8
3	1465.0	758.2	0.7
4	1165.0	997.4	0.8
5	872.7	1231.0	0.9
6	1173.0	991.4	0.8
7	1713.0	560.2	0.6
8	712.3	1359.0	0.9
9	624.7	1429.0	1.0
10	1625.0	630.1	0.6
11	1034.0	391.2	0.5
12	734.7	630.4	0.6
13	442.3	863.6	0.7
14	742.1	624.4	0.6
15	1283.0	193.2	0.4

Pantalla P11 (Vanos 2 a 2) F'c= 49Mpa

Cortante de Diseño =2.7 ton En el vano 2 Combinación 8 [vu=0.01Mpa Øvc=0.32Mpa Øvs=0.90Mpa]
Esfuerzo flexión=6.34Mpa En el vano 2 Combinación 9 [Momento =372.9 ton-m Axial =1549.0 ton C=0.98m]

Sección 22

Sección	Elemento Borde	Mallas de refuerzo
.60x5.20	.60x1.56 22/5 (.5%) 1#3 .54x1.50 L=4.28m 9#3560 L=.76m	(Long) 5150 (Tran) 4150



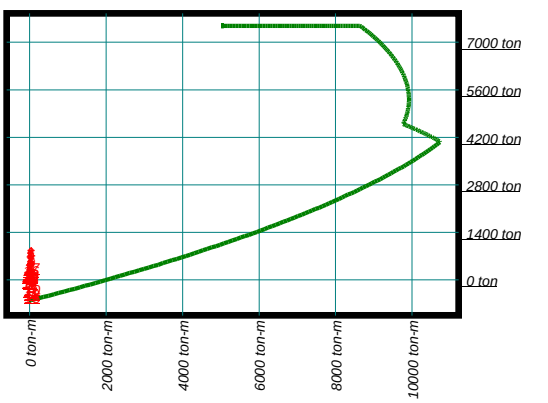
N	Mu	Pu	C
1	64.6	1192.0	0.8
2	67.8	1332.0	0.9
3	309.2	1030.0	0.7
4	70.7	1213.0	0.8
5	182.9	1401.0	0.9
6	55.6	1218.0	0.8
7	499.2	882.1	0.7
8	297.0	1493.0	0.9
9	372.9	1549.0	1.0
10	423.2	938.4	0.7
11	287.6	580.9	0.5
12	49.0	763.9	0.6
13	204.6	951.8	0.7
14	34.0	768.8	0.6
15	477.6	432.7	0.4

Pantalla P11 (Vanos 3 a 3) F'c= 49Mpa

Cortante de Diseño =50.8 ton En el vano 3 Combinación 15 [vu=0.18Mpa Øvc=1.23Mpa Øvs=0.90Mpa]
Esfuerzo flexión=2.54Mpa En el vano 3 Combinación 9 [Momento =37.0 ton-m Axial =863.2 ton C=0.68m]

Sección 21

Sección	Elemento Borde	Mallas de refuerzo
.60x5.90	.60x1.56 22/5 (.5%) 1#3 .54x1.50 L=4.28m 9#3560 L=.76m	(Long) 5150 (Tran) 4150



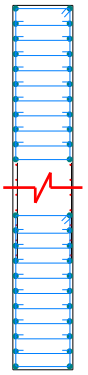
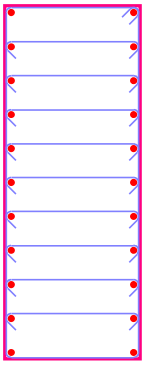
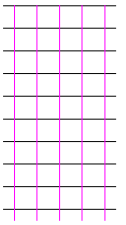
N	Mu	Pu	C
1	14.4	437.1	0.5
2	22.4	465.8	0.5
3	51.7	178.1	0.4
4	21.6	412.2	0.5
5	14.4	685.1	0.6
6	15.7	451.0	0.5
7	74.3	0.0	0.3
8	26.2	781.5	0.6
9	37.0	863.2	0.7
10	63.5	81.7	0.3
11	42.3	27.5	0.3
12	12.2	261.6	0.4
13	23.8	534.5	0.5
14	6.3	300.4	0.4
15	64.9	-150.6	0.2

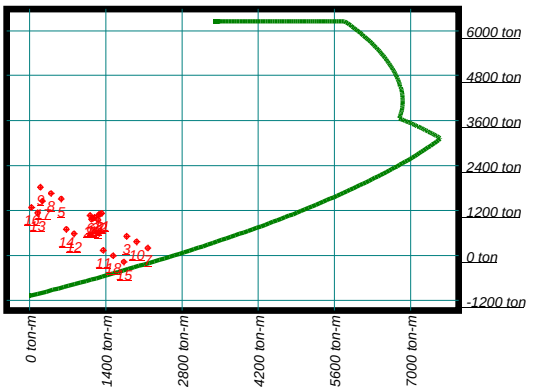
Pantalla P12 (Vanos 1 a 1) F'c= 49Mpa

Cortante de Diseño =347.0 ton En el vano 1 Combinación 7 [vu=1.54Mpa Øvc=1.02Mpa Øvs=0.90Mpa]

Esfuerzo flexión=10.54Mpa En el vano 1 Combinación 7 [Momento =2173.0 ton-m Axial =197.2 ton C=0.51m]

Sección 1

Sección	Elemento Borde	Mallas de refuerzo
 .60x4.70	 .60x1.56 22/8 (1.2%) 1#3 .54x1.50 L=4.28m 9#3560 L=.76m	 (Long) 6150 (Tran) 4150



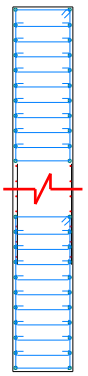
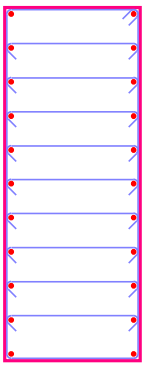
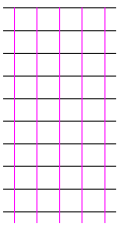
N	Mu	Pu	C
1	1165.0	990.7	0.8
2	1297.0	1104.0	0.9
3	1788.0	511.3	0.6
4	1257.0	947.3	0.8
5	582.1	1506.0	1.0
6	1113.0	1070.0	0.9
7	2173.0	197.2	0.5
8	399.6	1653.0	1.1
9	197.5	1820.0	1.2
10	1971.0	364.5	0.6
11	1352.0	139.7	0.5
12	820.9	575.7	0.7
13	146.3	1134.0	0.9
14	677.5	698.1	0.7
15	1737.0	-174.4	0.4

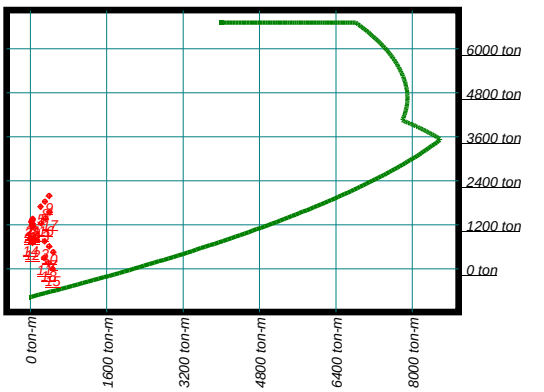
Pantalla P12 (Vanos 2 a 2) F'c= 49Mpa

Cortante de Diseño =16.5 ton En el vano 2 Combinación 5 [vu=0.07Mpa Øvc=2.33Mpa Øvs=0.90Mpa]

Esfuerzo flexión=7.86Mpa En el vano 2 Combinación 9 [Momento =401.0 ton-m Axial =1989.0 ton C=1.23m]

Sección 5

Sección	Elemento Borde	Mallas de refuerzo
 .60x5.20	 .60x1.56 22/6 (.7%) 1#3 .54x1.50 L=4.28m 9#3560 L=.76m	 (Long) 6150 (Tran) 4150



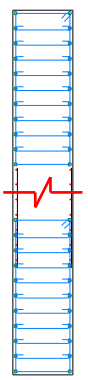
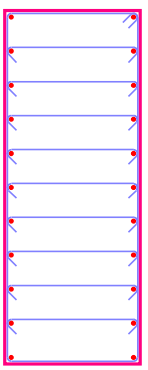
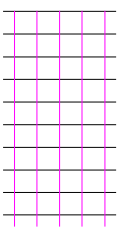
N	Mu	Pu	C
1	45.3	1199.0	0.9
2	48.2	1337.0	0.9
3	309.0	750.5	0.7
4	67.8	1163.0	0.9
5	219.7	1691.0	1.1
6	21.5	1278.0	0.9
7	490.3	452.9	0.5
8	314.9	1831.0	1.2
9	401.0	1989.0	1.2
10	404.2	611.1	0.6
11	293.5	300.5	0.5
12	52.3	713.2	0.7
13	235.2	1241.0	0.9
14	6.0	828.4	0.7
15	474.8	2.9	0.3

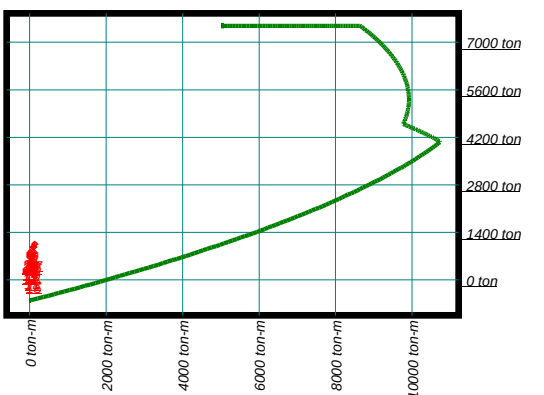
Pantalla P12 (Vanos 3 a 3) F'c= 49Mpa

Cortante de Diseño =245.5 ton En el vano 3 Combinación 15 [vu=0.87Mpa Øvc=1.39Mpa Øvs=0.90Mpa]

Esfuerzo flexión=3.36Mpa En el vano 3 Combinación 9 [Momento =135.6 ton-m Axial =1051.0 ton C=0.78m]

Sección 21

Sección	Elemento Borde	Mallas de refuerzo
 .60x5.90	 .60x1.56 22/5 (.5%) 1#3 .54x1.50 L=4.28m 9#3560 L=.76m	 (Long) 5150 (Tran) 4150



N	Mu	Pu	C
1	12.6	729.7	0.6
2	19.2	790.5	0.7
3	61.8	504.5	0.5
4	1.5	672.4	0.6
5	93.9	952.7	0.7
6	30.6	784.8	0.7
7	103.6	406.3	0.5
8	108.0	966.9	0.7
9	135.6	1051.0	0.8
10	75.9	490.3	0.5
11	69.8	245.0	0.4
12	6.4	412.9	0.5
13	86.0	693.2	0.6
14	22.6	525.3	0.5
15	111.5	146.8	0.3

V100/N-1.05

B=1.00 H=0.60 L=6.50			B=1.00 H=0.60 L=11.20			B=1.00 H=0.60 L=11.20		
Mu=-7.84		Mu=-5.32	Mu=-7.05		Mu=-6.29	Mu=-8.39		Mu=-7.33
As=1815.00		As=1815.00	As=1815.00		As=1815.00	As=1815.00		As=1815.00
Mu=4.89	Mu=1.96	Mu=5.48	Mu=5.05	Mu=1.85	Mu=7.38	Mu=5.63	Mu=2.10	Mu=7.56
As=1815.00	As=1815.00	As=1815.00	As=1815.00	As=1815.00	As=1815.00	As=1815.00	As=1815.00	As=1815.00
Vu=-12.06		Vu=6.16	Vu=-6.60		Vu=5.57	Vu=-7.37		Vu=6.54

B=1.00 H=0.60 L=11.20			B=1.00 H=0.60 L=11.20			B=1.00 H=0.60 L=9.80		
Mu=-8.58		Mu=-8.03	Mu=-8.20		Mu=-6.68	Mu=-6.89		Mu=-6.61
As=1815.00		As=1815.00	As=1815.00		As=1815.00	As=1815.00		As=1815.00
Mu=6.69	Mu=2.14	Mu=7.36	Mu=7.20	Mu=2.05	Mu=6.16	Mu=5.82	Mu=5.43	Mu=1.72
As=1815.00	As=1815.00	As=1815.00	As=1815.00	As=1815.00	As=1815.00	As=1815.00	As=1815.00	As=1815.00
Vu=-7.52		Vu=7.08	Vu=-7.23		Vu=6.24	Vu=-6.11		Vu=5.90

B=1.00 H=0.60 L=7.17			B=1.00 H=0.60 L=6.65			B=1.00 H=0.60 L=3.10		
Mu=-2.49		Mu=-2.93	Mu=-2.49		Mu=-2.93	Mu=-2.49		Mu=-2.93
As=1815.00		As=1815.00	As=1815.00		As=1815.00	As=1815.00		As=1815.00
Mu=1.25	Mu=1.01	Mu=4.03	Mu=1.25	Mu=1.01	Mu=4.03	Mu=1.25	Mu=1.01	Mu=4.03
As=1815.00	As=1815.00	As=1815.00	As=1815.00	As=1815.00	As=1815.00	As=1815.00	As=1815.00	As=1815.00
Vu=-3.18		Vu=3.89	Vu=-3.18		Vu=3.89	Vu=-3.18		Vu=3.89

B=1.00 H=0.60 L=2.22		
Mu=-2.49		Mu=-2.93
As=1815.00		As=1815.00
Mu=1.25	Mu=1.01	Mu=4.03
As=1815.00	As=1815.00	As=1815.00
Vu=-3.18		Vu=3.89

V101/N-1.05

B=0.60 H=0.80 L=5.80			B=0.60 H=0.80 L=11.10			B=0.60 H=0.80 L=11.10		
Mu=-28.78		Mu=-77.29	Mu=-141.08		Mu=-157.42	Mu=-149.57		Mu=-153.90
As=1485.00		As=2815.07	As=5289.90		As=5949.31	As=5631.13		As=5806.31
Mu=19.32	Mu=29.90	Mu=38.65	Mu=70.54	Mu=83.79	Mu=78.71	Mu=74.79	Mu=82.82	Mu=76.95
As=1485.00	As=1485.00	As=1845.70	As=2561.71	As=3060.50	As=2868.57	As=2720.87	As=3023.78	As=2802.27
Vu=-23.95		Vu=37.45	Vu=-65.98		Vu=68.82	Vu=-66.93		Vu=68.47

B=0.60 H=0.80 L=11.10			B=0.60 H=0.80 L=11.10			B=0.60 H=0.80 L=9.75		
Mu=-151.19		Mu=-154.30	Mu=-154.54		Mu=-149.51	Mu=-117.11		Mu=-106.12
As=5696.58		As=5822.54	As=5832.27		As=5628.71	As=4342.11		As=3914.94
Mu=75.60	Mu=82.76	Mu=77.15	Mu=77.27	Mu=84.12	Mu=74.75	Mu=58.56	Mu=55.28	Mu=53.06
As=2751.30	As=3021.52	As=2809.80	As=2814.32	As=3073.01	As=2719.74	As=2115.58	As=1994.48	As=1912.59
Vu=-67.47		Vu=68.69	Vu=-68.51		Vu=68.06	Vu=-55.94		Vu=51.01

V102/N-1.05

B=0.60 H=0.60 L=5.40			B=0.60 H=0.60 L=10.55			B=0.60 H=0.60 L=11.10		
Mu=-20.77		Mu=-32.33	Mu=-70.94		Mu=-89.60	Mu=-98.49		Mu=-92.41
As=1352.69		As=1593.89	As=3611.50		As=4638.50	As=5141.23		As=4796.43
Mu=12.04	Mu=9.53	Mu=16.17	Mu=35.47	Mu=46.25	Mu=44.80	Mu=49.24	Mu=51.04	Mu=46.21
As=1089.00	As=1089.00	As=1089.00	As=1753.06	As=2305.86	As=2230.92	As=2461.24	As=2554.75	As=2303.54
Vu=-13.37		Vu=15.89	Vu=-34.02		Vu=39.82	Vu=-45.81		Vu=40.71

B=0.60 H=0.60 L=11.10			B=0.60 H=0.60 L=11.10			B=0.60 H=0.60 L=3.05		
Mu=-91.27		Mu=-86.49	Mu=-87.68		Mu=-80.94	Mu=-54.61		Mu=-13.65
As=4732.25		As=4464.74	As=4531.10		As=4157.28	As=2741.58		As=1089.00
Mu=45.63	Mu=47.33	Mu=43.24	Mu=43.84	Mu=45.53	Mu=40.47	Mu=27.31	Mu=13.65	Mu=16.31
As=2274.06	As=2361.80	As=2150.76	As=2181.41	As=2268.63	As=2008.23	As=1340.84	As=1089.00	As=1089.00
Vu=-42.05		Vu=38.30	Vu=-40.00		Vu=37.14	Vu=-25.73		Vu=-10.94

B=0.60 H=0.60 L=6.30			B=0.60 H=0.60 L=3.25			B=0.60 H=0.60 L=3.00		
Mu=-12.65		Mu=-50.62	Mu=-53.80		Mu=-18.10	Mu=-18.86		Mu=-9.59
As=1089.00		As=2532.84	As=2699.09		As=1176.39	As=1226.50		As=1089.00
Mu=22.26	Mu=19.22	Mu=25.31	Mu=26.90	Mu=13.45	Mu=37.42	Mu=37.28	Mu=21.86	Mu=9.32
As=1451.40	As=1401.68	As=1240.94	As=1320.53	As=1089.00	As=1852.33	As=1845.19	As=1424.88	As=1107.11
Vu=-11.53		Vu=27.04	Vu=-33.06		Vu=-17.73	Vu=-11.26		Vu=18.91

V103/N-1.05

B=0.60 H=0.60 L=12.20		
Mu=-88.42		Mu=-125.45
As=4572.44		As=6725.18
Mu=44.21	Mu=51.69	Mu=62.72
As=2200.49	As=2659.80	As=3170.68
Vu=-37.34		Vu=58.54

V104/N-1.05

B=0.80 H=0.60 L=10.92			B=0.80 H=0.60 L=11.14			B=0.80 H=0.60 L=10.90		
Mu=-142.21		Mu=-161.39	Mu=-146.37		Mu=-136.10	Mu=-129.58		Mu=-90.98
As=7481.75		As=8612.94	As=7724.07		As=7128.76	As=6755.81		As=4620.82
Mu=76.09	Mu=76.09	Mu=80.69	Mu=73.18	Mu=72.74	Mu=68.05	Mu=64.79	Mu=59.60	Mu=45.49
As=3827.83	As=3827.83	As=4071.38	As=3674.96	As=3651.59	As=3406.15	As=3236.43	As=2986.27	As=2245.87
Vu=-69.64		Vu=82.72	Vu=-67.22		Vu=67.80	Vu=-65.82		Vu=46.73

V105/N-1.05

B=0.60 H=0.60 L=7.35			B=0.60 H=0.60 L=6.75			B=0.60 H=0.60 L=7.00		
Mu=-58.02		Mu=-71.33	Mu=-60.43		Mu=-53.40	Mu=-61.51		Mu=-60.03
As=2921.14		As=3632.59	As=3048.70		As=2678.13	As=3106.03		As=3027.49
Mu=29.01	Mu=41.64	Mu=35.67	Mu=30.22	Mu=33.79	Mu=26.70	Mu=30.75	Mu=31.94	Mu=30.01
As=1426.47	As=2068.24	As=1762.98	As=1487.13	As=1667.80	As=1310.51	As=1514.36	As=1574.18	As=1477.06
Vu=38.83		Vu=-45.65	Vu=40.11		Vu=-33.91	Vu=35.13		Vu=-41.46

B=0.60 H=0.60 L=4.50			B=0.60 H=0.60 L=1.50			B=0.60 H=0.60 L=3.60		
Mu=-24.82		Mu=-10.41	Mu=-20.33		Mu=-12.98	Mu=-23.83		Mu=-44.47
As=1216.45		As=1089.00	As=1323.59		As=1089.00	As=1235.07		As=2213.90
Mu=12.41	Mu=12.41	Mu=6.20	Mu=10.16	Mu=5.08	Mu=16.30	Mu=37.32	Mu=18.64	Mu=22.24
As=1089.00	As=1089.00	As=1089.00	As=1089.00	As=1089.00	As=1089.00	As=1847.23	As=1283.47	As=1449.74
Vu=15.54		Vu=-11.45	Vu=19.03		Vu=16.92	Vu=15.60		Vu=-28.37

V106/N-1.05

B=0.60 H=0.60 L=13.20		
Mu=-90.77		Mu=-90.46
As=4704.15		As=4686.74
Mu=45.38	Mu=47.41	Mu=45.23
As=2261.14	As=2415.77	As=2253.13
Vu=-37.85		Vu=42.53

V107/N-1.05

B=0.65 H=0.60 L=13.20		
Mu=-137.98		Mu=-154.18
As=7411.57		As=8414.70
Mu=68.99	Mu=74.25	Mu=77.09
As=3490.23	As=3853.49	As=3925.34
Vu=-51.66		Vu=63.74

V108/N-1.05

B=0.60 H=0.60 L=4.50			B=0.60 H=0.60 L=2.22			B=0.60 H=0.60 L=4.25		
Mu=-30.16		Mu=-50.80	Mu=-23.98		Mu=-5.99	Mu=-10.37		Mu=-6.20
As=1484.36		As=2542.23	As=1174.52		As=1089.00	As=1089.00		As=1089.00
Mu=19.98	Mu=12.70	Mu=25.40	Mu=11.99	Mu=5.99	Mu=5.99	Mu=6.96	Mu=7.29	Mu=3.10
As=1300.45	As=1089.00	As=1245.44	As=1089.00	As=1089.00	As=1089.00	As=1089.00	As=1089.00	As=1089.00
Vu=-20.11		Vu=36.98	Vu=-28.33		Vu=5.80	Vu=24.61		Vu=6.95

B=0.60 H=0.60 L=1.60			B=0.60 H=0.60 L=3.20			B=0.60 H=0.60 L=2.85		
Mu=-5.15		Mu=-10.25	Mu=-35.50		Mu=-40.45	Mu=-20.13		Mu=-5.66
As=1089.00		As=1089.00	As=1754.59		As=2007.20	As=1310.36		As=1089.00
Mu=4.42	Mu=2.56	Mu=5.13	Mu=35.45	Mu=13.98	Mu=25.28	Mu=22.65	Mu=18.63	Mu=5.66
As=1089.00	As=1089.00	As=1089.00	As=1752.05	As=1089.00	As=1239.44	As=1108.23	As=1259.76	As=1089.00
Vu=6.31		Vu=8.35	Vu=-22.56		Vu=28.03	Vu=-14.52		Vu=15.44

V109/N-1.05

B=0.50 H=0.60 L=4.90			B=0.50 H=0.60 L=13.21		
Mu=-13.70		Mu=-25.46	Mu=-46.51		Mu=-49.86
As=907.50		As=1253.43	As=2337.29		As=2514.16
Mu=7.80	Mu=7.90	Mu=31.18	Mu=23.25	Mu=20.14	Mu=24.93
As=926.06	As=926.06	As=1543.44	As=1142.50	As=986.38	As=1226.72
Vu=-7.34		Vu=15.67	Vu=-21.86		Vu=21.78

V110/N-1.05

B=0.50 H=0.60 L=13.20		
Mu=-55.00		Mu=-60.35
As=2788.02		As=3076.36
Mu=27.50	Mu=20.74	Mu=30.17
As=1356.49	As=1016.54	As=1492.25
Vu=-26.03		Vu=28.45

V111/N-1.05

B=0.50 H=0.60 L=13.20			B=0.50 H=0.60 L=3.20		
Mu=-32.07		Mu=-32.96	Mu=-31.78		Mu=-8.89
As=1588.85		As=1634.35	As=1574.05		As=907.50
Mu=26.89	Mu=8.31	Mu=33.23	Mu=35.55	Mu=13.65	Mu=8.89
As=1325.63	As=907.50	As=1648.17	As=1767.22	As=1060.33	As=1060.33
Vu=-18.51		Vu=-21.25	Vu=29.36		Vu=9.24

V112/N-1.05

B=0.50 H=0.60 L=13.20			B=0.50 H=0.60 L=6.94			B=0.50 H=0.60 L=8.57		
Mu=-23.59		Mu=-29.33	Mu=-29.89		Mu=-21.27	Mu=-32.82		Mu=-30.54
As=1159.32		As=1449.28	As=1477.75		As=1043.03	As=1627.19		As=1510.83
Mu=36.76	Mu=9.19	Mu=21.23	Mu=19.39	Mu=14.15	Mu=10.64	Mu=16.41	Mu=15.83	Mu=16.39
As=1829.53	As=907.50	As=1041.03	As=949.18	As=918.87	As=907.50	As=1067.85	As=1066.53	As=1066.53
Vu=24.55		Vu=17.00	Vu=-18.86		Vu=14.25	Vu=-18.74		Vu=18.94

V113/N-1.05

B=1.00 H=0.60 L=5.05			B=1.00 H=0.60 L=4.15		
Mu=-17.87		Mu=-8.28	Mu=-5.11		Mu=-11.92
As=1815.00		As=1815.00	As=1815.00		As=1815.00
Mu=8.94	Mu=6.14	Mu=4.47	Mu=5.11	Mu=5.11	Mu=20.46
As=1815.00	As=1815.00	As=1815.00	As=1815.00	As=1815.00	As=1815.00
Vu=-11.06		Vu=9.12	Vu=4.85		Vu=-14.38

V114/N-1.05

B=1.00 H=0.60 L=2.70			B=1.00 H=0.60 L=9.60		
Mu=-7.88		Mu=-5.91	Mu=-36.40		Mu=-36.41
As=1815.00		As=1815.00	As=2372.59		As=2373.24
Mu=3.94	Mu=1.97	Mu=2.95	Mu=18.20	Mu=18.05	Mu=18.20
As=1815.00	As=1815.00	As=1815.00	As=1815.00	As=1815.00	As=1815.00
Vu=-7.68		Vu=6.59	Vu=-19.13		Vu=19.12

V115/N-1.05

B=0.50 H=1.20 L=1.15			B=0.50 H=0.60 L=3.30			B=0.50 H=0.60 L=1.90		
Mu=-197.38		Mu=-91.29	Mu=-38.37		Mu=-30.07	Mu=-4.93		Mu=-19.71
As=4737.40		As=2277.69	As=1912.67		As=1486.65	As=907.50		As=965.13
Mu=98.69	Mu=49.35	Mu=179.91	Mu=120.26	Mu=32.95	Mu=30.07	Mu=11.65	Mu=4.93	Mu=9.85
As=2317.39	As=1897.50	As=4300.92	As=6577.80	As=1633.84	As=1486.65	As=907.50	As=907.50	As=907.50
Vu=-262.19		Vu=-257.92	Vu=196.24		Vu=39.27	Vu=13.99		Vu=19.28

B=0.50 H=0.60 L=5.25		
Mu=-31.01		Mu=-54.69
As=1534.77		As=2771.42
Mu=43.73	Mu=13.67	Mu=27.34
As=2191.47	As=1010.03	As=1348.64
Vu=-16.10		Vu=25.78

V116/N-1.05

B=0.50 H=0.60 L=3.75			B=0.50 H=0.60 L=8.28		
Mu=-8.20		Mu=-20.80	Mu=-41.42		Mu=-32.73
As=907.50		As=1019.54	As=2070.94		As=1622.58
Mu=5.93	Mu=8.32	Mu=10.40	Mu=22.52	Mu=19.12	Mu=16.36
As=907.50	As=907.50	As=907.50	As=1105.63	As=1105.63	As=1064.88
Vu=15.43		Vu=13.96	Vu=85.03		Vu=17.73

V117/N-1.05

B=0.50 H=0.60 L=2.60			B=0.50 H=0.60 L=3.85			B=0.50 H=0.60 L=1.40		
Mu=-97.22		Mu=-52.14	Mu=-33.16		Mu=-27.46	Mu=-4.38		Mu=-17.51
As=5165.50		As=2635.26	As=2263.75		As=1358.25	As=907.50		As=1140.59
Mu=48.61	Mu=28.43	Mu=113.74	Mu=16.58	Mu=11.28	Mu=15.52	Mu=12.70	Mu=4.38	Mu=8.76
As=2448.02	As=1606.84	As=6168.55	As=1079.15	As=907.50	As=1009.11	As=907.50	As=907.50	As=907.50
Vu=-75.83		Vu=-67.13	Vu=108.61		Vu=28.48	Vu=14.17		Vu=19.46

B=0.50 H=0.60 L=4.00			B=0.50 H=0.60 L=7.75			B=0.50 H=0.60 L=3.75		
Mu=-26.80		Mu=-61.77	Mu=-16.35		Mu=-21.84	Mu=-5.49		Mu=-19.11
As=1321.08		As=3153.47	As=1063.89		As=1071.56	As=907.50		As=935.23
Mu=57.86	Mu=15.44	Mu=30.89	Mu=12.01	Mu=6.36	Mu=14.56	Mu=9.39	Mu=8.46	Mu=9.56
As=2941.73	As=1081.59	As=1528.40	As=907.50	As=907.50	As=945.85	As=907.50	As=907.50	As=907.50
Vu=21.24		Vu=34.01	Vu=-7.12		Vu=7.66	Vu=17.70		Vu=13.46

B=0.50 H=0.60 L=8.28		
Mu=-39.41		Mu=-29.90
As=1966.53		As=1478.26
Mu=20.84	Mu=19.68	Mu=14.95
As=1021.54	As=1021.54	As=971.54
Vu=78.16		Vu=17.21

V118/N-1.05

B=0.50 H=0.60 L=1.10			B=0.50 H=0.60 L=4.90		
Mu=-32.62		Mu=-14.92	Mu=-11.91		Mu=-23.32
As=1616.96		As=969.56	As=907.50		As=1145.76
Mu=16.31	Mu=8.15	Mu=25.12	Mu=5.95	Mu=5.83	Mu=11.66
As=1061.25	As=907.50	As=1236.30	As=907.50	As=907.50	As=907.50
Vu=-23.92		Vu=-15.21	Vu=-9.55		Vu=13.06

V119/N-1.05

B=0.50 H=0.60 L=1.18			B=0.50 H=0.60 L=6.67		
Mu=-26.66		Mu=-10.14	Mu=-20.73		Mu=-25.39
As=1314.00		As=907.50	As=1016.04		As=1249.90
Mu=13.33	Mu=6.66	Mu=17.54	Mu=10.36	Mu=11.75	Mu=12.69
As=907.50	As=907.50	As=1142.57	As=907.50	As=907.50	As=907.50
Vu=20.43		Vu=15.18	Vu=-13.30		Vu=14.35

V120/N-1.05

B=0.50 H=0.60 L=2.65			B=0.50 H=0.60 L=3.80			B=0.50 H=0.60 L=1.40		
Mu=-105.00		Mu=-48.82	Mu=-5.07		Mu=-20.26	Mu=-9.12		Mu=-36.47
As=5632.09		As=2459.12	As=907.50		As=992.57	As=907.50		As=1814.58
Mu=52.50	Mu=29.97	Mu=119.88	Mu=5.07	Mu=5.07	Mu=10.13	Mu=27.20	Mu=9.12	Mu=18.24
As=2654.44	As=1635.58	As=6553.73	As=907.50	As=907.50	As=907.50	As=1341.31	As=907.50	As=1188.61
Vu=-80.73		Vu=-72.05	Vu=-4.42		Vu=12.44	Vu=32.46		Vu=35.52

B=0.50 H=0.60 L=10.30			B=0.50 H=0.60 L=7.15			B=0.50 H=0.60 L=3.75		
Mu=-62.03		Mu=-49.99	Mu=-32.65		Mu=-17.90	Mu=-5.32		Mu=-18.57
As=3167.61		As=2521.05	As=1618.49		As=1166.42	As=907.50		As=908.35
Mu=31.01	Mu=37.66	Mu=25.00	Mu=16.33	Mu=8.16	Mu=23.53	Mu=8.85	Mu=5.32	Mu=9.28
As=1535.03	As=2332.56	As=1399.54	As=1062.24	As=907.50	As=1156.31	As=907.50	As=907.50	As=907.50
Vu=-33.95		Vu=19.02	Vu=-10.71		Vu=5.68	Vu=16.95		Vu=13.16

B=0.50 H=0.60 L=8.28		
Mu=-38.81		Mu=-29.83
As=1935.44		As=1474.70
Mu=19.69	Mu=19.73	Mu=14.91
As=964.13	As=966.13	As=969.23
Vu=73.58		Vu=17.23

V121/N-1.05

B=0.50 H=0.60 L=2.65			B=0.50 H=0.60 L=3.55			B=0.50 H=0.60 L=1.40		
Mu=-108.71		Mu=-43.18	Mu=-36.97		Mu=-38.56	Mu=-6.86		Mu=-27.44
As=5858.16		As=2162.72	As=2660.83		As=1922.50	As=907.50		As=1353.45
Mu=54.35	Mu=31.33	Mu=125.34	Mu=25.46	Mu=13.15	Mu=23.11	Mu=20.93	Mu=6.86	Mu=13.72
As=2753.48	As=1727.44	As=8490.42	As=1253.43	As=907.50	As=1135.22	As=1026.04	As=907.50	As=907.50
Vu=-83.85		Vu=-75.16	Vu=142.26		Vu=39.81	Vu=24.28		Vu=29.58

B=0.50 H=0.60 L=5.28			B=0.50 H=0.60 L=6.25			B=0.50 H=0.60 L=3.75		
Mu=-16.76		Mu=-37.87	Mu=-25.39		Mu=-20.64	Mu=-5.92		Mu=-19.41
As=1090.98		As=1886.82	As=1249.90		As=1052.79	As=907.50		As=950.18
Mu=44.72	Mu=11.18	Mu=18.93	Mu=12.69	Mu=6.35	Mu=23.03	Mu=12.82	Mu=5.92	Mu=9.70
As=2243.30	As=988.14	As=926.51	As=907.50	As=907.50	As=1131.21	As=907.50	As=907.50	As=907.50
Vu=11.72		Vu=16.74	Vu=-10.11		Vu=7.06	Vu=20.91		Vu=13.75

B=0.50 H=0.60 L=8.30		
Mu=-39.02		Mu=-29.88
As=1946.32		As=1477.24
Mu=20.56	Mu=19.74	Mu=14.94
As=1007.55	As=1007.55	As=970.88
Vu=76.60		Vu=17.21

V122/N-1.05

B=0.50 H=1.00 L=2.65			B=0.50 H=0.60 L=3.05			B=0.50 H=0.60 L=2.00		
Mu=-110.49		Mu=-64.65	Mu=-41.96		Mu=-34.09	Mu=-6.72		Mu=-26.87
As=3184.50		As=1965.33	As=3054.68		As=1832.81	As=907.50		As=1324.62
Mu=55.24	Mu=31.95	Mu=127.81	Mu=29.71	Mu=14.99	Mu=20.35	Mu=18.72	Mu=6.72	Mu=13.44
As=2085.35	As=1567.50	As=3704.87	As=1468.60	As=974.01	As=997.06	As=915.81	As=907.50	As=907.50
Vu=-85.29		Vu=-76.61	Vu=163.43		Vu=35.42	Vu=22.73		Vu=28.02

B=0.50 H=0.60 L=6.35			B=0.50 H=0.60 L=3.75			B=0.50 H=0.60 L=8.30		
Mu=-37.05		Mu=-39.77	Mu=-6.06		Mu=-20.61	Mu=-41.12		Mu=-32.83
As=1844.48		As=1985.20	As=907.50		As=1010.05	As=2055.33		As=1627.70
Mu=22.21	Mu=12.61	Mu=19.97	Mu=9.36	Mu=9.03	Mu=10.31	Mu=20.56	Mu=19.36	Mu=16.42
As=1090.09	As=1099.97	As=978.10	As=907.50	As=907.50	As=907.50	As=1007.55	As=1007.55	As=1068.18
Vu=-17.80		Vu=18.11	Vu=18.22		Vu=14.13	Vu=72.61		Vu=17.63

V123/N-1.05

B=0.40 H=0.60 L=1.90			B=0.40 H=0.60 L=4.30		
Mu=-2.35		Mu=-9.41	Mu=-33.90		Mu=-8.48
As=726.00		As=726.00	As=1696.56		As=726.00
Mu=5.50	Mu=2.35	Mu=4.70	Mu=16.95	Mu=8.48	Mu=22.42
As=726.00	As=726.00	As=726.00	As=831.13	As=726.00	As=1106.46
Vu=5.85		Vu=7.40	Vu=-14.08		Vu=-10.97

V124/N-1.05

B=0.50 H=1.00 L=1.15			B=0.50 H=0.60 L=3.10			B=0.50 H=0.60 L=1.90		
Mu=-151.22		Mu=-97.43	Mu=-51.35		Mu=-23.22	Mu=-3.79		Mu=-15.16
As=4418.30		As=2796.16	As=2593.23		As=1140.49	As=907.50		As=985.37
Mu=99.81	Mu=37.81	Mu=139.24	Mu=92.86	Mu=23.22	Mu=23.22	Mu=6.46	Mu=3.79	Mu=7.58
As=2866.68	As=1567.50	As=4051.73	As=4908.27	As=1140.49	As=1140.49	As=907.50	As=907.50	As=907.50
Vu=-203.12		Vu=-198.86	Vu=152.57		Vu=23.57	Vu=9.37		Vu=14.67

B=0.50 H=0.60 L=2.10			B=0.50 H=0.60 L=1.30			B=0.50 H=0.60 L=1.32		
Mu=-49.86		Mu=-77.40	Mu=-24.03		Mu=-22.93	Mu=-32.98		Mu=-50.69
As=2514.16		As=4019.11	As=1181.43		As=1176.22	As=1635.37		As=2558.18
Mu=82.08	Mu=20.52	Mu=44.47	Mu=18.88	Mu=6.01	Mu=21.70	Mu=39.56	Mu=12.67	Mu=38.75
As=4284.64	As=1024.64	As=2230.20	As=923.77	As=989.06	As=1064.56	As=1974.30	As=907.50	As=1932.34
Vu=54.61		Vu=62.63	Vu=-21.71		Vu=19.93	Vu=47.46		Vu=52.77

B=0.50 H=0.60 L=7.62		
Mu=-42.21		Mu=-25.49
As=2112.09		As=1254.95
Mu=21.10	Mu=15.93	Mu=12.74
As=1034.78	As=1036.16	As=907.50
Vu=-21.83		Vu=15.47

V126/N-1.05

B=0.30 H=0.60 L=4.45			B=0.30 H=0.60 L=2.45			B=0.30 H=0.60 L=5.10		
Mu=-4.50		Mu=-6.20	Mu=-8.20		Mu=-7.02	Mu=-4.19		Mu=-16.77
As=544.50		As=544.50	As=544.50		As=544.50	As=544.50		As=827.57
Mu=2.25	Mu=5.43	Mu=3.10	Mu=4.10	Mu=2.05	Mu=3.51	Mu=4.19	Mu=4.19	Mu=8.39
As=544.50	As=544.50	As=544.50	As=544.50	As=544.50	As=544.50	As=544.50	As=544.50	As=544.50
Vu=-6.57		Vu=7.08	Vu=-4.70		Vu=6.00	Vu=-4.91		Vu=10.04

B=0.30 H=0.60 L=3.00		
Mu=-12.48		Mu=-4.88
As=611.72		As=544.50
Mu=6.24	Mu=7.77	Mu=4.25
As=544.50	As=569.75	As=544.50
Vu=15.72		Vu=-6.12

V127/N-1.05

B=0.40 H=0.60 L=7.35		
Mu=-12.24		Mu=-11.90
As=795.68		As=773.28
Mu=6.12	Mu=7.69	Mu=5.95
As=726.00	As=726.00	As=726.00
Vu=-8.35		Vu=9.45

V128/N-1.05

B=1.00 H=0.60 L=4.42			B=1.00 H=0.60 L=4.17			B=1.00 H=0.60 L=3.15		
Mu=-13.35		Mu=-8.87	Mu=-5.62		Mu=-6.42	Mu=-6.64		Mu=-5.40
As=1815.00		As=1815.00	As=1815.00		As=1815.00	As=1815.00		As=1815.00
Mu=6.68	Mu=3.34	Mu=4.43	Mu=3.78	Mu=1.61	Mu=3.25	Mu=3.32	Mu=2.21	Mu=2.70
As=1815.00	As=1815.00	As=1815.00	As=1815.00	As=1815.00	As=1815.00	As=1815.00	As=1815.00	As=1815.00
Vu=-7.33		Vu=6.42	Vu=-5.46		Vu=5.92	Vu=-5.28		Vu=5.26

B=1.00 H=0.60 L=4.15		
Mu=-2.51		Mu=-1.16
As=1815.00		As=1815.00
Mu=1.32	Mu=1.32	Mu=4.63
As=1815.00	As=1815.00	As=1815.00
Vu=-3.59		Vu=-3.34

V135/N-1.05

B=0.40 H=0.60 L=3.60			B=0.40 H=0.60 L=13.55			B=0.40 H=0.60 L=6.95		
Mu=-18.68		Mu=-17.07	Mu=-21.29		Mu=-24.44	Mu=-31.49		Mu=-20.05
As=917.81		As=837.13	As=1049.28		As=1209.07	As=1571.25		As=986.72
Mu=14.78	Mu=5.78	Mu=23.13	Mu=15.61	Mu=7.45	Mu=29.81	Mu=23.96	Mu=7.87	Mu=23.15
As=963.62	As=726.00	As=1142.47	As=899.37	As=726.00	As=1484.36	As=1184.64	As=726.00	As=1143.48
Vu=-18.89		Vu=-18.85	Vu=-19.30		Vu=-23.00	Vu=-26.17		Vu=-21.04

B=0.40 H=0.60 L=10.10		
Mu=-18.84		Mu=-19.69
As=925.85		As=968.59
Mu=19.11	Mu=5.83	Mu=23.32
As=939.42	As=726.00	As=1152.11
Vu=-16.67		Vu=-44.80

V136/N-1.05

B=0.40 H=0.60 L=6.40			B=0.40 H=0.60 L=13.20			B=0.40 H=0.60 L=13.20		
Mu=-17.09		Mu=-21.52	Mu=-19.20		Mu=-30.46	Mu=-30.15		Mu=-29.72
As=841.86		As=1060.91	As=943.94		As=1517.93	As=1501.91		As=1479.71
Mu=20.14	Mu=5.38	Mu=20.36	Mu=21.36	Mu=7.61	Mu=30.39	Mu=30.36	Mu=7.59	Mu=29.88
As=991.25	As=726.00	As=1002.34	As=1052.82	As=726.00	As=1514.31	As=1512.76	As=726.00	As=1487.97
Vu=25.83		Vu=17.48	Vu=16.19		Vu=24.93	Vu=-24.39		Vu=24.26

B=0.40 H=0.60 L=13.40			B=0.40 H=0.60 L=3.20			B=1.00 H=0.60 L=2.84		
Mu=-30.89		Mu=-24.96	Mu=-26.63		Mu=-19.66	Mu=-23.56		Mu=-16.40
As=1540.18		As=1235.56	As=1320.89		As=967.08	As=1815.00		As=1815.00
Mu=35.03	Mu=8.76	Mu=20.87	Mu=27.71	Mu=12.81	Mu=20.24	Mu=35.88	Mu=11.83	Mu=8.97
As=1755.58	As=726.00	As=1028.07	As=1376.26	As=919.82	As=996.29	As=2338.13	As=1815.00	As=1815.00
Vu=27.26		Vu=21.90	Vu=-27.81		Vu=17.61	Vu=26.90		Vu=19.29

B=1.00 H=0.60 L=4.85			B=1.00 H=0.60 L=6.20		
Mu=-12.86		Mu=-19.75	Mu=-12.86		Mu=-19.75
As=1815.00		As=1815.00	As=1815.00		As=1815.00
Mu=6.64	Mu=6.42	Mu=9.88	Mu=6.64	Mu=6.42	Mu=9.88
As=1815.00	As=1815.00	As=1815.00	As=1815.00	As=1815.00	As=1815.00
Vu=-12.87		Vu=15.37	Vu=-12.87		Vu=15.37

V200/N 2.95

B=0.50 H=0.60 L=7.35			B=0.50 H=0.60 L=5.75			B=0.50 H=0.60 L=11.10		
Mu=-19.38		Mu=-34.33	Mu=-43.62		Mu=-43.16	Mu=-83.08		Mu=-89.86
As=948.68		As=1704.55	As=2185.71		As=2161.67	As=4341.78		As=4732.99
Mu=9.69	Mu=15.82	Mu=17.17	Mu=22.17	Mu=10.90	Mu=34.54	Mu=41.54	Mu=44.00	Mu=44.93
As=907.50	As=1030.22	As=1117.76	As=1088.09	As=1056.23	As=1715.32	As=2077.18	As=2205.70	As=2254.31
Vu=-12.68		Vu=14.45	Vu=-17.95		Vu=16.42	Vu=-27.92		Vu=31.98

B=0.50 H=0.60 L=11.10			B=0.50 H=0.60 L=11.10			B=0.50 H=0.60 L=11.10		
Mu=-61.92		Mu=-61.69	Mu=-60.94		Mu=-62.50	Mu=-61.31		Mu=-65.27
As=3161.63		As=3149.11	As=3108.36		As=3193.20	As=3128.46		As=3344.58
Mu=30.96	Mu=22.88	Mu=30.84	Mu=30.47	Mu=23.44	Mu=31.25	Mu=30.66	Mu=23.35	Mu=32.63
As=1532.22	As=1123.68	As=1526.36	As=1507.26	As=1151.79	As=1547.01	As=1516.68	As=1147.27	As=1617.73
Vu=-20.00		Vu=20.32	Vu=-19.48		Vu=20.93	Vu=-20.22		Vu=22.06

V201/N 2.95

B=0.50 H=0.60 L=9.68		
Mu=-75.93		Mu=-75.21
As=3936.33		As=3895.89
Mu=37.97	Mu=25.68	Mu=37.60
As=1891.73	As=1531.10	As=1873.13
Vu=-30.36		Vu=35.58

V202/N 2.95

B=0.50 H=0.60 L=5.05			B=0.50 H=0.60 L=5.17		
Mu=-77.53		Mu=-19.38	Mu=-10.29		Mu=-34.84
As=4026.44		As=948.80	As=907.50		As=1730.73
Mu=38.76	Mu=20.41	Mu=38.87	Mu=41.16	Mu=24.42	Mu=17.42
As=1933.11	As=1472.16	As=1938.55	As=2057.41	As=1322.90	As=1134.63
Vu=-31.28		Vu=-5.14	Vu=7.22		Vu=21.37

V203/N 2.95

B=0.65 H=0.60 L=7.25			B=0.65 H=0.60 L=5.30			B=0.65 H=0.60 L=10.60		
Mu=-47.91		Mu=-77.05	Mu=-67.62		Mu=-71.62	Mu=-103.83		Mu=-147.13
As=2384.68		As=3923.18	As=3417.22		As=3630.85	As=5406.47		As=7973.65
Mu=23.95	Mu=36.01	Mu=38.53	Mu=33.81	Mu=17.91	Mu=35.81	Mu=51.92	Mu=61.10	Mu=73.57
As=1561.74	As=1776.60	As=1904.19	As=1665.38	As=1438.90	As=1766.47	As=2591.86	As=3072.01	As=3735.25
Vu=-28.79		Vu=35.65	Vu=-30.58		Vu=31.55	Vu=-41.55		Vu=70.39

B=0.65 H=0.60 L=11.10			B=0.65 H=0.60 L=11.10			B=0.65 H=0.60 L=11.10		
Mu=-124.47		Mu=-122.65	Mu=-129.41		Mu=-113.14	Mu=-116.60		Mu=-102.80
As=6601.67		As=6494.30	As=6895.15		As=5939.59	As=6140.20		As=5348.07
Mu=62.24	Mu=56.57	Mu=61.33	Mu=64.71	Mu=54.21	Mu=56.57	Mu=58.30	Mu=50.77	Mu=51.40
As=3131.84	As=2834.32	As=3083.86	As=3262.42	As=2711.17	As=2834.32	As=2924.89	As=2532.49	As=2565.14
Vu=-51.99		Vu=51.80	Vu=-57.33		Vu=44.60	Vu=-45.10		Vu=43.18

B=0.65 H=0.60 L=3.10			B=0.65 H=0.60 L=6.38		
Mu=-99.44		Mu=-24.86	Mu=-20.44		Mu=-81.75
As=5158.34		As=1216.64	As=1329.09		As=4178.42
Mu=49.72	Mu=24.86	Mu=24.86	Mu=35.34	Mu=32.69	Mu=40.88
As=2478.15	As=1216.64	As=1216.64	As=1742.69	As=1742.69	As=2023.86
Vu=-40.65		Vu=-21.56	Vu=-17.72		Vu=41.36

V204/N 2.95

B=0.65 H=0.60 L=7.60			B=0.65 H=0.60 L=1.12		
Mu=-48.69		Mu=-18.06	Mu=-14.57		Mu=-58.28
As=2424.92		As=1179.75	As=1179.75		As=2923.84
Mu=24.34	Mu=24.34	Mu=25.26	Mu=22.99	Mu=14.57	Mu=29.14
As=1191.00	As=1206.19	As=1376.61	As=1497.79	As=1179.75	As=1430.50
Vu=-17.37		Vu=17.43	Vu=29.45		Vu=31.83

V205/N 2.95

B=0.65 H=0.60 L=12.60		
Mu=-107.43		Mu=-135.10
As=5611.49		As=7236.97
Mu=53.72	Mu=57.03	Mu=67.55
As=2685.40	As=2956.36	As=3413.49
Vu=-45.60		Vu=63.62

V206/N 2.95

B=0.60 H=0.70 L=10.60			B=0.60 H=0.70 L=11.12			B=0.60 H=0.70 L=10.96		
Mu=-152.37		Mu=-194.67	Mu=-200.83		Mu=-141.69	Mu=-138.65		Mu=-135.67
As=6799.11		As=8961.27	As=9289.41		As=6276.01	As=6128.65		As=5984.84
Mu=86.86	Mu=86.86	Mu=97.33	Mu=100.42	Mu=86.34	Mu=70.85	Mu=69.32	Mu=52.32	Mu=67.83
As=3713.49	As=3713.49	As=4188.33	As=4329.20	As=3739.16	As=2999.73	As=2932.72	As=2267.53	As=2867.17
Vu=-75.16		Vu=109.07	Vu=-101.90		Vu=65.27	Vu=-64.00		Vu=60.88

V207/N 2.95

B=0.65 H=0.60 L=1.55			B=0.65 H=0.60 L=4.45			B=0.65 H=0.60 L=7.10		
Mu=-15.14		Mu=-20.28	Mu=-13.47		Mu=-53.88	Mu=-89.66		Mu=-92.11
As=1179.75		As=1318.70	As=1179.75		As=2693.99	As=4612.74		As=4748.51
Mu=13.90	Mu=5.07	Mu=10.14	Mu=13.47	Mu=13.47	Mu=26.94	Mu=44.83	Mu=33.03	Mu=46.06
As=1179.75	As=1179.75	As=1179.75	As=1179.75	As=1179.75	As=1320.40	As=2226.22	As=1626.03	As=2289.15
Vu=14.80		Vu=17.09	Vu=-13.34		Vu=78.33	Vu=-52.82		Vu=40.83

B=0.65 H=0.60 L=6.75			B=0.65 H=0.60 L=7.10		
Mu=-88.44		Mu=-75.60	Mu=-84.87		Mu=-75.67
As=4545.35		As=3844.85	As=4349.00		As=3848.63
Mu=44.22	Mu=34.77	Mu=37.80	Mu=42.44	Mu=43.44	Mu=37.83
As=2194.93	As=1713.86	As=1867.36	As=2103.53	As=2154.96	As=1869.14
Vu=-40.53		Vu=41.41	Vu=-46.89		Vu=39.47

V208/N 2.95

B=0.65 H=0.60 L=13.20			B=0.65 H=0.60 L=13.20			B=0.65 H=0.60 L=4.52		
Mu=-139.98		Mu=-149.40	Mu=-109.57		Mu=-96.41	Mu=-84.23		Mu=-95.37
As=7533.46		As=8114.88	As=5734.04		As=4988.26	As=4313.94		As=4930.10
Mu=69.99	Mu=69.43	Mu=74.70	Mu=54.78	Mu=44.17	Mu=48.21	Mu=72.41	Mu=23.84	Mu=59.04
As=3543.62	As=3554.31	As=3796.34	As=2741.13	As=2192.57	As=2399.89	As=3673.22	As=1634.61	As=2963.71
Vu=-54.98		Vu=62.00	Vu=-43.11		Vu=34.38	Vu=-39.47		Vu=61.49

B=0.65 H=0.60 L=6.88			B=0.65 H=0.60 L=1.62			B=0.65 H=0.60 L=3.20		
Mu=-48.29		Mu=-12.07	Mu=-27.65		Mu=-30.45	Mu=-72.29		Mu=-85.57
As=2404.28		As=1179.75	As=1419.99		As=1496.22	As=3666.78		As=4387.40
Mu=26.62	Mu=12.07	Mu=12.07	Mu=19.12	Mu=7.61	Mu=29.39	Mu=68.33	Mu=21.39	Mu=69.23
As=1304.42	As=1179.75	As=1179.75	As=1242.25	As=1242.25	As=1443.03	As=3455.03	As=1392.14	As=3503.03
Vu=-63.85		Vu=9.35	Vu=-29.94		Vu=-27.74	Vu=-44.25		Vu=49.69

B=0.65 H=0.60 L=2.90			B=0.65 H=0.60 L=4.70		
Mu=-98.48		Mu=-24.62	Mu=-12.94		Mu=-33.09
As=5104.35		As=1204.69	As=1179.75		As=1629.06
Mu=49.24	Mu=24.62	Mu=53.38	Mu=51.74	Mu=36.95	Mu=16.55
As=2453.33	As=1333.70	As=2667.97	As=2582.78	As=2001.47	As=1179.75
Vu=-49.31		Vu=-22.90	Vu=7.99		Vu=27.09

V209/N 2.95

B=0.50 H=0.60 L=13.20			B=0.50 H=0.60 L=6.80			B=0.50 H=0.60 L=8.60		
Mu=-39.82		Mu=-44.68	Mu=-61.44		Mu=-34.38	Mu=-47.15		Mu=-38.60
As=1987.79		As=2241.20	As=3135.52		As=1707.11	As=2370.99		As=1924.57
Mu=67.51	Mu=16.88	Mu=44.12	Mu=49.32	Mu=16.84	Mu=17.19	Mu=23.58	Mu=17.96	Mu=19.30
As=3467.71	As=1098.75	As=2211.87	As=2485.57	As=1096.27	As=1119.41	As=1158.57	As=944.69	As=944.69
Vu=42.26		Vu=23.01	Vu=-30.80		Vu=17.79	Vu=-23.55		Vu=20.70

V210/N 2.95

B=0.50 H=0.60 L=5.22			B=0.50 H=0.60 L=13.18			B=0.50 H=0.60 L=13.20		
Mu=-21.68		Mu=-42.15	Mu=-62.43		Mu=-60.55	Mu=-55.69		Mu=-69.20
As=1203.13		As=2108.96	As=3189.39		As=3087.20	As=2825.02		As=3561.02
Mu=13.39	Mu=13.78	Mu=53.57	Mu=32.78	Mu=20.26	Mu=37.50	Mu=34.53	Mu=17.93	Mu=44.05
As=1626.91	As=1626.91	As=2711.52	As=1625.14	As=992.57	As=1867.71	As=1714.81	As=1168.14	As=2208.21
Vu=-12.10		Vu=-26.58	Vu=-29.36		Vu=27.10	Vu=-26.35		Vu=32.10

B=0.50 H=0.60 L=13.20			B=0.50 H=0.60 L=3.20		
Mu=-42.87		Mu=-50.87	Mu=-68.32		Mu=-37.53
As=2146.53		As=2567.73	As=3512.39		As=1869.26
Mu=45.42	Mu=14.78	Mu=59.12	Mu=76.49	Mu=27.39	Mu=43.33
As=2280.02	As=960.34	As=3009.76	As=3967.83	As=1350.92	As=2170.55
Vu=-24.77		Vu=-37.96	Vu=63.92		Vu=-32.00

V211/N 2.95

B=0.40 H=0.60 L=7.15			B=0.40 H=0.60 L=13.60			B=0.40 H=0.60 L=7.02		
Mu=-13.85		Mu=-8.36	Mu=-2.67		Mu=-5.10	Mu=-7.88		Mu=-5.68
As=902.01		As=726.00	As=726.00		As=726.00	As=726.00		As=726.00
Mu=13.35	Mu=3.86	Mu=13.61	Mu=2.85	Mu=1.75	Mu=7.02	Mu=4.43	Mu=2.13	Mu=8.50
As=868.95	As=726.00	As=886.14	As=726.00	As=726.00	As=726.00	As=726.00	As=726.00	As=726.00
Vu=-10.27		Vu=-14.27	Vu=3.72		Vu=-5.90	Vu=-6.51		Vu=-7.04

B=0.40 H=0.60 L=9.30		
Mu=-3.50		Mu=-5.71
As=726.00		As=726.00
Mu=5.93	Mu=1.79	Mu=7.15
As=726.00	As=726.00	As=726.00
Vu=5.74		Vu=-8.22

V212/N 2.95

B=0.40 H=0.60 L=6.60			B=0.40 H=0.60 L=13.30			B=0.40 H=0.60 L=13.30		
Mu=-4.48		Mu=-4.11	Mu=-4.49		Mu=-5.41	Mu=-5.81		Mu=-4.72
As=726.00		As=726.00	As=726.00		As=726.00	As=726.00		As=726.00
Mu=6.71	Mu=1.68	Mu=4.09	Mu=5.56	Mu=1.48	Mu=5.93	Mu=6.25	Mu=1.70	Mu=6.79
As=726.00	As=726.00	As=726.00	As=726.00	As=726.00	As=726.00	As=726.00	As=726.00	As=726.00
Vu=6.49		Vu=3.62	Vu=4.76		Vu=-4.87	Vu=5.05		Vu=-5.55

B=0.40 H=0.60 L=13.70			B=0.40 H=0.60 L=3.30			B=0.40 H=0.60 L=2.96		
Mu=-9.65		Mu=-4.83	Mu=-7.39		Mu=-12.56	Mu=-36.33		Mu=-9.08
As=726.00		As=726.00	As=726.00		As=816.78	As=1823.70		As=726.00
Mu=13.06	Mu=3.27	Mu=3.27	Mu=10.82	Mu=12.98	Mu=7.83	Mu=18.17	Mu=9.73	Mu=18.31
As=849.79	As=726.00	As=726.00	As=726.00	As=844.51	As=726.00	As=891.97	As=891.97	As=899.24
Vu=10.60		Vu=2.43	Vu=12.85		Vu=13.29	Vu=-17.32		Vu=-8.18

B=0.40 H=0.60 L=4.70		
Mu=-5.38		Mu=-21.50
As=726.00		As=1059.90
Mu=18.77	Mu=15.26	Mu=10.75
As=922.33	As=896.85	As=726.00
Vu=3.34		Vu=13.55

V213/N 2.95

B=0.40 H=0.60 L=6.30			B=0.40 H=0.60 L=3.12			B=0.40 H=0.60 L=0.55		
Mu=-6.95		Mu=-8.01	Mu=-11.57		Mu=-10.15	Mu=-11.57		Mu=-10.15
As=726.00		As=726.00	As=751.55		As=726.00	As=751.55		As=726.00
Mu=3.98	Mu=3.98	Mu=4.01	Mu=8.37	Mu=2.89	Mu=7.21	Mu=8.37	Mu=2.89	Mu=7.21
As=726.00	As=726.00	As=726.00	As=726.00	As=726.00	As=726.00	As=726.00	As=726.00	As=726.00
Vu=-7.01		Vu=7.36	Vu=-8.46		Vu=8.38	Vu=-8.46		Vu=8.38

V214/N 2.95

B=0.40 H=0.60 L=1.60			B=0.40 H=0.60 L=6.15			B=0.40 H=0.60 L=2.77		
Mu=-24.52		Mu=-13.92	Mu=-16.09		Mu=-50.78	Mu=-39.85		Mu=-34.63
As=1213.14		As=906.65	As=825.69		As=2597.10	As=2009.32		As=1734.67
Mu=12.26	Mu=6.13	Mu=19.50	Mu=28.74	Mu=12.69	Mu=25.39	Mu=33.23	Mu=9.96	Mu=32.54
As=797.00	As=726.00	As=959.03	As=1429.21	As=825.69	As=1257.50	As=1661.64	As=726.00	As=1625.75
Vu=-16.71		Vu=8.39	Vu=-11.34		Vu=21.53	Vu=-25.32		Vu=23.46

B=0.40 H=0.60 L=0.35		
Mu=-39.85		Mu=-34.63
As=2009.32		As=1734.67
Mu=33.23	Mu=9.96	Mu=32.54
As=1661.64	As=726.00	As=1625.75
Vu=-25.32		Vu=23.46

V215/N 2.95

B=0.65 H=2.00 L=0.52			B=0.65 H=1.00 L=3.55			B=0.65 H=1.00 L=2.20		
Mu=-214.09		Mu=-224.23	Mu=-87.02		Mu=-45.52	Mu=-23.45		Mu=-31.90
As=4182.75		As=4182.75	As=2473.23		As=2037.75	As=2037.75		As=2037.75
Mu=114.54	Mu=122.41	Mu=458.16	Mu=182.09	Mu=45.52	Mu=45.52	Mu=21.61	Mu=7.97	Mu=31.18
As=4182.75	As=4182.75	As=6377.51	As=5300.10	As=3180.06	As=3180.06	As=2037.75	As=2037.75	As=2037.75
Vu=-612.04		Vu=-609.40	Vu=224.84		Vu=27.24	Vu=-32.20		Vu=31.79

B=0.65 H=0.60 L=4.85		
Mu=-72.42		Mu=-92.61
As=3673.75		As=4776.29
Mu=86.91	Mu=23.15	Mu=55.20
As=4461.05	As=1190.75	As=2762.77
Vu=-32.94		Vu=35.46

V216/N 2.95

B=0.50 H=0.60 L=3.13			B=0.50 H=0.60 L=1.90		
Mu=-34.28		Mu=-12.99	Mu=-34.28		Mu=-12.99
As=1701.98		As=907.50	As=1701.98		As=907.50
Mu=17.14	Mu=8.57	Mu=8.57	Mu=17.14	Mu=8.57	Mu=8.57
As=1116.11	As=1057.04	As=907.50	As=1116.11	As=1057.04	As=907.50
Vu=-37.50		Vu=8.88	Vu=-37.50		Vu=8.88

V217/N 2.95

B=0.50 H=1.20 L=2.05			B=0.50 H=0.60 L=4.15			B=0.50 H=0.60 L=1.68		
Mu=-95.91		Mu=-85.56	Mu=-10.39		Mu=-8.62	Mu=-2.88		Mu=-11.51
As=2250.77		As=2224.98	As=907.50		As=907.50	As=907.50		As=907.50
Mu=50.67	Mu=38.99	Mu=155.96	Mu=5.20	Mu=7.02	Mu=4.31	Mu=8.36	Mu=2.88	Mu=5.76
As=1897.50	As=1897.50	As=3708.35	As=907.50	As=907.50	As=907.50	As=907.50	As=907.50	As=907.50
Vu=-100.70		Vu=-92.95	Vu=-19.49		Vu=13.91	Vu=7.96		Vu=13.83

B=0.50 H=0.60 L=3.65			B=0.50 H=0.60 L=7.45			B=0.50 H=0.60 L=2.85		
Mu=-37.57		Mu=-75.52	Mu=-13.42		Mu=-32.61	Mu=-10.37		Mu=-11.90
As=1871.32		As=3913.29	As=907.50		As=1616.45	As=907.50		As=907.50
Mu=71.36	Mu=18.88	Mu=37.76	Mu=18.71	Mu=10.23	Mu=17.73	Mu=5.18	Mu=2.97	Mu=5.95
As=3680.82	As=1012.84	As=1881.14	As=1063.89	As=907.50	As=1155.15	As=907.50	As=907.50	As=907.50
Vu=26.84		Vu=40.99	Vu=-6.42		Vu=9.73	Vu=-11.64		Vu=9.36

B=0.50 H=0.60 L=2.20		
Mu=-10.37		Mu=-11.90
As=907.50		As=907.50
Mu=5.18	Mu=2.97	Mu=5.95
As=907.50	As=907.50	As=907.50
Vu=-11.64		Vu=9.36

V218/N 2.95

B=0.40 H=0.60 L=6.97		
Mu=-17.98		Mu=-38.06
As=882.70		As=1914.71
Mu=9.52	Mu=33.03	Mu=19.03
As=990.74	As=1651.23	As=990.74
Vu=-19.29		Vu=31.33

V219/N 2.95

B=0.50 H=0.60 L=1.12			B=0.50 H=0.60 L=4.90		
Mu=-43.61		Mu=-24.58	Mu=-19.11		Mu=-27.86
As=2185.19		As=1209.10	As=935.23		As=1374.72
Mu=21.81	Mu=11.58	Mu=46.33	Mu=9.69	Mu=6.97	Mu=13.93
As=1069.81	As=907.50	As=2327.83	As=907.50	As=907.50	As=907.50
Vu=-34.87		Vu=-26.08	Vu=-12.59		Vu=14.78

V220/N 2.95

B=0.50 H=0.60 L=1.12			B=0.50 H=0.60 L=7.05		
Mu=-46.08		Mu=-21.64	Mu=-27.15		Mu=-32.92
As=2314.68		As=1130.26	As=1338.78		As=1632.31
Mu=23.04	Mu=11.52	Mu=42.22	Mu=13.57	Mu=16.22	Mu=16.46
As=1131.71	As=907.50	As=2112.61	As=907.50	As=1169.06	As=1071.15
Vu=-38.22		Vu=-32.92	Vu=-16.82		Vu=15.90

V221/N 2.95

B=0.50 H=1.20 L=2.10			B=0.50 H=0.60 L=4.10			B=0.50 H=0.60 L=1.65		
Mu=-104.14		Mu=-89.08	Mu=-7.05		Mu=-28.19	Mu=-6.82		Mu=-26.95
As=2448.23		As=2324.17	As=907.50		As=1391.44	As=907.50		As=1328.66
Mu=52.07	Mu=41.21	Mu=164.84	Mu=11.72	Mu=11.72	Mu=14.10	Mu=27.28	Mu=6.82	Mu=13.48
As=1897.50	As=1897.50	As=3927.29	As=907.50	As=907.50	As=915.26	As=1345.35	As=907.50	As=907.50
Vu=-107.56		Vu=-99.83	Vu=15.17		Vu=35.01	Vu=27.45		Vu=30.88

B=0.50 H=0.60 L=10.20			B=0.50 H=0.60 L=6.85			B=0.50 H=0.60 L=2.85		
Mu=-87.10		Mu=-46.22	Mu=-30.10		Mu=-25.71	Mu=-14.62		Mu=-11.44
As=4572.92		As=2322.04	As=1488.43		As=1266.04	As=949.80		As=907.50
Mu=43.55	Mu=43.21	Mu=23.11	Mu=15.05	Mu=7.53	Mu=26.96	Mu=7.31	Mu=5.72	Mu=5.72
As=2182.05	As=2164.28	As=1135.22	As=978.12	As=907.50	As=1329.17	As=907.50	As=907.50	As=907.50
Vu=-46.51		Vu=17.23	Vu=-10.83		Vu=6.98	Vu=-16.90		Vu=8.90

B=0.50 H=0.60 L=2.20		
Mu=-14.62		Mu=-11.44
As=949.80		As=907.50
Mu=7.31	Mu=3.65	Mu=3.65
As=907.50	As=907.50	As=907.50
Vu=-16.90		Vu=8.90

V222/N 2.95

B=0.50 H=1.20 L=2.00			B=0.50 H=0.60 L=4.20			B=0.50 H=0.60 L=1.65		
Mu=-106.07		Mu=-79.37	Mu=-4.01		Mu=-12.61	Mu=-5.08		Mu=-20.32
As=2494.64		As=2474.13	As=907.50		As=907.50	As=907.50		As=995.57
Mu=53.03	Mu=42.18	Mu=168.72	Mu=8.39	Mu=8.39	Mu=6.30	Mu=14.00	Mu=5.08	Mu=10.16
As=1897.50	As=1900.38	As=4023.23	As=907.50	As=907.50	As=907.50	As=909.01	As=907.50	As=907.50
Vu=-109.80		Vu=-102.07	Vu=-5.93		Vu=18.27	Vu=16.05		Vu=22.24

B=0.50 H=0.60 L=2.70			B=0.50 H=0.60 L=1.75			B=0.50 H=0.60 L=6.00		
Mu=-59.28		Mu=-14.82	Mu=-14.35		Mu=-57.40	Mu=-26.10		Mu=-28.18
As=3018.41		As=962.97	As=932.03		As=2916.94	As=1285.72		As=1390.93
Mu=40.40	Mu=33.09	Mu=28.49	Mu=14.35	Mu=14.35	Mu=28.70	Mu=13.05	Mu=7.09	Mu=28.38
As=2017.90	As=1686.70	As=1406.65	As=932.03	As=932.03	As=1417.30	As=907.50	As=907.50	As=1401.07
Vu=-36.24		Vu=-13.28	Vu=26.17		Vu=33.72	Vu=-11.02		Vu=8.01

B=0.50 H=0.60 L=2.85			B=0.50 H=0.60 L=2.20		
Mu=-5.08		Mu=-12.55	Mu=-5.08		Mu=-12.55
As=907.50		As=907.50	As=907.50		As=907.50
Mu=3.14	Mu=3.14	Mu=6.28	Mu=3.14	Mu=3.14	Mu=3.14
As=907.50	As=907.50	As=907.50	As=907.50	As=907.50	As=907.50
Vu=-6.65		Vu=10.05	Vu=-6.65		Vu=10.05

V223/N 2.95

B=0.30 H=0.60 L=5.00		
Mu=-5.05		Mu=-20.22
As=544.50		As=1003.35
Mu=7.10	Mu=12.45	Mu=10.11
As=563.73	As=711.07	As=658.16
Vu=-10.66		Vu=10.58

V224/N 2.95

B=0.50 H=1.20 L=2.00			B=0.50 H=0.60 L=4.17			B=0.50 H=0.60 L=1.25		
Mu=-109.75		Mu=-99.81	Mu=-5.34		Mu=-14.54	Mu=-6.11		Mu=-24.42
As=2583.24		As=2344.25	As=907.50		As=944.54	As=907.50		As=1201.05
Mu=60.67	Mu=42.65	Mu=170.61	Mu=8.96	Mu=8.96	Mu=7.27	Mu=16.08	Mu=6.11	Mu=12.21
As=1897.50	As=1897.50	As=4070.03	As=907.50	As=907.50	As=907.50	As=1046.06	As=907.50	As=907.50
Vu=-111.95		Vu=-104.22	Vu=-8.05		Vu=21.15	Vu=19.60		Vu=25.47

B=0.50 H=0.60 L=5.95			B=0.50 H=0.60 L=2.85			B=0.50 H=0.60 L=2.20		
Mu=-50.50		Mu=-57.78	Mu=-24.78		Mu=-13.11	Mu=-24.78		Mu=-13.11
As=2548.09		As=2937.42	As=1219.17		As=907.50	As=1219.17		As=907.50
Mu=40.54	Mu=14.44	Mu=31.38	Mu=14.58	Mu=6.55	Mu=6.55	Mu=14.58	Mu=6.20	Mu=6.20
As=2025.17	As=1009.90	As=1553.63	As=947.17	As=1055.30	As=907.50	As=947.17	As=1055.30	As=907.50
Vu=-22.12		Vu=24.08	Vu=-28.24		Vu=9.62	Vu=-28.24		Vu=9.62

V225/N 2.95

B=0.40 H=0.60 L=1.90			B=0.40 H=0.60 L=4.25		
Mu=-3.04		Mu=-12.16	Mu=-51.32		Mu=-12.83
As=726.00		As=790.41	As=2626.61		As=834.60
Mu=7.42	Mu=3.04	Mu=6.08	Mu=25.66	Mu=12.83	Mu=31.75
As=726.00	As=726.00	As=726.00	As=1271.29	As=834.60	As=1584.73
Vu=7.92		Vu=9.47	Vu=-20.03		Vu=-16.92

V226/N 2.95

B=0.65 H=2.00 L=0.50			B=0.65 H=0.60 L=3.70			B=0.65 H=0.60 L=2.20		
Mu=-163.78		Mu=-247.53	Mu=-95.05		Mu=-36.61	Mu=-26.73		Mu=-36.85
As=4182.75		As=4537.88	As=4912.23		As=1807.12	As=1309.91		As=1819.16
Mu=110.63	Mu=100.90	Mu=364.59	Mu=146.45	Mu=36.61	Mu=36.61	Mu=23.41	Mu=9.98	Mu=39.90
As=4182.75	As=4182.75	As=5047.63	As=7931.48	As=1807.12	As=1807.12	As=1525.61	As=1179.75	As=1974.16
Vu=-484.26		Vu=-480.71	Vu=182.60		Vu=27.61	Vu=-40.26		Vu=36.03

B=0.65 H=0.60 L=2.00			B=0.50 H=0.60 L=1.75			B=0.50 H=0.60 L=1.29		
Mu=-104.25		Mu=-133.41	Mu=-42.07		Mu=-35.88	Mu=-70.71		Mu=-92.13
As=5430.32		As=7135.02	As=2104.79		As=1784.20	As=3644.71		As=4865.49
Mu=129.58	Mu=33.35	Mu=102.44	Mu=34.02	Mu=10.52	Mu=35.30	Mu=77.43	Mu=23.03	Mu=79.77
As=6905.31	As=1642.30	As=5327.69	As=1688.64	As=907.50	As=1754.36	As=4020.80	As=1325.63	As=4153.19
Vu=91.86		Vu=101.46	Vu=-34.90		Vu=31.21	Vu=94.77		Vu=98.04

B=0.50 H=0.60 L=1.27		
Mu=-19.11		Mu=-0.45
As=935.23		As=907.50
Mu=3.82	Mu=0.00	Mu=0.05
As=907.50	As=907.50	As=907.50
Vu=-11.83		Vu=-7.49

V227/N 2.95

B=0.50 H=1.50 L=0.60			B=0.50 H=0.60 L=3.70			B=0.50 H=0.60 L=1.90		
Mu=-69.06		Mu=-158.65	Mu=-12.18		Mu=-4.56	Mu=-8.76		Mu=-20.17
As=2392.50		As=2955.28	As=907.50		As=907.50	As=907.50		As=988.08
Mu=67.64	Mu=101.20	Mu=270.55	Mu=18.24	Mu=4.56	Mu=4.56	Mu=10.85	Mu=5.04	Mu=13.58
As=2392.50	As=2509.44	As=5118.33	As=1188.94	As=907.50	As=907.50	As=907.50	As=907.50	As=907.50
Vu=-311.62		Vu=-308.36	Vu=22.60		Vu=4.51	Vu=14.59		Vu=19.91

B=0.50 H=0.60 L=2.60		
Mu=-49.53		Mu=-3.75
As=2496.68		As=907.50
Mu=28.66	Mu=16.44	Mu=4.07
As=1415.27	As=1069.83	As=907.50
Vu=-29.64		Vu=-24.32

V228/N 2.95

B=0.40 H=0.60 L=5.00			B=0.40 H=0.60 L=5.55			B=0.40 H=0.60 L=1.72		
Mu=-3.77		Mu=-15.07	Mu=-20.54		Mu=-5.14	Mu=-0.13		Mu=-0.00
As=726.00		As=737.33	As=1011.42		As=726.00	As=726.00		As=726.00
Mu=3.77	Mu=8.68	Mu=7.53	Mu=10.27	Mu=7.08	Mu=5.14	Mu=0.83	Mu=2.81	Mu=0.84
As=726.00	As=726.00	As=726.00	As=726.00	As=726.00	As=726.00	As=726.00	As=726.00	As=726.00
Vu=-7.82		Vu=12.97	Vu=-13.74		Vu=5.69	Vu=-3.79		Vu=3.67

V229/N 2.95

B=0.40 H=0.60 L=4.80			B=0.40 H=0.60 L=3.26			B=0.40 H=0.60 L=1.62		
Mu=-18.05		Mu=-18.19	Mu=-15.99		Mu=-33.81	Mu=-15.54		Mu=-1.52
As=886.20		As=893.22	As=810.06		As=1691.86	As=760.74		As=726.00
Mu=14.91	Mu=6.43	Mu=9.24	Mu=17.18	Mu=8.45	Mu=16.91	Mu=3.11	Mu=0.00	Mu=0.35
As=729.36	As=726.00	As=726.00	As=842.63	As=828.88	As=828.88	As=726.00	As=726.00	As=726.00
Vu=-9.92		Vu=11.25	Vu=10.63		Vu=17.69	Vu=-9.25		Vu=-4.19

V300/N 8.75

B=0.50 H=0.80 L=2.10			B=0.50 H=1.40 L=5.95			B=0.50 H=1.40 L=11.10		
Mu=-0.00		Mu=-49.87	Mu=-66.16		Mu=-151.74	Mu=-225.42		Mu=-209.22
As=1237.50		As=1802.78	As=2227.50		As=3042.70	As=4573.66		As=4233.84
Mu=7.80	Mu=0.00	Mu=9.97	Mu=37.94	Mu=37.94	Mu=75.87	Mu=112.71	Mu=61.35	Mu=104.61
As=1237.50	As=1237.50	As=1237.50	As=2227.50	As=2227.50	As=2227.50	As=2298.82	As=2227.50	As=2775.79
Vu=19.59		Vu=25.42	Vu=-36.81		Vu=43.74	Vu=-70.56		Vu=70.52

B=0.50 H=1.40 L=11.10			B=0.50 H=1.40 L=11.10			B=0.50 H=1.40 L=11.10		
Mu=-197.82		Mu=-189.35	Mu=-197.92		Mu=-194.30	Mu=-207.58		Mu=-179.99
As=3995.81		As=3819.54	As=3997.89		As=3922.49	As=4199.54		As=3625.32
Mu=98.91	Mu=49.46	Mu=94.68	Mu=98.96	Mu=49.48	Mu=97.15	Mu=103.79	Mu=55.18	Mu=90.00
As=2622.25	As=2227.50	As=2508.35	As=2623.59	As=2227.50	As=2574.90	As=2753.68	As=2227.50	As=2382.65
Vu=-65.94		Vu=63.95	Vu=-66.07		Vu=65.40	Vu=-69.03		Vu=64.17

B=0.50 H=1.40 L=9.45			B=0.50 H=0.80 L=3.40		
Mu=-175.66		Mu=-209.52	Mu=-97.47		Mu=-24.37
As=3535.67		As=4240.11	As=3613.67		As=1237.50
Mu=87.83	Mu=52.38	Mu=104.76	Mu=48.74	Mu=24.37	Mu=24.37
As=2324.56	As=2227.50	As=2779.83	As=1760.73	As=1237.50	As=1237.50
Vu=-63.05		Vu=63.30	Vu=-34.40		Vu=-23.74

V301/N 8.75

B=0.50 H=2.20 L=4.70			B=0.50 H=2.20 L=5.65			B=0.50 H=2.20 L=11.10		
Mu=-88.93		Mu=-355.74	Mu=-509.99		Mu=-136.39	Mu=-233.20		Mu=-287.69
As=3547.50		As=4471.02	As=6471.70		As=3547.50	As=3877.88		As=3603.71
Mu=88.93	Mu=88.93	Mu=177.87	Mu=254.99	Mu=127.50	Mu=179.93	Mu=131.51	Mu=143.85	Mu=143.85
As=3547.50	As=3547.50	As=3547.50	As=4245.89	As=3547.50	As=3547.50	As=3547.50	As=3547.50	As=3547.50
Vu=65.69		Vu=94.16	Vu=-149.33		Vu=-105.35	Vu=-91.54		Vu=93.86

B=0.50 H=2.20 L=11.10			B=0.50 H=2.20 L=11.10			B=0.50 H=2.20 L=11.10		
Mu=-273.93		Mu=-244.10	Mu=-246.94		Mu=-242.28	Mu=-297.34		Mu=-206.41
As=4566.40		As=4061.81	As=4109.76		As=4031.08	As=3723.70		As=3547.50
Mu=136.96	Mu=68.48	Mu=122.05	Mu=123.47	Mu=61.74	Mu=121.14	Mu=148.67	Mu=75.52	Mu=143.55
As=3547.50	As=3547.50	As=3547.50	As=3547.50	As=3547.50	As=3547.50	As=3547.50	As=3547.50	As=3547.50
Vu=-88.83		Vu=98.97	Vu=-81.78		Vu=80.07	Vu=-95.40		Vu=76.51

B=0.50 H=2.20 L=9.85			B=0.50 H=2.20 L=3.10			B=0.50 H=2.20 L=2.65		
Mu=-173.21		Mu=-352.23	Mu=-486.23		Mu=-121.56	Mu=-98.52		Mu=-11.17
As=3547.50		As=4425.95	As=6160.93		As=3547.50	As=3547.50		As=3547.50
Mu=107.02	Mu=103.13	Mu=176.12	Mu=267.39	Mu=121.56	Mu=121.56	Mu=55.91	Mu=37.58	Mu=13.50
As=3547.50	As=3547.50	As=3547.50	As=4455.62	As=3547.50	As=3547.50	As=3547.50	As=3547.50	As=3547.50
Vu=-69.25		Vu=96.05	Vu=-188.24		Vu=-167.59	Vu=-41.45		Vu=-29.19

V302/N 8.75

B=0.30 H=1.00 L=1.88			B=0.30 H=1.00 L=1.80		
Mu=-1.30		Mu=-10.24	Mu=-13.62		Mu=-0.00
As=940.50		As=940.50	As=940.50		As=940.50
Mu=0.29	Mu=0.00	Mu=2.05	Mu=2.72	Mu=0.00	Mu=0.56
As=940.50	As=940.50	As=940.50	As=940.50	As=940.50	As=940.50
Vu=4.36		Vu=5.39	Vu=-7.57		Vu=-6.53

V303/N 8.75

B=0.50 H=1.20 L=8.60			B=0.50 H=2.20 L=1.55			B=0.50 H=2.20 L=4.40		
Mu=-57.30		Mu=-229.21	Mu=-201.83		Mu=-136.91	Mu=-211.57		Mu=-846.30
As=1897.50		As=5542.17	As=3547.50		As=3547.50	As=3547.50		As=10978.77
Mu=57.30	Mu=61.04	Mu=114.61	Mu=100.92	Mu=50.46	Mu=68.46	Mu=211.57	Mu=211.57	Mu=769.50
As=1897.50	As=1897.50	As=2700.36	As=3547.50	As=3547.50	As=3547.50	As=5958.61	As=5958.61	As=9931.01
Vu=-26.26		Vu=74.32	Vu=94.25		Vu=99.73	Vu=-182.48		Vu=360.99

B=0.50 H=2.20 L=7.05			B=0.50 H=2.20 L=6.75			B=0.50 H=2.20 L=7.22		
Mu=-1041.17		Mu=-898.50	Mu=-350.30		Mu=-87.57	Mu=-141.11		Mu=-564.44
As=13690.32		As=11697.52	As=4401.18		As=3547.50	As=3547.50		As=7187.55
Mu=984.11	Mu=260.29	Mu=712.98	Mu=175.15	Mu=87.57	Mu=203.94	Mu=293.68	Mu=263.35	Mu=385.02
As=12888.22	As=4350.59	As=9167.13	As=3547.50	As=3547.50	As=3547.50	As=3677.05	As=4387.23	As=4847.77
Vu=-321.98		Vu=338.76	Vu=-121.51		Vu=-57.59	Vu=103.09		Vu=156.46

V304/N 8.75

B=0.50 H=2.20 L=13.20			B=0.50 H=2.20 L=13.20			B=0.50 H=2.20 L=4.50		
Mu=-474.73		Mu=-411.11	Mu=-420.70		Mu=-233.62	Mu=-807.28		Mu=-1171.44
As=6010.86		As=5184.64	As=5308.76		As=3884.97	As=10445.01		As=15548.00
Mu=237.37	Mu=158.28	Mu=205.55	Mu=210.35	Mu=154.85	Mu=116.81	Mu=805.47	Mu=292.86	Mu=1071.46
As=3948.13	As=3547.50	As=3547.50	As=3547.50	As=3547.50	As=3547.50	As=10420.32	As=5162.89	As=14118.93
Vu=-138.26		Vu=122.60	Vu=-111.71		Vu=103.54	Vu=-449.14		Vu=496.10

B=0.50 H=2.20 L=2.25			B=0.50 H=2.20 L=4.30			B=0.50 H=2.20 L=1.55		
Mu=-914.42		Mu=-228.60	Mu=-222.33		Mu=-192.66	Mu=-179.39		Mu=-64.35
As=11917.81		As=3919.86	As=3694.72		As=3547.50	As=3547.50		As=3547.50
Mu=788.61	Mu=537.61	Mu=228.60	Mu=168.63	Mu=82.21	Mu=136.46	Mu=113.69	Mu=57.28	Mu=44.85
As=10190.66	As=6834.18	As=4236.00	As=3547.50	As=3547.50	As=3547.50	As=3547.50	As=3547.50	As=3547.50
Vu=-381.69		Vu=-354.86	Vu=-207.30		Vu=95.13	Vu=-74.91		Vu=-68.71

B=0.50 H=1.20 L=3.20			B=0.50 H=1.20 L=3.85		
Mu=-354.88		Mu=-338.04	Mu=-143.63		Mu=-2.07
As=8850.69		As=8394.28	As=3405.83		As=1897.50
Mu=320.61	Mu=88.72	Mu=328.37	Mu=28.73	Mu=0.00	Mu=4.60
As=7926.34	As=2078.84	As=8134.12	As=1897.50	As=1897.50	As=1897.50
Vu=-205.25		Vu=194.45	Vu=-57.26		Vu=-37.01

V305/N 8.75

B=0.50 H=1.55 L=7.45			B=0.50 H=1.55 L=13.33			B=0.50 H=1.55 L=6.75		
Mu=-0.00		Mu=-359.02	Mu=-238.68		Mu=-170.95	Mu=-201.85		Mu=-152.13
As=2475.00		As=6627.18	As=4335.91		As=3078.71	As=3649.50		As=2813.70
Mu=8.32	Mu=0.00	Mu=71.80	Mu=119.34	Mu=67.12	Mu=85.47	Mu=126.43	Mu=50.46	Mu=85.83
As=2475.00	As=2475.00	As=2475.00	As=2846.51	As=2475.00	As=2475.00	As=3018.27	As=2475.00	As=2475.00
Vu=-10.56		Vu=-87.84	Vu=-64.88		Vu=60.31	Vu=-63.68		Vu=61.08

B=0.50 H=1.55 L=8.40		
Mu=-118.39		Mu=-147.74
As=2823.52		As=2793.08
Mu=59.19	Mu=66.86	Mu=73.87
As=2475.00	As=2475.00	As=2475.00
Vu=-52.49		Vu=53.04

V306/N 8.75

B=0.50 H=1.15 L=2.90			B=0.50 H=1.15 L=5.10			B=0.50 H=1.15 L=13.20		
Mu=-159.12		Mu=-127.85	Mu=-159.12		Mu=-127.85	Mu=-178.96		Mu=-184.88
As=3971.43		As=3166.73	As=3971.43		As=3166.73	As=4488.70		As=4644.08
Mu=79.56	Mu=39.78	Mu=140.01	Mu=79.56	Mu=39.78	Mu=140.01	Mu=89.48	Mu=61.36	Mu=92.44
As=2036.81	As=1900.27	As=3478.14	As=2036.81	As=1900.27	As=3478.14	As=2196.21	As=2067.36	As=2270.44
Vu=-65.97		Vu=44.93	Vu=-65.97		Vu=44.93	Vu=-56.29		Vu=57.53

B=0.50 H=1.15 L=13.20			B=0.50 H=1.15 L=13.20			B=0.50 H=1.15 L=3.20		
Mu=-200.86		Mu=-202.50	Mu=-152.67		Mu=-109.71	Mu=-217.98		Mu=-222.84
As=5065.96		As=5109.46	As=3804.40		As=2705.64	As=5521.95		As=5652.18
Mu=100.43	Mu=62.81	Mu=101.25	Mu=76.33	Mu=54.46	Mu=54.85	Mu=134.64	Mu=55.71	Mu=193.07
As=2471.33	As=2046.58	As=2492.00	As=1867.84	As=1815.00	As=1815.00	As=3340.39	As=1815.00	As=4859.85
Vu=-59.42		Vu=59.47	Vu=-52.84		Vu=43.67	Vu=-120.62		Vu=-104.52

B=0.50 H=1.15 L=5.50		
Mu=-158.64		Mu=-0.77
As=3958.98		As=1815.00
Mu=31.73	Mu=0.00	Mu=2.24
As=1815.00	As=1815.00	As=1815.00
Vu=-49.99		Vu=-13.48

V307/N 8.75

B=0.60 H=1.20 L=6.04			B=0.60 H=2.20 L=2.70			B=0.60 H=2.20 L=4.25		
Mu=-206.46		Mu=-289.58	Mu=-184.40		Mu=-287.30	Mu=-214.29		Mu=-53.57
As=4926.86		As=7021.91	As=4257.00		As=4779.30	As=4257.00		As=4257.00
Mu=275.26	Mu=72.90	Mu=182.24	Mu=154.69	Mu=71.82	Mu=143.65	Mu=107.14	Mu=53.57	Mu=53.57
As=6655.90	As=2987.51	As=4329.27	As=4257.00	As=4257.00	As=4257.00	As=4257.00	As=4257.00	As=4257.00
Vu=62.61		Vu=108.06	Vu=109.54		Vu=125.03	Vu=-87.74		Vu=-6.22

V308/N 8.75

B=0.60 H=2.20 L=2.45			B=0.60 H=2.20 L=4.90			B=0.60 H=2.20 L=1.90		
Mu=-0.00		Mu=-115.97	Mu=-80.17		Mu=-67.20	Mu=-124.09		Mu=-180.40
As=4257.00		As=4257.00	As=4257.00		As=4257.00	As=4257.00		As=4257.00
Mu=4.44	Mu=0.00	Mu=23.19	Mu=40.08	Mu=20.04	Mu=75.20	Mu=85.42	Mu=52.64	Mu=210.57
As=4257.00	As=4257.00	As=4257.00	As=4257.00	As=4257.00	As=4257.00	As=4257.00	As=4257.00	As=4257.00
Vu=32.28		Vu=46.17	Vu=-65.05		Vu=-62.62	Vu=-189.09		Vu=-183.46

B=0.60 H=1.20 L=5.37		
Mu=-358.21		Mu=-399.17
As=8807.20		As=9898.64
Mu=389.60	Mu=99.79	Mu=307.62
As=9641.82	As=2674.06	As=7486.12
Vu=-142.47		Vu=152.77

V309/N 8.75

B=0.50 H=2.20 L=3.40			B=0.50 H=2.20 L=1.90		
Mu=-93.87		Mu=-132.91	Mu=-44.58		Mu=-0.00
As=3547.50		As=3547.50	As=3547.50		As=3547.50
Mu=1.11	Mu=10.11	Mu=26.58	Mu=8.92	Mu=0.00	Mu=7.85
As=3547.50	As=3547.50	As=3547.50	As=3547.50	As=3547.50	As=3547.50
Vu=-8.90		Vu=19.22	Vu=-25.53		Vu=-15.19

V310/N 8.75

B=0.50 H=2.20 L=2.55			B=0.50 H=2.20 L=5.35			B=0.50 H=2.20 L=2.05		
Mu=-0.00		Mu=-74.33	Mu=-137.52		Mu=-52.85	Mu=-26.17		Mu=-90.45
As=3547.50		As=3547.50	As=3547.50		As=3547.50	As=3547.50		As=3547.50
Mu=12.64	Mu=0.00	Mu=14.87	Mu=68.76	Mu=68.76	Mu=52.86	Mu=70.76	Mu=22.61	Mu=45.22
As=3547.50	As=3547.50	As=3547.50	As=3547.50	As=3547.50	As=3547.50	As=3547.50	As=3547.50	As=3547.50
Vu=21.32		Vu=35.06	Vu=-35.71		Vu=58.85	Vu=77.21		Vu=85.30

B=0.50 H=0.80 L=1.55		
Mu=-81.39		Mu=-0.00
As=2991.20		As=1237.50
Mu=16.28	Mu=0.00	Mu=11.96
As=1237.50	As=1237.50	As=1237.50
Vu=-44.83		Vu=-33.11

V311/N 8.75

B=0.50 H=2.20 L=0.60			B=0.50 H=2.20 L=3.40			B=0.50 H=2.20 L=1.90		
Mu=-0.00		Mu=-4.34	Mu=-70.47		Mu=-125.47	Mu=-38.44		Mu=-0.00
As=3547.50		As=3547.50	As=3547.50		As=3547.50	As=3547.50		As=3547.50
Mu=2.17	Mu=0.50	Mu=0.87	Mu=35.24	Mu=31.37	Mu=62.74	Mu=7.69	Mu=0.00	Mu=8.21
As=3547.50	As=3547.50	As=3547.50	As=3547.50	As=3547.50	As=3547.50	As=3547.50	As=3547.50	As=3547.50
Vu=5.47		Vu=8.63	Vu=25.65		Vu=40.00	Vu=-24.05		Vu=-13.13

V312/N 8.75

B=0.50 H=2.20 L=2.40			B=0.50 H=2.20 L=4.90			B=0.50 H=2.20 L=1.80		
Mu=-0.00		Mu=-75.39	Mu=-191.70		Mu=-93.74	Mu=-88.29		Mu=-29.79
As=3547.50		As=3547.50	As=3547.50		As=3547.50	As=3547.50		As=3547.50
Mu=5.78	Mu=0.00	Mu=15.08	Mu=95.85	Mu=47.92	Mu=183.41	Mu=44.15	Mu=22.07	Mu=22.07
As=3547.50	As=3547.50	As=3547.50	As=3547.50	As=3547.50	As=3547.50	As=3547.50	As=3547.50	As=3547.50
Vu=19.67		Vu=33.41	Vu=-77.63		Vu=-51.51	Vu=-32.63		Vu=-23.20

B=0.50 H=0.80 L=1.60		
Mu=-28.86		Mu=-7.22
As=1376.19		As=1237.50
Mu=14.43	Mu=7.22	Mu=8.96
As=1237.50	As=1237.50	As=1237.50
Vu=-23.01		Vu=-13.77

V313/N 8.75

B=0.60 H=1.00 L=1.05			B=0.60 H=1.00 L=7.32		
Mu=-0.40		Mu=-48.24	Mu=-68.60		Mu=-88.88
As=1881.00		As=1881.00	As=1991.79		As=2531.78
Mu=14.30	Mu=0.00	Mu=9.65	Mu=34.30	Mu=34.21	Mu=57.23
As=1881.00	As=1881.00	As=1881.00	As=1881.00	As=1881.00	As=2155.23
Vu=13.45		Vu=23.50	Vu=-33.63		Vu=28.94

V314/N 8.75

B=0.50 H=2.20 L=0.75			B=0.50 H=2.20 L=2.50			B=0.50 H=2.20 L=1.35		
Mu=-0.00		Mu=-14.71	Mu=-110.85		Mu=-134.48	Mu=-79.54		Mu=-169.82
As=3547.50		As=3547.50	As=3547.50		As=3547.50	As=3547.50		As=3547.50
Mu=5.67	Mu=4.01	Mu=2.99	Mu=55.42	Mu=33.62	Mu=67.24	Mu=137.92	Mu=42.46	Mu=92.62
As=3547.50	As=3547.50	As=3547.50	As=3547.50	As=3547.50	As=3547.50	As=3547.50	As=3547.50	As=3547.50
Vu=11.16		Vu=16.79	Vu=14.29		Vu=25.54	Vu=182.33		Vu=189.76

B=0.50 H=2.20 L=2.00			B=0.50 H=0.80 L=1.60		
Mu=-112.94		Mu=-226.52	Mu=-170.06		Mu=-42.51
As=3547.50		As=3765.30	As=6580.88		As=1531.17
Mu=253.70	Mu=63.42	Mu=113.26	Mu=85.03	Mu=42.51	Mu=42.51
As=4223.99	As=3547.50	As=3547.50	As=3131.11	As=1531.17	As=1531.17
Vu=257.83		Vu=264.39	Vu=-87.10		Vu=-64.15

V315/N 8.75

B=0.50 H=2.20 L=3.40			B=0.50 H=2.20 L=1.90		
Mu=-88.33		Mu=-109.56	Mu=-37.90		Mu=-0.00
As=3547.50		As=3547.50	As=3547.50		As=3547.50
Mu=44.17	Mu=27.39	Mu=54.78	Mu=7.58	Mu=0.00	Mu=7.70
As=3547.50	As=3547.50	As=3547.50	As=3547.50	As=3547.50	As=3547.50
Vu=-22.78		Vu=23.76	Vu=-23.79		Vu=-12.87

V316/N 8.75

B=0.50 H=2.20 L=0.75			B=0.50 H=2.20 L=2.50			B=0.50 H=2.20 L=1.35		
Mu=-0.00		Mu=-11.60	Mu=-136.29		Mu=-95.02	Mu=-61.09		Mu=-24.94
As=3547.50		As=3547.50	As=3547.50		As=3547.50	As=3547.50		As=3547.50
Mu=7.48	Mu=0.55	Mu=2.32	Mu=68.14	Mu=34.07	Mu=47.51	Mu=99.77	Mu=51.23	Mu=24.94
As=3547.50	As=3547.50	As=3547.50	As=3547.50	As=3547.50	As=3547.50	As=3547.50	As=3547.50	As=3547.50
Vu=10.21		Vu=16.28	Vu=-24.28		Vu=29.01	Vu=57.01		Vu=64.43

B=0.50 H=2.20 L=2.00			B=0.50 H=0.80 L=1.60		
Mu=-32.49		Mu=-129.94	Mu=-85.81		Mu=-0.00
As=3547.50		As=3547.50	As=3161.17		As=1237.50
Mu=83.01	Mu=32.49	Mu=64.97	Mu=17.16	Mu=0.00	Mu=10.92
As=3547.50	As=3547.50	As=3547.50	As=1237.50	As=1237.50	As=1237.50
Vu=101.01		Vu=109.96	Vu=-47.03		Vu=-35.33

V317/N 8.75

B=0.50 H=2.20 L=0.60			B=0.50 H=2.20 L=3.40			B=0.50 H=2.20 L=1.90		
Mu=-0.00		Mu=-3.44	Mu=-65.54		Mu=-125.07	Mu=-38.02		Mu=-0.00
As=3547.50		As=3547.50	As=3547.50		As=3547.50	As=3547.50		As=3547.50
Mu=2.00	Mu=0.56	Mu=0.69	Mu=32.77	Mu=31.27	Mu=62.53	Mu=7.60	Mu=0.00	Mu=8.17
As=3547.50	As=3547.50	As=3547.50	As=3547.50	As=3547.50	As=3547.50	As=3547.50	As=3547.50	As=3547.50
Vu=4.97		Vu=8.14	Vu=24.02		Vu=38.38	Vu=-24.06		Vu=-13.14

V318/N 8.75

B=0.50 H=2.20 L=0.75			B=0.50 H=2.20 L=2.50			B=0.50 H=2.20 L=1.35		
Mu=-0.00		Mu=-14.91	Mu=-147.15		Mu=-106.43	Mu=-78.26		Mu=-53.08
As=3547.50		As=3547.50	As=3547.50		As=3547.50	As=3547.50		As=3547.50
Mu=6.79	Mu=0.75	Mu=2.98	Mu=73.57	Mu=36.79	Mu=53.22	Mu=103.74	Mu=49.51	Mu=54.37
As=3547.50	As=3547.50	As=3547.50	As=3547.50	As=3547.50	As=3547.50	As=3547.50	As=3547.50	As=3547.50
Vu=12.59		Vu=18.22	Vu=-22.51		Vu=24.30	Vu=75.79		Vu=83.22

B=0.50 H=2.20 L=1.40		
Mu=-57.01		Mu=-228.04
As=3547.50		As=3790.90
Mu=97.81	Mu=57.01	Mu=139.91
As=3547.50	As=3547.50	As=3547.50
Vu=177.32		Vu=185.40

V319/N 8.75

B=0.60 H=1.20 L=6.55			B=0.60 H=2.20 L=3.45			B=0.60 H=2.20 L=1.90		
Mu=-246.49		Mu=-270.29	Mu=-90.65		Mu=-127.29	Mu=-41.86		Mu=-0.00
As=5927.05		As=6529.38	As=4257.00		As=4257.00	As=4257.00		As=4257.00
Mu=250.46	Mu=67.57	Mu=228.37	Mu=45.33	Mu=31.82	Mu=63.65	Mu=8.37	Mu=0.00	Mu=8.51
As=6027.12	As=2277.00	As=5472.34	As=4257.00	As=4257.00	As=4257.00	As=4257.00	As=4257.00	As=4257.00
Vu=-92.91		Vu=93.46	Vu=5.93		Vu=20.28	Vu=-24.24		Vu=-13.89

V320/N 8.75

B=0.40 H=1.00 L=1.90			B=0.40 H=1.00 L=6.05		
Mu=-9.95		Mu=-25.23	Mu=-98.19		Mu=-73.04
As=1254.00		As=1254.00	As=2841.46		As=2092.05
Mu=12.11	Mu=6.31	Mu=17.80	Mu=84.08	Mu=24.55	Mu=63.13
As=1254.00	As=1254.00	As=1254.00	As=2419.05	As=1254.00	As=1801.05
Vu=15.55		Vu=17.63	Vu=-38.56		Vu=26.03

V321/N 8.75

B=0.60 H=2.20 L=0.75			B=0.60 H=2.20 L=4.75			B=0.60 H=2.20 L=1.90		
Mu=-0.94		Mu=-23.08	Mu=-49.34		Mu=-62.27	Mu=-71.08		Mu=-173.36
As=4257.00		As=4257.00	As=4257.00		As=4257.00	As=4257.00		As=4257.00
Mu=1.98	Mu=2.87	Mu=4.68	Mu=32.76	Mu=15.57	Mu=55.25	Mu=58.03	Mu=62.48	Mu=192.40
As=4257.00	As=4257.00	As=4257.00	As=4257.00	As=4257.00	As=4257.00	As=4257.00	As=4257.00	As=4257.00
Vu=16.73		Vu=21.82	Vu=38.97		Vu=60.73	Vu=-150.25		Vu=-142.94

B=0.60 H=1.20 L=2.30			B=0.60 H=2.20 L=1.85			B=0.60 H=2.20 L=1.30		
Mu=-371.78		Mu=-372.30	Mu=-410.81		Mu=-315.78	Mu=-363.94		Mu=-257.03
As=9166.57		As=9180.38	As=5158.90		As=5260.60	As=4559.42		As=4269.28
Mu=411.73	Mu=102.93	Mu=337.75	Mu=360.77	Mu=102.70	Mu=301.87	Mu=337.60	Mu=90.99	Mu=221.37
As=10237.43	As=2455.18	As=8269.42	As=4895.51	As=4257.00	As=5025.36	As=5630.30	As=4257.00	As=4257.00
Vu=282.19		Vu=293.26	Vu=-289.45		Vu=-278.90	Vu=-325.19		Vu=331.58

B=0.60 H=2.20 L=2.25		
Mu=-51.69		Mu=-0.00
As=4257.00		As=4257.00
Mu=10.34	Mu=0.00	Mu=15.77
As=4257.00	As=4257.00	As=4257.00
Vu=-27.03		Vu=-14.37

V322/N 8.75

B=0.50 H=2.20 L=0.75			B=0.50 H=2.20 L=4.75			B=0.50 H=2.20 L=1.90		
Mu=-0.53		Mu=-22.01	Mu=-35.60		Mu=-21.54	Mu=-37.48		Mu=-107.80
As=3547.50		As=3547.50	As=3547.50		As=3547.50	As=3547.50		As=3547.50
Mu=1.57	Mu=3.58	Mu=6.70	Mu=48.29	Mu=12.07	Mu=24.93	Mu=39.11	Mu=29.83	Mu=94.96
As=3547.50	As=3547.50	As=3547.50	As=3547.50	As=3547.50	As=3547.50	As=3547.50	As=3547.50	As=3547.50
Vu=16.40		Vu=21.46	Vu=34.34		Vu=-21.49	Vu=77.91		Vu=85.23

B=0.50 H=2.20 L=1.25		
Mu=-253.12		Mu=-71.17
As=4214.19		As=3547.50
Mu=284.68	Mu=132.88	Mu=71.17
As=3562.42	As=3547.50	As=3547.50
Vu=169.12		Vu=176.35

V323/N 8.75

B=0.30 H=1.00 L=18.52		
Mu=-46.92		Mu=-116.51
As=1338.28		As=3455.78
Mu=29.13	Mu=45.59	Mu=58.26
As=1097.21	As=1299.44	As=1671.69
Vu=-20.60		Vu=42.21

V324/N 8.75

B=0.40 H=1.00 L=18.43		
Mu=-74.64		Mu=-187.38
As=2139.25		As=5640.13
Mu=46.85	Mu=59.83	Mu=93.69
As=1327.91	As=1704.67	As=2706.19
Vu=-24.00		Vu=70.41

V400/N 12.95

B=0.50 H=0.80 L=1.76			B=0.50 H=0.80 L=5.90			B=0.50 H=0.80 L=11.10		
Mu=-2.73		Mu=-68.41	Mu=-68.32		Mu=-91.09	Mu=-132.49		Mu=-132.17
As=1237.50		As=2568.25	As=2564.64		As=3501.54	As=5345.78		As=5330.70
Mu=0.59	Mu=0.00	Mu=13.68	Mu=22.77	Mu=18.22	Mu=40.79	Mu=44.16	Mu=44.16	Mu=44.06
As=1237.50	As=1237.50	As=1237.50	As=1237.50	As=1237.50	As=1491.12	As=1619.50	As=1621.06	As=1615.43
Vu=25.89		Vu=28.70	Vu=-28.68		Vu=28.16	Vu=-43.31		Vu=44.10

B=0.50 H=0.80 L=11.10			B=0.50 H=0.80 L=11.10			B=0.50 H=0.80 L=11.10		
Mu=-136.99		Mu=-131.17	Mu=-136.34		Mu=-131.49	Mu=-137.05		Mu=-136.05
As=5559.29		As=5283.69	As=5528.27		As=5298.72	As=5562.16		As=5514.45
Mu=45.66	Mu=43.58	Mu=45.38	Mu=45.45	Mu=43.90	Mu=45.28	Mu=45.68	Mu=43.46	Mu=45.35
As=1676.86	As=1614.72	As=1666.01	As=1668.57	As=1611.82	As=1662.19	As=1677.63	As=1592.67	As=1664.87
Vu=-45.11		Vu=44.01	Vu=-44.99		Vu=44.18	Vu=-44.88		Vu=43.66

B=0.50 H=0.80 L=5.15		
Mu=-132.28		Mu=-2.08
As=5335.88		As=1237.50
Mu=26.46	Mu=7.93	Mu=10.11
As=1272.53	As=1237.50	As=1237.50
Vu=-38.10		Vu=8.65

V401/N 12.95

B=0.50 H=0.80 L=4.45			B=0.50 H=0.80 L=5.30			B=0.50 H=0.80 L=11.08		
Mu=-0.00		Mu=-171.14	Mu=-148.40		Mu=-97.19	Mu=-145.70		Mu=-127.56
As=1237.50		As=7285.64	As=6114.17		As=3761.05	As=5981.05		As=5115.10
Mu=2.32	Mu=0.00	Mu=34.23	Mu=62.59	Mu=29.68	Mu=86.53	Mu=48.57	Mu=41.84	Mu=42.52
As=1237.50	As=1237.50	As=1243.73	As=2336.18	As=1366.93	As=3309.99	As=1788.36	As=1592.82	As=1556.85
Vu=13.27		Vu=49.89	Vu=-56.39		Vu=42.45	Vu=-62.35		Vu=42.31

B=0.50 H=0.80 L=11.10			B=0.50 H=0.80 L=11.10			B=0.50 H=0.80 L=11.10		
Mu=-127.83		Mu=-119.62	Mu=-126.18		Mu=-121.00	Mu=-133.74		Mu=-126.90
As=5127.65		As=4750.36	As=5051.12		As=4813.18	As=5404.80		As=5084.47
Mu=42.61	Mu=31.68	Mu=40.12	Mu=42.06	Mu=31.95	Mu=40.33	Mu=44.58	Mu=44.58	Mu=42.30
As=1560.28	As=1392.96	As=1465.72	As=1539.35	As=1389.18	As=1473.80	As=1635.42	As=1635.42	As=1548.48
Vu=-42.02		Vu=40.59	Vu=-42.02		Vu=40.70	Vu=-43.42		Vu=45.36

B=0.50 H=0.80 L=9.70			B=0.50 H=0.80 L=2.98			B=0.50 H=0.80 L=2.13		
Mu=-134.97		Mu=-125.61	Mu=-137.26		Mu=-64.80	Mu=-54.09		Mu=-3.31
As=5463.09		As=5024.76	As=5572.20		As=2423.96	As=2002.27		As=1237.50
Mu=50.85	Mu=49.02	Mu=41.87	Mu=83.72	Mu=27.45	Mu=47.79	Mu=27.00	Mu=15.55	Mu=2.32
As=1876.50	As=1805.83	As=1532.13	As=3192.97	As=1437.37	As=1758.47	As=1299.32	As=1237.50	As=1237.50
Vu=-48.77		Vu=48.33	Vu=-62.31		Vu=-42.84	Vu=-23.11		Vu=-16.07

V402/N 12.95

B=0.60 H=1.20 L=8.67			B=0.60 H=1.00 L=1.55			B=0.60 H=1.00 L=4.45		
Mu=-9.51		Mu=-337.86	Mu=-115.24		Mu=-50.77	Mu=-56.51		Mu=-282.56
As=2277.00		As=8751.70	As=3386.68		As=1927.77	As=2151.51		As=9170.34
Mu=3.98	Mu=0.00	Mu=119.35	Mu=47.21	Mu=23.05	Mu=30.36	Mu=56.51	Mu=56.51	Mu=217.80
As=2277.00	As=2277.00	As=2849.40	As=1881.00	As=1881.00	As=1881.00	As=4065.53	As=4065.53	As=6775.88
Vu=18.08		Vu=82.49	Vu=-67.31		Vu=-63.79	Vu=-31.81		Vu=252.93

B=0.60 H=1.00 L=7.00			B=0.60 H=0.80 L=6.75			B=0.60 H=0.80 L=7.15		
Mu=-317.09		Mu=-328.83	Mu=-174.30		Mu=-85.69	Mu=-111.89		Mu=-134.11
As=10554.57		As=11045.73	As=7150.76		As=3226.73	As=4311.17		As=5276.40
Mu=249.54	Mu=65.77	Mu=285.20	Mu=58.10	Mu=34.86	Mu=78.12	Mu=75.26	Mu=44.31	Mu=64.56
As=7920.05	As=3068.14	As=9273.24	As=2139.10	As=1949.37	As=2923.09	As=2809.44	As=1888.10	As=2389.17
Vu=-121.95		Vu=104.21	Vu=-60.68		Vu=42.20	Vu=-51.05		Vu=42.45

V403/N 12.95

B=0.60 H=0.80 L=13.20			B=0.60 H=0.80 L=13.20			B=0.60 H=1.00 L=4.55		
Mu=-211.36		Mu=-200.22	Mu=-205.83		Mu=-193.81	Mu=-414.45		Mu=-371.83
As=9067.54		As=8468.68	As=8767.58		As=8133.45	As=13471.29		As=12277.45
Mu=70.45	Mu=82.58	Mu=66.74	Mu=68.61	Mu=77.80	Mu=64.60	Mu=390.41	Mu=82.89	Mu=339.03
As=2619.69	As=3107.51	As=2474.18	As=2547.34	As=2917.12	As=2390.86	As=14478.16	As=3453.65	As=11570.34
Vu=-66.84		Vu=62.48	Vu=-62.04		Vu=62.41	Vu=-163.59		Vu=188.80

B=0.60 H=1.00 L=2.20			B=0.60 H=1.00 L=4.30			B=0.60 H=1.00 L=1.34		
Mu=-287.47		Mu=-57.49	Mu=-24.90		Mu=-41.37	Mu=-87.93		Mu=-85.25
As=9362.08		As=2189.90	As=1881.00		As=1881.00	As=2549.22		As=2468.30
Mu=253.53	Mu=73.42	Mu=57.49	Mu=21.31	Mu=8.27	Mu=36.14	Mu=64.77	Mu=17.59	Mu=79.86
As=8067.70	As=2113.72	As=2459.71	As=1881.00	As=1881.00	As=1881.00	As=2475.46	As=1881.00	As=2440.66
Vu=-248.59		Vu=-77.07	Vu=-20.27		Vu=26.84	Vu=-86.38		Vu=-83.00

B=0.60 H=0.80 L=3.00			B=0.60 H=0.80 L=3.80		
Mu=-209.89		Mu=-199.43	Mu=-126.28		Mu=-3.03
As=8987.27		As=8427.01	As=4931.10		As=1485.00
Mu=180.39	Mu=41.98	Mu=204.49	Mu=25.26	Mu=0.00	Mu=0.00
As=7451.76	As=2041.51	As=8695.70	As=1485.00	As=1485.00	As=1485.00
Vu=-120.84		Vu=107.93	Vu=-48.13		Vu=-27.70

V404/N 12.95

B=0.50 H=1.20 L=7.40			B=0.50 H=0.80 L=13.20			B=0.50 H=0.80 L=6.75		
Mu=-2.85		Mu=-390.66	Mu=-159.58		Mu=-135.74	Mu=-142.04		Mu=-132.18
As=1897.50		As=10765.26	As=6678.34		As=5499.69	As=5802.42		As=5331.17
Mu=5.29	Mu=0.00	Mu=78.13	Mu=53.19	Mu=50.69	Mu=50.69	Mu=84.81	Mu=28.41	Mu=80.34
As=1897.50	As=1897.50	As=2465.90	As=1967.38	As=1870.31	As=1870.31	As=3238.27	As=1398.01	As=3053.21
Vu=-13.65		Vu=-94.19	Vu=-49.15		Vu=47.11	Vu=-48.97		Vu=49.75

B=0.50 H=0.80 L=8.57		
Mu=-121.49		Mu=-126.12
As=4835.54		As=5048.34
Mu=40.50	Mu=41.52	Mu=42.04
As=1479.99	As=1763.86	As=1554.34
Vu=-50.62		Vu=50.64

V405/N 12.95

B=0.50 H=0.80 L=2.30			B=0.50 H=0.80 L=4.95			B=0.50 H=0.80 L=13.20		
Mu=-120.71		Mu=-78.06	Mu=-120.71		Mu=-78.06	Mu=-127.66		Mu=-124.57
As=4799.96		As=2959.53	As=4799.96		As=2959.53	As=5119.75		As=4976.79
Mu=55.79	Mu=24.14	Mu=94.38	Mu=55.79	Mu=24.14	Mu=94.38	Mu=42.55	Mu=44.68	Mu=41.52
As=2068.58	As=1372.36	As=3641.03	As=2068.58	As=1372.36	As=3641.03	As=1558.12	As=1639.24	As=1518.96
Vu=-48.24		Vu=30.99	Vu=-48.24		Vu=30.99	Vu=-42.79		Vu=41.40

B=0.50 H=0.80 L=13.20			B=0.50 H=0.80 L=13.20			B=0.50 H=0.80 L=3.20		
Mu=-135.84		Mu=-131.96	Mu=-113.05		Mu=-82.93	Mu=-151.05		Mu=-135.49
As=5504.45		As=5320.82	As=4454.55		As=3160.21	As=6245.98		As=5487.80
Mu=45.28	Mu=43.99	Mu=43.99	Mu=37.68	Mu=36.89	Mu=36.89	Mu=104.68	Mu=30.21	Mu=132.14
As=1662.19	As=1612.73	As=1612.76	As=1373.61	As=1343.79	As=1343.79	As=4085.07	As=1559.99	As=5329.29
Vu=-43.09		Vu=41.83	Vu=-40.18		Vu=31.73	Vu=-82.34		Vu=-70.45

B=0.50 H=0.80 L=5.50		
Mu=-127.62		Mu=-1.12
As=5117.89		As=1237.50
Mu=25.52	Mu=0.00	Mu=0.84
As=1237.50	As=1237.50	As=1237.50
Vu=-40.52		Vu=-8.66

V406/N 12.95

B=0.60 H=0.80 L=5.90			B=0.60 H=0.80 L=2.70			B=0.60 H=0.80 L=1.80		
Mu=-122.55		Mu=-227.34	Mu=-122.79		Mu=-173.60	Mu=-153.77		Mu=-30.75
As=4768.63		As=9640.33	As=4779.05		As=7116.48	As=6170.57		As=1485.00
Mu=155.79	Mu=56.65	Mu=136.55	Mu=118.09	Mu=34.72	Mu=102.30	Mu=51.26	Mu=30.75	Mu=33.47
As=6264.80	As=3233.19	As=5385.22	As=4576.02	As=1673.72	As=3907.91	As=1877.08	As=1485.00	As=1611.96
Vu=-36.36		Vu=87.80	Vu=72.97		Vu=84.96	Vu=-69.72		Vu=-60.31

B=0.60 H=0.80 L=1.50		
Mu=-5.04		Mu=-0.00
As=1485.00		As=1485.00
Mu=1.59	Mu=4.16	Mu=2.02
As=1485.00	As=1485.00	As=1485.00
Vu=-6.35		Vu=3.74

V407/N 12.95

B=0.60 H=0.80 L=2.10			B=0.60 H=0.80 L=4.75			B=0.80 H=0.80 L=1.90		
Mu=-0.00		Mu=-97.88	Mu=-57.39		Mu=-49.42	Mu=-108.18		Mu=-125.92
As=1485.00		As=3724.57	As=2111.78		As=1931.42	As=4058.04		As=4777.24
Mu=1.50	Mu=0.00	Mu=19.58	Mu=33.03	Mu=14.11	Mu=70.54	Mu=75.84	Mu=29.61	Mu=148.04
As=1485.00	As=1485.00	As=1485.00	As=1590.25	As=1485.00	As=2623.10	As=2789.57	As=2253.23	As=5699.60
Vu=26.77		Vu=38.31	Vu=-49.27		Vu=-64.73	Vu=-144.80		Vu=-140.29

B=0.80 H=0.80 L=5.37		
Mu=-254.81		Mu=-261.13
As=10658.72		As=10985.73
Mu=268.33	Mu=53.67	Mu=207.00
As=11364.04	As=2450.57	As=8319.42
Vu=-103.33		Vu=93.67

V408/N 12.95

B=0.60 H=0.80 L=3.40			B=0.60 H=0.80 L=1.50		
Mu=-124.25		Mu=-113.07	Mu=-50.12		Mu=-0.00
As=4842.52		As=4361.32	As=1833.84		As=1485.00
Mu=106.65	Mu=25.33	Mu=126.65	Mu=10.02	Mu=0.00	Mu=0.73
As=4089.89	As=1485.00	As=4947.29	As=1485.00	As=1485.00	As=1485.00
Vu=-78.93		Vu=-68.72	Vu=-24.34		Vu=-16.94

V409/N 12.95

B=0.50 H=0.80 L=2.05			B=0.50 H=0.80 L=2.50			B=0.50 H=0.80 L=1.25		
Mu=-0.00		Mu=-73.14	Mu=-66.40		Mu=-98.23	Mu=-42.22		Mu=-27.58
As=1237.50		As=2759.00	As=2487.78		As=3805.69	As=1545.44		As=1327.92
Mu=2.42	Mu=0.00	Mu=14.63	Mu=94.72	Mu=19.65	Mu=64.54	Mu=41.76	Mu=10.15	Mu=15.60
As=1237.50	As=1237.50	As=1237.50	As=3655.51	As=1237.50	As=2413.62	As=1527.95	As=1237.50	As=1237.50
Vu=20.05		Vu=29.42	Vu=73.34		Vu=81.02	Vu=38.46		Vu=43.52

B=0.50 H=0.80 L=1.40			B=0.50 H=0.80 L=2.10		
Mu=-6.96		Mu=-34.78	Mu=-80.14		Mu=-0.00
As=1237.50		As=1264.43	As=3044.97		As=1237.50
Mu=22.21	Mu=6.96	Mu=11.59	Mu=16.03	Mu=0.00	Mu=1.38
As=1237.50	As=1237.50	As=1237.50	As=1237.50	As=1237.50	As=1237.50
Vu=25.98		Vu=31.44	Vu=-38.59		Vu=-30.60

V410/N 12.95

B=0.50 H=0.80 L=0.43			B=0.50 H=0.80 L=3.40			B=0.50 H=0.80 L=1.50		
Mu=-0.00		Mu=-10.49	Mu=-95.05		Mu=-70.38	Mu=-42.41		Mu=-0.00
As=1237.50		As=1237.50	As=3669.58		As=2647.46	As=1552.67		As=1237.50
Mu=0.79	Mu=0.00	Mu=2.10	Mu=70.87	Mu=19.01	Mu=92.92	Mu=8.48	Mu=0.00	Mu=1.35
As=1237.50	As=1237.50	As=1237.50	As=2667.21	As=1237.50	As=3579.00	As=1237.50	As=1237.50	As=1237.50
Vu=13.37		Vu=15.47	Vu=-60.03		Vu=-50.55	Vu=-21.57		Vu=-14.18

V411/N 12.95

B=0.50 H=0.80 L=1.90			B=0.50 H=0.80 L=4.90			B=0.50 H=0.80 L=3.45		
Mu=-0.00		Mu=-51.79	Mu=-112.68		Mu=-70.98	Mu=-86.58		Mu=-23.70
As=1237.50		As=1912.91	As=4438.04		As=2671.65	As=3312.08		As=1311.45
Mu=1.13	Mu=0.00	Mu=10.36	Mu=44.40	Mu=22.54	Mu=74.04	Mu=28.86	Mu=17.32	Mu=17.32
As=1237.50	As=1237.50	As=1237.50	As=1628.54	As=1237.50	As=2795.52	As=1391.14	As=1237.50	As=1237.50
Vu=10.87		Vu=24.47	Vu=-42.71		Vu=28.14	Vu=-22.15		Vu=-9.07

B=0.50 H=0.55 L=2.00		
Mu=-26.88		Mu=-0.00
As=1501.83		As=825.00
Mu=5.38	Mu=0.00	Mu=0.00
As=825.00	As=825.00	As=825.00
Vu=-13.93		Vu=-12.30

V412/N 12.95

B=0.50 H=0.80 L=7.40		
Mu=-79.13		Mu=-68.65
As=3003.43		As=2577.88
Mu=35.77	Mu=20.46	Mu=56.99
As=1547.75	As=1627.55	As=2115.54
Vu=-30.61		Vu=24.18

V413/N 12.95

B=0.50 H=0.80 L=2.50			B=0.50 H=0.80 L=1.25			B=0.50 H=0.80 L=1.40		
Mu=-69.12		Mu=-89.80	Mu=-48.19		Mu=-64.39	Mu=-22.83		Mu=-68.92
As=2596.76		As=3447.14	As=1773.86		As=2407.65	As=1237.50		As=2588.72
Mu=90.58	Mu=18.12	Mu=66.84	Mu=62.52	Mu=12.88	Mu=35.01	Mu=60.01	Mu=13.78	Mu=22.97
As=3480.01	As=1237.50	As=2505.36	As=2333.40	As=1237.50	As=1295.18	As=2234.21	As=1237.50	As=1237.50
Vu=68.31		Vu=75.99	Vu=74.35		Vu=79.41	Vu=68.00		Vu=72.20

B=0.50 H=0.80 L=2.00		
Mu=-152.24		Mu=-14.96
As=6305.55		As=1477.71
Mu=30.45	Mu=0.00	Mu=5.06
As=1469.78	As=1237.50	As=1237.50
Vu=-76.98		Vu=-54.75

V414/N 12.95

B=0.50 H=0.80 L=0.43			B=0.50 H=0.80 L=3.40			B=0.50 H=0.80 L=1.50		
Mu=-0.00		Mu=-8.74	Mu=-85.18		Mu=-70.01	Mu=-42.62		Mu=-0.00
As=1237.50		As=1237.50	As=3253.68		As=2632.56	As=1560.66		As=1237.50
Mu=0.76	Mu=0.00	Mu=1.75	Mu=72.31	Mu=17.06	Mu=85.30	Mu=8.52	Mu=0.00	Mu=1.34
As=1237.50	As=1237.50	As=1237.50	As=2725.39	As=1237.50	As=3258.68	As=1237.50	As=1237.50	As=1237.50
Vu=11.36		Vu=13.45	Vu=-54.88		Vu=-45.69	Vu=-21.65		Vu=-14.39

V415/N 12.95

B=0.50 H=0.80 L=2.50			B=0.50 H=0.80 L=1.25			B=0.50 H=0.80 L=1.40		
Mu=-53.70		Mu=-80.62	Mu=-33.22		Mu=-29.32	Mu=-8.27		Mu=-41.37
As=1987.09		As=3064.74	As=1607.60		As=1413.90	As=1237.50		As=1513.13
Mu=81.13	Mu=16.23	Mu=54.33	Mu=41.99	Mu=8.40	Mu=11.07	Mu=21.72	Mu=8.27	Mu=13.79
As=3085.78	As=1237.50	As=2011.62	As=1536.69	As=1237.50	As=1237.50	As=1237.50	As=1237.50	As=1237.50
Vu=60.86		Vu=68.53	Vu=40.69		Vu=45.75	Vu=31.62		Vu=37.72

B=0.50 H=0.80 L=2.00		
Mu=-91.32		Mu=-0.00
As=3511.26		As=1237.50
Mu=18.26	Mu=0.00	Mu=2.36
As=1237.50	As=1237.50	As=1237.50
Vu=-43.87		Vu=-35.89

V416/N 12.95

B=0.50 H=0.80 L=0.43			B=0.50 H=0.80 L=3.40			B=0.50 H=0.80 L=1.50		
Mu=-0.00		Mu=-10.27	Mu=-87.34		Mu=-57.24	Mu=-41.79		Mu=-0.00
As=1237.50		As=1237.50	As=3343.87		As=2125.33	As=1529.09		As=1237.50
Mu=0.79	Mu=0.00	Mu=2.05	Mu=57.92	Mu=17.47	Mu=85.49	Mu=8.36	Mu=0.00	Mu=1.35
As=1237.50	As=1237.50	As=1237.50	As=2152.00	As=1237.50	As=3266.59	As=1237.50	As=1237.50	As=1237.50
Vu=13.15		Vu=15.25	Vu=-55.57		Vu=-46.09	Vu=-21.32		Vu=-13.93

V417/N 12.95

B=0.50 H=0.80 L=2.50			B=0.50 H=0.80 L=1.25			B=0.50 H=0.80 L=1.40		
Mu=-32.77		Mu=-31.64	Mu=-53.78		Mu=-80.66	Mu=-47.72		Mu=-39.81
As=1585.18		As=1528.96	As=1990.20		As=3066.39	As=1755.78		As=1493.20
Mu=21.08	Mu=8.33	Mu=41.65	Mu=81.96	Mu=16.39	Mu=53.83	Mu=46.57	Mu=9.54	Mu=32.28
As=1237.50	As=1237.50	As=1523.77	As=3120.06	As=1237.50	As=1992.15	As=1711.61	As=1237.50	As=1560.79
Vu=-41.12		Vu=-35.13	Vu=61.20		Vu=68.88	Vu=-49.69		Vu=54.48

V418/N 12.95

B=0.60 H=0.80 L=6.56			B=0.60 H=0.80 L=3.45			B=0.60 H=0.80 L=1.45		
Mu=-188.00		Mu=-188.34	Mu=-90.23		Mu=-76.72	Mu=-54.03		Mu=-0.00
As=7835.09		As=7852.41	As=3410.83		As=2867.39	As=1982.92		As=1485.00
Mu=177.58	Mu=37.67	Mu=151.76	Mu=69.79	Mu=18.99	Mu=94.94	Mu=10.81	Mu=0.00	Mu=1.07
As=7312.26	As=1765.83	As=6077.27	As=2593.63	As=1485.00	As=3603.46	As=1485.00	As=1485.00	As=1485.00
Vu=-73.29		Vu=65.57	Vu=-59.60		Vu=-49.33	Vu=-26.10		Vu=-18.71

V419/N 12.95

B=0.40 H=0.80 L=1.70			B=0.40 H=0.80 L=6.11		
Mu=-16.91		Mu=-37.08	Mu=-126.33		Mu=-112.92
As=990.00		As=1362.54	As=5274.25		As=4607.44
Mu=18.73	Mu=7.42	Mu=29.24	Mu=109.83	Mu=25.27	Mu=95.89
As=990.00	As=990.00	As=1064.74	As=4458.81	As=1337.17	As=3809.11
Vu=23.76		Vu=25.84	Vu=-50.72		Vu=37.50

V420/N 12.95

B=0.60 H=0.80 L=4.80			B=1.00 H=1.20 L=1.90			B=1.00 H=1.20 L=2.38		
Mu=-12.46		Mu=-50.30	Mu=-90.84		Mu=-396.39	Mu=-595.05		Mu=-707.29
As=1485.00		As=1840.68	As=3795.00		As=9865.46	As=15542.14		As=19057.32
Mu=10.06	Mu=10.06	Mu=47.97	Mu=87.70	Mu=175.78	Mu=438.49	Mu=664.60	Mu=141.46	Mu=625.29
As=1485.00	As=1485.00	As=1752.27	As=6611.24	As=6611.24	As=11018.74	As=17689.65	As=4451.86	As=16464.23
Vu=-13.97		Vu=49.54	Vu=-298.96		Vu=-290.40	Vu=497.79		Vu=510.75

V421/N 12.95

B=0.50 H=0.80 L=4.80			B=0.50 H=0.80 L=1.90			B=0.50 H=0.80 L=1.30		
Mu=-10.37		Mu=-12.82	Mu=-26.62		Mu=-62.28	Mu=-130.62		Mu=-26.12
As=1237.50		As=1237.50	As=1280.60		As=2323.90	As=5257.89		As=1256.19
Mu=5.03	Mu=2.56	Mu=10.78	Mu=29.13	Mu=12.62	Mu=50.33	Mu=80.82	Mu=38.95	Mu=26.12
As=1237.50	As=1237.50	As=1237.50	As=1404.49	As=1237.50	As=1856.40	As=3072.99	As=1843.79	As=1843.79
Vu=-10.65		Vu=13.88	Vu=48.04		Vu=53.51	Vu=-80.69		Vu=-75.29

B=0.50 H=0.80 L=1.65		
Mu=-13.61		Mu=-0.00
As=1237.50		As=1237.50
Mu=4.12	Mu=3.55	Mu=4.70
As=1237.50	As=1237.50	As=1237.50
Vu=-12.00		Vu=-5.99

V500/N 17.15

B=0.50 H=0.80 L=1.65			B=0.50 H=0.80 L=5.90			B=0.50 H=0.80 L=11.10		
Mu=-3.51		Mu=-64.30	Mu=-61.22		Mu=-87.01	Mu=-126.25		Mu=-130.00
As=1237.50		As=2404.07	As=2281.96		As=3330.06	As=5054.36		As=5228.85
Mu=1.10	Mu=0.00	Mu=12.86	Mu=20.41	Mu=17.40	Mu=39.17	Mu=42.08	Mu=43.44	Mu=43.33
As=1237.50	As=1237.50	As=1237.50	As=1237.50	As=1237.50	As=1429.76	As=1540.24	As=1591.90	As=1587.84
Vu=24.24		Vu=27.05	Vu=-25.45		Vu=25.04	Vu=-41.38		Vu=42.88

B=0.50 H=0.80 L=11.10			B=0.50 H=0.80 L=11.10			B=0.50 H=0.80 L=11.10		
Mu=-133.82		Mu=-126.77	Mu=-132.89		Mu=-127.00	Mu=-134.30		Mu=-123.81
As=5408.58		As=5078.44	As=5364.64		As=5089.11	As=5431.31		As=4941.82
Mu=44.61	Mu=41.92	Mu=44.16	Mu=44.30	Mu=42.22	Mu=43.65	Mu=44.77	Mu=42.50	Mu=44.40
As=1636.44	As=1562.72	As=1619.37	As=1624.59	As=1545.44	As=1599.91	As=1642.55	As=1568.05	As=1628.54
Vu=-43.63		Vu=42.23	Vu=-43.37		Vu=42.31	Vu=-43.55		Vu=41.70

B=0.50 H=0.80 L=9.50			B=0.50 H=0.80 L=1.95		
Mu=-116.45		Mu=-120.77	Mu=-87.68		Mu=-9.95
As=4606.98		As=4802.69	As=3358.11		As=1237.50
Mu=40.91	Mu=40.91	Mu=40.26	Mu=22.60	Mu=15.99	Mu=8.24
As=1495.67	As=1526.43	As=1470.89	As=1237.50	As=1237.50	As=1237.50
Vu=-39.60		Vu=39.31	Vu=-31.82		Vu=-23.06

V501/N 17.15

B=0.60 H=0.80 L=4.45			B=0.60 H=0.80 L=5.12			B=0.60 H=0.80 L=11.00		
Mu=-2.11		Mu=-167.47	Mu=-168.03		Mu=-72.14	Mu=-144.98		Mu=-135.72
As=1485.00		As=6818.96	As=6845.94		As=2686.09	As=5765.78		As=5348.14
Mu=6.05	Mu=0.00	Mu=33.49	Mu=56.01	Mu=33.61	Mu=95.94	Mu=48.33	Mu=45.24	Mu=45.24
As=1485.00	As=1485.00	As=1613.15	As=2058.77	As=1841.31	As=3644.58	As=2114.86	As=1825.94	As=1649.09
Vu=11.10		Vu=53.79	Vu=-62.64		Vu=-27.84	Vu=-62.20		Vu=42.78

B=0.60 H=0.80 L=11.10			B=0.60 H=0.80 L=11.10			B=0.60 H=0.80 L=11.10		
Mu=-130.62		Mu=-119.37	Mu=-128.43		Mu=-120.78	Mu=-137.47		Mu=-122.83
As=5121.77		As=4631.12	As=5025.33		As=4691.98	As=5426.40		As=4780.78
Mu=43.54	Mu=29.62	Mu=42.80	Mu=42.81	Mu=29.34	Mu=40.77	Mu=45.82	Mu=45.82	Mu=40.94
As=1585.07	As=1861.30	As=1557.17	As=1557.62	As=1860.21	As=1974.32	As=1671.10	As=1671.10	As=1549.21
Vu=-40.91		Vu=38.94	Vu=-40.80		Vu=39.16	Vu=-42.46		Vu=43.01

B=0.60 H=0.80 L=9.35			B=0.60 H=0.80 L=3.00			B=0.60 H=0.80 L=1.95		
Mu=-140.78		Mu=-135.38	Mu=-177.24		Mu=-78.67	Mu=-74.71		Mu=-6.33
As=5575.27		As=5332.97	As=7295.45		As=2945.02	As=2787.65		As=1485.00
Mu=67.82	Mu=42.90	Mu=51.14	Mu=114.69	Mu=35.45	Mu=70.96	Mu=43.51	Mu=20.98	Mu=0.00
As=2516.40	As=1817.88	As=1872.64	As=4430.37	As=1785.09	As=2639.62	As=1583.94	As=1485.00	As=1485.00
Vu=-51.12		Vu=53.01	Vu=-74.47		Vu=-59.02	Vu=-33.16		Vu=-24.90

V502/N 17.15

B=0.60 H=1.20 L=8.60			B=0.60 H=1.00 L=1.56			B=0.60 H=1.00 L=4.45		
Mu=-7.05		Mu=-332.43	Mu=-95.89		Mu=-51.49	Mu=-65.86		Mu=-329.32
As=2277.00		As=8591.18	As=2790.86		As=1955.76	As=1889.40		As=11066.48
Mu=4.05	Mu=0.00	Mu=91.52	Mu=33.23	Mu=19.18	Mu=34.01	Mu=65.86	Mu=65.86	Mu=238.35
As=2277.00	As=2277.00	As=2886.37	As=1881.00	As=1881.00	As=1881.00	As=1889.40	As=1889.40	As=7510.64
Vu=16.16		Vu=74.08	Vu=-59.77		Vu=-56.24	Vu=-29.50		Vu=288.98

B=0.60 H=1.00 L=7.00			B=0.60 H=0.80 L=6.75			B=0.60 H=0.80 L=7.28		
Mu=-371.29		Mu=-343.19	Mu=-161.26		Mu=-68.07	Mu=-108.83		Mu=-124.72
As=12262.32		As=11662.38	As=6522.31		As=2526.19	As=4181.67		As=4862.99
Mu=274.62	Mu=132.90	Mu=280.63	Mu=53.75	Mu=32.25	Mu=76.91	Mu=85.28	Mu=49.55	Mu=62.64
As=8931.92	As=5262.24	As=9095.41	As=1972.34	As=1924.94	As=2874.94	As=3210.18	As=2072.66	As=2314.57
Vu=-147.88		Vu=112.70	Vu=-55.09		Vu=32.90	Vu=-51.87		Vu=35.78

V503/N 17.15

B=0.60 H=0.80 L=13.20			B=0.60 H=0.80 L=13.31			B=0.60 H=1.00 L=4.52		
Mu=-208.04		Mu=-197.83	Mu=-213.46		Mu=-195.82	Mu=-417.31		Mu=-396.84
As=8886.81		As=8342.92	As=9182.90		As=8237.87	As=13551.40		As=12978.01
Mu=69.35	Mu=85.08	Mu=65.94	Mu=71.15	Mu=87.39	Mu=65.27	Mu=393.88	Mu=83.46	Mu=364.51
As=2576.23	As=3201.95	As=2443.08	As=2647.23	As=3301.56	As=2416.95	As=14682.17	As=3110.20	As=13233.65
Vu=-67.14		Vu=64.61	Vu=-66.74		Vu=67.45	Vu=-169.41		Vu=194.16

B=0.60 H=1.00 L=2.20			B=0.60 H=1.00 L=4.30			B=0.60 H=1.00 L=1.35		
Mu=-310.99		Mu=-62.20	Mu=-26.99		Mu=-43.26	Mu=-98.28		Mu=-87.10
As=10303.70		As=2374.29	As=1881.00		As=1881.00	As=2863.80		As=2524.13
Mu=277.74	Mu=79.60	Mu=62.20	Mu=22.52	Mu=8.65	Mu=37.19	Mu=74.94	Mu=19.66	Mu=83.31
As=8983.66	As=2298.43	As=2374.29	As=1881.00	As=1881.00	As=1881.00	As=2256.52	As=1881.00	As=2409.87
Vu=-263.85		Vu=-83.20	Vu=-20.20		Vu=28.01	Vu=-93.64		Vu=-90.25

B=0.60 H=0.80 L=3.20			B=0.60 H=0.80 L=3.85		
Mu=-228.26		Mu=-206.64	Mu=-129.38		Mu=-2.67
As=9640.33		As=8811.18	As=5067.11		As=1485.00
Mu=190.10	Mu=45.65	Mu=220.49	Mu=25.88	Mu=0.00	Mu=0.12
As=7942.35	As=2143.19	As=9575.13	As=1485.00	As=1485.00	As=1485.00
Vu=-129.75		Vu=-114.03	Vu=-50.11		Vu=-27.82

V504/N 17.15

B=0.50 H=1.20 L=7.38			B=0.50 H=0.80 L=13.20			B=0.50 H=0.80 L=6.75		
Mu=-3.12		Mu=-342.90	Mu=-141.24		Mu=-137.90	Mu=-123.73		Mu=-116.17
As=1897.50		As=9181.92	As=5763.65		As=5602.82	As=4938.15		As=4594.37
Mu=4.81	Mu=0.00	Mu=68.58	Mu=47.08	Mu=47.84	Mu=45.97	Mu=77.40	Mu=26.08	Mu=54.10
As=1897.50	As=1897.50	As=2156.53	As=1731.19	As=1760.40	As=1688.48	As=2932.50	As=1441.86	As=2002.66
Vu=-14.30		Vu=-81.28	Vu=-39.23		Vu=48.09	Vu=-40.35		Vu=45.92

B=0.50 H=0.80 L=8.56		
Mu=-99.37		Mu=-109.93
As=3854.74		As=4315.88
Mu=33.12	Mu=46.27	Mu=36.64
As=1602.78	As=1914.46	As=1410.03
Vu=-46.67		Vu=44.03

V505/N 17.15

B=0.50 H=0.80 L=2.33			B=0.50 H=0.80 L=4.95			B=0.50 H=0.80 L=13.20		
Mu=-105.48		Mu=-73.28	Mu=-105.48		Mu=-73.28	Mu=-134.98		Mu=-133.28
As=4120.04		As=2764.68	As=4120.04		As=2764.68	As=5463.56		As=5383.05
Mu=41.71	Mu=22.19	Mu=89.38	Mu=41.71	Mu=22.19	Mu=89.38	Mu=44.99	Mu=48.88	Mu=44.43
As=1526.05	As=1471.40	As=3429.47	As=1526.05	As=1471.40	As=3429.47	As=1651.22	As=1800.43	As=1629.56
Vu=-44.93		Vu=27.65	Vu=-44.93		Vu=27.65	Vu=-45.54		Vu=44.25

B=0.50 H=0.80 L=13.20			B=0.50 H=0.80 L=13.20			B=0.50 H=0.80 L=3.20		
Mu=-145.08		Mu=-137.45	Mu=-107.89		Mu=-75.94	Mu=-160.74		Mu=-142.25
As=5950.64		As=5581.28	As=4225.82		As=2872.85	As=6738.13		As=5812.61
Mu=48.36	Mu=46.95	Mu=46.95	Mu=35.96	Mu=31.74	Mu=32.27	Mu=111.44	Mu=32.15	Mu=144.13
As=1780.40	As=1726.35	As=1726.35	As=1308.86	As=1560.29	As=1560.29	As=4382.85	As=1266.23	As=5904.17
Vu=-45.59		Vu=43.79	Vu=-37.70		Vu=28.36	Vu=-87.90		Vu=-77.56

B=0.50 H=0.80 L=5.52		
Mu=-111.32		Mu=-0.93
As=4377.52		As=1237.50
Mu=22.26	Mu=0.00	Mu=1.00
As=1237.50	As=1237.50	As=1237.50
Vu=-34.88		Vu=-8.49

V506/N 17.15

B=0.60 H=0.80 L=5.95			B=0.60 H=0.80 L=2.70			B=0.60 H=0.80 L=1.80		
Mu=-103.30		Mu=-109.58	Mu=-115.35		Mu=-113.33	Mu=-127.95		Mu=-25.59
As=3949.61		As=4213.34	As=4458.56		As=4372.39	As=5004.26		As=1485.00
Mu=135.69	Mu=79.19	Mu=41.80	Mu=38.45	Mu=38.12	Mu=37.78	Mu=42.65	Mu=25.59	Mu=33.70
As=5346.80	As=3723.24	As=1519.71	As=1858.72	As=1842.30	As=1825.24	As=1551.61	As=1485.00	As=1623.31
Vu=-25.22		Vu=61.77	Vu=-8.29		Vu=8.55	Vu=-60.82		Vu=-51.41

B=0.60 H=0.80 L=1.50		
Mu=-1.22		Mu=-0.00
As=1485.00		As=1485.00
Mu=4.75	Mu=5.62	Mu=1.79
As=1485.00	As=1485.00	As=1485.00
Vu=-4.38		Vu=5.16

V507/N 17.15

B=0.60 H=0.80 L=2.05			B=0.60 H=0.80 L=4.75			B=0.80 H=0.80 L=1.90		
Mu=-0.00		Mu=-87.06	Mu=-55.52		Mu=-51.50	Mu=-108.62		Mu=-131.34
As=1485.00		As=3282.12	As=2039.98		As=1886.35	As=4075.67		As=5000.53
Mu=1.15	Mu=0.00	Mu=17.41	Mu=34.40	Mu=14.89	Mu=74.44	Mu=76.27	Mu=30.75	Mu=153.75
As=1485.00	As=1485.00	As=1485.00	As=1657.90	As=1485.00	As=2776.96	As=2806.10	As=2407.88	As=5942.61
Vu=24.38		Vu=33.24	Vu=-48.62		Vu=-69.47	Vu=-148.28		Vu=-143.76

B=0.80 H=0.80 L=5.43		
Mu=-277.28		Mu=-263.84
As=11843.30		As=11127.39
Mu=292.40	Mu=58.48	Mu=213.29
As=12677.42	As=2657.66	As=8614.87
Vu=-109.81		Vu=93.48

V508/N 17.15

B=0.60 H=0.80 L=3.40			B=0.60 H=0.80 L=1.45		
Mu=-134.45		Mu=-144.85	Mu=-47.07		Mu=-0.00
As=5291.53		As=5759.86	As=1718.20		As=1485.00
Mu=121.16	Mu=28.97	Mu=140.54	Mu=9.41	Mu=0.00	Mu=0.61
As=4708.41	As=1649.59	As=5564.44	As=1485.00	As=1485.00	As=1485.00
Vu=-85.44		Vu=82.38	Vu=-22.93		Vu=-15.82

V509/N 17.15

B=0.50 H=0.80 L=2.10			B=0.50 H=0.80 L=5.14			B=0.50 H=0.80 L=3.70		
Mu=-0.00		Mu=-24.38	Mu=-22.21		Mu=-93.41	Mu=-79.00		Mu=-23.94
As=1237.50		As=1237.50	As=1237.50		As=3599.79	As=2998.09		As=1242.02
Mu=0.46	Mu=6.46	Mu=8.72	Mu=20.27	Mu=18.68	Mu=31.14	Mu=26.33	Mu=15.80	Mu=15.80
As=1237.50	As=1237.50	As=1237.50	As=1237.50	As=1237.50	As=1503.95	As=1266.49	As=1237.50	As=1237.50
Vu=-5.97		Vu=12.16	Vu=12.18		Vu=27.48	Vu=-19.92		Vu=-6.21

B=0.50 H=0.55 L=1.95		
Mu=-26.88		Mu=-0.00
As=1501.83		As=825.00
Mu=5.38	Mu=0.00	Mu=0.00
As=825.00	As=825.00	As=825.00
Vu=-13.93		Vu=-12.30

V510/N 17.15

B=0.50 H=0.80 L=2.05			B=0.50 H=0.80 L=2.50			B=0.50 H=0.80 L=1.25		
Mu=-0.00		Mu=-68.86	Mu=-95.21		Mu=-116.39	Mu=-51.43		Mu=-29.70
As=1237.50		As=2586.31	As=3676.40		As=4604.28	As=1898.96		As=1432.71
Mu=1.77	Mu=0.00	Mu=13.77	Mu=105.74	Mu=23.28	Mu=92.41	Mu=44.62	Mu=10.29	Mu=17.76
As=1237.50	As=1237.50	As=1237.50	As=4131.42	As=1237.50	As=3557.37	As=1636.95	As=1237.50	As=1237.50
Vu=19.05		Vu=27.20	Vu=85.51		Vu=92.19	Vu=-42.26		Vu=46.17

B=0.50 H=0.80 L=1.40			B=0.50 H=0.80 L=2.10		
Mu=-8.96		Mu=-44.80	Mu=-102.68		Mu=-0.00
As=1237.50		As=1643.83	As=3997.96		As=1237.50
Mu=31.05	Mu=8.96	Mu=14.93	Mu=20.54	Mu=0.00	Mu=1.86
As=1499.65	As=1237.50	As=1237.50	As=1237.50	As=1237.50	As=1237.50
Vu=38.06		Vu=43.51	Vu=-48.32		Vu=-40.33

V511/N 17.15

B=0.50 H=0.80 L=0.60			B=0.50 H=0.80 L=3.40			B=0.50 H=0.80 L=1.45		
Mu=-0.00		Mu=-7.37	Mu=-110.12		Mu=-89.07	Mu=-42.86		Mu=-0.00
As=1237.50		As=1237.50	As=4324.29		As=3416.43	As=1569.80		As=1237.50
Mu=0.72	Mu=0.00	Mu=1.47	Mu=82.89	Mu=22.02	Mu=103.92	Mu=8.57	Mu=0.00	Mu=1.25
As=1237.50	As=1237.50	As=1237.50	As=3158.55	As=1237.50	As=4051.91	As=1237.50	As=1237.50	As=1237.50
Vu=9.14		Vu=11.14	Vu=-67.49		Vu=-58.42	Vu=-21.56		Vu=-14.50

V512/N 17.15

B=0.50 H=0.80 L=1.90			B=0.50 H=0.80 L=4.90			B=0.50 H=0.80 L=3.43		
Mu=-0.00		Mu=-40.87	Mu=-99.13		Mu=-53.50	Mu=-40.90		Mu=-0.00
As=1237.50		As=1494.15	As=3844.40		As=1979.31	As=1495.29		As=1237.50
Mu=0.76	Mu=0.00	Mu=8.17	Mu=33.04	Mu=19.83	Mu=95.98	Mu=8.18	Mu=6.16	Mu=0.97
As=1237.50	As=1237.50	As=1237.50	As=1598.80	As=1386.00	As=3709.27	As=1237.50	As=1237.50	As=1237.50
Vu=9.22		Vu=18.07	Vu=-41.36		Vu=-25.87	Vu=-16.26		Vu=4.85

V513/N 17.15

B=0.50 H=0.80 L=7.22		
Mu=-57.49		Mu=-67.37
As=2135.13		As=2526.57
Mu=23.05	Mu=29.45	Mu=56.60
As=1237.50	As=1473.67	As=2100.26
Vu=-27.74		Vu=23.40

V514/N 17.15

B=0.50 H=0.80 L=2.50			B=0.50 H=0.80 L=1.25			B=0.50 H=0.80 L=1.40		
Mu=-105.51		Mu=-109.52	Mu=-60.99		Mu=-56.26	Mu=-24.49		Mu=-67.83
As=4121.35		As=4297.74	As=2272.87		As=2086.96	As=1237.50		As=2544.99
Mu=108.72	Mu=21.90	Mu=101.26	Mu=61.43	Mu=12.29	Mu=38.35	Mu=57.93	Mu=13.57	Mu=22.61
As=4262.41	As=1237.50	As=3936.37	As=2290.26	As=1237.50	As=1398.77	As=2152.39	As=1237.50	As=1237.50
Vu=-86.55		Vu=91.01	Vu=68.59		Vu=73.99	Vu=66.14		Vu=70.60

B=0.50 H=0.80 L=2.10		
Mu=-110.58		Mu=-22.12
As=4344.68		As=1237.50
Mu=36.86	Mu=22.12	Mu=22.12
As=1342.59	As=1237.50	As=1237.50
Vu=-72.90		Vu=-37.69

V515/N 17.15

B=0.50 H=0.80 L=0.60			B=0.50 H=0.80 L=3.40			B=0.50 H=0.80 L=1.45		
Mu=-0.00		Mu=-4.81	Mu=-110.01		Mu=-86.96	Mu=-43.06		Mu=-0.00
As=1237.50		As=1237.50	As=4319.42		As=3327.97	As=1577.42		As=1237.50
Mu=0.68	Mu=0.00	Mu=0.96	Mu=81.08	Mu=22.00	Mu=103.31	Mu=8.61	Mu=0.00	Mu=1.22
As=1237.50	As=1237.50	As=1237.50	As=3083.71	As=1237.50	As=4025.35	As=1237.50	As=1237.50	As=1237.50
Vu=6.00		Vu=8.00	Vu=-67.28		Vu=-58.20	Vu=-21.51		Vu=-14.71

V516/N 17.15

B=0.50 H=0.80 L=2.50			B=0.50 H=0.80 L=1.25			B=0.50 H=0.80 L=1.40		
Mu=-89.85		Mu=-94.20	Mu=-43.65		Mu=-31.86	Mu=-10.77		Mu=-53.87
As=3449.25		As=3633.37	As=1599.91		As=1539.89	As=1237.50		As=1993.70
Mu=91.04	Mu=18.84	Mu=87.87	Mu=43.32	Mu=8.73	Mu=15.75	Mu=33.73	Mu=10.77	Mu=17.96
As=3499.43	As=1237.50	As=3366.07	As=1587.33	As=1237.50	As=1237.50	As=1633.04	As=1237.50	As=1237.50
Vu=-74.92		Vu=77.81	Vu=42.87		Vu=48.26	Vu=42.50		Vu=49.45

B=0.50 H=0.80 L=2.10		
Mu=-96.14		Mu=-0.00
As=3716.11		As=1237.50
Mu=19.23	Mu=0.00	Mu=2.80
As=1237.50	As=1237.50	As=1237.50
Vu=-46.67		Vu=-37.58

V517/N 17.15

B=0.50 H=0.80 L=0.60			B=0.50 H=0.80 L=3.40			B=0.50 H=0.80 L=1.45		
Mu=-0.00		Mu=-6.85	Mu=-101.83		Mu=-75.47	Mu=-43.19		Mu=-0.00
As=1237.50		As=1237.50	As=3961.06		As=2853.70	As=1582.37		As=1237.50
Mu=0.74	Mu=0.00	Mu=1.37	Mu=69.43	Mu=20.37	Mu=95.66	Mu=8.64	Mu=0.00	Mu=1.21
As=1237.50	As=1237.50	As=1237.50	As=2609.22	As=1237.50	As=3695.60	As=1237.50	As=1237.50	As=1237.50
Vu=8.52		Vu=10.53	Vu=-62.62		Vu=-53.55	Vu=-21.69		Vu=-14.57

V518/N 17.15

B=0.50 H=0.80 L=2.50			B=0.50 H=0.80 L=1.25			B=0.50 H=0.80 L=1.40		
Mu=-89.11		Mu=-101.73	Mu=-62.92		Mu=-46.77	Mu=-49.53		Mu=-108.68
As=3418.12		As=3956.73	As=2349.26		As=1719.29	As=1825.50		As=4260.64
Mu=99.93	Mu=20.35	Mu=86.56	Mu=51.98	Mu=12.58	Mu=42.72	Mu=64.00	Mu=21.74	Mu=77.92
As=3878.89	As=1237.50	As=3311.25	As=1920.27	As=1237.50	As=1581.00	As=2392.14	As=1340.16	As=2953.79
Vu=77.32		Vu=83.99	Vu=-65.37		Vu=-60.97	Vu=93.33		Vu=98.79

V519/N 17.15

B=0.60 H=0.80 L=6.39			B=0.60 H=0.80 L=3.40			B=0.60 H=0.80 L=1.45		
Mu=-180.97		Mu=-180.93	Mu=-99.56		Mu=-98.94	Mu=-45.59		Mu=-0.00
As=7480.69		As=7478.69	As=3794.07		As=3768.39	As=1662.29		As=1485.00
Mu=173.70	Mu=36.19	Mu=157.91	Mu=78.18	Mu=21.09	Mu=105.46	Mu=9.12	Mu=0.00	Mu=1.08
As=7121.38	As=1927.91	As=6364.19	As=2925.48	As=1485.00	As=4039.95	As=1485.00	As=1485.00	As=1485.00
Vu=-67.80		Vu=64.53	Vu=-65.22		Vu=-55.36	Vu=-22.53		Vu=-15.42

V520/N 17.15

B=0.40 H=0.80 L=1.70			B=0.40 H=0.80 L=6.05		
Mu=-19.31		Mu=-41.83	Mu=-136.16		Mu=-106.73
As=990.00		As=1545.76	As=5788.22		As=4311.45
Mu=21.87	Mu=8.37	Mu=32.98	Mu=116.90	Mu=27.23	Mu=95.37
As=1052.77	As=990.00	As=1206.10	As=4801.54	As=1318.81	As=3785.49
Vu=27.27		Vu=29.34	Vu=-54.09		Vu=36.09

V521/N 17.15

B=0.60 H=0.80 L=4.80			B=1.00 H=1.20 L=1.90			B=1.00 H=1.20 L=2.34		
Mu=-14.84		Mu=-52.39	Mu=-98.50		Mu=-432.50	Mu=-644.14		Mu=-723.22
As=1485.00		As=1920.27	As=3795.00		As=10853.16	As=17047.95		As=19578.18
Mu=10.48	Mu=10.48	Mu=51.97	Mu=97.77	Mu=197.09	Mu=488.83	Mu=734.52	Mu=146.90	Mu=626.18
As=1485.00	As=1485.00	As=1904.26	As=7458.51	As=7458.51	As=12430.85	As=19951.29	As=4916.20	As=16491.63
Vu=-15.35		Vu=50.08	Vu=-331.28		Vu=-322.71	Vu=529.33		Vu=542.29

B=1.00 H=1.20 L=1.40			B=1.00 H=1.20 L=1.50		
Mu=-473.02		Mu=-327.82	Mu=-69.53		Mu=-0.00
As=11983.32		As=8036.88	As=3795.00		As=3795.00
Mu=446.81	Mu=94.60	Mu=293.09	Mu=13.91	Mu=0.00	Mu=12.22
As=11249.58	As=4456.58	As=7132.70	As=3795.00	As=3795.00	As=3795.00
Vu=-425.51		Vu=431.72	Vu=-33.81		Vu=-19.51

V522/N 17.15

B=0.50 H=0.80 L=4.85			B=0.50 H=0.80 L=1.85			B=0.50 H=0.80 L=1.25		
Mu=-12.61		Mu=-15.15	Mu=-24.33		Mu=-59.86	Mu=-144.79		Mu=-28.96
As=1237.50		As=1237.50	As=1237.50		As=2228.29	As=5936.44		As=1395.99
Mu=5.02	Mu=3.03	Mu=14.02	Mu=27.44	Mu=12.33	Mu=47.47	Mu=132.21	Mu=66.20	Mu=28.96
As=1237.50	As=1237.50	As=1237.50	As=1321.02	As=1237.50	As=1746.17	As=5332.59	As=2998.91	As=1395.99
Vu=-11.30		Vu=15.50	Vu=45.76		Vu=51.23	Vu=-94.99		Vu=-89.59

V600/N 21.35

B=0.50 H=0.80 L=5.15			B=0.50 H=0.80 L=11.10			B=0.50 H=0.80 L=11.10		
Mu=-2.86		Mu=-165.01	Mu=-150.55		Mu=-131.99	Mu=-142.57		Mu=-132.37
As=1237.50		As=6960.39	As=6221.02		As=5322.23	As=5828.16		As=5340.12
Mu=2.87	Mu=0.00	Mu=33.00	Mu=50.18	Mu=41.40	Mu=44.19	Mu=47.52	Mu=43.02	Mu=46.07
As=1237.50	As=1237.50	As=1596.74	As=1850.73	As=1572.47	As=1620.52	As=1748.22	As=1605.18	As=1692.44
Vu=13.17		Vu=46.49	Vu=-46.07		Vu=44.94	Vu=-47.63		Vu=45.37

B=0.50 H=0.80 L=11.10			B=0.50 H=0.80 L=11.10			B=0.50 H=0.80 L=9.52		
Mu=-141.80		Mu=-132.67	Mu=-144.85		Mu=-130.96	Mu=-113.26		Mu=-90.50
As=5790.78		As=5354.26	As=5939.38		As=5273.83	As=4463.92		As=3476.64
Mu=47.27	Mu=43.10	Mu=45.47	Mu=48.28	Mu=43.49	Mu=47.57	Mu=37.75	Mu=37.39	Mu=30.17
As=1738.36	As=1611.89	As=1669.46	As=1777.45	As=1647.34	As=1750.01	As=1454.73	As=1454.73	As=1455.83
Vu=-47.24		Vu=45.44	Vu=-47.86		Vu=44.75	Vu=-40.05		Vu=33.34

B=0.50 H=0.80 L=2.65		
Mu=-76.22		Mu=-9.78
As=2884.28		As=1237.50
Mu=15.24	Mu=8.14	Mu=6.38
As=1237.50	As=1237.50	As=1237.50
Vu=-27.33		Vu=-18.65

V601/N 21.35

B=0.60 H=0.80 L=4.07			B=0.60 H=0.80 L=11.10			B=0.60 H=0.80 L=11.10		
Mu=-4.76		Mu=-190.54	Mu=-172.05		Mu=-129.11	Mu=-134.00		Mu=-119.70
As=1485.00		As=7964.90	As=7040.80		As=5055.23	As=5271.51		As=4645.34
Mu=1.76	Mu=0.52	Mu=38.11	Mu=57.35	Mu=34.41	Mu=46.09	Mu=44.67	Mu=29.85	Mu=46.31
As=1485.00	As=1485.00	As=1841.71	As=2110.24	As=1556.50	As=1681.17	As=1627.48	As=1925.53	As=1689.48
Vu=13.38		Vu=54.08	Vu=-64.63		Vu=40.24	Vu=-41.03		Vu=38.41

B=0.60 H=0.80 L=11.10			B=0.60 H=0.80 L=11.10			B=0.60 H=0.80 L=9.40		
Mu=-131.59		Mu=-121.30	Mu=-144.82		Mu=-128.76	Mu=-139.72		Mu=-129.17
As=5164.63		As=4714.47	As=5758.49		As=5039.84	As=5527.47		As=5057.87
Mu=43.86	Mu=29.52	Mu=44.43	Mu=48.27	Mu=48.27	Mu=42.92	Mu=63.20	Mu=41.22	Mu=44.09
As=1597.23	As=1875.53	As=1618.56	As=1763.76	As=1860.61	As=1739.85	As=2336.30	As=1548.61	As=1605.76
Vu=-40.66		Vu=38.61	Vu=-43.29		Vu=44.83	Vu=-51.57		Vu=55.54

B=0.60 H=0.80 L=2.90			B=0.60 H=0.80 L=1.80		
Mu=-159.90		Mu=-75.46	Mu=-67.92		Mu=-8.82
As=6457.96		As=2817.37	As=2520.32		As=1485.00
Mu=88.03	Mu=31.98	Mu=76.38	Mu=45.91	Mu=22.14	Mu=0.72
As=3321.43	As=1538.50	As=2853.88	As=1674.37	As=1485.00	As=1485.00
Vu=-72.96		Vu=-58.43	Vu=-29.63		Vu=-21.25

V602/N 21.35

B=0.60 H=1.20 L=8.54			B=0.60 H=1.00 L=1.56			B=0.60 H=1.00 L=4.40		
Mu=-2.98		Mu=-454.75	Mu=-189.89		Mu=-40.57	Mu=-67.83		Mu=-339.14
As=2277.00		As=12440.27	As=5810.59		As=1881.00	As=1947.55		As=11486.62
Mu=6.56	Mu=0.00	Mu=90.95	Mu=63.30	Mu=37.98	Mu=52.51	Mu=67.83	Mu=67.83	Mu=261.84
As=2277.00	As=2277.00	As=2867.87	As=2417.48	As=1881.00	As=1995.44	As=5026.89	As=5026.89	As=8378.14
Vu=22.12		Vu=110.44	Vu=-120.77		Vu=-117.25	Vu=-28.77		Vu=298.03

B=0.60 H=1.00 L=7.05			B=0.60 H=0.80 L=6.75			B=0.60 H=0.80 L=0.25		
Mu=-379.51		Mu=-362.68	Mu=-195.78		Mu=-111.39	Mu=-15.30		Mu=-0.09
As=12492.58		As=12211.09	As=8235.78		As=4289.96	As=1485.00		As=1485.00
Mu=299.98	Mu=75.90	Mu=335.88	Mu=65.26	Mu=39.16	Mu=135.74	Mu=5.71	Mu=12.30	Mu=20.11
As=10233.31	As=3277.82	As=11346.21	As=2416.43	As=2018.13	As=5349.03	As=1485.00	As=1485.00	As=1485.00
Vu=-137.27		Vu=113.16	Vu=-66.28		Vu=43.31	Vu=-20.13		Vu=-18.10

V603/N 21.35

B=0.60 H=0.80 L=2.08			B=0.60 H=0.80 L=13.20			B=0.60 H=0.80 L=13.20		
Mu=-12.35		Mu=-61.73	Mu=-203.61		Mu=-192.42	Mu=-225.95		Mu=-225.83
As=1485.00		As=2279.29	As=8648.67		As=8061.60	As=9640.33		As=9640.33
Mu=12.35	Mu=12.35	Mu=20.58	Mu=67.87	Mu=67.82	Mu=64.14	Mu=75.32	Mu=87.30	Mu=75.28
As=1485.00	As=1485.00	As=1485.00	As=2518.36	As=2653.39	As=2372.83	As=2811.68	As=3375.02	As=2810.10
Vu=13.18		Vu=27.58	Vu=-60.29		Vu=59.43	Vu=-67.25		Vu=76.55

B=0.60 H=1.00 L=4.50			B=0.60 H=1.00 L=2.25			B=0.60 H=1.00 L=4.30		
Mu=-459.82		Mu=-422.89	Mu=-331.09		Mu=-66.22	Mu=-23.93		Mu=-42.87
As=14742.16		As=13707.70	As=11141.59		As=1899.87	As=1881.00		As=1881.00
Mu=426.16	Mu=91.96	Mu=393.32	Mu=301.04	Mu=86.22	Mu=66.22	Mu=19.20	Mu=8.57	Mu=36.39
As=17174.05	As=3395.39	As=14874.89	As=9900.52	As=2497.56	As=1899.87	As=1881.00	As=1881.00	As=1881.00
Vu=-182.78		Vu=206.25	Vu=-277.53		Vu=-86.58	Vu=-16.53		Vu=27.96

B=0.60 H=1.00 L=1.35			B=0.60 H=0.80 L=3.00			B=0.60 H=0.80 L=3.80		
Mu=-96.82		Mu=-74.24	Mu=-237.58		Mu=-210.68	Mu=-130.64		Mu=-3.11
As=2819.22		As=2289.20	As=9815.82		As=9030.36	As=5122.65		As=1485.00
Mu=72.66	Mu=19.36	Mu=70.53	Mu=193.74	Mu=47.52	Mu=230.23	Mu=26.13	Mu=0.00	Mu=0.29
As=2091.08	As=2084.36	As=2027.72	As=8363.81	As=2231.39	As=9640.33	As=1485.00	As=1485.00	As=1485.00
Vu=-86.07		Vu=-82.69	Vu=-134.86		Vu=-119.27	Vu=-50.67		Vu=-28.07

V604/N 21.35

B=0.50 H=1.20 L=7.38			B=0.50 H=0.80 L=13.20			B=0.50 H=0.80 L=4.75		
Mu=-6.42		Mu=-358.34	Mu=-158.98		Mu=-142.49	Mu=-125.34		Mu=-1.85
As=1897.50		As=9681.81	As=6647.51		As=5824.27	As=5012.30		As=1237.50
Mu=0.00	Mu=0.00	Mu=71.67	Mu=52.99	Mu=46.85	Mu=47.50	Mu=25.07	Mu=8.74	Mu=10.06
As=1897.50	As=1897.50	As=2256.29	As=1959.61	As=1722.36	As=1747.20	As=1237.50	As=1237.50	As=1237.50
Vu=-18.16		Vu=-80.42	Vu=-42.23		Vu=45.37	Vu=-38.11		Vu=-11.12

V605/N 21.35

B=0.50 H=0.80 L=4.78			B=0.50 H=0.80 L=13.20			B=0.50 H=0.80 L=13.20		
Mu=-0.92		Mu=-89.25	Mu=-142.14		Mu=-125.14	Mu=-139.49		Mu=-131.24
As=1237.50		As=3424.00	As=5807.27		As=5003.07	As=5679.18		As=5286.97
Mu=0.38	Mu=0.00	Mu=17.85	Mu=47.38	Mu=42.89	Mu=42.89	Mu=46.50	Mu=42.71	Mu=44.43
As=1237.50	As=1237.50	As=1237.50	As=1742.71	As=1570.94	As=1570.94	As=1708.80	As=1629.69	As=1629.69
Vu=6.09		Vu=27.79	Vu=-41.41		Vu=40.34	Vu=-42.29		Vu=39.09

B=0.50 H=0.80 L=13.20			B=0.50 H=0.80 L=3.20			B=0.50 H=0.80 L=5.50		
Mu=-109.51		Mu=-77.46	Mu=-167.60		Mu=-144.56	Mu=-112.44		Mu=-0.92
As=4297.30		As=2934.96	As=7096.90		As=5925.18	As=4427.35		As=1237.50
Mu=36.50	Mu=32.49	Mu=33.05	Mu=113.40	Mu=33.52	Mu=151.45	Mu=22.49	Mu=0.00	Mu=1.03
As=1329.16	As=1599.13	As=1599.13	As=4470.17	As=1336.64	As=6265.97	As=1237.50	As=1237.50	As=1237.50
Vu=-38.20		Vu=28.43	Vu=-91.73		Vu=-81.40	Vu=-35.26		Vu=-8.58

V606/N 21.35

B=0.60 H=0.80 L=2.05			B=0.60 H=0.80 L=4.75			B=1.00 H=0.80 L=1.90		
Mu=-0.00		Mu=-84.45	Mu=-49.61		Mu=-41.64	Mu=-110.64		Mu=-234.47
As=1485.00		As=3176.71	As=1814.47		As=1513.71	As=4100.45		As=9284.74
Mu=1.36	Mu=0.00	Mu=16.89	Mu=30.33	Mu=11.00	Mu=55.02	Mu=97.62	Mu=64.87	Mu=235.73
As=1485.00	As=1485.00	As=1485.00	As=1485.00	As=1485.00	As=2020.81	As=3595.47	As=3653.70	As=9341.66
Vu=23.65		Vu=32.51	Vu=-43.54		Vu=-56.65	Vu=-196.40		Vu=-189.23

B=1.00 H=0.80 L=5.13		
Mu=-427.50		Mu=-413.97
As=17463.81		As=16990.07
Mu=429.37	Mu=98.12	Mu=376.98
As=19391.41	As=4798.51	As=17297.69
Vu=-160.70		Vu=162.66

V607/N 21.35

B=0.60 H=0.80 L=3.40			B=0.60 H=0.80 L=1.40		
Mu=-137.16		Mu=-164.76	Mu=-55.12		Mu=-0.00
As=5412.51		As=6688.93	As=2024.64		As=1485.00
Mu=140.98	Mu=32.95	Mu=149.58	Mu=11.02	Mu=0.00	Mu=1.51
As=5584.30	As=1811.99	As=5976.57	As=1485.00	As=1485.00	As=1485.00
Vu=-87.86		Vu=94.85	Vu=-26.82		Vu=-19.30

V608/N 21.35

B=0.50 H=0.80 L=2.05			B=0.50 H=0.80 L=2.50			B=0.50 H=0.80 L=1.25		
Mu=-0.00		Mu=-66.79	Mu=-105.06		Mu=-122.30	Mu=-56.68		Mu=-30.03
As=1237.50		As=2503.36	As=4101.67		As=4872.57	As=2103.40		As=1449.06
Mu=2.50	Mu=0.00	Mu=13.36	Mu=112.09	Mu=24.46	Mu=101.69	Mu=48.59	Mu=11.40	Mu=18.91
As=1237.50	As=1237.50	As=1237.50	As=4411.76	As=1237.50	As=3954.99	As=1789.26	As=1237.50	As=1237.50
Vu=18.56		Vu=26.71	Vu=90.42		Vu=97.09	Vu=-46.26		Vu=48.74

B=0.50 H=0.80 L=1.40			B=0.50 H=0.80 L=2.15		
Mu=-8.56		Mu=-42.79	Mu=-59.86		Mu=-0.00
As=1237.50		As=1567.13	As=2228.29		As=1237.50
Mu=30.29	Mu=8.56	Mu=14.26	Mu=11.97	Mu=0.00	Mu=1.53
As=1461.94	As=1237.50	As=1237.50	As=1237.50	As=1237.50	As=1237.50
Vu=37.60		Vu=42.70	Vu=-29.64		Vu=-22.40

V609/N 21.35

B=0.50 H=0.80 L=0.60			B=0.50 H=0.80 L=3.40			B=0.50 H=0.80 L=1.40		
Mu=-0.00		Mu=-6.94	Mu=-106.29		Mu=-93.67	Mu=-40.55		Mu=-0.00
As=1237.50		As=1237.50	As=4155.52		As=3610.84	As=1482.01		As=1237.50
Mu=0.73	Mu=0.00	Mu=1.39	Mu=89.70	Mu=21.26	Mu=102.77	Mu=8.11	Mu=0.00	Mu=1.10
As=1237.50	As=1237.50	As=1237.50	As=3442.93	As=1237.50	As=4001.87	As=1237.50	As=1237.50	As=1237.50
Vu=8.45		Vu=10.63	Vu=-66.03		Vu=-56.95	Vu=-20.45		Vu=-13.45

V610/N 21.35

B=0.50 H=0.80 L=2.50			B=0.50 H=0.80 L=1.25			B=0.50 H=0.80 L=1.40		
Mu=-115.29		Mu=-116.17	Mu=-63.79		Mu=-46.15	Mu=-20.80		Mu=-54.19
As=4554.82		As=4594.37	As=2383.79		As=1695.51	As=1237.50		As=2006.16
Mu=114.69	Mu=23.23	Mu=112.83	Mu=59.25	Mu=12.76	Mu=34.93	Mu=45.41	Mu=10.84	Mu=18.06
As=4527.90	As=1237.50	As=4444.73	As=2204.27	As=1237.50	As=1270.05	As=1667.16	As=1237.50	As=1237.50
Vu=-94.79		Vu=94.83	Vu=61.51		Vu=66.19	Vu=51.53		Vu=56.75

B=0.50 H=0.80 L=2.15		
Mu=-33.16		Mu=-0.00
As=1604.61		As=1237.50
Mu=6.63	Mu=0.00	Mu=16.26
As=1237.50	As=1237.50	As=1237.50
Vu=-23.84		Vu=-16.61

V611/N 21.35

B=0.50 H=0.80 L=0.60			B=0.50 H=0.80 L=3.40			B=0.50 H=0.80 L=1.40		
Mu=-29.54		Mu=-73.75	Mu=-46.63		Mu=-61.05	Mu=-42.47		Mu=-0.00
As=1424.79		As=2783.75	As=1713.92		As=2275.24	As=1554.95		As=1237.50
Mu=43.71	Mu=14.75	Mu=51.81	Mu=71.10	Mu=14.22	Mu=20.35	Mu=8.49	Mu=0.00	Mu=1.09
As=1602.20	As=1237.50	As=1913.68	As=2676.49	As=1237.50	As=1237.50	As=1237.50	As=1237.50	As=1237.50
Vu=71.28		Vu=75.55	Vu=73.18		Vu=77.85	Vu=-21.18		Vu=-14.23

V612/N 21.35

B=0.50 H=0.80 L=2.50			B=0.50 H=0.80 L=1.25			B=0.50 H=0.80 L=1.40		
Mu=-94.70		Mu=-97.07	Mu=-48.08		Mu=-36.20	Mu=-12.15		Mu=-60.75
As=3654.66		As=3755.91	As=1769.63		As=1317.75	As=1237.50		As=2263.40
Mu=93.73	Mu=19.41	Mu=93.25	Mu=49.41	Mu=9.88	Mu=17.49	Mu=38.13	Mu=12.15	Mu=20.25
As=3613.39	As=1237.50	As=3593.00	As=1820.87	As=1237.50	As=1237.50	As=1390.46	As=1237.50	As=1237.50
Vu=-78.73		Vu=79.44	Vu=49.54		Vu=54.22	Vu=48.95		Vu=54.43

B=0.50 H=0.80 L=2.15		
Mu=-85.64		Mu=-0.00
As=3272.85		As=1237.50
Mu=17.13	Mu=0.00	Mu=2.25
As=1237.50	As=1237.50	As=1237.50
Vu=-41.03		Vu=-33.81

V613/N 21.35

B=0.50 H=0.80 L=0.60			B=0.50 H=0.80 L=3.40			B=0.50 H=0.80 L=1.40		
Mu=-0.00		Mu=-7.37	Mu=-102.20		Mu=-83.63	Mu=-41.88		Mu=-0.00
As=1237.50		As=1237.50	As=3977.11		As=3189.23	As=1532.51		As=1237.50
Mu=0.72	Mu=0.00	Mu=1.47	Mu=79.53	Mu=20.44	Mu=98.48	Mu=8.38	Mu=0.00	Mu=1.09
As=1237.50	As=1237.50	As=1237.50	As=3019.87	As=1237.50	As=3816.43	As=1237.50	As=1237.50	As=1237.50
Vu=9.08		Vu=11.25	Vu=-63.56		Vu=-54.49	Vu=-21.15		Vu=-13.99

V614/N 21.35

B=0.50 H=0.80 L=5.30			B=0.50 H=0.80 L=3.65			B=0.50 H=0.55 L=1.95		
Mu=-8.23		Mu=-41.16	Mu=-54.08		Mu=-24.40	Mu=-26.88		Mu=-0.00
As=1237.50		As=1505.16	As=2001.88		As=1237.50	As=1501.83		As=825.00
Mu=8.23	Mu=8.23	Mu=13.72	Mu=18.03	Mu=10.82	Mu=10.82	Mu=5.38	Mu=0.00	Mu=0.00
As=1237.50	As=1237.50	As=1237.50	As=1237.50	As=1237.50	As=1237.50	As=825.00	As=825.00	As=825.00
Vu=-4.53		Vu=16.06	Vu=-13.57		Vu=1.62	Vu=-13.93		Vu=-12.30

V615/N 21.35

B=0.50 H=0.80 L=2.50			B=0.50 H=0.80 L=1.25			B=0.50 H=0.80 L=1.40		
Mu=-99.69		Mu=-120.40	Mu=-72.89		Mu=-53.80	Mu=-56.17		Mu=-122.47
As=3868.53		As=4785.84	As=2748.87		As=1990.98	As=2083.44		As=4880.35
Mu=117.67	Mu=24.08	Mu=97.31	Mu=61.02	Mu=14.58	Mu=49.18	Mu=71.59	Mu=24.49	Mu=88.26
As=4662.01	As=1237.50	As=3766.20	As=2274.06	As=1237.50	As=1812.00	As=2696.28	As=1515.14	As=3382.42
Vu=91.88		Vu=98.55	Vu=-75.09		Vu=-70.77	Vu=105.41		Vu=110.51

V616/N 21.35

B=0.60 H=0.80 L=6.56			B=0.60 H=0.80 L=3.40			B=0.60 H=0.80 L=1.40		
Mu=-198.49		Mu=-195.86	Mu=-122.69		Mu=-127.52	Mu=-47.41		Mu=-0.00
As=8377.56		As=8239.95	As=4774.71		As=4985.40	As=1731.07		As=1485.00
Mu=189.06	Mu=39.70	Mu=172.57	Mu=109.62	Mu=26.07	Mu=130.36	Mu=9.48	Mu=0.00	Mu=0.92
As=7889.15	As=2214.62	As=7066.16	As=4215.03	As=1608.11	As=5110.30	As=1485.00	As=1485.00	As=1485.00
Vu=-75.22		Vu=67.97	Vu=-79.64		Vu=74.10	Vu=-23.43		Vu=-15.91

V617/N 21.35

B=0.40 H=0.80 L=1.70			B=0.40 H=0.80 L=6.05		
Mu=-20.91		Mu=-44.77	Mu=-142.37		Mu=-116.27
As=1005.48		As=1660.26	As=6125.42		As=4770.61
Mu=23.22	Mu=8.95	Mu=36.39	Mu=125.60	Mu=28.47	Mu=101.64
As=1119.44	As=990.00	As=1336.10	As=5236.98	As=1379.11	As=4073.14
Vu=29.18		Vu=31.25	Vu=-56.67		Vu=38.40

V618/N 21.35

B=0.60 H=0.80 L=4.80			B=1.10 H=1.20 L=1.90			B=1.10 H=1.20 L=2.35		
Mu=-13.34		Mu=-45.13	Mu=-101.86		Mu=-442.54	Mu=-703.76		Mu=-642.69
As=1485.00		As=1644.94	As=4174.50		As=11028.76	As=18603.60		As=16739.09
Mu=9.03	Mu=9.99	Mu=41.75	Mu=101.86	Mu=218.17	Mu=509.30	Mu=823.95	Mu=164.79	Mu=538.46
As=1485.00	As=1485.00	As=1517.84	As=4174.50	As=6675.80	As=12871.78	As=22479.03	As=5815.12	As=13695.17
Vu=-14.75		Vu=44.04	Vu=-330.33		Vu=-322.13	Vu=532.63		Vu=545.05

B=1.10 H=1.20 L=1.40			B=1.10 H=1.20 L=1.85		
Mu=-294.87		Mu=-64.89	Mu=-57.01		Mu=-0.00
As=7138.77		As=4174.50	As=4174.50		As=4174.50
Mu=240.12	Mu=97.18	Mu=58.97	Mu=11.40	Mu=0.00	Mu=7.95
As=5754.81	As=4174.50	As=4174.50	As=4174.50	As=4174.50	As=4174.50
Vu=-160.63		Vu=165.87	Vu=-28.30		Vu=-14.60

V619/N 21.35

B=0.50 H=0.80 L=4.85			B=0.50 H=0.80 L=1.85			B=0.50 H=0.80 L=1.40		
Mu=-13.33		Mu=-13.46	Mu=-19.62		Mu=-51.52	Mu=-132.40		Mu=-9.13
As=1237.50		As=1237.50	As=1237.50		As=1902.44	As=5341.54		As=1237.50
Mu=5.00	Mu=2.69	Mu=12.07	Mu=24.51	Mu=10.30	Mu=36.79	Mu=140.24	Mu=75.82	Mu=24.44
As=1237.50	As=1237.50	As=1237.50	As=1237.50	As=1237.50	As=1339.95	As=5715.32	As=3406.94	As=1268.49
Vu=-11.75		Vu=13.83	Vu=39.68		Vu=44.79	Vu=-81.41		Vu=-76.59

V700/N 25.55

B=0.50 H=0.80 L=5.14			B=0.50 H=0.80 L=11.10			B=0.50 H=0.80 L=11.10		
Mu=-2.62		Mu=-159.31	Mu=-145.19		Mu=-130.98	Mu=-142.20		Mu=-130.69
As=1237.50		As=6664.46	As=5956.03		As=5274.77	As=5810.18		As=5261.17
Mu=3.68	Mu=0.00	Mu=31.86	Mu=48.40	Mu=42.61	Mu=44.94	Mu=47.40	Mu=43.27	Mu=46.98
As=1237.50	As=1237.50	As=1539.99	As=1781.82	As=1600.83	As=1649.18	As=1743.48	As=1657.37	As=1727.35
Vu=15.36		Vu=42.40	Vu=-43.73		Vu=43.02	Vu=-45.65		Vu=43.23

B=0.50 H=0.80 L=11.10			B=0.50 H=0.80 L=11.10			B=0.50 H=0.80 L=5.15		
Mu=-141.42		Mu=-131.30	Mu=-142.15		Mu=-140.17	Mu=-142.65		Mu=-1.97
As=5772.36		As=5289.79	As=5807.76		As=5711.95	As=5832.05		As=1237.50
Mu=47.14	Mu=43.70	Mu=46.50	Mu=47.38	Mu=37.56	Mu=46.72	Mu=28.53	Mu=0.00	Mu=3.06
As=1733.49	As=1639.39	As=1708.93	As=1742.84	As=1621.74	As=1717.50	As=1374.83	As=1237.50	As=1237.50
Vu=-45.34		Vu=43.52	Vu=-45.24		Vu=43.13	Vu=-39.80		Vu=-11.91

V701/N 25.55

B=0.50 H=0.80 L=4.47			B=0.50 H=0.80 L=11.10			B=0.50 H=0.80 L=11.10		
Mu=-5.67		Mu=-176.15	Mu=-151.59		Mu=-120.99	Mu=-124.97		Mu=-111.15
As=1237.50		As=7557.20	As=6272.98		As=4812.72	As=4995.23		As=4369.97
Mu=1.66	Mu=0.00	Mu=35.23	Mu=50.53	Mu=31.15	Mu=40.48	Mu=41.66	Mu=27.21	Mu=43.54
As=1237.50	As=1237.50	As=1281.31	As=1864.13	As=1444.81	As=1479.36	As=1524.02	As=1310.16	As=1595.72
Vu=11.38		Vu=50.98	Vu=-59.88		Vu=38.72	Vu=-39.26		Vu=36.66

B=0.50 H=0.80 L=11.10			B=0.50 H=0.80 L=11.05			B=0.50 H=0.80 L=10.36		
Mu=-123.20		Mu=-112.76	Mu=-132.60		Mu=-119.15	Mu=-160.21		Mu=-83.58
As=4913.81		As=4441.61	As=5350.96		As=4729.03	As=6710.79		As=3187.16
Mu=41.07	Mu=27.04	Mu=42.20	Mu=44.20	Mu=44.20	Mu=39.72	Mu=62.28	Mu=49.43	Mu=32.04
As=1501.61	As=1283.04	As=1544.68	As=1620.90	As=1620.90	As=1553.05	As=2323.90	As=1821.64	As=1548.95
Vu=-39.09		Vu=36.94	Vu=-40.76		Vu=41.08	Vu=-60.74		Vu=26.56

V702/N 25.55

B=0.60 H=1.20 L=8.53			B=0.60 H=1.00 L=1.55			B=0.60 H=1.00 L=4.45		
Mu=-3.78		Mu=-457.60	Mu=-172.02		Mu=-34.40	Mu=-71.17		Mu=-355.87
As=2277.00		As=12536.60	As=5210.59		As=1881.00	As=2046.87		As=12211.09
Mu=5.73	Mu=0.00	Mu=91.52	Mu=57.34	Mu=34.40	Mu=46.48	Mu=71.17	Mu=71.17	Mu=271.31
As=2277.00	As=2277.00	As=2886.37	As=2183.88	As=1881.00	As=1881.00	As=5242.15	As=5242.15	As=8736.91
Vu=22.01		Vu=109.80	Vu=-109.02		Vu=-105.50	Vu=-26.28		Vu=312.02

B=0.60 H=1.00 L=7.00			B=0.60 H=0.80 L=6.70			B=0.60 H=0.80 L=11.45		
Mu=-396.23		Mu=-367.63	Mu=-177.88		Mu=-62.90	Mu=-66.46		Mu=-42.34
As=12960.92		As=12211.09	As=7327.10		As=2324.66	As=2463.24		As=1706.77
Mu=306.87	Mu=79.25	Mu=350.69	Mu=59.29	Mu=35.58	Mu=76.01	Mu=32.11	Mu=39.79	Mu=13.29
As=11135.64	As=3400.31	As=11991.90	As=2185.10	As=1716.08	As=2839.19	As=1544.90	As=1925.23	As=1485.00
Vu=-142.48		Vu=114.59	Vu=-58.37		Vu=32.16	Vu=-30.79		Vu=23.54

V703/N 25.55

B=0.60 H=0.80 L=7.36		
Mu=-76.91		Mu=-146.90
As=2874.94		As=5853.49
Mu=58.09	Mu=58.09	Mu=62.57
As=2138.72	As=2138.72	As=2330.87
Vu=-38.20		Vu=47.20

V704/N 25.55

B=0.60 H=0.80 L=13.20			B=0.60 H=0.80 L=13.20			B=0.60 H=1.20 L=4.50		
Mu=-194.60		Mu=-179.66	Mu=-201.85		Mu=-183.21	Mu=-454.48		Mu=-438.69
As=8174.41		As=7415.42	As=8554.98		As=7592.85	As=12431.16		As=11903.82
Mu=64.87	Mu=64.94	Mu=59.89	Mu=67.28	Mu=67.56	Mu=61.07	Mu=443.20	Mu=90.90	Mu=397.23
As=2401.11	As=2507.79	As=2208.00	As=2495.41	As=2638.44	As=2253.74	As=12053.39	As=2957.49	As=10565.52
Vu=-57.39		Vu=55.87	Vu=-59.07		Vu=57.27	Vu=-182.91		Vu=215.05

B=0.60 H=1.20 L=2.25			B=0.60 H=1.20 L=4.30			B=0.60 H=1.20 L=1.55		
Mu=-345.43		Mu=-69.09	Mu=-22.57		Mu=-37.72	Mu=-86.06		Mu=-56.56
As=8976.89		As=2277.00	As=2277.00		As=2277.00	As=2709.44		As=2277.00
Mu=307.75	Mu=88.78	Mu=69.09	Mu=17.06	Mu=7.54	Mu=31.73	Mu=65.53	Mu=17.21	Mu=47.83
As=7872.04	As=2797.50	As=2277.00	As=2277.00	As=2277.00	As=2277.00	As=2277.00	As=2277.00	As=2277.00
Vu=-288.54		Vu=-89.02	Vu=-16.22		Vu=24.90	Vu=-68.51		Vu=-65.12

B=0.60 H=0.80 L=3.20			B=0.60 H=0.80 L=3.80		
Mu=-240.43		Mu=-215.73	Mu=-117.53		Mu=-1.49
As=9915.61		As=9308.51	As=4551.96		As=1485.00
Mu=192.63	Mu=48.09	Mu=234.79	Mu=23.51	Mu=0.00	Mu=0.00
As=8439.48	As=2340.65	As=9718.13	As=1485.00	As=1485.00	As=1485.00
Vu=-137.76		Vu=-120.50	Vu=-45.03		Vu=-25.37

V705/N 25.55

B=0.50 H=1.20 L=7.45			B=0.50 H=0.80 L=13.20			B=0.50 H=0.80 L=3.22		
Mu=-6.42		Mu=-358.09	Mu=-158.46		Mu=-140.58	Mu=-128.78		Mu=-25.76
As=1897.50		As=9673.63	As=6620.84		As=5731.74	As=5171.88		As=1238.09
Mu=0.00	Mu=0.00	Mu=71.62	Mu=52.82	Mu=47.10	Mu=47.10	Mu=42.93	Mu=25.76	Mu=25.76
As=1897.50	As=1897.50	As=2254.68	As=1952.87	As=1731.96	As=1731.96	As=1572.34	As=1238.09	As=1238.09
Vu=-18.27		Vu=-80.37	Vu=-41.89		Vu=45.07	Vu=-40.75		Vu=-14.27

B=0.50 H=0.80 L=0.95		
Mu=-128.78		Mu=-0.00
As=5171.88		As=1237.50
Mu=25.76	Mu=8.92	Mu=13.59
As=1238.09	As=1237.50	As=1237.50
Vu=-40.75		Vu=-14.27

V706/N 25.55

B=0.50 H=0.80 L=4.85			B=0.50 H=0.80 L=13.20			B=0.50 H=0.80 L=13.20		
Mu=-1.24		Mu=-85.04	Mu=-136.93		Mu=-118.64	Mu=-137.99		Mu=-130.36
As=1237.50		As=3247.85	As=5556.43		As=4705.90	As=5607.14		As=5245.71
Mu=1.65	Mu=4.78	Mu=17.01	Mu=45.64	Mu=38.22	Mu=39.84	Mu=46.00	Mu=39.93	Mu=43.45
As=1237.50	As=1237.50	As=1237.50	As=1676.09	As=1444.51	As=1455.19	As=1689.63	As=1534.79	As=1592.41
Vu=6.31		Vu=23.58	Vu=-39.61		Vu=38.11	Vu=-41.48		Vu=39.26

B=0.50 H=0.80 L=13.20			B=0.50 H=0.80 L=3.20			B=0.50 H=0.80 L=5.52		
Mu=-111.06		Mu=-79.37	Mu=-169.43		Mu=-142.82	Mu=-110.78		Mu=-0.82
As=4365.97		As=3013.29	As=7194.15		As=5840.31	As=4353.55		As=1237.50
Mu=37.02	Mu=32.74	Mu=33.30	Mu=111.69	Mu=33.89	Mu=154.04	Mu=22.16	Mu=0.00	Mu=0.94
As=1348.61	As=1611.59	As=1611.59	As=4393.96	As=1367.53	As=6396.10	As=1237.50	As=1237.50	As=1237.50
Vu=-38.84		Vu=28.88	Vu=-93.12		Vu=-82.44	Vu=-34.65		Vu=-8.41

V707/N 25.55

B=0.60 H=0.80 L=2.05			B=0.60 H=0.80 L=4.75			B=1.00 H=0.80 L=1.90		
Mu=-0.00		Mu=-84.48	Mu=-48.80		Mu=-41.09	Mu=-106.90		Mu=-240.56
As=1485.00		As=3177.92	As=1783.73		As=1493.09	As=3954.72		As=9560.75
Mu=1.37	Mu=0.00	Mu=16.90	Mu=27.76	Mu=10.84	Mu=54.19	Mu=96.74	Mu=68.97	Mu=240.56
As=1485.00	As=1485.00	As=1485.00	As=1485.00	As=1485.00	As=1989.04	As=3561.58	As=3820.62	As=9560.75
Vu=23.66		Vu=32.51	Vu=-41.86		Vu=-54.96	Vu=-197.01		Vu=190.19

B=1.00 H=0.80 L=5.37		
Mu=-439.53		Mu=-434.01
As=17885.03		As=17691.75
Mu=443.64	Mu=99.73	Mu=386.75
As=20452.68	As=4899.24	As=18233.26
Vu=-164.01		Vu=169.26

V708/N 25.55

B=0.60 H=0.80 L=3.40			B=0.60 H=0.80 L=1.40		
Mu=-146.81		Mu=-175.43	Mu=-57.44		Mu=-0.00
As=5849.37		As=7206.24	As=2113.71		As=1485.00
Mu=150.71	Mu=35.09	Mu=159.91	Mu=11.49	Mu=0.00	Mu=1.68
As=6028.70	As=1928.62	As=6458.44	As=1485.00	As=1485.00	As=1485.00
Vu=-93.68		Vu=100.85	Vu=-27.62		Vu=-20.52

V709/N 25.55

B=0.50 H=0.80 L=2.05			B=0.50 H=0.80 L=2.50			B=0.50 H=0.80 L=1.25		
Mu=-0.00		Mu=-71.13	Mu=-100.94		Mu=-122.74	Mu=-57.45		Mu=-30.13
As=1237.50		As=2677.70	As=3922.52		As=4892.72	As=2133.56		As=1454.01
Mu=2.33	Mu=0.00	Mu=14.23	Mu=112.20	Mu=24.55	Mu=97.20	Mu=48.66	Mu=11.51	Mu=18.16
As=1237.50	As=1237.50	As=1237.50	As=4416.66	As=1237.50	As=3761.48	As=1791.96	As=1237.50	As=1237.50
Vu=19.97		Vu=28.12	Vu=90.64		Vu=97.31	Vu=-46.14		Vu=48.74

B=0.50 H=0.80 L=1.40			B=0.50 H=0.80 L=2.15		
Mu=-9.19		Mu=-45.94	Mu=-71.01		Mu=-0.00
As=1237.50		As=1687.46	As=2672.86		As=1237.50
Mu=31.03	Mu=9.19	Mu=15.31	Mu=14.20	Mu=0.00	Mu=1.70
As=1498.66	As=1237.50	As=1237.50	As=1237.50	As=1237.50	As=1237.50
Vu=40.23		Vu=45.33	Vu=-34.36		Vu=-27.12

V710/N 25.55

B=0.50 H=0.80 L=0.60			B=0.50 H=0.80 L=3.40			B=0.50 H=0.80 L=1.40		
Mu=-0.00		Mu=-6.98	Mu=-106.59		Mu=-96.69	Mu=-42.17		Mu=-0.00
As=1237.50		As=1237.50	As=4168.68		As=3739.64	As=1543.54		As=1237.50
Mu=0.89	Mu=0.00	Mu=1.40	Mu=92.50	Mu=21.32	Mu=102.81	Mu=8.43	Mu=0.00	Mu=1.27
As=1237.50	As=1237.50	As=1237.50	As=3561.19	As=1237.50	As=4003.60	As=1237.50	As=1237.50	As=1237.50
Vu=8.73		Vu=10.74	Vu=-66.13		Vu=58.63	Vu=-21.29		Vu=-14.29

V711/N 25.55

B=0.50 H=0.80 L=2.48			B=0.50 H=0.80 L=5.60			B=0.50 H=0.80 L=3.95		
Mu=-9.42		Mu=-18.84	Mu=-14.96		Mu=-41.01	Mu=-67.20		Mu=-0.00
As=1237.50		As=1237.50	As=1237.50		As=1499.46	As=2519.76		As=1237.50
Mu=3.16	Mu=10.13	Mu=13.41	Mu=24.34	Mu=9.03	Mu=13.67	Mu=13.44	Mu=14.07	Mu=17.00
As=1237.50	As=1237.50	As=1237.50	As=1237.50	As=1237.50	As=1237.50	As=1237.50	As=1237.50	As=1237.50
Vu=-6.64		Vu=4.41	Vu=-9.88		Vu=17.55	Vu=-18.93		Vu=-13.63

V712/N 25.55

B=0.50 H=0.80 L=1.45			B=0.50 H=0.80 L=3.50			B=0.50 H=0.55 L=1.95		
Mu=-0.03		Mu=-52.88	Mu=-66.28		Mu=-24.80	Mu=-26.88		Mu=-0.00
As=1237.50		As=1955.21	As=2482.98		As=1526.57	As=1501.83		As=825.00
Mu=0.68	Mu=0.00	Mu=10.58	Mu=22.09	Mu=13.26	Mu=13.26	Mu=5.38	Mu=0.00	Mu=0.00
As=1237.50	As=1237.50	As=1237.50	As=1237.50	As=1237.50	As=1237.50	As=825.00	As=825.00	As=825.00
Vu=7.78		Vu=19.07	Vu=-16.35		Vu=-4.09	Vu=-13.93		Vu=-12.30

V713/N 25.55

B=0.50 H=0.80 L=2.50			B=0.50 H=0.80 L=1.25			B=0.50 H=0.80 L=1.40		
Mu=-95.56		Mu=-106.32	Mu=-64.44		Mu=-46.52	Mu=-19.67		Mu=-56.88
As=3691.33		As=4156.84	As=2409.64		As=1709.70	As=1237.50		As=2111.23
Mu=106.41	Mu=21.28	Mu=93.98	Mu=58.53	Mu=12.89	Mu=33.81	Mu=45.20	Mu=11.38	Mu=18.96
As=4160.78	As=1237.50	As=3624.02	As=2175.96	As=1237.50	As=1637.03	As=1659.13	As=1237.50	As=1237.50
Vu=82.52		Vu=87.67	Vu=61.92		Vu=65.32	Vu=53.50		Vu=57.48

B=0.50 H=0.80 L=2.15		
Mu=-113.34		Mu=-48.32
As=4467.50		As=2027.21
Mu=22.67	Mu=7.91	Mu=2.79
As=1237.50	As=1237.50	As=1237.50
Vu=-66.72		Vu=-64.58

V714/N 25.55

B=0.50 H=0.80 L=0.60			B=0.50 H=0.80 L=3.40			B=0.50 H=0.80 L=1.40		
Mu=-0.00		Mu=-4.93	Mu=-106.41		Mu=-93.88	Mu=-43.51		Mu=-0.00
As=1237.50		As=1237.50	As=4160.78		As=3619.76	As=1594.57		As=1237.50
Mu=0.83	Mu=0.00	Mu=0.99	Mu=89.97	Mu=21.28	Mu=102.29	Mu=8.70	Mu=0.00	Mu=1.24
As=1237.50	As=1237.50	As=1237.50	As=3454.30	As=1237.50	As=3981.02	As=1237.50	As=1237.50	As=1237.50
Vu=6.26		Vu=8.26	Vu=-65.92		Vu=56.97	Vu=-21.83		Vu=-14.89

V715/N 25.55

B=0.50 H=0.80 L=2.50			B=0.50 H=0.80 L=1.25			B=0.50 H=0.80 L=1.40		
Mu=-87.52		Mu=-97.63	Mu=-47.55		Mu=-39.18	Mu=-14.46		Mu=-72.32
As=3351.41		As=3779.92	As=1749.25		As=1436.08	As=1237.50		As=2725.79
Mu=93.22	Mu=19.53	Mu=86.40	Mu=51.73	Mu=10.35	Mu=15.48	Mu=43.23	Mu=14.46	Mu=24.11
As=3591.72	As=1237.50	As=3304.56	As=1910.58	As=1237.50	As=1237.50	As=1583.90	As=1237.50	As=1237.50
Vu=73.20		Vu=79.68	Vu=52.90		Vu=57.30	Vu=58.47		Vu=63.99

B=0.50 H=0.80 L=2.15			B=0.50 H=0.55 L=1.95		
Mu=-154.83		Mu=-30.97	Mu=-26.88		Mu=-0.00
As=6436.02		As=1254.98	As=1501.83		As=825.00
Mu=51.61	Mu=30.97	Mu=30.97	Mu=5.38	Mu=0.00	Mu=0.00
As=1905.93	As=1495.48	As=1495.48	As=825.00	As=825.00	As=825.00
Vu=-60.16		Vu=-52.94	Vu=-13.93		Vu=-12.30

V716/N 25.55

B=0.50 H=0.80 L=0.60			B=0.50 H=0.80 L=3.40			B=0.50 H=0.80 L=1.40		
Mu=-0.00		Mu=-7.07	Mu=-106.17		Mu=-91.53	Mu=-42.11		Mu=-0.00
As=1237.50		As=1237.50	As=4150.26		As=3520.13	As=1541.26		As=1237.50
Mu=0.90	Mu=0.02	Mu=1.41	Mu=87.56	Mu=21.23	Mu=102.52	Mu=8.42	Mu=0.00	Mu=1.26
As=1237.50	As=1237.50	As=1237.50	As=3353.08	As=1237.50	As=3991.00	As=1237.50	As=1237.50	As=1237.50
Vu=8.89		Vu=10.89	Vu=-65.92		Vu=-56.84	Vu=-21.26		Vu=-14.25

V717/N 25.55

B=0.50 H=0.80 L=2.50			B=0.50 H=0.80 L=1.25			B=0.50 H=0.80 L=1.40		
Mu=-107.13		Mu=-134.39	Mu=-80.13		Mu=-54.87	Mu=-61.46		Mu=-127.49
As=4192.39		As=5435.58	As=3044.56		As=2032.67	As=2291.45		As=5111.85
Mu=132.37	Mu=26.88	Mu=104.81	Mu=64.93	Mu=16.03	Mu=52.84	Mu=73.84	Mu=25.50	Mu=98.09
As=5340.12	As=1335.03	As=4090.75	As=2429.14	As=1237.50	As=1953.65	As=2787.40	As=1276.73	As=3799.67
Vu=103.35		Vu=110.03	Vu=-82.14		Vu=-77.74	Vu=109.48		Vu=114.57

V718/N 25.55

B=0.60 H=0.80 L=6.56			B=0.60 H=0.80 L=3.40			B=0.60 H=0.80 L=1.40		
Mu=-207.35		Mu=-215.69	Mu=-146.90		Mu=-160.61	Mu=-59.16		Mu=-0.00
As=8849.49		As=9306.29	As=5853.49		As=6491.53	As=2179.95		As=1485.00
Mu=207.99	Mu=43.14	Mu=184.34	Mu=139.46	Mu=32.12	Mu=156.12	Mu=11.83	Mu=0.00	Mu=1.33
As=8884.10	As=2109.17	As=7649.70	As=5515.77	As=1852.25	As=6280.24	As=1485.00	As=1485.00	As=1485.00
Vu=-74.94		Vu=75.29	Vu=-93.74		Vu=92.78	Vu=-28.17		Vu=-21.07

V719/N 25.55

B=0.40 H=0.80 L=1.70			B=0.40 H=0.80 L=6.05		
Mu=-20.63		Mu=-47.31	Mu=-153.85		Mu=-116.38
As=991.71		As=1759.88	As=6426.89		As=4776.00
Mu=24.18	Mu=9.46	Mu=36.68	Mu=132.19	Mu=30.77	Mu=103.09
As=1166.98	As=990.00	As=1347.21	As=5577.86	As=1617.01	As=4140.58
Vu=30.73		Vu=32.80	Vu=61.79		Vu=38.38

V720/N 25.55

B=0.50 H=0.80 L=4.80			B=0.50 H=0.80 L=1.47			B=0.50 H=0.80 L=2.10		
Mu=-5.37		Mu=-25.32	Mu=-17.68		Mu=-51.02	Mu=-77.22		Mu=-1.53
As=1237.50		As=1237.50	As=1237.50		As=1883.08	As=2925.14		As=1237.50
Mu=5.06	Mu=5.06	Mu=9.40	Mu=32.04	Mu=10.20	Mu=17.01	Mu=15.44	Mu=0.00	Mu=3.10
As=1237.50	As=1237.50	As=1237.50	As=1548.85	As=1237.50	As=1237.50	As=1237.50	As=1237.50	As=1237.50
Vu=-6.97		Vu=25.79	Vu=43.60		Vu=48.70	Vu=-30.14		Vu=-21.49

V721/N 25.55

B=0.50 H=0.80 L=4.90			B=0.50 H=0.80 L=1.90			B=0.50 H=0.80 L=2.10		
Mu=-13.25		Mu=-8.37	Mu=-10.57		Mu=-39.59	Mu=-59.77		Mu=-0.24
As=1237.50		As=1237.50	As=1237.50		As=1445.65	As=2224.75		As=1237.50
Mu=5.22	Mu=2.65	Mu=3.40	Mu=20.70	Mu=7.92	Mu=13.84	Mu=11.95	Mu=0.00	Mu=2.90
As=1237.50	As=1237.50	As=1237.50	As=1237.50	As=1237.50	As=1237.50	As=1237.50	As=1237.50	As=1237.50
Vu=-11.59		Vu=9.26	Vu=30.73		Vu=35.84	Vu=-25.55		Vu=-17.24

V800/N 29.75

B=0.50 H=0.80 L=5.14			B=0.50 H=0.80 L=11.10			B=0.50 H=0.80 L=11.10		
Mu=-2.59		Mu=-158.99	Mu=-147.80		Mu=-130.57	Mu=-142.69		Mu=-130.71
As=1237.50		As=6648.02	As=6084.49		As=5255.54	As=5833.99		As=5262.11
Mu=3.63	Mu=0.00	Mu=31.80	Mu=49.27	Mu=42.27	Mu=44.85	Mu=47.56	Mu=43.16	Mu=47.12
As=1237.50	As=1237.50	As=1536.81	As=1815.34	As=1594.95	As=1645.74	As=1749.76	As=1661.96	As=1732.72
Vu=15.32		Vu=42.33	Vu=-43.96		Vu=42.96	Vu=-45.77		Vu=43.24

B=0.50 H=0.80 L=11.10			B=0.50 H=0.80 L=11.10			B=0.50 H=0.80 L=5.13		
Mu=-141.62		Mu=-130.89	Mu=-142.63		Mu=-136.38	Mu=-145.29		Mu=-2.04
As=5782.05		As=5270.55	As=5831.07		As=5530.18	As=5960.93		As=1237.50
Mu=47.21	Mu=43.77	Mu=46.53	Mu=47.54	Mu=42.83	Mu=46.56	Mu=29.06	Mu=0.00	Mu=3.31
As=1736.05	As=1640.85	As=1710.08	As=1748.99	As=1599.30	As=1711.23	As=1400.93	As=1237.50	As=1237.50
Vu=-45.45		Vu=43.44	Vu=-45.45		Vu=42.53	Vu=-40.26		Vu=-12.13

V801/N 29.75

B=0.50 H=0.80 L=4.47			B=0.50 H=0.80 L=11.10			B=0.50 H=0.80 L=11.10		
Mu=-5.61		Mu=-182.78	Mu=-156.16		Mu=-121.85	Mu=-123.95		Mu=-110.27
As=1237.50		As=7925.07	As=6503.47		As=4851.98	As=4948.26		As=4330.94
Mu=1.76	Mu=0.23	Mu=36.56	Mu=52.05	Mu=31.48	Mu=40.62	Mu=41.32	Mu=27.11	Mu=42.50
As=1237.50	As=1237.50	As=1331.15	As=1923.12	As=1506.30	As=1484.54	As=1511.11	As=1556.09	As=1556.09
Vu=11.99		Vu=52.22	Vu=-61.34		Vu=38.96	Vu=-39.03		Vu=36.47

B=0.50 H=0.80 L=11.10			B=0.50 H=0.80 L=11.05			B=0.50 H=0.80 L=10.60		
Mu=-122.00		Mu=-111.48	Mu=-132.83		Mu=-115.73	Mu=-166.26		Mu=-83.45
As=4858.84		As=4384.63	As=5361.81		As=4574.58	As=7026.11		As=3181.77
Mu=40.67	Mu=26.90	Mu=41.11	Mu=44.28	Mu=44.28	Mu=38.58	Mu=65.76	Mu=50.33	Mu=33.25
As=1486.44	As=1270.35	As=1503.26	As=1623.83	As=1623.83	As=1560.59	As=2462.22	As=1856.40	As=1609.20
Vu=-38.82		Vu=36.76	Vu=-40.80		Vu=40.52	Vu=-62.25		Vu=26.16

V802/N 29.75

B=0.60 H=1.20 L=8.52			B=0.60 H=1.00 L=1.50			B=0.60 H=1.00 L=4.50		
Mu=-3.79		Mu=-457.19	Mu=-163.20		Mu=-32.64	Mu=-74.52		Mu=-372.61
As=2277.00		As=12522.72	As=4919.30		As=1881.00	As=2146.57		As=12299.30
Mu=5.81	Mu=0.00	Mu=91.44	Mu=54.40	Mu=32.64	Mu=40.43	Mu=74.52	Mu=74.52	Mu=272.21
As=2277.00	As=2277.00	As=2883.70	As=2069.07	As=1881.00	As=1881.00	As=5333.34	As=5333.34	As=8888.90
Vu=21.99		Vu=111.11	Vu=-101.64		Vu=-98.12	Vu=-23.44		Vu=323.83

B=0.60 H=1.00 L=7.00			B=0.60 H=0.80 L=6.80			B=0.60 H=0.80 L=0.30		
Mu=-414.98		Mu=-367.94	Mu=-209.93		Mu=-107.67	Mu=-15.98		Mu=-0.49
As=13486.13		As=12211.09	As=8989.45		As=4132.78	As=1485.00		As=1485.00
Mu=306.21	Mu=83.00	Mu=338.72	Mu=69.98	Mu=41.99	Mu=152.12	Mu=5.43	Mu=11.57	Mu=19.13
As=11809.16	As=3383.26	As=11468.48	As=2600.96	As=2141.41	As=6093.94	As=1485.00	As=1485.00	As=1485.00
Vu=-152.45		Vu=116.80	Vu=-70.14		Vu=40.30	Vu=-19.94		Vu=-17.90

V803/N 29.75

B=0.60 H=0.80 L=2.10			B=0.60 H=0.80 L=13.20			B=0.60 H=0.80 L=13.20		
Mu=-12.41		Mu=-62.07	Mu=-200.51		Mu=-187.12	Mu=-201.49		Mu=-184.83
As=1485.00		As=2292.47	As=8484.00		As=7790.34	As=8535.88		As=7674.41
Mu=12.41	Mu=12.41	Mu=20.69	Mu=66.84	Mu=66.13	Mu=62.37	Mu=67.16	Mu=67.60	Mu=61.61
As=1485.00	As=1485.00	As=1485.00	As=2477.95	As=2572.43	As=2304.23	As=2490.72	As=2642.37	As=2274.64
Vu=15.45		Vu=27.84	Vu=-58.08		Vu=57.73	Vu=-59.09		Vu=57.59

B=0.60 H=1.20 L=4.48			B=0.60 H=1.20 L=2.25			B=0.60 H=1.20 L=4.30		
Mu=-454.67		Mu=-442.41	Mu=-350.30		Mu=-70.06	Mu=-20.22		Mu=-32.33
As=12437.57		As=12027.13	As=9122.66		As=2277.00	As=2277.00		As=2277.00
Mu=447.72	Mu=90.93	Mu=394.86	Mu=308.44	Mu=89.88	Mu=70.06	Mu=14.21	Mu=6.47	Mu=25.90
As=12204.13	As=3014.03	As=10490.91	As=7891.92	As=2833.16	As=2277.00	As=2277.00	As=2277.00	As=2277.00
Vu=-182.50		Vu=217.18	Vu=-291.33		Vu=-89.71	Vu=-15.72		Vu=22.23

B=0.60 H=1.20 L=1.35			B=0.60 H=0.80 L=3.20			B=0.60 H=0.80 L=3.80		
Mu=-73.23		Mu=-41.57	Mu=-236.71		Mu=-208.54	Mu=-117.72		Mu=-1.46
As=2296.17		As=2277.00	As=9785.36		As=8913.90	As=4560.12		As=1485.00
Mu=55.90	Mu=14.65	Mu=30.94	Mu=187.60	Mu=47.34	Mu=228.16	Mu=23.54	Mu=0.00	Mu=0.00
As=2277.00	As=2277.00	As=2277.00	As=8008.10	As=2237.73	As=9640.33	As=1485.00	As=1485.00	As=1485.00
Vu=-53.26		Vu=-49.87	Vu=-134.97		Vu=-117.69	Vu=-45.12		Vu=-25.41

V804/N 29.75

B=0.50 H=1.20 L=7.36			B=0.50 H=0.80 L=13.20			B=0.50 H=0.80 L=4.80		
Mu=-6.44		Mu=-358.45	Mu=-156.50		Mu=-153.48	Mu=-127.41		Mu=-1.88
As=1897.50		As=9685.41	As=6520.76		As=6367.87	As=5108.13		As=1237.50
Mu=0.00	Mu=0.00	Mu=71.69	Mu=52.17	Mu=46.25	Mu=51.16	Mu=25.48	Mu=6.99	Mu=8.84
As=1897.50	As=1897.50	As=2257.00	As=1927.51	As=1699.34	As=1888.50	As=1237.50	As=1237.50	As=1237.50
Vu=-18.28		Vu=-80.41	Vu=-41.36		Vu=57.17	Vu=-38.52		Vu=-11.45

V805/N 29.75

B=0.50 H=0.80 L=4.85			B=0.50 H=0.80 L=13.20			B=0.50 H=0.80 L=13.20		
Mu=-0.91		Mu=-85.26	Mu=-135.68		Mu=-120.74	Mu=-138.23		Mu=-130.72
As=1237.50		As=3257.01	As=5496.84		As=4801.32	As=5618.64		As=5262.57
Mu=0.62	Mu=0.00	Mu=17.05	Mu=45.23	Mu=40.26	Mu=40.26	Mu=46.08	Mu=39.91	Mu=43.57
As=1237.50	As=1237.50	As=1237.50	As=1660.15	As=1471.02	As=1471.02	As=1692.70	As=1543.92	As=1596.99
Vu=6.23		Vu=26.61	Vu=-39.21		Vu=38.63	Vu=-41.54		Vu=39.26

B=0.50 H=0.80 L=13.20			B=0.50 H=0.80 L=3.20			B=0.50 H=0.80 L=5.52		
Mu=-110.13		Mu=-79.44	Mu=-166.23		Mu=-137.67	Mu=-110.75		Mu=-0.82
As=4324.73		As=3016.17	As=7024.53		As=5591.81	As=4352.21		As=1237.50
Mu=36.71	Mu=32.89	Mu=33.42	Mu=107.01	Mu=33.25	Mu=150.15	Mu=22.15	Mu=0.00	Mu=0.94
As=1336.94	As=1617.57	As=1617.57	As=4187.12	As=1323.25	As=6201.08	As=1237.50	As=1237.50	As=1237.50
Vu=-38.67		Vu=28.69	Vu=-91.21		Vu=-80.51	Vu=-34.63		Vu=-8.41

V806/N 29.75

B=0.60 H=0.80 L=2.05			B=0.60 H=0.80 L=4.75			B=0.80 H=0.80 L=1.90		
Mu=-0.00		Mu=-84.55	Mu=-48.15		Mu=-41.98	Mu=-71.09		Mu=-133.69
As=1485.00		As=3180.74	As=1759.09		As=1526.46	As=2607.58		As=5097.88
Mu=1.36	Mu=0.00	Mu=16.91	Mu=25.79	Mu=11.25	Mu=56.24	Mu=65.53	Mu=31.43	Mu=131.12
As=1485.00	As=1485.00	As=1485.00	As=1485.00	As=1485.00	As=2067.60	As=2395.88	As=2489.70	As=4991.43
Vu=23.67		Vu=32.53	Vu=-40.59		Vu=-55.28	Vu=-114.98		Vu=112.99

B=0.80 H=0.80 L=5.37		
Mu=-294.57		Mu=-288.40
As=12799.82		As=12453.61
Mu=292.66	Mu=64.07	Mu=258.29
As=12692.05	As=3087.95	As=10838.21
Vu=-112.58		Vu=112.49

V807/N 29.75

B=0.60 H=0.80 L=3.40			B=0.60 H=0.80 L=1.40		
Mu=-161.89		Mu=-187.80	Mu=-57.84		Mu=-0.00
As=6552.19		As=7824.91	As=2129.09		As=1485.00
Mu=166.83	Mu=37.56	Mu=170.57	Mu=11.57	Mu=0.00	Mu=1.69
As=6788.17	As=1945.58	As=6968.82	As=1485.00	As=1485.00	As=1485.00
Vu=-101.22		Vu=109.23	Vu=-27.79		Vu=-20.68

V808/N 29.75

B=0.50 H=0.80 L=2.10			B=0.50 H=0.80 L=5.10			B=0.50 H=0.80 L=3.80		
Mu=-0.56		Mu=-34.11	Mu=-29.19		Mu=-58.29	Mu=-45.73		Mu=-26.46
As=1237.50		As=1239.31	As=1407.46		As=2166.53	As=1679.41		As=1272.72
Mu=0.38	Mu=3.80	Mu=6.82	Mu=11.66	Mu=11.66	Mu=19.43	Mu=15.24	Mu=9.15	Mu=9.15
As=1237.50	As=1237.50	As=1237.50	As=1237.50	As=1237.50	As=1237.50	As=1237.50	As=1237.50	As=1237.50
Vu=7.22		Vu=15.37	Vu=-11.29		Vu=18.89	Vu=-11.11		Vu=3.22

B=0.50 H=0.55 L=1.90		
Mu=-26.88		Mu=-0.00
As=1501.83		As=825.00
Mu=5.38	Mu=0.00	Mu=0.00
As=825.00	As=825.00	As=825.00
Vu=-13.93		Vu=-12.30

V809/N 29.75

B=0.50 H=0.80 L=2.05			B=0.50 H=0.80 L=2.50			B=0.50 H=0.80 L=1.25		
Mu=-0.00		Mu=-59.26	Mu=-89.64		Mu=-118.06	Mu=-55.55		Mu=-31.10
As=1237.50		As=2204.67	As=3440.41		As=4679.65	As=2059.21		As=1502.13
Mu=2.29	Mu=0.00	Mu=11.85	Mu=106.80	Mu=23.61	Mu=85.61	Mu=46.86	Mu=11.11	Mu=17.05
As=1237.50	As=1237.50	As=1237.50	As=4177.90	As=1237.50	As=3271.60	As=1722.74	As=1237.50	As=1237.50
Vu=15.72		Vu=24.60	Vu=86.61		Vu=93.28	Vu=-44.29		Vu=48.34

B=0.50 H=0.80 L=1.40			B=0.50 H=0.80 L=2.15		
Mu=-10.32		Mu=-51.61	Mu=-113.52		Mu=-0.00
As=1237.50		As=1905.93	As=4475.54		As=1237.50
Mu=32.89	Mu=10.32	Mu=17.20	Mu=22.70	Mu=0.00	Mu=1.84
As=1591.16	As=1237.50	As=1237.50	As=1237.50	As=1237.50	As=1237.50
Vu=44.46		Vu=49.56	Vu=-52.54		Vu=-45.30

V810/N 29.75

B=0.50 H=0.80 L=0.60			B=0.50 H=0.80 L=3.40			B=0.50 H=0.80 L=1.40		
Mu=-0.00		Mu=-7.11	Mu=-103.83		Mu=-97.02	Mu=-41.88		Mu=-0.00
As=1237.50		As=1237.50	As=4047.99		As=3753.77	As=1532.51		As=1237.50
Mu=0.87	Mu=0.00	Mu=1.42	Mu=91.92	Mu=20.77	Mu=100.03	Mu=8.38	Mu=0.00	Mu=1.27
As=1237.50	As=1237.50	As=1237.50	As=3536.63	As=1237.50	As=3883.20	As=1237.50	As=1237.50	As=1237.50
Vu=8.92		Vu=10.92	Vu=-64.49		Vu=58.79	Vu=-21.17		Vu=-14.20

V811/N 29.75

B=0.50 H=0.80 L=2.50			B=0.50 H=0.80 L=1.25			B=0.50 H=0.80 L=1.40		
Mu=-85.12		Mu=-100.66	Mu=-62.00		Mu=-37.17	Mu=-15.89		Mu=-53.13
As=3251.18		As=3910.41	As=2312.81		As=1367.81	As=1237.50		As=1964.92
Mu=99.51	Mu=20.13	Mu=83.72	Mu=49.28	Mu=12.40	Mu=29.58	Mu=39.70	Mu=10.63	Mu=17.71
As=3860.77	As=1237.50	As=3192.97	As=1815.86	As=1237.50	As=1426.77	As=1449.81	As=1237.50	As=1237.50
Vu=76.73		Vu=83.40	Vu=-56.18		Vu=53.50	Vu=47.84		Vu=53.06

B=0.50 H=0.80 L=2.15		
Mu=-35.81		Mu=-0.00
As=1303.09		As=1237.50
Mu=7.16	Mu=0.00	Mu=7.36
As=1237.50	As=1237.50	As=1237.50
Vu=-21.75		Vu=-14.52

V812/N 29.75

B=0.50 H=0.80 L=0.60			B=0.50 H=0.80 L=3.40			B=0.50 H=0.80 L=1.40		
Mu=-0.00		Mu=-4.79	Mu=-102.19		Mu=-95.53	Mu=-43.22		Mu=-0.00
As=1237.50		As=1237.50	As=3976.68		As=3690.05	As=1583.52		As=1237.50
Mu=0.83	Mu=0.00	Mu=0.96	Mu=90.32	Mu=20.44	Mu=97.44	Mu=8.64	Mu=0.00	Mu=1.25
As=1237.50	As=1237.50	As=1237.50	As=3469.05	As=1237.50	As=3771.77	As=1237.50	As=1237.50	As=1237.50
Vu=6.09		Vu=8.10	Vu=-63.25		Vu=58.01	Vu=-21.71		Vu=-14.76

V813/N 29.75

B=0.50 H=0.80 L=2.50			B=0.50 H=0.80 L=1.25			B=0.50 H=0.80 L=1.40		
Mu=-79.34		Mu=-91.21	Mu=-46.49		Mu=-39.81	Mu=-14.79		Mu=-73.94
As=3012.06		As=3506.61	As=1708.54		As=1468.69	As=1237.50		As=2791.46
Mu=86.66	Mu=18.24	Mu=77.84	Mu=50.72	Mu=10.14	Mu=14.75	Mu=45.16	Mu=14.79	Mu=24.65
As=3315.43	As=1237.50	As=2950.51	As=1871.48	As=1237.50	As=1237.50	As=1657.60	As=1237.50	As=1237.50
Vu=67.81		Vu=74.49	Vu=52.66		Vu=57.07	Vu=61.71		Vu=66.81

B=0.50 H=0.80 L=2.15			B=0.50 H=0.55 L=1.95		
Mu=-155.66		Mu=-31.13	Mu=-26.88		Mu=-0.00
As=6478.08		As=1257.75	As=1501.83		As=825.00
Mu=51.89	Mu=31.13	Mu=31.13	Mu=5.38	Mu=0.00	Mu=0.00
As=1916.65	As=1503.72	As=1503.72	As=825.00	As=825.00	As=825.00
Vu=-60.53		Vu=-53.30	Vu=-13.93		Vu=-12.30

V814/N 29.75

B=0.50 H=0.80 L=0.60			B=0.50 H=0.80 L=3.40			B=0.50 H=0.80 L=1.40		
Mu=-0.00		Mu=-7.15	Mu=-108.18		Mu=-98.31	Mu=-42.07		Mu=-0.00
As=1237.50		As=1237.50	As=4238.60		As=3809.12	As=1539.73		As=1237.50
Mu=0.92	Mu=0.08	Mu=1.43	Mu=92.78	Mu=21.64	Mu=103.95	Mu=8.41	Mu=0.00	Mu=1.27
As=1237.50	As=1237.50	As=1237.50	As=3573.06	As=1237.50	As=4053.22	As=1237.50	As=1237.50	As=1237.50
Vu=9.00		Vu=11.00	Vu=-66.93		Vu=59.10	Vu=-21.25		Vu=-14.25

V815/N 29.75

B=0.50 H=0.80 L=2.50			B=0.50 H=0.80 L=1.25			B=0.50 H=0.80 L=1.40		
Mu=-103.99		Mu=-135.34	Mu=-82.94		Mu=-54.63	Mu=-62.32		Mu=-129.11
As=4054.97		As=5480.67	As=3160.62		As=2023.31	As=2325.48		As=5187.27
Mu=133.31	Mu=27.07	Mu=101.15	Mu=66.13	Mu=16.59	Mu=53.05	Mu=73.85	Mu=25.82	Mu=101.92
As=5384.47	As=1343.91	As=3931.61	As=2476.99	As=1237.50	As=1961.81	As=2787.81	As=1348.54	As=3964.97
Vu=104.12		Vu=110.79	Vu=-84.04		Vu=-79.64	Vu=110.40		Vu=115.50

V816/N 29.75

B=0.60 H=0.80 L=6.56			B=0.60 H=0.80 L=3.40			B=0.60 H=0.80 L=1.40		
Mu=-215.27		Mu=-221.60	Mu=-158.92		Mu=-175.47	Mu=-59.03		Mu=-0.00
As=9282.98		As=9637.96	As=6411.73		As=7208.21	As=2174.94		As=1485.00
Mu=216.37	Mu=44.32	Mu=190.11	Mu=152.06	Mu=35.09	Mu=169.52	Mu=11.81	Mu=0.00	Mu=1.36
As=9344.10	As=2188.44	As=7942.86	As=6091.17	As=1508.16	As=6917.93	As=1485.00	As=1485.00	As=1485.00
Vu=-77.19		Vu=77.55	Vu=-101.19		Vu=100.81	Vu=-28.11		Vu=-21.00

V817/N 29.75

B=0.40 H=0.80 L=1.70			B=0.40 H=0.80 L=6.05		
Mu=-21.51		Mu=-49.25	Mu=-158.11		Mu=-118.16
As=1035.02		As=1836.40	As=6534.19		As=4863.64
Mu=25.24	Mu=9.85	Mu=38.42	Mu=137.82	Mu=31.62	Mu=102.90
As=1219.59	As=990.00	As=1414.01	As=6020.43	As=1600.80	As=4131.72
Vu=32.06		Vu=34.14	Vu=-63.20		Vu=38.80

V818/N 29.75

B=0.50 H=0.80 L=4.80			B=0.50 H=0.80 L=1.47			B=0.50 H=0.80 L=2.10		
Mu=-5.69		Mu=-21.55	Mu=-9.48		Mu=-47.42	Mu=-77.95		Mu=-1.44
As=1237.50		As=1237.50	As=1237.50		As=1744.25	As=2955.02		As=1237.50
Mu=4.31	Mu=5.08	Mu=7.18	Mu=23.41	Mu=9.48	Mu=15.81	Mu=15.59	Mu=0.00	Mu=3.05
As=1237.50	As=1237.50	As=1237.50	As=1237.50	As=1237.50	As=1237.50	As=1237.50	As=1237.50	As=1237.50
Vu=-7.50		Vu=21.97	Vu=36.85		Vu=41.95	Vu=-30.37		Vu=-21.71

V901/N 33.95

B=0.50 H=0.80 L=4.47			B=0.50 H=0.80 L=11.10			B=0.50 H=0.80 L=11.10		
Mu=-5.81		Mu=-183.12	Mu=-152.88		Mu=-117.84	Mu=-122.85		Mu=-105.27
As=1237.50		As=7944.21	As=6337.68		As=4669.70	As=4897.76		As=4110.85
Mu=1.48	Mu=0.62	Mu=36.62	Mu=50.96	Mu=30.74	Mu=39.28	Mu=40.95	Mu=27.07	Mu=40.97
As=1237.50	As=1237.50	As=1333.71	As=1880.76	As=1436.34	As=1433.92	As=1497.19	As=1497.95	As=1497.95
Vu=11.97		Vu=52.07	Vu=-60.28		Vu=37.91	Vu=-38.81		Vu=35.44

B=0.50 H=0.80 L=11.10			B=0.50 H=0.80 L=11.05			B=0.50 H=0.80 L=10.15		
Mu=-120.80		Mu=-107.79	Mu=-131.88		Mu=-115.87	Mu=-161.27		Mu=-79.77
As=4804.06		As=4221.42	As=5317.05		As=4580.88	As=6765.54		As=3029.74
Mu=40.27	Mu=26.69	Mu=39.92	Mu=43.96	Mu=43.96	Mu=38.62	Mu=71.82	Mu=49.58	Mu=32.25
As=1471.27	As=1458.14	As=1458.14	As=1611.74	As=1611.74	As=1532.28	As=2705.57	As=1827.43	As=1623.34
Vu=-38.45		Vu=35.94	Vu=-40.44		Vu=40.57	Vu=-59.80		Vu=24.54

V902/N 33.95

B=0.60 H=1.20 L=8.53			B=0.60 H=1.00 L=1.55			B=0.60 H=1.00 L=4.45		
Mu=-3.75		Mu=-452.40	Mu=-151.39		Mu=-30.28	Mu=-73.96		Mu=-369.80
As=2277.00		As=12361.10	As=4534.05		As=1881.00	As=2129.81		As=12220.59
Mu=5.75	Mu=0.00	Mu=90.48	Mu=50.46	Mu=30.28	Mu=34.50	Mu=73.96	Mu=73.96	Mu=267.44
As=2277.00	As=2277.00	As=2852.62	As=1915.85	As=1881.00	As=1881.00	As=5161.38	As=5161.38	As=8602.30
Vu=21.49		Vu=111.19	Vu=-92.78		Vu=-89.25	Vu=-20.78		Vu=318.72

B=0.60 H=1.00 L=7.00			B=0.60 H=0.80 L=6.70			B=0.60 H=0.80 L=11.45		
Mu=-405.39		Mu=-354.65	Mu=-179.71		Mu=-52.87	Mu=-66.43		Mu=-36.80
As=13217.51		As=12168.05	As=7417.91		As=1938.59	As=2462.07		As=1776.75
Mu=298.27	Mu=81.08	Mu=355.28	Mu=59.90	Mu=35.94	Mu=83.74	Mu=34.04	Mu=41.64	Mu=13.29
As=11131.45	As=3231.74	As=12196.22	As=2208.64	As=1734.21	As=3148.12	As=1640.11	As=1513.71	As=1485.00
Vu=-145.39		Vu=111.21	Vu=-58.16		Vu=26.56	Vu=-32.66		Vu=23.07

V903/N 33.95

B=0.60 H=0.80 L=7.20		
Mu=-78.24		Mu=-151.07
As=2927.88		As=6045.34
Mu=62.96	Mu=44.72	Mu=66.07
As=2326.98	As=2005.80	As=2448.02
Vu=-38.25		Vu=46.75

V904/N 33.95

B=0.60 H=0.80 L=13.20			B=0.60 H=0.80 L=13.20			B=0.60 H=1.20 L=4.50		
Mu=-0.00		Mu=-193.05	Mu=-196.04		Mu=-180.76	Mu=-432.85		Mu=-436.43
As=1485.00		As=8094.13	As=8249.34		As=7470.21	As=11711.35		As=11829.18
Mu=78.66	Mu=39.30	Mu=38.61	Mu=65.35	Mu=66.18	Mu=60.25	Mu=436.46	Mu=87.29	Mu=379.81
As=2974.15	As=1784.49	As=1900.94	As=2419.81	As=2579.10	As=2222.16	As=11830.16	As=2891.35	As=10021.59
Vu=-25.68		Vu=59.18	Vu=-56.73		Vu=56.74	Vu=-174.31		Vu=213.35

B=0.60 H=1.20 L=2.25			B=0.60 H=1.20 L=4.30			B=0.60 H=1.20 L=1.55		
Mu=-347.13		Mu=-69.43	Mu=-18.16		Mu=-26.96	Mu=-58.85		Mu=-28.04
As=9027.70		As=2277.00	As=2277.00		As=2277.00	As=2277.00		As=2277.00
Mu=299.56	Mu=86.26	Mu=69.43	Mu=10.43	Mu=5.39	Mu=21.95	Mu=45.71	Mu=12.78	Mu=15.44
As=7637.02	As=2754.94	As=2277.00	As=2277.00	As=2277.00	As=2277.00	As=2277.00	As=2277.00	As=2277.00
Vu=-284.84		Vu=-84.91	Vu=-17.96		Vu=19.10	Vu=-37.28		Vu=37.12

B=0.60 H=0.80 L=3.20			B=0.60 H=0.80 L=3.80		
Mu=-228.89		Mu=-197.69	Mu=-117.96		Mu=-1.43
As=9640.33		As=8335.58	As=4570.43		As=1485.00
Mu=178.36	Mu=45.78	Mu=218.10	Mu=23.59	Mu=0.00	Mu=0.00
As=7350.88	As=2112.94	As=9440.71	As=1485.00	As=1485.00	As=1485.00
Vu=-130.13		Vu=-112.85	Vu=-45.21		Vu=-25.48

V905/N 33.95

B=0.50 H=1.20 L=7.45			B=0.50 H=0.80 L=13.20			B=0.50 H=0.80 L=3.22		
Mu=-6.57		Mu=-360.33	Mu=-157.17		Mu=-138.70	Mu=-139.62		Mu=-27.92
As=1897.50		As=9747.04	As=6554.90		As=5641.19	As=5685.44		As=1344.90
Mu=0.00	Mu=0.00	Mu=72.07	Mu=52.39	Mu=46.22	Mu=46.23	Mu=46.54	Mu=27.92	Mu=27.92
As=1897.50	As=1897.50	As=2269.17	As=1936.18	As=1698.19	As=1698.70	As=1710.46	As=1344.90	As=1344.90
Vu=-18.48		Vu=-80.78	Vu=-41.49		Vu=44.50	Vu=-43.24		Vu=-16.13

B=0.50 H=0.80 L=0.95		
Mu=-139.62		Mu=-0.00
As=5685.44		As=1237.50
Mu=27.92	Mu=4.39	Mu=13.93
As=1344.90	As=1237.50	As=1237.50
Vu=-43.24		Vu=-16.13

V906/N 33.95

B=0.50 H=0.80 L=4.85			B=0.50 H=0.80 L=13.30			B=0.50 H=0.80 L=13.20		
Mu=-1.13		Mu=-86.25	Mu=-135.16		Mu=-116.31	Mu=-138.30		Mu=-131.19
As=1237.50		As=3298.30	As=5472.11		As=4600.67	As=5622.00		As=5284.63
Mu=1.78	Mu=4.05	Mu=17.25	Mu=45.05	Mu=37.76	Mu=39.79	Mu=46.10	Mu=40.39	Mu=43.73
As=1237.50	As=1237.50	As=1237.50	As=1653.52	As=1451.10	As=1453.29	As=1693.59	As=1544.68	As=1602.96
Vu=7.11		Vu=23.41	Vu=-38.20		Vu=37.67	Vu=-41.75		Vu=39.49

B=0.50 H=0.80 L=13.20			B=0.50 H=0.80 L=3.20			B=0.50 H=0.80 L=5.50		
Mu=-108.39		Mu=-79.13	Mu=-160.29		Mu=-131.17	Mu=-110.71		Mu=-0.83
As=4247.85		As=3003.43	As=6714.91		As=5283.69	As=4350.44		As=1237.50
Mu=36.13	Mu=32.92	Mu=33.42	Mu=101.15	Mu=32.06	Mu=143.90	Mu=22.14	Mu=0.00	Mu=0.94
As=1315.12	As=1617.57	As=1617.57	As=3931.61	As=1255.43	As=5892.94	As=1237.50	As=1237.50	As=1237.50
Vu=-38.30		Vu=28.46	Vu=-87.91		Vu=-77.22	Vu=-34.62		Vu=-8.40

V907/N 33.95

B=0.60 H=0.80 L=2.05			B=0.60 H=0.80 L=4.75			B=0.80 H=0.80 L=1.90		
Mu=-0.00		Mu=-84.87	Mu=-49.06		Mu=-39.41	Mu=-65.84		Mu=-134.67
As=1485.00		As=3193.64	As=1793.59		As=1906.50	As=2407.65		As=5138.57
Mu=1.36	Mu=0.00	Mu=16.97	Mu=24.55	Mu=10.63	Mu=53.17	Mu=62.73	Mu=33.54	Mu=130.44
As=1485.00	As=1485.00	As=1485.00	As=1485.00	As=1485.00	As=1950.05	As=2289.80	As=2566.78	As=4963.33
Vu=23.78		Vu=32.64	Vu=-40.50		Vu=-51.82	Vu=-111.61		Vu=112.18

B=0.80 H=0.80 L=5.37		
Mu=-296.62		Mu=-294.85
As=12853.78		As=12815.67
Mu=294.52	Mu=63.14	Mu=263.29
As=12796.99	As=3064.14	As=11098.57
Vu=-113.94		Vu=114.17

V908/N 33.95

B=0.60 H=0.80 L=3.40			B=0.60 H=0.80 L=1.40		
Mu=-156.66		Mu=-180.59	Mu=-57.65		Mu=-0.00
As=6305.53		As=7461.73	As=2121.78		As=1485.00
Mu=169.30	Mu=36.12	Mu=162.37	Mu=11.53	Mu=0.00	Mu=1.65
As=6907.28	As=1829.18	As=6574.99	As=1485.00	As=1485.00	As=1485.00
Vu=97.98		Vu=107.84	Vu=-27.70		Vu=-20.60

V909/N 33.95

B=0.50 H=0.80 L=2.05			B=0.50 H=0.80 L=2.50			B=0.50 H=0.80 L=1.25		
Mu=-0.00		Mu=-73.28	Mu=-80.63		Mu=-107.14	Mu=-53.61		Mu=-27.33
As=1237.50		As=2764.68	As=3065.16		As=4192.83	As=1983.58		As=1315.59
Mu=2.51	Mu=0.00	Mu=14.66	Mu=96.61	Mu=21.43	Mu=76.38	Mu=41.77	Mu=10.72	Mu=15.72
As=1237.50	As=1237.50	As=1237.50	As=3736.21	As=1237.50	As=2890.81	As=1528.33	As=1237.50	As=1237.50
Vu=20.74		Vu=28.89	Vu=78.16		Vu=84.84	Vu=-42.46		Vu=42.40

B=0.50 H=0.80 L=1.40			B=0.50 H=0.80 L=2.15		
Mu=-10.54		Mu=-52.70	Mu=-61.03		Mu=-0.00
As=1237.50		As=1948.21	As=2274.46		As=1237.50
Mu=32.54	Mu=10.54	Mu=17.57	Mu=12.21	Mu=0.00	Mu=1.84
As=1573.73	As=1237.50	As=1237.50	As=1237.50	As=1237.50	As=1237.50
Vu=44.88		Vu=49.97	Vu=-30.17		Vu=-22.93

V910/N 33.95

B=0.50 H=0.80 L=0.60			B=0.50 H=0.80 L=3.40			B=0.50 H=0.80 L=1.40		
Mu=-0.00		Mu=-7.07	Mu=-88.45		Mu=-85.03	Mu=-42.28		Mu=-0.00
As=1237.50		As=1237.50	As=3390.39		As=3247.43	As=1547.72		As=1237.50
Mu=0.84	Mu=0.00	Mu=1.41	Mu=83.77	Mu=17.69	Mu=86.28	Mu=8.46	Mu=0.00	Mu=1.26
As=1237.50	As=1237.50	As=1237.50	As=3195.05	As=1237.50	As=3299.55	As=1237.50	As=1237.50	As=1237.50
Vu=8.88		Vu=10.89	Vu=-55.93		Vu=53.54	Vu=-21.33		Vu=-14.32

V911/N 33.95

B=0.50 H=0.80 L=2.48			B=0.50 H=0.80 L=5.60			B=0.50 H=0.80 L=3.95		
Mu=-10.25		Mu=-17.80	Mu=-14.14		Mu=-36.65	Mu=-55.11		Mu=-2.69
As=1237.50		As=1237.50	As=1237.50		As=1334.68	As=2042.03		As=1237.50
Mu=3.56	Mu=9.51	Mu=13.61	Mu=25.80	Mu=17.53	Mu=12.22	Mu=25.01	Mu=17.70	Mu=6.61
As=1237.50	As=1237.50	As=1237.50	As=1256.48	As=1237.50	As=1237.50	As=1237.50	As=1237.50	As=1237.50
Vu=-7.14		Vu=3.72	Vu=-12.43		Vu=18.77	Vu=-14.23		Vu=-8.93

V912/N 33.95

B=0.50 H=0.80 L=2.50			B=0.50 H=0.80 L=1.25			B=0.50 H=0.80 L=1.40		
Mu=-63.08		Mu=-90.10	Mu=-60.57		Mu=-39.46	Mu=-16.26		Mu=-64.19
As=2355.61		As=3459.78	As=2256.29		As=1487.44	As=1237.50		As=2399.69
Mu=90.29	Mu=18.06	Mu=61.19	Mu=46.73	Mu=12.11	Mu=29.18	Mu=44.15	Mu=12.84	Mu=21.40
As=3467.79	As=1237.50	As=2280.78	As=1717.75	As=1237.50	As=1406.97	As=1618.99	As=1237.50	As=1237.50
Vu=69.58		Vu=74.73	Vu=-54.31		Vu=52.72	Vu=56.90		Vu=60.88

B=0.50 H=0.80 L=2.15		
Mu=-122.28		Mu=-24.46
As=4871.65		As=1237.50
Mu=40.76	Mu=24.46	Mu=24.46
As=1489.98	As=1237.50	As=1237.50
Vu=-76.00		Vu=-45.67

V913/N 33.95

B=0.50 H=0.80 L=5.30			B=0.50 H=0.80 L=3.65			B=0.50 H=0.55 L=1.95		
Mu=-8.32		Mu=-41.62	Mu=-49.37		Mu=-24.42	Mu=-26.88		Mu=-0.00
As=1237.50		As=1522.63	As=1819.33		As=1237.50	As=1501.83		As=825.00
Mu=8.32	Mu=8.32	Mu=13.87	Mu=16.46	Mu=9.87	Mu=9.87	Mu=5.38	Mu=0.00	Mu=0.00
As=1237.50	As=1237.50	As=1237.50	As=1237.50	As=1237.50	As=1237.50	As=825.00	As=825.00	As=825.00
Vu=-3.80		Vu=16.02	Vu=-12.42		Vu=2.83	Vu=-13.93		Vu=-12.30

V914/N 33.95

B=0.50 H=0.80 L=0.60			B=0.50 H=0.80 L=3.40			B=0.50 H=0.80 L=1.40		
Mu=-0.00		Mu=-4.90	Mu=-86.81		Mu=-87.29	Mu=-43.58		Mu=-0.00
As=1237.50		As=1237.50	As=3321.70		As=3341.78	As=1597.24		As=1237.50
Mu=0.80	Mu=0.00	Mu=0.98	Mu=88.05	Mu=17.61	Mu=85.81	Mu=8.72	Mu=0.00	Mu=1.22
As=1237.50	As=1237.50	As=1237.50	As=3373.61	As=1237.50	As=3279.94	As=1237.50	As=1237.50	As=1237.50
Vu=6.23		Vu=8.23	Vu=-55.18		Vu=56.05	Vu=-21.85		Vu=-14.83

V915/N 33.95

B=0.50 H=0.80 L=2.50			B=0.50 H=0.80 L=1.25			B=0.50 H=0.80 L=1.40		
Mu=-73.09		Mu=-82.63	Mu=-46.27		Mu=-38.70	Mu=-14.25		Mu=-71.27
As=2756.98		As=3147.78	As=1700.11		As=1431.42	As=1237.50		As=2683.35
Mu=78.56	Mu=16.53	Mu=72.46	Mu=48.32	Mu=9.66	Mu=15.45	Mu=46.22	Mu=14.25	Mu=23.76
As=2980.03	As=1237.50	As=2731.46	As=1778.86	As=1237.50	As=1237.50	As=1698.19	As=1237.50	As=1237.50
Vu=61.67		Vu=67.81	Vu=50.53		Vu=54.94	Vu=62.86		Vu=67.95

B=0.50 H=0.80 L=2.15		
Mu=-86.97		Mu=-0.00
As=3328.39		As=1237.50
Mu=17.39	Mu=0.00	Mu=2.27
As=1237.50	As=1237.50	As=1237.50
Vu=-41.61		Vu=-34.38

V916/N 33.95

B=0.50 H=0.80 L=0.60			B=0.50 H=0.80 L=3.40			B=0.50 H=0.80 L=1.40		
Mu=-0.00		Mu=-7.33	Mu=-97.74		Mu=-93.35	Mu=-42.38		Mu=-0.00
As=1237.50		As=1237.50	As=3784.64		As=3597.24	As=1551.53		As=1237.50
Mu=0.89	Mu=0.04	Mu=1.47	Mu=93.83	Mu=19.55	Mu=97.45	Mu=8.48	Mu=0.00	Mu=1.24
As=1237.50	As=1237.50	As=1237.50	As=3617.64	As=1237.50	As=3772.20	As=1237.50	As=1237.50	As=1237.50
Vu=9.21		Vu=11.21	Vu=-61.94		Vu=58.88	Vu=-21.37		Vu=-14.31

V917/N 33.95

B=0.50 H=0.80 L=2.50			B=0.50 H=0.80 L=1.25			B=0.50 H=0.80 L=1.40		
Mu=-91.68		Mu=-122.31	Mu=-84.31		Mu=-53.61	Mu=-59.09		Mu=-126.19
As=3526.48		As=4873.02	As=3217.48		As=1983.58	As=2197.98		As=5051.58
Mu=120.94	Mu=24.46	Mu=88.32	Mu=66.59	Mu=16.86	Mu=51.45	Mu=72.08	Mu=25.24	Mu=96.64
As=4810.44	As=1237.50	As=3384.94	As=2495.37	As=1237.50	As=1899.73	As=2716.08	As=1276.43	As=3737.50
Vu=93.96		Vu=100.63	Vu=-83.88		Vu=-79.48	Vu=107.82		Vu=112.91

V918/N 33.95

B=0.60 H=0.80 L=6.56			B=0.60 H=0.80 L=3.40			B=0.60 H=0.80 L=1.40		
Mu=-218.52		Mu=-235.21	Mu=-171.29		Mu=-182.18	Mu=-58.94		Mu=-0.00
As=9464.25		As=9732.84	As=7003.80		As=7541.19	As=2171.47		As=1485.00
Mu=226.90	Mu=47.04	Mu=194.92	Mu=170.36	Mu=36.44	Mu=177.87	Mu=11.79	Mu=0.00	Mu=1.30
As=9640.33	As=2262.49	As=8314.38	As=6958.63	As=1531.57	As=7326.61	As=1485.00	As=1485.00	As=1485.00
Vu=-77.34		Vu=81.75	Vu=-107.57		Vu=108.49	Vu=-28.05		Vu=-20.94

V919/N 33.95

B=0.40 H=0.80 L=1.70			B=0.40 H=0.80 L=5.95		
Mu=-21.38		Mu=-51.48	Mu=-159.65		Mu=-117.50
As=1028.62		As=1924.84	As=6588.12		As=4831.07
Mu=26.36	Mu=10.30	Mu=38.60	Mu=139.58	Mu=31.93	Mu=103.93
As=1275.32	As=990.00	As=1420.94	As=6187.62	As=1615.29	As=4179.81
Vu=33.55		Vu=35.63	Vu=-63.89		Vu=38.40

V920/N 33.95

B=0.50 H=0.80 L=4.80			B=0.50 H=0.80 L=1.47			B=0.50 H=0.80 L=2.10		
Mu=-6.26		Mu=-18.41	Mu=-9.13		Mu=-45.63	Mu=-75.92		Mu=-1.34
As=1237.50		As=1237.50	As=1237.50		As=1675.58	As=2872.04		As=1237.50
Mu=3.68	Mu=3.77	Mu=6.14	Mu=20.71	Mu=9.13	Mu=15.21	Mu=15.18	Mu=0.00	Mu=2.99
As=1237.50	As=1237.50	As=1237.50	As=1237.50	As=1237.50	As=1237.50	As=1237.50	As=1237.50	As=1237.50
Vu=-7.24		Vu=18.80	Vu=34.35		Vu=39.45	Vu=-29.69		Vu=-21.03

V921/N 33.95

B=0.50 H=0.80 L=4.90			B=0.50 H=0.80 L=1.90			B=0.50 H=0.80 L=2.10		
Mu=-12.47		Mu=-6.90	Mu=-6.73		Mu=-33.64	Mu=-57.75		Mu=-0.11
As=1237.50		As=1237.50	As=1237.50		As=1628.55	As=2145.33		As=1237.50
Mu=4.42	Mu=4.00	Mu=2.49	Mu=16.20	Mu=6.73	Mu=11.21	Mu=11.55	Mu=0.00	Mu=2.83
As=1237.50	As=1237.50	As=1237.50	As=1237.50	As=1237.50	As=1237.50	As=1237.50	As=1237.50	As=1237.50
Vu=-11.11		Vu=8.68	Vu=24.74		Vu=29.85	Vu=-24.84		Vu=-16.53

V1000/NE+38.15m

B=0.50 H=0.80 L=4.90			B=0.50 H=0.80 L=11.10			B=0.50 H=0.80 L=11.10		
Mu=-2.12		Mu=-134.28	Mu=-138.18		Mu=-107.17	Mu=-127.26		Mu=-110.19
As=1237.50		As=5084.04	As=5243.79		As=3994.82	As=4798.47		As=4114.38
Mu=1.59	Mu=0.00	Mu=26.86	Mu=69.09	Mu=50.92	Mu=53.58	Mu=63.63	Mu=53.27	Mu=55.10
As=1237.50	As=1237.50	As=1279.26	As=2522.60	As=1841.73	As=1940.77	As=2316.60	As=1929.05	As=1997.01
Vu=9.20		Vu=43.24	Vu=-46.89		Vu=45.22	Vu=-47.15		Vu=46.01

B=0.50 H=0.80 L=11.10			B=0.50 H=0.80 L=11.10			B=0.50 H=0.80 L=5.20		
Mu=-149.28		Mu=-130.40	Mu=-149.11		Mu=-150.94	Mu=-154.97		Mu=-0.00
As=5702.89		As=4925.89	As=5695.81		As=5772.13	As=5940.85		As=1237.50
Mu=74.64	Mu=79.25	Mu=65.20	Mu=74.56	Mu=71.54	Mu=75.47	Mu=30.99	Mu=0.00	Mu=4.18
As=2733.25	As=2909.21	As=2375.71	As=2730.02	As=2615.43	As=2764.86	As=1479.39	As=1237.50	As=1237.50
Vu=-55.49		Vu=55.43	Vu=-54.42		Vu=56.64	Vu=-45.95		Vu=-12.94

V1001/NE+38.15m

B=0.50 H=0.80 L=3.20			B=0.50 H=0.80 L=11.10			B=0.50 H=0.80 L=11.10		
Mu=-8.64		Mu=-97.61	Mu=-153.68		Mu=-108.00	Mu=-127.54		Mu=-111.79
As=1237.50		As=3619.14	As=5886.75		As=4027.63	As=4809.82		As=4177.90
Mu=3.81	Mu=2.69	Mu=19.52	Mu=76.84	Mu=45.81	Mu=54.00	Mu=63.77	Mu=48.16	Mu=55.90
As=1237.50	As=1237.50	As=1237.50	As=2817.11	As=1652.59	As=1956.21	As=2321.87	As=1739.45	As=2026.84
Vu=35.18		Vu=45.83	Vu=-70.60		Vu=46.11	Vu=-49.88		Vu=52.32

B=0.50 H=0.80 L=11.10			B=0.50 H=0.80 L=11.10			B=0.50 H=0.80 L=3.95		
Mu=-144.16		Mu=-123.86	Mu=-162.53		Mu=-125.69	Mu=-134.76		Mu=-9.07
As=5490.30		As=4661.07	As=6259.85		As=4734.95	As=5103.65		As=1237.50
Mu=72.08	Mu=71.89	Mu=71.89	Mu=81.26	Mu=68.80	Mu=68.80	Mu=26.95	Mu=11.81	Mu=1.37
As=2635.93	As=2628.71	As=2628.71	As=2986.40	As=2511.63	As=2511.63	As=1283.89	As=1237.50	As=1237.50
Vu=-57.23		Vu=55.43	Vu=-60.82		Vu=63.28	Vu=-50.72		Vu=-39.68

V1002/NE+38.15m

B=0.60 H=1.20 L=8.54			B=0.60 H=0.80 L=1.56			B=0.60 H=0.80 L=4.40		
Mu=-2.59		Mu=-471.27	Mu=-105.09		Mu=-26.27	Mu=-47.24		Mu=-188.94
As=2277.00		As=11871.02	As=3875.13		As=1485.00	As=1698.46		As=7254.16
Mu=3.83	Mu=0.00	Mu=94.25	Mu=52.54	Mu=26.27	Mu=26.27	Mu=47.24	Mu=47.24	Mu=115.53
As=2277.00	As=2277.00	As=2937.59	As=1893.62	As=1485.00	As=1485.00	As=2568.25	As=2568.25	As=4280.42
Vu=18.84		Vu=106.02	Vu=-70.79		Vu=-68.44	Vu=-11.10		Vu=232.22

B=0.60 H=0.80 L=7.05			B=0.60 H=0.80 L=6.75			B=0.60 H=0.80 L=0.25		
Mu=-246.33		Mu=-184.21	Mu=-223.75		Mu=-112.28	Mu=-15.32		Mu=-0.00
As=9755.14		As=7055.46	As=8750.32		As=4153.82	As=1485.00		As=1485.00
Mu=150.66	Mu=61.58	Mu=169.18	Mu=111.88	Mu=55.94	Mu=149.04	Mu=6.55	Mu=16.17	Mu=26.94
As=5675.15	As=2347.46	As=6430.93	As=4138.07	As=2302.43	As=5609.74	As=1485.00	As=1485.00	As=1485.00
Vu=-100.07		Vu=69.79	Vu=-78.04		Vu=51.52	Vu=-25.40		Vu=-23.94

V1003/NE+38.15m

B=0.60 H=0.80 L=2.10			B=0.60 H=0.80 L=13.20			B=0.60 H=0.80 L=13.20		
Mu=-5.56		Mu=-44.23	Mu=-236.43		Mu=-194.41	Mu=-220.97		Mu=-199.79
As=1485.00		As=1588.41	As=9311.06		As=7485.28	As=8628.55		As=7714.00
Mu=0.00	Mu=0.00	Mu=8.85	Mu=118.21	Mu=94.08	Mu=97.21	Mu=110.49	Mu=83.64	Mu=99.89
As=1485.00	As=1485.00	As=1485.00	As=4385.32	As=3452.42	As=3571.68	As=4084.06	As=3080.58	As=3674.95
Vu=9.82		Vu=23.97	Vu=-73.64		Vu=69.65	Vu=-66.16		Vu=70.56

B=0.60 H=0.80 L=4.48			B=0.60 H=0.80 L=2.25			B=0.60 H=0.80 L=4.30		
Mu=-230.26		Mu=-226.12	Mu=-174.06		Mu=-43.51	Mu=-11.05		Mu=-6.60
As=9037.11		As=8854.46	As=6632.58		As=1562.27	As=1485.00		As=1485.00
Mu=229.86	Mu=57.56	Mu=183.07	Mu=139.09	Mu=43.51	Mu=43.51	Mu=5.53	Mu=2.76	Mu=6.69
As=9019.42	As=3545.43	As=7007.73	As=5210.35	As=1562.27	As=1562.27	As=1485.00	As=1485.00	As=1485.00
Vu=-93.32		Vu=126.28	Vu=-177.56		Vu=39.99	Vu=-16.62		Vu=8.26

B=0.60 H=0.80 L=1.35			B=0.60 H=0.80 L=3.20			B=0.60 H=0.80 L=3.80		
Mu=-28.46		Mu=-13.70	Mu=-203.88		Mu=-142.94	Mu=-136.16		Mu=-9.92
As=1485.00		As=1485.00	As=7888.83		As=5364.41	As=5093.51		As=1485.00
Mu=25.95	Mu=10.31	Mu=7.11	Mu=156.99	Mu=50.97	Mu=155.13	Mu=27.23	Mu=0.00	Mu=0.00
As=1485.00	As=1485.00	As=1485.00	As=5931.81	As=1835.64	As=5856.22	As=1485.00	As=1485.00	As=1485.00
Vu=20.77		Vu=23.02	Vu=-116.22		Vu=-97.57	Vu=-52.28		Vu=-29.80

V1004/NE+38.15m

B=0.50 H=1.20 L=7.38			B=0.50 H=0.80 L=13.20			B=0.50 H=0.80 L=4.75		
Mu=-7.57		Mu=-419.80	Mu=-171.64		Mu=-124.29	Mu=-121.66		Mu=-2.17
As=1897.50		As=10652.22	As=6648.67		As=4678.41	As=4572.47		As=1237.50
Mu=0.00	Mu=0.00	Mu=83.96	Mu=85.82	Mu=49.83	Mu=62.15	Mu=24.33	Mu=8.03	Mu=10.89
As=1897.50	As=1897.50	As=1965.32	As=3161.55	As=1801.30	As=2260.79	As=1237.50	As=1237.50	As=1237.50
Vu=-18.28		Vu=-95.56	Vu=-50.04		Vu=46.58	Vu=-38.70		Vu=-9.58

V1005/NE+38.15m

B=0.50 H=0.80 L=4.85			B=0.50 H=0.80 L=13.20			B=0.50 H=0.80 L=13.20		
Mu=-0.94		Mu=-76.32	Mu=-136.32		Mu=-107.64	Mu=-142.97		Mu=-123.77
As=1237.50		As=2797.27	As=5167.50		As=4013.39	As=5441.09		As=4657.44
Mu=0.31	Mu=0.00	Mu=15.26	Mu=68.16	Mu=42.60	Mu=53.82	Mu=71.49	Mu=44.34	Mu=61.88
As=1237.50	As=1237.50	As=1237.50	As=2487.42	As=1540.55	As=1949.51	As=2613.34	As=1657.39	As=2251.02
Vu=4.59		Vu=28.42	Vu=-40.60		Vu=39.46	Vu=-44.27		Vu=42.11

B=0.50 H=0.80 L=13.20			B=0.50 H=0.80 L=3.20			B=0.50 H=0.80 L=5.52		
Mu=-113.91		Mu=-76.68	Mu=-148.41		Mu=-97.26	Mu=-129.67		Mu=-3.61
As=4262.25		As=2811.00	As=5666.67		As=3605.47	As=4896.22		As=1237.50
Mu=56.96	Mu=37.80	Mu=38.34	Mu=87.72	Mu=37.10	Mu=102.02	Mu=25.93	Mu=0.00	Mu=0.00
As=2066.41	As=1358.13	As=1377.91	As=3234.88	As=1332.61	As=3791.91	As=1237.50	As=1237.50	As=1237.50
Vu=-41.38		Vu=32.51	Vu=-80.38		Vu=-68.63	Vu=-41.10		Vu=-9.17

V1006/NE+38.15m

B=0.60 H=0.80 L=2.05			B=0.60 H=0.80 L=4.75			B=0.80 H=0.80 L=1.90		
Mu=-0.00		Mu=-77.34	Mu=-51.62		Mu=-27.66	Mu=-55.76		Mu=-131.37
As=1485.00		As=2816.95	As=1859.55		As=1485.00	As=2000.47		As=4829.89
Mu=1.69	Mu=0.00	Mu=15.47	Mu=25.81	Mu=12.90	Mu=27.09	Mu=61.60	Mu=32.84	Mu=111.13
As=1485.00	As=1485.00	As=1485.00	As=1485.00	As=1485.00	As=1485.00	As=2214.03	As=2145.84	As=4058.33
Vu=26.24		Vu=35.86	Vu=-41.22		Vu=-38.44	Vu=126.11		Vu=131.69

B=0.80 H=0.80 L=5.17		
Mu=-350.03		Mu=-228.04
As=13991.89		As=8676.33
Mu=308.41	Mu=93.91	Mu=179.89
As=12111.29	As=5562.67	As=6725.42
Vu=-144.93		Vu=130.43

V1007/NE+38.15m

B=0.60 H=0.80 L=3.40			B=0.60 H=0.80 L=1.40		
Mu=-95.31		Mu=-86.64	Mu=-59.83		Mu=-6.84
As=3499.09		As=3168.58	As=2162.82		As=1485.00
Mu=97.21	Mu=24.30	Mu=72.70	Mu=11.97	Mu=0.00	Mu=0.00
As=3571.88	As=1485.00	As=2642.62	As=1485.00	As=1485.00	As=1485.00
Vu=-62.78		Vu=69.84	Vu=-30.19		Vu=-21.82

V1008/NE+38.15m

B=0.60 H=0.80 L=2.05			B=0.60 H=0.80 L=2.50			B=0.60 H=0.80 L=1.25		
Mu=-0.00		Mu=-61.90	Mu=-71.27		Mu=-78.20	Mu=-55.66		Mu=-19.31
As=1485.00		As=2239.62	As=2589.04		As=2849.34	As=2008.52		As=1485.00
Mu=2.63	Mu=0.00	Mu=12.38	Mu=103.63	Mu=25.91	Mu=43.60	Mu=43.32	Mu=14.41	Mu=13.91
As=1485.00	As=1485.00	As=1485.00	As=3818.78	As=1554.07	As=1565.37	As=1555.14	As=1485.00	As=1485.00
Vu=20.55		Vu=30.17	Vu=83.84		Vu=90.71	Vu=41.45		Vu=45.41

B=0.60 H=0.80 L=1.40			B=0.60 H=0.80 L=2.15		
Mu=-13.45		Mu=-53.82	Mu=-152.12		Mu=-19.70
As=1485.00		As=1940.61	As=5734.20		As=1538.63
Mu=39.09	Mu=13.45	Mu=26.91	Mu=30.42	Mu=0.00	Mu=0.00
As=1867.30	As=1485.00	As=1485.00	As=1485.00	As=1485.00	As=1485.00
Vu=58.16		Vu=63.05	Vu=-71.34		Vu=-64.23

V1009/NE+38.15m

B=0.50 H=0.80 L=0.60			B=0.50 H=0.80 L=3.40			B=0.50 H=0.80 L=1.40		
Mu=-0.46		Mu=-25.23	Mu=-63.18		Mu=-38.98	Mu=-47.76		Mu=-4.83
As=1237.50		As=1237.50	As=2299.68		As=1401.36	As=1724.65		As=1237.50
Mu=5.09	Mu=0.00	Mu=5.05	Mu=49.34	Mu=15.80	Mu=37.71	Mu=9.55	Mu=0.00	Mu=0.00
As=1237.50	As=1237.50	As=1237.50	As=1783.14	As=1237.50	As=1355.77	As=1237.50	As=1237.50	As=1237.50
Vu=42.52		Vu=44.80	Vu=-39.87		Vu=35.07	Vu=-24.97		Vu=-17.07

V1010/NE+38.15m

B=0.60 H=0.80 L=2.50			B=0.60 H=0.80 L=1.25			B=0.60 H=0.80 L=1.40		
Mu=-61.14		Mu=-74.81	Mu=-67.57		Mu=-24.07	Mu=-13.82		Mu=-55.30
As=2211.41		As=2721.81	As=2450.72		As=1485.00	As=1485.00		As=1995.22
Mu=107.79	Mu=26.95	Mu=39.80	Mu=47.26	Mu=16.89	Mu=16.89	Mu=46.92	Mu=13.82	Mu=27.65
As=3979.56	As=1740.74	As=1901.77	As=1699.38	As=1485.00	As=1485.00	As=1686.91	As=1485.00	As=1485.00
Vu=84.21		Vu=91.08	Vu=-57.88		Vu=-53.34	Vu=64.18		Vu=69.19

B=0.60 H=0.80 L=2.15		
Mu=-152.16		Mu=-5.63
As=5735.82		As=1485.00
Mu=30.43	Mu=0.00	Mu=0.00
As=1485.00	As=1485.00	As=1485.00
Vu=-78.24		Vu=-72.15

V1011/NE+38.15m

B=0.50 H=0.80 L=0.60			B=0.50 H=0.80 L=3.40			B=0.50 H=0.80 L=1.40		
Mu=-0.00		Mu=-32.92	Mu=-68.54		Mu=-46.22	Mu=-52.37		Mu=-5.46
As=1237.50		As=1572.83	As=2501.79		As=1667.73	As=1895.58		As=1237.50
Mu=4.73	Mu=0.00	Mu=6.58	Mu=58.25	Mu=17.14	Mu=40.23	Mu=10.47	Mu=0.00	Mu=0.00
As=1237.50	As=1237.50	As=1237.50	As=2114.81	As=1237.50	As=1447.21	As=1237.50	As=1237.50	As=1237.50
Vu=55.05		Vu=57.47	Vu=-42.20		Vu=41.19	Vu=-26.93		Vu=-19.03

V1012/NE+38.15m

B=0.60 H=0.80 L=2.50			B=0.60 H=0.80 L=1.25			B=0.60 H=0.80 L=1.40		
Mu=-82.32		Mu=-69.57	Mu=-49.86		Mu=-31.23	Mu=-19.35		Mu=-77.39
As=3004.87		As=2525.43	As=1794.82		As=1487.00	As=1485.00		As=2818.83
Mu=97.81	Mu=24.45	Mu=53.68	Mu=58.55	Mu=16.53	Mu=15.61	Mu=59.65	Mu=19.35	Mu=38.69
As=3594.89	As=1552.14	As=1935.45	As=2115.40	As=1485.00	As=1485.00	As=2156.14	As=1485.00	As=1848.12
Vu=76.90		Vu=83.78	Vu=63.03		Vu=67.57	Vu=85.23		Vu=90.66

B=0.60 H=0.80 L=2.15		
Mu=-209.90		Mu=-26.76
As=8147.69		As=1598.65
Mu=41.98	Mu=0.00	Mu=0.00
As=1506.19	As=1485.00	As=1485.00
Vu=-97.77		Vu=-90.67

V1013/NE+38.15m

B=0.50 H=0.80 L=0.60			B=0.50 H=0.80 L=3.40			B=0.50 H=0.80 L=1.40		
Mu=-1.15		Mu=-31.54	Mu=-72.08		Mu=-50.08	Mu=-53.40		Mu=-5.45
As=1237.50		As=1505.87	As=2635.93		As=1810.56	As=1933.88		As=1237.50
Mu=6.15	Mu=0.00	Mu=6.31	Mu=63.35	Mu=18.02	Mu=44.22	Mu=10.68	Mu=0.00	Mu=0.00
As=1237.50	As=1237.50	As=1237.50	As=2306.07	As=1237.50	As=1593.95	As=1237.50	As=1237.50	As=1237.50
Vu=50.88		Vu=52.92	Vu=-44.96		Vu=44.22	Vu=-27.43		Vu=-19.53

V1014/NE+38.15m

B=0.50 H=0.80 L=2.50			B=0.50 H=0.80 L=1.25			B=0.50 H=0.80 L=1.40		
Mu=-97.52		Mu=-87.11	Mu=-87.20		Mu=-34.13	Mu=-46.23		Mu=-85.03
As=3615.63		As=3211.32	As=3214.79		As=1631.62	As=1668.10		As=3131.11
Mu=130.43	Mu=32.61	Mu=62.36	Mu=68.22	Mu=21.80	Mu=27.80	Mu=66.97	Mu=21.26	Mu=52.44
As=4927.11	As=1624.18	As=2268.86	As=2489.69	As=1363.99	As=1324.84	As=2442.47	As=1237.50	As=1898.18
Vu=101.21		Vu=107.60	Vu=-84.43		Vu=-80.21	Vu=99.25		Vu=103.80

V1015/NE+38.15m

B=0.60 H=0.80 L=6.28			B=0.60 H=0.80 L=3.40			B=0.60 H=0.80 L=1.40		
Mu=-229.44		Mu=-164.66	Mu=-105.31		Mu=-97.09	Mu=-65.06		Mu=-8.03
As=9000.86		As=6245.10	As=3883.63		As=3567.27	As=2357.14		As=1485.00
Mu=239.46	Mu=59.87	Mu=132.90	Mu=112.56	Mu=28.14	Mu=81.41	Mu=13.01	Mu=0.00	Mu=0.00
As=9446.38	As=3200.86	As=4963.91	As=4164.71	As=1528.97	As=2970.47	As=1485.00	As=1485.00	As=1485.00
Vu=-87.46		Vu=77.04	Vu=69.34		Vu=78.95	Vu=-32.14		Vu=-24.41

V1016/NE+38.15m

B=0.40 H=0.80 L=1.70			B=0.40 H=0.80 L=5.95		
Mu=-13.12		Mu=-52.48	Mu=-126.41		Mu=-85.02
As=990.00		As=1912.63	As=4855.07		As=3167.57
Mu=19.78	Mu=13.12	Mu=30.78	Mu=97.17	Mu=37.72	Mu=65.56
As=990.00	As=990.00	As=1106.28	As=3651.62	As=1669.04	As=2410.15
Vu=37.56		Vu=39.29	Vu=-54.77		Vu=40.60

V1017/NE+38.15m

B=0.50 H=0.80 L=4.90			B=0.50 H=0.80 L=1.90			B=0.50 H=0.80 L=2.10		
Mu=-7.44		Mu=-9.81	Mu=-5.67		Mu=-22.69	Mu=-79.60		Mu=-9.58
As=1237.50		As=1237.50	As=1237.50		As=1237.50	As=2922.60		As=1237.50
Mu=3.72	Mu=3.72	Mu=4.91	Mu=14.50	Mu=5.67	Mu=11.35	Mu=15.92	Mu=0.00	Mu=0.00
As=1237.50	As=1237.50	As=1237.50	As=1237.50	As=1237.50	As=1237.50	As=1237.50	As=1237.50	As=1237.50
Vu=-7.60		Vu=13.47	Vu=22.48		Vu=27.03	Vu=-31.57		Vu=-23.85

V1018/NE+38.15m

B=0.50 H=0.80 L=4.90			B=0.50 H=0.80 L=1.90			B=0.50 H=0.80 L=2.10		
Mu=-11.77		Mu=-4.10	Mu=-5.94		Mu=-23.77	Mu=-56.75		Mu=-5.29
As=1237.50		As=1237.50	As=1237.50		As=1237.50	As=2058.75		As=1237.50
Mu=5.89	Mu=3.47	Mu=2.94	Mu=15.01	Mu=5.94	Mu=11.89	Mu=11.35	Mu=0.00	Mu=0.00
As=1237.50	As=1237.50	As=1237.50	As=1237.50	As=1237.50	As=1237.50	As=1237.50	As=1237.50	As=1237.50
Vu=-10.84		Vu=7.41	Vu=23.15		Vu=27.71	Vu=-24.80		Vu=-17.38

V1032/NE+38.15m

B=0.40 H=0.80 L=5.70		
Mu=-10.06		Mu=-6.99
As=990.00		As=990.00
Mu=6.99	Mu=27.98	Mu=7.68
As=990.00	As=1256.52	As=990.00
Vu=-30.81		Vu=30.63

V1033/NE+38.15m

B=0.40 H=0.80 L=4.70		
Mu=-92.22		Mu=-6.27
As=3453.34		As=990.00
Mu=18.44	Mu=0.00	Mu=0.00
As=990.00	As=990.00	As=990.00
Vu=-29.42		Vu=-9.64

V1034/NE+38.15m

B=0.40 H=0.80 L=3.45		
Mu=-89.37		Mu=-16.92
As=3339.85		As=1022.21
Mu=17.87	Mu=1.27	Mu=3.25
As=990.00	As=990.00	As=990.00
Vu=-31.35		Vu=-18.68

V1035/NE+38.15m

B=0.40 H=0.80 L=5.96			B=0.40 H=0.80 L=1.52		
Mu=-40.83		Mu=-10.21	Mu=-5.39		Mu=-0.00
As=1476.87		As=990.00	As=990.00		As=990.00
Mu=20.42	Mu=17.19	Mu=10.21	Mu=1.08	Mu=1.08	Mu=0.66
As=990.00	As=990.00	As=990.00	As=990.00	As=990.00	As=990.00
Vu=-20.63		Vu=-7.11	Vu=-6.18		Vu=1.67

V1019/NE+38.15m

B=0.12 H=1.80 L=7.17		
Mu=-0.00		Mu=-0.00
As=696.96		As=696.96
Mu=0.69	Mu=8.98	Mu=0.69
As=696.96	As=696.96	As=696.96
Vu=4.62		Vu=-4.62

V1020/NE+38.15m

B=0.12 H=1.80 L=9.05		
Mu=-0.00		Mu=-0.00
As=696.96		As=696.96
Mu=0.88	Mu=14.08	Mu=0.88
As=696.96	As=696.96	As=696.96
Vu=5.84		Vu=-5.84

V1021/NE+38.15m

B=0.12 H=1.80 L=12.82		
Mu=-0.00		Mu=-0.00
As=696.96		As=696.96
Mu=1.24	Mu=27.74	Mu=1.24
As=696.96	As=696.96	As=696.96
Vu=8.27		Vu=-8.27

V1023/NE+38.15m

B=0.12 H=1.80 L=14.70		
Mu=-0.00		Mu=-0.00
As=696.96		As=696.96
Mu=1.42	Mu=36.27	Mu=1.42
As=696.96	As=744.01	As=696.96
Vu=9.48		Vu=-9.48

V1026/NE+38.15m

B=0.12 H=1.80 L=12.29		
Mu=-0.00		Mu=-0.00
As=696.96		As=696.96
Mu=1.19	Mu=25.54	Mu=1.19
As=696.96	As=696.96	As=696.96
Vu=7.93		Vu=-7.93

V1027/NE+38.15m

B=0.12 H=1.80 L=10.93		
Mu=-0.00		Mu=-0.00
As=696.96		As=696.96
Mu=1.06	Mu=20.32	Mu=1.06
As=696.96	As=696.96	As=696.96
Vu=7.05		Vu=-7.05

V1028/NE+38.15m

B=0.12 H=1.80 L=9.57		
Mu=-0.00		Mu=-0.00
As=696.96		As=696.96
Mu=0.93	Mu=15.69	Mu=0.93
As=696.96	As=696.96	As=696.96
Vu=6.17		Vu=-6.17

V1029/NE+38.15m

B=0.12 H=1.80 L=8.21		
Mu=-0.00		Mu=-0.00
As=696.96		As=696.96
Mu=0.79	Mu=11.66	Mu=0.79
As=696.96	As=696.96	As=696.96
Vu=5.30		Vu=-5.30

V1030/NE+38.15m

B=0.12 H=1.80 L=6.86		
Mu=-0.00		Mu=-0.00
As=696.96		As=696.96
Mu=0.66	Mu=8.25	Mu=0.66
As=696.96	As=696.96	As=696.96
Vu=4.42		Vu=-4.42

V1031/NE+38.15m

B=0.12 H=1.80 L=5.50		
Mu=-0.00		Mu=-0.00
As=696.96		As=696.96
Mu=0.53	Mu=5.41	Mu=0.53
As=696.96	As=696.96	As=696.96
Vu=3.55		Vu=-3.55

V1024/NE+38.15m

B=0.12 H=1.80 L=15.01		
Mu=-0.00		Mu=-0.00
As=696.96		As=696.96
Mu=1.45	Mu=37.78	Mu=1.45
As=696.96	As=775.89	As=696.96
Vu=9.68		Vu=-9.68

V1025/NE+38.15m

B=0.12 H=1.80 L=13.64		
Mu=-0.00 As=696.96		Mu=-0.00 As=696.96
Mu=1.32 As=696.96	Mu=31.32 As=696.96	Mu=1.32 As=696.96
Vu=8.80		Vu=-8.80

V1022/NE+38.15m

B=0.12 H=1.80 L=12.82		
Mu=-0.00 As=696.96		Mu=-0.00 As=696.96
Mu=1.24 As=696.96	Mu=27.74 As=696.96	Mu=1.24 As=696.96
Vu=8.27		Vu=-8.27

V1104/N 42.35

B=0.60 H=1.20 L=8.55			B=0.60 H=0.80 L=1.55			B=0.60 H=0.80 L=4.45		
Mu=-2.37		Mu=-527.76	Mu=-116.25		Mu=-23.25	Mu=-48.26		Mu=-241.31
As=2277.00		As=14781.85	As=4497.07		As=1485.00	As=1763.33		As=9946.42
Mu=4.60	Mu=0.00	Mu=105.55	Mu=38.75	Mu=23.25	Mu=38.78	Mu=48.26	Mu=48.26	Mu=130.89
As=2277.00	As=2277.00	As=2508.63	As=1873.64	As=1485.00	As=1875.13	As=3325.09	As=3325.09	As=5541.81
Vu=17.96		Vu=115.58	Vu=-77.54		Vu=-74.72	Vu=-6.13		Vu=254.64

B=0.60 H=0.80 L=7.00			B=0.60 H=0.80 L=6.72			B=0.60 H=0.80 L=11.60		
Mu=-288.12		Mu=-216.57	Mu=-190.49		Mu=-48.69	Mu=-71.74		Mu=-46.32
As=11585.43		As=9355.24	As=7962.34		As=1779.55	As=2670.33		As=1883.40
Mu=153.75	Mu=67.30	Mu=179.96	Mu=63.50	Mu=38.10	Mu=81.78	Mu=32.23	Mu=42.70	Mu=14.35
As=8763.10	As=2866.59	As=7430.35	As=2347.83	As=1841.21	As=3069.38	As=1550.81	As=1570.03	As=1485.00
Vu=-127.38		Vu=76.32	Vu=-62.98		Vu=29.19	Vu=-36.54		Vu=34.22

V1105/N 42.35

B=0.60 H=0.80 L=7.15		
Mu=-84.91		Mu=-158.20
As=3195.25		As=6377.83
Mu=60.96	Mu=49.74	Mu=68.26
As=2249.48	As=2211.29	As=2533.63
Vu=-41.92		Vu=51.01

V1106/N 42.35

B=0.60 H=0.80 L=13.20			B=0.60 H=0.80 L=13.20			B=0.60 H=1.00 L=4.50		
Mu=-212.71		Mu=-196.66	Mu=-247.23		Mu=-246.77	Mu=-256.47		Mu=-263.00
As=9141.61		As=8281.69	As=10153.71		As=10137.60	As=8177.08		As=8421.80
Mu=70.90	Mu=80.80	Mu=65.55	Mu=82.41	Mu=115.94	Mu=82.26	Mu=246.85	Mu=52.60	Mu=211.26
As=2637.39	As=3029.96	As=2427.87	As=3779.16	As=4483.80	As=3751.53	As=7821.01	As=2228.48	As=6546.45
Vu=-65.55		Vu=62.49	Vu=-74.57		Vu=77.91	Vu=-107.45		Vu=133.99

B=0.60 H=1.00 L=6.95			B=0.60 H=1.00 L=1.56			B=0.60 H=0.80 L=3.20		
Mu=-186.19		Mu=-37.24	Mu=-18.28		Mu=-23.50	Mu=-208.24		Mu=-173.01
As=5685.25		As=1881.00	As=1881.00		As=1881.00	As=8897.64		As=7087.64
Mu=147.12	Mu=37.24	Mu=37.24	Mu=24.49	Mu=8.71	Mu=7.83	Mu=156.40	Mu=41.65	Mu=189.93
As=4396.06	As=2637.64	As=2637.64	As=1881.00	As=1881.00	As=1881.00	As=6293.35	As=1878.81	As=7933.64
Vu=-186.95		Vu=6.68	Vu=20.15		Vu=22.86	Vu=-120.18		Vu=-97.43

B=0.60 H=0.80 L=3.85		
Mu=-128.74		Mu=-2.06
As=5038.96		As=1485.00
Mu=25.75	Mu=0.00	Mu=0.00
As=1485.00	As=1485.00	As=1485.00
Vu=-49.55		Vu=-27.47

V1107/N 42.35

B=0.50 H=1.20 L=7.35			B=0.50 H=0.80 L=13.20			B=0.50 H=0.80 L=3.12		
Mu=-6.62		Mu=-417.49	Mu=-160.10		Mu=-153.46	Mu=-149.01		Mu=-29.80
As=1897.50		As=11707.35	As=6705.12		As=6366.86	As=6144.41		As=1437.76
Mu=0.00	Mu=0.00	Mu=83.50	Mu=53.37	Mu=50.25	Mu=53.41	Mu=49.67	Mu=29.80	Mu=29.80
As=1897.50	As=1897.50	As=1981.04	As=1974.12	As=1853.30	As=1975.80	As=1830.90	As=1437.76	As=1437.76
Vu=-18.16		Vu=-94.70	Vu=-48.59		Vu=52.18	Vu=-47.03		Vu=-16.29

B=0.50 H=0.80 L=1.05		
Mu=-149.01		Mu=-0.00
As=6144.41		As=1237.50
Mu=29.80	Mu=0.00	Mu=16.69
As=1437.76	As=1237.50	As=1237.50
Vu=-47.03		Vu=-16.29

V1108/N 42.35

B=0.50 H=0.80 L=4.76			B=0.50 H=0.80 L=13.20			B=0.50 H=0.80 L=13.20		
Mu=-1.27		Mu=-96.76	Mu=-145.32		Mu=-123.83	Mu=-144.61		Mu=-135.43
As=1237.50		As=3742.63	As=5962.40		As=4942.74	As=5927.63		As=5484.95
Mu=1.48	Mu=10.61	Mu=19.35	Mu=48.44	Mu=43.40	Mu=43.77	Mu=48.20	Mu=43.90	Mu=45.14
As=1237.50	As=1237.50	As=1237.50	As=1783.48	As=1604.49	As=1604.49	As=1774.37	As=1609.45	As=1656.96
Vu=5.72		Vu=26.24	Vu=-43.15		Vu=41.46	Vu=-44.99		Vu=41.64

B=0.50 H=0.80 L=13.20			B=0.50 H=0.80 L=3.20			B=0.50 H=0.80 L=5.50		
Mu=-111.83		Mu=-85.91	Mu=-149.68		Mu=-118.20	Mu=-131.45		Mu=-0.95
As=4400.19		As=3284.11	As=6177.69		As=4685.98	As=5296.84		As=1237.50
Mu=37.28	Mu=37.35	Mu=28.64	Mu=88.82	Mu=29.94	Mu=128.02	Mu=26.29	Mu=0.00	Mu=1.01
As=1358.28	As=1379.14	As=1380.10	As=3405.93	As=1487.84	As=5136.48	As=1264.36	As=1237.50	As=1237.50
Vu=-40.34		Vu=32.31	Vu=-81.43		Vu=-69.49	Vu=-41.79		Vu=-8.99

V1109/N 42.35

B=0.50 H=0.80 L=2.05			B=0.50 H=0.80 L=4.75			B=0.50 H=0.80 L=1.90		
Mu=-0.00		Mu=-90.17	Mu=-41.79		Mu=-14.46	Mu=-8.03		Mu=-40.16
As=1237.50		As=3462.73	As=1529.09		As=1237.50	As=1237.50		As=1467.23
Mu=1.81	Mu=0.00	Mu=18.03	Mu=13.93	Mu=9.83	Mu=9.83	Mu=22.29	Mu=8.03	Mu=13.39
As=1237.50	As=1237.50	As=1237.50	As=1237.50	As=1237.50	As=1237.50	As=1237.50	As=1237.50	As=1237.50
Vu=24.70		Vu=35.54	Vu=-34.01		Vu=-17.25	Vu=31.82		Vu=37.64

B=0.50 H=0.80 L=2.10		
Mu=-94.72		Mu=-0.00
As=3655.51		As=1237.50
Mu=18.94	Mu=0.00	Mu=2.77
As=1237.50	As=1237.50	As=1237.50
Vu=-45.85		Vu=-37.11

V1110/N 42.35

B=0.50 H=0.80 L=2.10			B=0.50 H=0.80 L=5.00			B=0.50 H=0.80 L=3.90		
Mu=-0.21		Mu=-21.81	Mu=-21.72		Mu=-106.09	Mu=-90.76		Mu=-24.62
As=1237.50		As=1237.50	As=1237.50		As=4146.75	As=3487.61		As=1466.60
Mu=0.48	Mu=6.04	Mu=7.14	Mu=21.22	Mu=21.22	Mu=35.36	Mu=30.25	Mu=18.15	Mu=18.15
As=1237.50	As=1237.50	As=1237.50	As=1237.50	As=1237.50	As=1286.32	As=1460.13	As=1237.50	As=1237.50
Vu=-5.98		Vu=11.81	Vu=13.14		Vu=30.72	Vu=-22.86		Vu=-8.24

B=0.50 H=0.55 L=1.60		
Mu=-26.88		Mu=-0.00
As=1501.83		As=825.00
Mu=5.38	Mu=0.00	Mu=0.00
As=825.00	As=825.00	As=825.00
Vu=-13.93		Vu=-12.30

V1111/N 42.35

B=0.50 H=0.80 L=2.05			B=0.50 H=0.80 L=2.50			B=0.50 H=0.80 L=1.25		
Mu=-0.00		Mu=-79.68	Mu=-66.61		Mu=-95.79	Mu=-48.01		Mu=-26.90
As=1237.50		As=3026.04	As=2496.17		As=3701.15	As=1766.93		As=1294.40
Mu=2.94	Mu=0.00	Mu=15.94	Mu=86.52	Mu=19.16	Mu=61.09	Mu=37.61	Mu=9.60	Mu=12.50
As=1237.50	As=1237.50	As=1237.50	As=3309.58	As=1237.50	As=2276.83	As=1370.85	As=1237.50	As=1237.50
Vu=21.63		Vu=32.47	Vu=69.09		Vu=76.76	Vu=-36.91		Vu=40.23

B=0.50 H=0.80 L=1.40			B=0.50 H=0.80 L=2.15		
Mu=-12.58		Mu=-62.88	Mu=-120.74		Mu=-0.00
As=1237.50		As=2347.67	As=4801.32		As=1237.50
Mu=34.56	Mu=12.58	Mu=20.96	Mu=24.15	Mu=0.00	Mu=2.56
As=1256.18	As=1237.50	As=1237.50	As=1237.50	As=1237.50	As=1237.50
Vu=51.29		Vu=57.11	Vu=-56.62		Vu=-47.88

V1112/N 42.35

B=0.50 H=0.80 L=2.48			B=0.50 H=0.80 L=5.60			B=0.50 H=0.80 L=3.95		
Mu=-11.12		Mu=-15.88	Mu=-12.99		Mu=-37.57	Mu=-66.64		Mu=-1.72
As=1237.50		As=1237.50	As=1237.50		As=1369.34	As=2497.37		As=1237.50
Mu=3.71	Mu=8.87	Mu=12.97	Mu=28.57	Mu=18.60	Mu=12.52	Mu=23.23	Mu=17.66	Mu=9.95
As=1237.50	As=1237.50	As=1237.50	As=1485.06	As=1237.50	As=1237.50	As=1237.50	As=1237.50	As=1237.50
Vu=-7.40		Vu=3.17	Vu=-13.51		Vu=19.22	Vu=-17.31		Vu=-12.01

V1113/N 42.35

B=0.50 H=0.80 L=2.50			B=0.50 H=0.80 L=1.25			B=0.50 H=0.80 L=1.40		
Mu=-80.21		Mu=-112.78	Mu=-68.38		Mu=-39.23	Mu=-16.80		Mu=-63.19
As=3047.85		As=4442.50	As=2567.04		As=1473.05	As=1237.50		As=2359.97
Mu=112.87	Mu=22.57	Mu=77.93	Mu=49.34	Mu=13.68	Mu=31.46	Mu=43.76	Mu=12.64	Mu=21.06
As=4446.52	As=1237.50	As=2954.20	As=1818.17	As=1237.50	As=1520.01	As=1604.11	As=1237.50	As=1237.50
Vu=87.38		Vu=93.14	Vu=-61.19		Vu=-57.39	Vu=55.93		Vu=60.35

B=0.50 H=0.80 L=2.15		
Mu=-114.68		Mu=-22.94
As=4527.45		As=1237.50
Mu=38.23	Mu=22.94	Mu=22.94
As=1394.11	As=1237.50	As=1237.50
Vu=-70.97		Vu=-41.39

V1114/N 42.35

B=0.50 H=0.80 L=2.50			B=0.50 H=0.80 L=1.25			B=0.50 H=0.80 L=1.40		
Mu=-91.32		Mu=-105.90	Mu=-49.15		Mu=-43.16	Mu=-17.09		Mu=-85.47
As=3511.26		As=4138.43	As=1810.84		As=1610.30	As=1237.50		As=3265.76
Mu=101.54	Mu=21.18	Mu=89.81	Mu=51.98	Mu=10.40	Mu=15.53	Mu=53.91	Mu=17.09	Mu=28.49
As=3948.50	As=1237.50	As=3447.57	As=1920.27	As=1237.50	As=1237.50	As=1995.26	As=1237.50	As=1372.85
Vu=79.14		Vu=86.81	Vu=55.13		Vu=60.19	Vu=74.67		Vu=80.49

B=0.50 H=0.80 L=2.15		
Mu=-129.69		Mu=-0.00
As=5214.36		As=1237.50
Mu=25.94	Mu=0.00	Mu=2.97
As=1247.04	As=1237.50	As=1237.50
Vu=-60.84		Vu=-52.11

V1115/N 42.35

B=0.50 H=0.80 L=5.30			B=0.50 H=0.80 L=3.65			B=0.50 H=0.55 L=1.60		
Mu=-9.59		Mu=-47.93	Mu=-56.31		Mu=-24.42	Mu=-26.88		Mu=-0.00
As=1237.50		As=1763.86	As=2088.92		As=1237.50	As=1501.83		As=825.00
Mu=9.59	Mu=9.59	Mu=15.98	Mu=18.77	Mu=11.26	Mu=11.26	Mu=5.38	Mu=0.00	Mu=0.00
As=1237.50	As=1237.50	As=1237.50	As=1237.50	As=1237.50	As=1237.50	As=825.00	As=825.00	As=825.00
Vu=-3.65		Vu=18.97	Vu=-15.42		Vu=1.63	Vu=-13.93		Vu=-12.30

V1116/N 42.35

B=0.50 H=0.80 L=2.50			B=0.50 H=0.80 L=1.25			B=0.50 H=0.80 L=1.40		
Mu=-119.95		Mu=-163.39	Mu=-78.29		Mu=-46.47	Mu=-26.76		Mu=-89.97
As=4765.36		As=6875.66	As=2968.96		As=1707.78	As=1287.50		As=3454.30
Mu=156.06	Mu=32.68	Mu=119.56	Mu=63.64	Mu=15.66	Mu=35.30	Mu=56.89	Mu=17.99	Mu=29.99
As=6498.39	As=1580.60	As=4747.64	As=2377.84	As=1237.50	As=1283.94	As=2111.62	As=1237.50	As=1447.08
Vu=123.94		Vu=131.61	Vu=-69.67		Vu=67.00	Vu=78.83		Vu=84.64

B=0.50 H=0.80 L=2.15		
Mu=-124.74		Mu=-0.53
As=4984.62		As=1237.50
Mu=24.95	Mu=0.00	Mu=2.76
As=1237.50	As=1237.50	As=1237.50
Vu=-58.77		Vu=-50.14

V1117/N 42.35

B=0.50 H=0.80 L=4.80			B=0.50 H=0.80 L=1.90			B=0.50 H=0.80 L=2.10		
Mu=-8.19		Mu=-9.33	Mu=-1.88		Mu=-9.42	Mu=-9.89		Mu=-0.00
As=1237.50		As=1237.50	As=1237.50		As=1237.50	As=1237.50		As=1237.50
Mu=2.73	Mu=3.11	Mu=3.11	Mu=5.99	Mu=1.88	Mu=3.14	Mu=1.98	Mu=0.00	Mu=0.00
As=1237.50	As=1237.50	As=1237.50	As=1237.50	As=1237.50	As=1237.50	As=1237.50	As=1237.50	As=1237.50
Vu=-7.87		Vu=9.95	Vu=4.94		Vu=11.11	Vu=-8.58		Vu=0.00

V1118/N 42.35

B=0.50 H=0.80 L=4.80			B=0.50 H=0.80 L=1.90			B=0.50 H=0.80 L=2.10		
Mu=-12.01		Mu=-6.26	Mu=-6.10		Mu=-30.50	Mu=-56.16		Mu=-0.40
As=1237.50		As=1237.50	As=1237.50		As=1472.36	As=2083.05		As=1237.50
Mu=4.00	Mu=3.27	Mu=2.40	Mu=13.73	Mu=6.10	Mu=10.17	Mu=11.23	Mu=0.00	Mu=2.45
As=1237.50	As=1237.50	As=1237.50	As=1237.50	As=1237.50	As=1237.50	As=1237.50	As=1237.50	As=1237.50
Vu=-11.01		Vu=8.05	Vu=21.45		Vu=27.28	Vu=-29.27		Vu=-20.67

V1100/NE+41.95m

B=0.50 H=0.40 L=3.05			B=0.50 H=0.40 L=5.45			B=0.50 H=0.40 L=5.45		
Mu=-0.49		Mu=-26.49	Mu=-23.20		Mu=-5.80	Mu=-9.01		Mu=-8.54
As=577.50		As=2133.40	As=1852.46		As=591.96	As=694.94		As=657.98
Mu=0.00	Mu=0.00	Mu=5.30	Mu=11.60	Mu=5.80	Mu=5.80	Mu=4.51	Mu=6.84	Mu=4.27
As=577.50	As=577.50	As=577.50	As=900.14	As=591.96	As=591.96	As=577.50	As=705.99	As=577.50
Vu=4.23		Vu=13.71	Vu=-11.69		Vu=6.10	Vu=-8.59		Vu=9.33

B=0.50 H=0.40 L=5.45			B=0.50 H=0.40 L=5.45			B=0.50 H=0.40 L=1.80		
Mu=-11.28		Mu=-9.26	Mu=-12.46		Mu=-4.70	Mu=-6.94		Mu=-1.09
As=874.65		As=714.64	As=968.84		As=577.50	As=710.15		As=577.50
Mu=5.64	Mu=5.03	Mu=4.63	Mu=6.23	Mu=7.82	Mu=3.12	Mu=1.39	Mu=0.00	Mu=0.00
As=577.50	As=577.50	As=577.50	As=636.46	As=741.35	As=577.50	As=577.50	As=577.50	As=577.50
Vu=-8.75		Vu=8.85	Vu=-10.36		Vu=7.72	Vu=-3.79		Vu=-2.75

V1101/NE+41.95m

B=0.50 H=0.40 L=3.05			B=0.50 H=0.40 L=5.45			B=0.50 H=0.40 L=5.45		
Mu=-0.48		Mu=-26.53	Mu=-23.22		Mu=-5.80	Mu=-9.28		Mu=-7.79
As=577.50		As=2136.85	As=1854.15		As=592.48	As=716.22		As=599.16
Mu=0.00	Mu=0.00	Mu=5.31	Mu=11.61	Mu=5.80	Mu=5.80	Mu=4.64	Mu=7.04	Mu=3.89
As=577.50	As=577.50	As=577.50	As=900.94	As=592.48	As=592.48	As=577.50	As=721.58	As=577.50
Vu=4.24		Vu=13.74	Vu=-11.70		Vu=6.14	Vu=-8.77		Vu=9.12

B=0.50 H=0.40 L=5.45			B=0.50 H=0.40 L=5.45			B=0.50 H=0.40 L=1.00		
Mu=-9.77		Mu=-14.42	Mu=-22.25		Mu=-5.56	Mu=-1.79		Mu=-7.18
As=754.89		As=1126.51	As=1772.28		As=577.50	As=577.50		As=735.11
Mu=4.89	Mu=3.90	Mu=7.21	Mu=11.13	Mu=14.96	Mu=8.18	Mu=6.63	Mu=1.79	Mu=3.59
As=577.50	As=577.50	As=738.23	As=960.89	As=1601.48	As=961.64	As=677.95	As=577.50	As=577.50
Vu=-7.76		Vu=10.45	Vu=-16.22		Vu=7.80	Vu=15.52		Vu=16.00

V1102/NE+41.95m

B=0.40 H=0.40 L=1.05			B=0.40 H=0.40 L=4.27			B=0.40 H=0.40 L=1.05		
Mu=-0.00		Mu=-4.92	Mu=-8.71		Mu=-3.66	Mu=-6.32		Mu=-0.60
As=462.00		As=502.54	As=674.75		As=462.00	As=486.22		As=462.00
Mu=0.24	Mu=0.00	Mu=0.98	Mu=4.36	Mu=3.59	Mu=4.21	Mu=1.26	Mu=0.00	Mu=0.00
As=462.00	As=462.00	As=462.00	As=462.00	As=462.00	As=462.00	As=462.00	As=462.00	As=462.00
Vu=3.03		Vu=5.79	Vu=-7.45		Vu=5.71	Vu=-6.34		Vu=-3.55

V1103/NE+41.95m

B=0.40 H=0.40 L=1.05			B=0.40 H=0.40 L=4.27			B=0.40 H=0.40 L=1.05		
Mu=-0.00		Mu=-5.40	Mu=-6.66		Mu=-1.66	Mu=-4.97		Mu=-0.35
As=462.00		As=552.32	As=512.87		As=462.00	As=507.72		As=462.00
Mu=0.11	Mu=0.00	Mu=1.08	Mu=3.33	Mu=2.25	Mu=2.84	Mu=0.99	Mu=0.00	Mu=0.00
As=462.00	As=462.00	As=462.00	As=462.00	As=462.00	As=462.00	As=462.00	As=462.00	As=462.00
Vu=3.30		Vu=6.10	Vu=-6.39		Vu=3.45	Vu=-5.35		Vu=-2.57

V1119/NE+41.95m

B=0.40 H=0.40 L=0.70			B=0.40 H=0.40 L=1.85			B=0.40 H=0.40 L=3.70		
Mu=-1.35		Mu=-5.39	Mu=-7.34		Mu=-5.93	Mu=-6.25		Mu=-1.56
As=462.00		As=551.28	As=566.35		As=607.45	As=480.73		As=462.00
Mu=1.35	Mu=1.35	Mu=2.69	Mu=3.67	Mu=5.05	Mu=2.96	Mu=3.13	Mu=1.56	Mu=1.56
As=462.00	As=462.00	As=462.00	As=462.00	As=528.58	As=462.00	As=462.00	As=462.00	As=462.00
Vu=4.21		Vu=15.90	Vu=-9.33		Vu=-11.80	Vu=-14.11		Vu=0.65

V1120/NE+41.95m

B=0.40 H=0.40 L=4.30			B=0.40 H=0.40 L=4.27			B=0.40 H=0.40 L=1.05		
Mu=-0.00		Mu=-0.00	Mu=-3.13		Mu=-1.93	Mu=-4.59		Mu=-0.37
As=462.00		As=462.00	As=462.00		As=462.00	As=468.40		As=462.00
Mu=1.38	Mu=7.23	Mu=4.14	Mu=1.57	Mu=2.04	Mu=0.96	Mu=0.92	Mu=0.00	Mu=0.00
As=462.00	As=565.56	As=559.60	As=462.00	As=462.00	As=462.00	As=462.00	As=462.00	As=462.00
Vu=-5.33		Vu=3.91	Vu=-4.97		Vu=4.30	Vu=-5.00		Vu=-2.21

V1200/N 46.55

B=0.60 H=1.20 L=8.54			B=0.60 H=0.80 L=1.56			B=0.60 H=0.80 L=4.40		
Mu=-2.26		Mu=-562.31	Mu=-180.43		Mu=-36.09	Mu=-40.91		Mu=-204.57
As=2277.00		As=15352.71	As=7453.76		As=1741.35	As=1486.50		As=8699.99
Mu=4.78	Mu=0.00	Mu=112.46	Mu=60.14	Mu=36.09	Mu=57.10	Mu=40.91	Mu=40.91	Mu=116.36
As=2277.00	As=2277.00	As=3440.03	As=2217.91	As=1741.35	As=2100.63	As=2701.07	As=2701.07	As=4501.78
Vu=17.87		Vu=126.79	Vu=-118.05		Vu=-115.23	Vu=-7.22		Vu=177.86

B=0.60 H=0.80 L=7.05			B=0.60 H=0.80 L=6.75			B=0.60 H=0.80 L=0.25		
Mu=-215.45		Mu=-172.54	Mu=-178.16		Mu=-53.94	Mu=-11.05		Mu=-0.00
As=9292.96		As=7064.69	As=7340.97		As=1979.47	As=1485.00		As=1485.00
Mu=123.43	Mu=43.09	Mu=133.36	Mu=59.39	Mu=35.63	Mu=94.45	Mu=2.41	Mu=9.92	Mu=18.43
As=4806.85	As=2204.19	As=5243.07	As=2188.70	As=1792.83	As=3583.34	As=1485.00	As=1485.00	As=1485.00
Vu=-90.49		Vu=64.25	Vu=-63.96		Vu=30.57	Vu=-17.47		Vu=-15.72

V1201/N 46.55

B=0.60 H=0.80 L=2.10			B=0.60 H=0.80 L=13.20			B=0.60 H=0.80 L=13.20		
Mu=-12.48		Mu=-62.38	Mu=-207.93		Mu=-199.09	Mu=-219.82		Mu=-209.79
As=1485.00		As=2304.48	As=8880.85		As=8409.11	As=9537.34		As=8981.83
Mu=12.48	Mu=12.48	Mu=20.79	Mu=69.31	Mu=82.88	Mu=66.36	Mu=73.27	Mu=85.67	Mu=69.93
As=1485.00	As=1485.00	As=1485.00	As=2574.79	As=3115.95	As=2459.47	As=2730.82	As=3226.00	As=2599.13
Vu=12.10		Vu=29.05	Vu=-64.35		Vu=64.89	Vu=-67.96		Vu=66.29

B=0.60 H=0.80 L=4.48			B=0.60 H=0.80 L=2.25			B=0.60 H=0.80 L=4.30		
Mu=-232.13		Mu=-250.36	Mu=-178.75		Mu=-35.75	Mu=-2.27		Mu=-3.59
As=9640.33		As=10263.30	As=7370.21		As=1800.18	As=1485.00		As=1485.00
Mu=231.30	Mu=50.07	Mu=193.90	Mu=136.53	Mu=35.75	Mu=35.75	Mu=0.99	Mu=2.49	Mu=4.97
As=9640.33	As=2434.37	As=8968.73	As=5384.32	As=1724.70	As=1724.70	As=1485.00	As=1485.00	As=1485.00
Vu=-98.53		Vu=128.08	Vu=-178.48		Vu=-3.79	Vu=-3.79		Vu=4.16

B=0.60 H=0.80 L=1.35			B=0.60 H=0.80 L=3.20			B=0.60 H=0.80 L=3.80		
Mu=-10.10		Mu=-29.66	Mu=-192.57		Mu=-157.52	Mu=-127.42		Mu=-2.04
As=1485.00		As=1485.00	As=8069.34		As=6345.87	As=4981.01		As=1485.00
Mu=18.31	Mu=9.50	Mu=12.94	Mu=142.07	Mu=38.51	Mu=170.76	Mu=25.48	Mu=0.00	Mu=0.00
As=1485.00	As=1485.00	As=1485.00	As=5633.59	As=1638.69	As=6978.05	As=1485.00	As=1485.00	As=1485.00
Vu=19.44		Vu=22.15	Vu=-110.32		Vu=-88.47	Vu=-48.75		Vu=-27.46

V1202/N 46.55

B=0.50 H=1.20 L=7.38			B=0.50 H=0.80 L=13.20			B=0.50 H=0.80 L=4.75		
Mu=-4.48		Mu=-406.94	Mu=-202.68		Mu=-119.71	Mu=-119.47		Mu=-1.28
As=1897.50		As=11331.92	As=8344.30		As=4754.45	As=4743.55		As=1237.50
Mu=2.40	Mu=0.00	Mu=81.39	Mu=67.56	Mu=51.86	Mu=40.54	Mu=23.89	Mu=2.72	Mu=8.10
As=1897.50	As=1897.50	As=1929.40	As=2948.43	As=1915.62	As=1769.06	As=1237.50	As=1237.50	As=1237.50
Vu=-14.60		Vu=-97.75	Vu=-60.11		Vu=45.08	Vu=-39.12		Vu=-7.53

V1203/N 46.55

B=0.50 H=0.80 L=4.85			B=0.50 H=0.80 L=13.20			B=0.50 H=0.80 L=13.20		
Mu=-1.39		Mu=-85.98	Mu=-138.70		Mu=-124.96	Mu=-142.42		Mu=-135.78
As=1237.50		As=3287.03	As=5641.19		As=4994.77	As=5820.87		As=5501.60
Mu=0.92	Mu=0.00	Mu=17.20	Mu=46.23	Mu=44.04	Mu=41.65	Mu=47.47	Mu=43.77	Mu=45.26
As=1237.50	As=1237.50	As=1237.50	As=1698.70	As=1626.63	As=1523.89	As=1746.30	As=1656.07	As=1661.42
Vu=4.75		Vu=29.11	Vu=-42.00		Vu=41.65	Vu=-44.30		Vu=42.11

B=0.50 H=0.80 L=13.20			B=0.50 H=0.80 L=3.20			B=0.50 H=0.80 L=5.52		
Mu=-109.35		Mu=-84.25	Mu=-141.10		Mu=-108.59	Mu=-131.44		Mu=-0.96
As=4290.23		As=3214.98	As=5756.88		As=4256.67	As=5296.37		As=1237.50
Mu=36.45	Mu=37.34	Mu=28.08	Mu=79.90	Mu=28.22	Mu=116.82	Mu=26.29	Mu=0.00	Mu=1.02
As=1327.16	As=1375.75	As=1352.76	As=3035.09	As=1359.51	As=4623.65	As=1264.26	As=1237.50	As=1237.50
Vu=-39.83		Vu=32.45	Vu=-76.09		Vu=-64.13	Vu=-41.80		Vu=-9.00

V1204/N 46.55

B=0.50 H=0.80 L=2.05			B=0.50 H=0.80 L=4.75			B=0.50 H=0.80 L=1.90		
Mu=-0.00		Mu=-92.91	Mu=-61.21		Mu=-12.24	Mu=-12.45		Mu=-62.23
As=1237.50		As=3578.57	As=2281.57		As=1237.50	As=1237.50		As=2321.92
Mu=2.14	Mu=0.00	Mu=18.58	Mu=20.40	Mu=12.24	Mu=21.09	Mu=15.53	Mu=12.45	Mu=20.74
As=1237.50	As=1237.50	As=1237.50	As=1237.50	As=1237.50	As=1237.50	As=1237.50	As=1237.50	As=1237.50
Vu=25.22		Vu=37.03	Vu=-38.86		Vu=-28.43	Vu=38.55		Vu=48.03

B=0.50 H=0.80 L=2.10		
Mu=-92.00		Mu=-0.00
As=3540.01		As=1237.50
Mu=18.40	Mu=0.00	Mu=3.34
As=1237.50	As=1237.50	As=1237.50
Vu=-45.45		Vu=-35.69

V1205/N 46.55

B=0.50 H=0.80 L=2.05			B=0.50 H=0.80 L=2.50			B=0.50 H=0.80 L=1.25		
Mu=-0.00		Mu=-68.44	Mu=-52.39		Mu=-68.23	Mu=-46.50		Mu=-23.37
As=1237.50		As=2569.45	As=1936.18		As=2561.03	As=1708.93		As=1237.50
Mu=2.92	Mu=0.00	Mu=13.69	Mu=55.88	Mu=13.65	Mu=47.45	Mu=34.67	Mu=9.30	Mu=9.30
As=1237.50	As=1237.50	As=1237.50	As=2072.10	As=1237.50	As=1745.40	As=1260.30	As=1237.50	As=1237.50
Vu=17.46		Vu=29.27	Vu=45.72		Vu=53.60	Vu=-33.26		Vu=36.19

B=0.50 H=0.80 L=1.40			B=0.50 H=0.80 L=2.15		
Mu=-13.33		Mu=-66.66	Mu=-102.18		Mu=-0.00
As=1237.50		As=2498.17	As=3976.24		As=1237.50
Mu=31.90	Mu=13.33	Mu=22.22	Mu=20.44	Mu=0.00	Mu=2.31
As=1541.88	As=1237.50	As=1237.50	As=1237.50	As=1237.50	As=1237.50
Vu=49.39		Vu=56.71	Vu=-49.22		Vu=-39.44

V1206/N 46.55

B=0.50 H=0.80 L=2.50			B=0.50 H=0.80 L=1.40			B=0.50 H=0.80 L=2.15		
Mu=-109.97		Mu=-140.42	Mu=-11.90		Mu=-52.21	Mu=-49.02		Mu=-0.00
As=4317.65		As=5724.01	As=1237.50		As=1929.19	As=1805.83		As=1237.50
Mu=140.24	Mu=28.08	Mu=106.88	Mu=37.49	Mu=10.44	Mu=17.40	Mu=9.80	Mu=0.00	Mu=9.04
As=5715.32	As=1460.85	As=4181.41	As=1366.32	As=1237.50	As=1237.50	As=1237.50	As=1237.50	As=1237.50
Vu=108.42		Vu=116.10	Vu=45.94		Vu=51.52	Vu=-28.48		Vu=-20.55

V1207/N 46.55

B=0.60 H=0.80 L=2.50			B=0.60 H=0.80 L=1.25			B=0.60 H=0.80 L=1.40		
Mu=-90.57		Mu=-107.77	Mu=-47.02		Mu=-45.76	Mu=-18.91		Mu=-94.55
As=3424.68		As=4136.99	As=1716.31		As=1709.84	As=1485.00		As=3587.45
Mu=101.85	Mu=21.55	Mu=87.77	Mu=53.63	Mu=10.73	Mu=15.25	Mu=55.01	Mu=18.91	Mu=31.52
As=3889.18	As=1485.00	As=3310.88	As=1967.62	As=1485.00	As=1485.00	As=2020.43	As=1485.00	As=1515.69
Vu=80.01		Vu=87.68	Vu=57.70		Vu=62.77	Vu=77.55		Vu=83.00

B=0.60 H=0.80 L=2.15			B=0.60 H=0.55 L=1.95		
Mu=-259.60		Mu=-51.92	Mu=-52.10		Mu=-0.00
As=10586.83		As=2405.60	As=3025.91		As=990.00
Mu=86.53	Mu=51.92	Mu=51.92	Mu=10.42	Mu=0.00	Mu=0.00
As=4522.81	As=1902.35	As=1902.35	As=990.00	As=990.00	As=990.00
Vu=-95.66		Vu=-87.68	Vu=-26.23		Vu=-24.60

V1208/N 46.55

B=0.50 H=0.80 L=2.50			B=0.50 H=0.80 L=1.25			B=0.50 H=0.80 L=1.40		
Mu=-114.13		Mu=-156.54	Mu=-76.48		Mu=-42.06	Mu=-13.69		Mu=-68.46
As=4502.82		As=6522.80	As=2894.89		As=1539.35	As=1237.50		As=2570.26
Mu=149.77	Mu=31.31	Mu=113.63	Mu=61.00	Mu=15.30	Mu=30.77	Mu=45.86	Mu=13.69	Mu=22.82
As=6182.17	As=1512.46	As=4480.45	As=2273.27	As=1237.50	As=1485.75	As=1684.39	As=1237.50	As=1237.50
Vu=118.68		Vu=126.36	Vu=-66.02		Vu=62.62	Vu=60.85		Vu=66.30

B=0.50 H=0.80 L=2.15		
Mu=-106.15		Mu=-0.46
As=4149.38		As=1237.50
Mu=21.23	Mu=0.00	Mu=2.55
As=1237.50	As=1237.50	As=1237.50
Vu=-50.33		Vu=-42.44

V1209/N 46.55

B=0.50 H=0.80 L=4.80			B=0.50 H=0.80 L=1.90			B=0.50 H=0.80 L=2.10		
Mu=-8.89		Mu=-5.73	Mu=-1.66		Mu=-8.31	Mu=-9.04		Mu=-0.00
As=1237.50		As=1237.50	As=1237.50		As=1237.50	As=1237.50		As=1237.50
Mu=2.96	Mu=1.78	Mu=1.91	Mu=3.83	Mu=1.66	Mu=2.77	Mu=1.81	Mu=0.00	Mu=0.00
As=1237.50	As=1237.50	As=1237.50	As=1237.50	As=1237.50	As=1237.50	As=1237.50	As=1237.50	As=1237.50
Vu=-8.00		Vu=6.63	Vu=3.76		Vu=9.21	Vu=-7.84		Vu=0.00

V1210/N 46.55

B=0.50 H=0.80 L=4.80			B=0.50 H=0.80 L=1.90			B=0.50 H=0.80 L=2.10		
Mu=-11.51		Mu=-6.23	Mu=-5.74		Mu=-28.72	Mu=-52.31		Mu=-0.28
As=1237.50		As=1237.50	As=1237.50		As=1384.22	As=1933.07		As=1237.50
Mu=3.84	Mu=2.75	Mu=2.30	Mu=12.98	Mu=5.74	Mu=9.57	Mu=10.46	Mu=0.00	Mu=2.30
As=1237.50	As=1237.50	As=1237.50	As=1237.50	As=1237.50	As=1237.50	As=1237.50	As=1237.50	As=1237.50
Vu=-10.62		Vu=7.45	Vu=20.29		Vu=25.76	Vu=-27.20		Vu=-19.91

V1300/N 50.75

B=0.60 H=0.80 L=2.10			B=0.60 H=0.80 L=13.20			B=0.60 H=0.80 L=13.20		
Mu=-15.51		Mu=-62.03	Mu=-193.74		Mu=-174.33	Mu=-191.92		Mu=-186.67
As=1485.00		As=2244.45	As=7456.89		As=6643.77	As=7379.89		As=7158.67
Mu=15.51	Mu=15.51	Mu=31.01	Mu=96.87	Mu=68.69	Mu=87.17	Mu=95.96	Mu=67.31	Mu=93.33
As=1485.00	As=1485.00	As=1485.00	As=3558.84	As=2493.28	As=3188.52	As=3523.97	As=2536.65	As=3423.57
Vu=13.24		Vu=29.03	Vu=-59.40		Vu=55.62	Vu=-57.53		Vu=57.41

B=0.60 H=0.80 L=4.48			B=0.60 H=0.80 L=2.25			B=0.60 H=0.80 L=4.30		
Mu=-216.92		Mu=-237.67	Mu=-171.33		Mu=-42.83	Mu=-2.06		Mu=-1.89
As=8451.88		As=9366.38	As=6519.64		As=1537.33	As=1485.00		As=1485.00
Mu=224.99	Mu=59.42	Mu=179.81	Mu=127.82	Mu=42.83	Mu=42.83	Mu=1.03	Mu=1.40	Mu=2.94
As=8804.77	As=2361.98	As=6871.56	As=4762.81	As=1537.33	As=1537.33	As=1485.00	As=1485.00	As=1485.00
Vu=-90.80		Vu=121.71	Vu=-170.16		Vu=-2.96	Vu=-2.96		Vu=2.40

B=0.60 H=0.80 L=1.35			B=0.60 H=0.80 L=3.20			B=0.60 H=0.80 L=3.80		
Mu=-9.83		Mu=-39.33	Mu=-180.46		Mu=-142.17	Mu=-109.65		Mu=-1.97
As=1485.00		As=1878.95	As=6898.67		As=5333.54	As=4051.66		As=1485.00
Mu=17.17	Mu=10.06	Mu=21.69	Mu=128.75	Mu=45.12	Mu=160.91	Mu=21.93	Mu=0.00	Mu=0.00
As=1485.00	As=1485.00	As=1485.00	As=4799.55	As=1620.79	As=6091.61	As=1485.00	As=1485.00	As=1485.00
Vu=26.52		Vu=29.23	Vu=-103.23		Vu=-83.13	Vu=-41.87		Vu=-23.62

V1301/N 50.75

B=0.50 H=0.80 L=4.85			B=0.50 H=0.80 L=13.20			B=0.50 H=0.80 L=13.20		
Mu=-1.26		Mu=-84.06	Mu=-122.33		Mu=-107.03	Mu=-128.41		Mu=-123.03
As=1237.50		As=3093.77	As=4599.43		As=3989.28	As=4845.08		As=4627.61
Mu=0.78	Mu=0.00	Mu=16.81	Mu=61.17	Mu=36.98	Mu=53.51	Mu=64.21	Mu=40.52	Mu=61.51
As=1237.50	As=1237.50	As=1237.50	As=2224.00	As=1328.13	As=1938.16	As=2338.24	As=1457.71	As=2237.13
Vu=6.12		Vu=25.83	Vu=-36.51		Vu=35.98	Vu=-39.70		Vu=37.68

B=0.50 H=0.80 L=13.20			B=0.50 H=0.80 L=3.20			B=0.50 H=0.80 L=5.52		
Mu=-93.96		Mu=-72.97	Mu=-124.51		Mu=-91.20	Mu=-113.84		Mu=-0.76
As=3476.82		As=2669.73	As=4687.29		As=3369.59	As=4259.46		As=1237.50
Mu=46.98	Mu=32.67	Mu=36.49	Mu=64.15	Mu=31.13	Mu=109.18	Mu=22.77	Mu=0.00	Mu=1.07
As=1695.81	As=1572.83	As=1572.83	As=2336.17	As=1485.87	As=4074.34	As=1237.50	As=1237.50	As=1237.50
Vu=-34.69		Vu=26.89	Vu=-68.55		Vu=-58.39	Vu=-35.77		Vu=-8.68

V1302/N 50.75

B=0.50 H=0.80 L=2.50			B=0.50 H=0.80 L=1.25			B=0.50 H=0.80 L=1.40		
Mu=-87.23		Mu=-128.78	Mu=-69.08		Mu=-33.43	Mu=-12.32		Mu=-49.28
As=3215.95		As=4860.09	As=2522.22		As=1597.60	As=1237.50		As=1780.91
Mu=123.05	Mu=32.19	Mu=90.02	Mu=50.35	Mu=17.27	Mu=26.69	Mu=32.48	Mu=12.32	Mu=24.64
As=4628.42	As=1537.64	As=3323.85	As=1820.58	As=1237.50	As=1271.25	As=1551.47	As=1237.50	As=1237.50
Vu=97.40		Vu=104.07	Vu=-59.16		Vu=-54.76	Vu=41.81		Vu=47.03

B=0.50 H=0.80 L=2.15			B=0.50 H=0.55 L=1.60		
Mu=-126.03		Mu=-31.51	Mu=-26.88		Mu=-0.00
As=4748.70		As=1504.29	As=1465.54		As=825.00
Mu=63.01	Mu=31.51	Mu=31.51	Mu=5.38	Mu=0.00	Mu=0.00
As=2293.48	As=1504.29	As=1504.29	As=825.00	As=825.00	As=825.00
Vu=-51.61		Vu=-44.38	Vu=-13.93		Vu=-12.30

V1303/N 50.75

B=0.50 H=0.80 L=2.50			B=0.50 H=0.80 L=1.25			B=0.50 H=0.80 L=1.40		
Mu=-74.65		Mu=-84.58	Mu=-46.19		Mu=-36.89	Mu=-19.30		Mu=-77.18
As=2733.63		As=3113.78	As=1666.62		As=1345.91	As=1237.50		As=2830.09
Mu=81.48	Mu=21.15	Mu=77.39	Mu=46.44	Mu=11.61	Mu=18.44	Mu=43.91	Mu=19.30	Mu=38.59
As=2994.65	As=1237.50	As=2838.11	As=1675.86	As=1237.50	As=1237.50	As=1582.53	As=1237.50	As=1387.07
Vu=63.50		Vu=69.76	Vu=48.30		Vu=52.71	Vu=62.05		Vu=67.58

B=0.50 H=0.80 L=2.15		
Mu=-98.94		Mu=-0.00
As=3671.16		As=1237.50
Mu=19.79	Mu=0.00	Mu=2.50
As=1237.50	As=1237.50	As=1237.50
Vu=-46.53		Vu=-39.76

V1304/N 50.75

B=0.50 H=0.80 L=2.50			B=0.50 H=0.80 L=1.25			B=0.50 H=0.80 L=1.40		
Mu=-93.45		Mu=-136.58	Mu=-72.41		Mu=-35.31	Mu=-13.95		Mu=-55.79
As=3456.98		As=5178.15	As=2648.46		As=1267.09	As=1237.50		As=2022.92
Mu=128.16	Mu=34.15	Mu=97.61	Mu=55.99	Mu=18.10	Mu=25.90	Mu=35.93	Mu=13.95	Mu=27.90
As=4834.94	As=1632.35	As=3619.14	As=2030.38	As=1237.50	As=1237.50	As=1296.25	As=1237.50	As=1329.43
Vu=102.56		Vu=109.23	Vu=-60.66		Vu=-56.26	Vu=48.42		Vu=53.52

B=0.50 H=0.80 L=2.15		
Mu=-82.27		Mu=-0.37
As=3024.97		As=1237.50
Mu=16.45	Mu=0.00	Mu=2.35
As=1237.50	As=1237.50	As=1237.50
Vu=-39.28		Vu=-32.68

V1305/N 50.75

B=0.50 H=0.80 L=4.80			B=0.50 H=0.80 L=1.90			B=0.50 H=0.80 L=2.10		
Mu=-9.67		Mu=-5.16	Mu=-2.31		Mu=-9.23	Mu=-8.19		Mu=-2.05
As=1237.50		As=1237.50	As=1237.50		As=1237.50	As=1237.50		As=1237.50
Mu=4.84	Mu=2.42	Mu=2.58	Mu=4.07	Mu=2.31	Mu=4.61	Mu=4.09	Mu=2.05	Mu=2.05
As=1237.50	As=1237.50	As=1237.50	As=1237.50	As=1237.50	As=1237.50	As=1237.50	As=1237.50	As=1237.50
Vu=-8.66		Vu=6.27	Vu=4.79		Vu=9.89	Vu=-7.10		Vu=0.00

B=0.50 H=0.80 L=1.60		
Mu=-8.19		Mu=-0.00
As=1237.50		As=1237.50
Mu=1.64	Mu=0.00	Mu=0.00
As=1237.50	As=1237.50	As=1237.50
Vu=-7.10		Vu=0.00

V1306/N 50.75

B=0.50 H=0.80 L=4.90			B=0.50 H=0.80 L=1.90			B=0.50 H=0.80 L=2.10		
Mu=-11.70		Mu=-5.78	Mu=-7.17		Mu=-28.69	Mu=-52.15		Mu=-0.18
As=1237.50		As=1237.50	As=1237.50		As=1367.86	As=1887.40		As=1237.50
Mu=5.85	Mu=2.92	Mu=2.92	Mu=12.57	Mu=7.17	Mu=14.35	Mu=10.43	Mu=0.00	Mu=2.11
As=1237.50	As=1237.50	As=1237.50	As=1237.50	As=1237.50	As=1237.50	As=1237.50	As=1237.50	As=1237.50
Vu=-10.73		Vu=6.80	Vu=20.37		Vu=25.48	Vu=-26.43		Vu=-19.85

V1400/N 54.95

B=0.50 H=0.80 L=2.10			B=0.50 H=0.80 L=13.20			B=0.50 H=0.80 L=13.20		
Mu=-11.83		Mu=-47.31	Mu=-140.11		Mu=-131.34	Mu=-148.49		Mu=-134.28
As=1237.50		As=1708.01	As=5323.14		As=4964.13	As=5670.00		As=5084.04
Mu=11.83	Mu=11.83	Mu=23.66	Mu=70.06	Mu=42.19	Mu=65.67	Mu=74.25	Mu=41.61	Mu=67.14
As=1237.50	As=1237.50	As=1237.50	As=2559.13	As=1519.29	As=2393.42	As=2718.21	As=1497.75	As=2448.89
Vu=8.53		Vu=23.61	Vu=-52.33		Vu=51.07	Vu=-54.48		Vu=50.00

B=0.50 H=0.80 L=4.48			B=0.50 H=0.80 L=6.95			B=0.50 H=0.80 L=1.35		
Mu=-150.55		Mu=-175.21	Mu=-142.91		Mu=-35.73	Mu=-9.86		Mu=-39.43
As=5755.85		As=6802.40	As=5438.61		As=1282.34	As=1237.50		As=1417.86
Mu=141.92	Mu=43.80	Mu=129.45	Mu=104.85	Mu=35.73	Mu=35.73	Mu=16.51	Mu=9.86	Mu=25.47
As=5397.74	As=1590.26	As=4887.29	As=3903.26	As=2341.95	As=2341.95	As=1237.50	As=1237.50	As=1237.50
Vu=-68.04		Vu=106.51	Vu=-122.64		Vu=3.53	Vu=27.01		Vu=30.01

B=0.50 H=0.80 L=3.20			B=0.50 H=0.80 L=3.80		
Mu=-132.37		Mu=-97.73	Mu=-76.67		Mu=-1.12
As=5006.09		As=3623.83	As=2810.62		As=1237.50
Mu=91.44	Mu=33.09	Mu=103.89	Mu=15.33	Mu=0.00	Mu=0.00
As=3378.90	As=1581.21	As=3865.45	As=1237.50	As=1237.50	As=1237.50
Vu=-75.62		Vu=56.65	Vu=-32.91		Vu=-14.47

CÁLCULO DE DEFLEXIÓN EN VIGAS

PROYECTO: **UNAL-SGC**
LOCALIZACIÓN: **V400(50x80) Voladizo eje 6**

1. Propiedades de la Seccion

B (mm)	H (mm)	LUZ (mm)	As (mm2)	d (mm)	As' (mm2)	d' (mm)	f'c (MPa)
500	800	5650	5505	750	1928	50	49

2. Calculo de la Inercia de la seccion fisurada

Posicion del Eje Neutro:

n	n As	(2n-1) As'	Coef a	Coef b	Coef c
6.08	33470.4	21516.48	250	54986.88	-26178624

Solución de la ecuación cuadrática

x1	x2	**Eje Neutro (mm)**
231.80	-451.75	**231.799**

Inercia de la seccion fisurada, Icr (mm4) = **11774811265**

3. Modulo de rotura:

f'c (MPa)	Ec (MPa)	fr (MPa)	yt (mm)
49	32900	4.34	518.20

4. Calculo de la Inercia efectiva

Ig (mm^4)	Icr (mm^4)	Ma (N mm)	Mcr (N mm)	Mcr/Ma	**Ie (mm^4)**
21333333333	1.177E+10	1.302E+09	178669462	0.137	**11799538137**

5. Calculo de la Inercia de la Seccion Completa

Seccion : Rectangular

Ig = 21333333333 mm4

6. Calculo del módulo de elasticidad

E = 32900 MPa

7. Deflexión elástica inmediata

δDL= 7.07 **mm**
δLL= 1.06 **mm**

8. Factor de deflexion adicional a largo plazo

di 1928
d (mm) = 750
cuantía negativa, ρ' = 0.0051

Tiempo	**ε**	**λ_Δ**
6 meses	1.2	0.955
1 año	1.4	1.114
5 años	2	1.591

DEFLEXION ESPERADA A LARGO PLAZO

Tiempo	Instantanea	Largo plazo	Total (mm)	**CUMPLE NSR-10**
6 meses	8.13	7.8	15.9	**NO CUMPLE**
1 año	8.13	9.1	17.2	**NO CUMPLE**
5 años	8.13	12.9	21.1	**NO CUMPLE**

DEFLEXIÓN MÁXIMA PERMITIDA NSR-10

Limite de deflexión = 480 *Sistema de entrepiso o cubierta ligado a elementos no estructurales susceptibles a daños*
Luz de la viga = 5650 mm
Deflexión = 11.8 mm

REQUIERE CONTRAFLECHA DE 1 cm

CÁLCULO DE DEFLEXIÓN EN VIGAS

PROYECTO: **UNAL-SGC**
LOCALIZACIÓN: **V401(50x80) Voladizo eje 1**

1. Propiedades de la Seccion

B (mm)	H (mm)	LUZ (mm)	As (mm2)	d (mm)	As' (mm2)	d' (mm)	f'c (MPa)
500	800	5200	6795	750	1928	50	49

2. Calculo de la Inercia de la seccion fisurada

Posicion del Eje Neutro:

n	n As	(2n-1) As'	Coef a	Coef b	Coef c
6.08	41313.6	21516.48	250	62830.08	-32061024

Solución de la ecuación cuadrática

x1	x2	**Eje Neutro (mm)**
253.86	-505.18	**253.859**

Inercia de la seccion fisurada, Icr (mm4) = **13790409994**

3. Modulo de rotura:

f'c (MPa)	Ec (MPa)	fr (MPa)	yt (mm)
49	32900	4.34	496.14

4. Calculo de la Inercia efectiva

Ig (mm^4)	Icr (mm^4)	Ma (N mm)	Mcr (N mm)	Mcr/Ma	**Ie (mm^4)**
21333333333	1.379E+10	1.608E+09	186613508	0.116	**13802194415**

5. Calculo de la Inercia de la Seccion Completa

Seccion : Rectangular

Ig = 21333333333 mm4

6. Calculo del módulo de elasticidad

E = 32900 MPa

7. Deflexión elástica inmediata

δDL= 10 **mm**
δLL= 3.2 **mm**

8. Factor de deflexion adicional a largo plazo

di 1928
d (mm) = 750
cuantía negativa, ρ' = 0.0051

Tiempo	**ε**	**λ_Δ**
6 meses	1.2	0.955
1 año	1.4	1.114
5 años	2	1.591

DEFLEXION ESPERADA A LARGO PLAZO

Tiempo	Instantanea	Largo plazo	Total (mm)	**CUMPLE NSR-10**
6 meses	13.2	12.6	25.8	**NO CUMPLE**
1 año	13.2	14.7	27.9	**NO CUMPLE**
5 años	13.2	21.0	34.2	**NO CUMPLE**

DEFLEXIÓN MÁXIMA PERMITIDA NSR-10

Limite de deflexión = 480 *Sistema de entrepiso o cubierta ligado a elementos no estructurales susceptibles a daños*
Luz de la viga = 5200 mm
Deflexión = 10.8 mm

REQUIERE CONTRAFLECHA DE 2.5 cm

CÁLCULO DE DEFLEXIÓN EN VIGAS

PROYECTO: **UNAL-SGC**
LOCALIZACIÓN: **V401(50x80) Voladizo eje 7**

1. Propiedades de la Seccion

B (mm)	H (mm)	LUZ (mm)	As (mm2)	d (mm)	As' (mm2)	d' (mm)	f'c (MPa)
500	800	6250	5382	750	3174	50	49

2. Calculo de la Inercia de la seccion fisurada

Posicion del Eje Neutro:

n	n As	(2n-1) As'	Coef a	Coef b	Coef c
6.08	32722.56	35421.84	250	68144.4	-26313012

Solución de la ecuación cuadrática

x1	x2	**Eje Neutro (mm)**
215.60	-488.18	**215.601**

Inercia de la seccion fisurada, Icr (mm4) = **11986706572**

3. Modulo de rotura:

f'c (MPa)	Ec (MPa)	fr (MPa)	yt (mm)
49	32900	4.34	534.40

4. Calculo de la Inercia efectiva

Ig (mm^4)	Icr (mm^4)	Ma (N mm)	Mcr (N mm)	Mcr/Ma	**Ie (mm^4)**
21333333333	1.199E+10	1.608E+09	173253934	0.108	**11998391970**

5. Calculo de la Inercia de la Seccion Completa

Seccion : Rectangular

Ig = 21333333333 mm4

6. Calculo del módulo de elasticidad

E = 32900 MPa

7. Deflexión elástica inmediata

δDL= 4.3 **mm**
δLL= 0.8 **mm**

8. Factor de deflexion adicional a largo plazo

di 3174
d (mm) = 750
cuantía negativa, ρ' = 0.0085

Tiempo	**ε**	**λ_Δ**
6 meses	1.2	0.843
1 año	1.4	0.984
5 años	2	1.405

DEFLEXION ESPERADA A LARGO PLAZO

Tiempo	Instantanea	Largo plazo	Total (mm)	**CUMPLE NSR-10**
6 meses	5.1	4.3	9.4	**OK**
1 año	5.1	5.0	10.1	**OK**
5 años	5.1	7.2	12.3	**OK**

DEFLEXIÓN MÁXIMA PERMITIDA NSR-10

Limite de deflexión = 480 *Sistema de entrepiso o cubierta ligado a elementos no estructurales susceptibles a daños*
Luz de la viga = 6250 mm
Deflexión = 13.0 mm

NO REQUIERE CONTRAFLECHA

CÁLCULO DE DEFLEXIÓN EN VIGAS

PROYECTO: **UNAL-SGC**
LOCALIZACIÓN: **V402(60x120) Voladizo eje 8**

1. Propiedades de la Seccion

B (mm)	H (mm)	LUZ (mm)	As (mm2)	d (mm)	As' (mm2)	d' (mm)	f'c (MPa)
600	1200	9100	8592	750	2706	50	49

2. Calculo de la Inercia de la seccion fisurada

Posicion del Eje Neutro:

n	n As	(2n-1) As'	Coef a	Coef b	Coef c
6.08	52239.36	30198.96	300	82438.32	-40689468

Solución de la ecuación cuadrática

x1	x2	**Eje Neutro (mm)**
255.68	-530.47	**255.680**

Inercia de la seccion fisurada, Icr (mm4) = **17385226540**

3. Modulo de rotura:

f'c (MPa)	Ec (MPa)	fr (MPa)	yt (mm)
49	32900	4.34	494.32

4. Calculo de la Inercia efectiva

Ig (mm^4)	Icr (mm^4)	Ma (N mm)	Mcr (N mm)	Mcr/Ma	**Ie (mm^4)**
86400000000	1.739E+10	3.221E+09	758569085	0.235	**18286302009**

5. Calculo de la Inercia de la Seccion Completa

Seccion : Rectangular

Ig = 86400000000 mm4

6. Calculo del módulo de elasticidad

E = 32900 MPa

7. Deflexión elástica inmediata

δDL= 9.9 **mm**
δLL= 3.7 **mm**

8. Factor de deflexion adicional a largo plazo

Acero negativo, As' (mm2) = 2706
d (mm) = 750
cuantía negativa, ρ' = 0.0060

Tiempo	**ε**	**λ_Δ**
6 meses	1.2	0.923
1 año	1.4	1.076
5 años	2	1.538

DEFLEXION ESPERADA A LARGO PLAZO

Tiempo	Instantanea	Largo plazo	Total (mm)	**CUMPLE NSR-10**
6 meses	13.6	12.5	26.1	**NO CUMPLE**
1 año	13.6	14.6	28.2	**NO CUMPLE**
5 años	13.6	20.9	34.5	**NO CUMPLE**

DEFLEXIÓN MÁXIMA PERMITIDA NSR-10

Limite de deflexión = 480 *Sistema de entrepiso o cubierta ligado a elementos no estructurales susceptibles a daños*
Luz de la viga = 9100 mm
Deflexión = 19.0 mm

REQUIERE CONTRAFLECHA DE 1.5 cm

CÁLCULO DE DEFLEXIÓN EN VIGAS

PROYECTO: **UNAL-SGC**
LOCALIZACIÓN: **V403(60x80) Voladizo eje 15**

1. Propiedades de la Seccion

B (mm)	H (mm)	LUZ (mm)	As (mm2)	d (mm)	As' (mm2)	d' (mm)	f'c (MPa)
600	800	4250	4914	750	3060	50	49

2. Calculo de la Inercia de la seccion fisurada

Posicion del Eje Neutro:

n	n As	(2n-1) As'	Coef a	Coef b	Coef c
6.08	29877.12	34149.6	300	64026.72	-24115320

Solución de la ecuación cuadrática

x1	x2	**Eje Neutro (mm)**
196.23	-409.65	**196.227**

Inercia de la seccion fisurada, Icr (mm4) = **11403596854**

3. Modulo de rotura:

f'c (MPa)	Ec (MPa)	fr (MPa)	yt (mm)
49	32900	4.34	553.77

4. Calculo de la Inercia efectiva

Ig (mm^4)	Icr (mm^4)	Ma (N mm)	Mcr (N mm)	Mcr/Ma	**Ie (mm^4)**
25600000000	1.140E+10	1.263E+09	200631021	0.159	**11460489924**

5. Calculo de la Inercia de la Seccion Completa

Seccion : Rectangular

Ig = 25600000000 mm4

6. Calculo del módulo de elasticidad

E = 32900 MPa

7. Deflexión elástica inmediata

δDL= 2.8 **mm**
δLL= 1 **mm**

8. Factor de deflexion adicional a largo plazo

di 3060
d (mm) = 750
cuantía negativa, ρ' = 0.0068

Tiempo	**ε**	**λ_Δ**
6 meses	1.2	0.896
1 año	1.4	1.045
5 años	2	1.493

DEFLEXION ESPERADA A LARGO PLAZO

Tiempo	Instantanea	Largo plazo	Total (mm)	**CUMPLE NSR-10**
6 meses	3.8	3.4	7.2	**OK**
1 año	3.8	4.0	7.8	**OK**
5 años	3.8	5.7	9.5	**NO CUMPLE**

DEFLEXIÓN MÁXIMA PERMITIDA NSR-10

Limite de deflexión = 480 *Sistema de entrepiso o cubierta ligado a elementos no estructurales susceptibles a daños*
Luz de la viga = 4250 mm
Deflexión = 8.9 mm

REQUIERE CONTRAFLECHA DE 0 cm

CÁLCULO DE DEFLEXIÓN EN VIGAS

PROYECTO: **UNAL-SGC**
LOCALIZACIÓN: **V404(50x120) Voladizo eje 8**

1. Propiedades de la Seccion

B (mm)	H (mm)	LUZ (mm)	As (mm2)	d (mm)	As' (mm2)	d' (mm)	f'c (MPa)
500	1200	7950	9828	750	3852	50	49

2. Calculo de la Inercia de la seccion fisurada

Posicion del Eje Neutro:

n	n As	(2n-1) As'	Coef a	Coef b	Coef c
6.08	59754.24	42988.32	250	102742.56	-46965096

Solución de la ecuación cuadrática

x1	x2	**Eje Neutro (mm)**
274.19	-685.16	**274.186**

Inercia de la seccion fisurada, Icr (mm4) = **19124320984**

3. Modulo de rotura:

f'c (MPa)	Ec (MPa)	fr (MPa)	yt (mm)
49	32900	4.34	475.81

4. Calculo de la Inercia efectiva

Ig (mm^4)	Icr (mm^4)	Ma (N mm)	Mcr (N mm)	Mcr/Ma	**Ie (mm^4)**
72000000000	1.912E+10	3.244E+09	656727403	0.202	**19563172343**

5. Calculo de la Inercia de la Seccion Completa

Seccion : Rectangular

Ig = 72000000000 mm4

6. Calculo del módulo de elasticidad

E = 32900 MPa

7. Deflexión elástica inmediata

δDL= 20.7 **mm**
δLL= 6.9 **mm**

8. Factor de deflexion adicional a largo plazo

di 3852
d (mm) = 750
cuantía negativa, ρ' = 0.0103

Tiempo	**ε**	**λ_Δ**
6 meses	1.2	0.793
1 año	1.4	0.925
5 años	2	1.321

DEFLEXION ESPERADA A LARGO PLAZO

Tiempo	Instantanea	Largo plazo	Total (mm)	**CUMPLE NSR-10**
6 meses	27.6	21.9	49.5	**NO CUMPLE**
1 año	27.6	25.5	53.1	**NO CUMPLE**
5 años	27.6	36.5	64.1	**NO CUMPLE**

DEFLEXIÓN MÁXIMA PERMITIDA NSR-10

Limite de deflexión = 480 *Sistema de entrepiso o cubierta ligado a elementos no estructurales susceptibles a daños*
Luz de la viga = 7950 mm
Deflexión = 16.6 mm

REQUIERE CONTRAFLECHA DE 5 cm

CÁLCULO DE DEFLEXIÓN EN VIGAS

PROYECTO: **UNAL-SGC**
LOCALIZACIÓN: **V405(50x80) Voladizo eje 15**

1. Propiedades de la Seccion

B (mm)	H (mm)	LUZ (mm)	As (mm2)	d (mm)	As' (mm2)	d' (mm)	f'c (MPa)
500	800	6000	5382	750	3060	50	49

2. Calculo de la Inercia de la seccion fisurada

Posicion del Eje Neutro:

n	n As	(2n-1) As'	Coef a	Coef b	Coef c
6.08	32722.56	34149.6	250	66872.16	-26249400

Solución de la ecuación cuadrática

x1	x2	**Eje Neutro (mm)**
216.81	-484.29	**216.805**

Inercia de la seccion fisurada, Icr (mm4) = **11951563074**

3. Modulo de rotura:

f'c (MPa)	Ec (MPa)	fr (MPa)	yt (mm)
49	32900	4.34	533.19

4. Calculo de la Inercia efectiva

Ig (mm^4)	Icr (mm^4)	Ma (N mm)	Mcr (N mm)	Mcr/Ma	**Ie (mm^4)**
21333333333	1.195E+10	1.196E+09	173645187	0.145	**11980261736**

5. Calculo de la Inercia de la Seccion Completa

Seccion : Rectangular

Ig = 21333333333 mm4

6. Calculo del módulo de elasticidad

E = 32900 MPa

7. Deflexión elástica inmediata

δDL= 8.8 **mm**
δLL= 2.7 **mm**

8. Factor de deflexion adicional a largo plazo

di 3060
d (mm) = 750
cuantía negativa, ρ' = 0.0082

Tiempo	**ε**	**λ_Δ**
6 meses	1.2	0.852
1 año	1.4	0.994
5 años	2	1.420

DEFLEXION ESPERADA A LARGO PLAZO

Tiempo	Instantanea	Largo plazo	Total (mm)	**CUMPLE NSR-10**
6 meses	11.5	9.8	21.3	**NO CUMPLE**
1 año	11.5	11.4	22.9	**NO CUMPLE**
5 años	11.5	16.3	27.8	**NO CUMPLE**

DEFLEXIÓN MÁXIMA PERMITIDA NSR-10

Limite de deflexión = 480 *Sistema de entrepiso o cubierta ligado a elementos no estructurales susceptibles a daños*
Luz de la viga = 6000 mm
Deflexión = 12.5 mm

REQUIERE CONTRAFLECHA DE 1.5 cm

CÁLCULO DE DEFLEXIÓN EN VIGAS

PROYECTO: **UNAL-SGC**
LOCALIZACIÓN: **V406(60x80) Voladizo eje A**

1. Propiedades de la Seccion

B (mm)	H (mm)	LUZ (mm)	As (mm2)	d (mm)	As' (mm2)	d' (mm)	f'c (MPa)
600	800	4400	6552	750	2297	50	49

2. Calculo de la Inercia de la seccion fisurada

Posicion del Eje Neutro:

n	n As	(2n-1) As'	Coef a	Coef b	Coef c
6.08	39836.16	25634.52	300	65470.68	-31158846

Solución de la ecuación cuadrática

x1	x2	**Eje Neutro (mm)**
231.13	-449.37	**231.131**

Inercia de la seccion fisurada, Icr (mm4) = **14035395079**

3. Modulo de rotura:

f'c (MPa)	Ec (MPa)	fr (MPa)	yt (mm)
49	32900	4.34	518.87

4. Calculo de la Inercia efectiva

Ig (mm^4)	Icr (mm^4)	Ma (N mm)	Mcr (N mm)	Mcr/Ma	**Ie (mm^4)**
25600000000	1.404E+10	1.617E+09	214127428	0.132	**14062231686**

5. Calculo de la Inercia de la Seccion Completa

Seccion : Rectangular

Ig = 25600000000 mm4

6. Calculo del módulo de elasticidad

E = 32900 MPa

7. Deflexión elástica inmediata

δDL= 6.9 **mm**
δLL= 1.4 **mm**

8. Factor de deflexion adicional a largo plazo

di 2297
d (mm) = 750
cuantía negativa, ρ' = 0.0051

Tiempo	**ε**	**λ_Δ**
6 meses	1.2	0.956
1 año	1.4	1.115
5 años	2	1.593

DEFLEXION ESPERADA A LARGO PLAZO

Tiempo	Instantanea	Largo plazo	Total (mm)	**CUMPLE NSR-10**
6 meses	8.3	7.9	16.2	**NO CUMPLE**
1 año	8.3	9.3	17.6	**NO CUMPLE**
5 años	8.3	13.2	21.5	**NO CUMPLE**

DEFLEXIÓN MÁXIMA PERMITIDA NSR-10

Limite de deflexión = 480 *Sistema de entrepiso o cubierta ligado a elementos no estructurales susceptibles a daños*
Luz de la viga = 4400 mm
Deflexión = 9.2 mm

REQUIERE CONTRAFLECHA DE 1 cm

CÁLCULO DE DEFLEXIÓN EN VIGAS

PROYECTO: **UNAL-SGC**
LOCALIZACIÓN: **V411(50x80) Voladizo escalera**

1. Propiedades de la Seccion

B (mm)	H (mm)	LUZ (mm)	As (mm2)	d (mm)	As' (mm2)	d' (mm)	f'c (MPa)
500	800	6050	3351	750	1420	50	49

2. Calculo de la Inercia de la seccion fisurada

Posicion del Eje Neutro:

n	n As	(2n-1) As'	Coef a	Coef b	Coef c
6.08	20374.08	15847.2	250	36221.28	-16072920

Solución de la ecuación cuadrática

x1	x2	**Eje Neutro (mm)**
191.26	-336.15	**191.261**

Inercia de la seccion fisurada, Icr (mm4) = **7842873925**

3. Modulo de rotura:

f'c (MPa)	Ec (MPa)	fr (MPa)	yt (mm)
49	32900	4.34	558.74

4. Calculo de la Inercia efectiva

Ig (mm^4)	Icr (mm^4)	Ma (N mm)	Mcr (N mm)	Mcr/Ma	**Ie (mm^4)**
21333333333	7.843E+09	9.745E+08	165706490	0.170	**7909198278**

5. Calculo de la Inercia de la Seccion Completa

Seccion : Rectangular

Ig = 21333333333 mm4

6. Calculo del módulo de elasticidad

E = 32900 MPa

7. Deflexión elástica inmediata

δDL= 10.1 **mm**
δLL= 4.7 **mm**

8. Factor de deflexion adicional a largo plazo

di 1420
d (mm) = 750
cuantía negativa, ρ' = 0.0038

Tiempo	**ε**	**λ_Δ**
6 meses	1.2	1.009
1 año	1.4	1.177
5 años	2	1.682

DEFLEXION ESPERADA A LARGO PLAZO

Tiempo	Instantanea	Largo plazo	Total (mm)	**CUMPLE NSR-10**
6 meses	14.8	14.9	29.7	**NO CUMPLE**
1 año	14.8	17.4	32.2	**NO CUMPLE**
5 años	14.8	24.9	39.7	**NO CUMPLE**

DEFLEXIÓN MÁXIMA PERMITIDA NSR-10

Limite de deflexión = 480 *Sistema de entrepiso o cubierta ligado a elementos no estructurales susceptibles a daños*
Luz de la viga = 6050 mm
Deflexión = 12.6 mm

REQUIERE CONTRAFLECHA DE 2.5 cm

CÁLCULO DE DEFLEXIÓN EN VIGAS

PROYECTO: **UNAL-SGC**
LOCALIZACIÓN: **V501(60x80) Voladizo eje 1**

1. Propiedades de la Seccion

B (mm)	H (mm)	LUZ (mm)	As (mm2)	d (mm)	As' (mm2)	d' (mm)	f'c (MPa)
600	800	5200	6432	750	1928	50	49

2. Calculo de la Inercia de la seccion fisurada

Posicion del Eje Neutro:

n	n As	(2n-1) As'	Coef a	Coef b	Coef c
6.08	39106.56	21516.48	300	60623.04	-30405744

Solución de la ecuación cuadrática

x1	x2	**Eje Neutro (mm)**
232.97	-435.05	**232.969**

Inercia de la seccion fisurada, Icr (mm4) = **13703185927**

3. Modulo de rotura:

f'c (MPa)	Ec (MPa)	fr (MPa)	yt (mm)
49	32900	4.34	517.03

4. Calculo de la Inercia efectiva

Ig (mm^4)	Icr (mm^4)	Ma (N mm)	Mcr (N mm)	Mcr/Ma	**Ie (mm^4)**
25600000000	1.370E+10	1.679E+09	214888653	0.128	**13728125442**

5. Calculo de la Inercia de la Seccion Completa

Seccion : Rectangular

Ig = 25600000000 mm4

6. Calculo del módulo de elasticidad

E = 32900 MPa

7. Deflexión elástica inmediata

δDL= 9.5 **mm**
δLL= 2 **mm**

8. Factor de deflexion adicional a largo plazo

di 1928
d (mm) = 750
cuantía negativa, ρ' = 0.0043

Tiempo	**ε**	**λ_Δ**
6 meses	1.2	0.988
1 año	1.4	1.153
5 años	2	1.647

DEFLEXION ESPERADA A LARGO PLAZO

Tiempo	Instantanea	Largo plazo	Total (mm)	**CUMPLE NSR-10**
6 meses	11.5	11.4	22.9	**NO CUMPLE**
1 año	11.5	13.3	24.8	**NO CUMPLE**
5 años	11.5	18.9	30.4	**NO CUMPLE**

DEFLEXIÓN MÁXIMA PERMITIDA NSR-10

Limite de deflexión = 480 *Sistema de entrepiso o cubierta ligado a elementos no estructurales susceptibles a daños*
Luz de la viga = 5200 mm
Deflexión = 10.8 mm

REQUIERE CONTRAFLECHA DE 2 cm

CÁLCULO DE DEFLEXIÓN EN VIGAS

PROYECTO: **UNAL-SGC**
LOCALIZACIÓN: **V501(60x80) Voladizo eje 7**

1. Propiedades de la Seccion

B (mm)	H (mm)	LUZ (mm)	As (mm2)	d (mm)	As' (mm2)	d' (mm)	f'c (MPa)
600	800	6250	7464	750	4814	50	49

2. Calculo de la Inercia de la seccion fisurada

Posicion del Eje Neutro:

n	n As	(2n-1) As'	Coef a	Coef b	Coef c
6.08	45381.12	53724.24	300	99105.36	-36722052

Solución de la ecuación cuadrática

x1	x2	**Eje Neutro (mm)**
221.72	-552.07	**221.722**

Inercia de la seccion fisurada, Icr (mm4) = **16429099740**

3. Modulo de rotura:

f'c (MPa)	Ec (MPa)	fr (MPa)	yt (mm)
49	32900	4.34	528.28

4. Calculo de la Inercia efectiva

Ig (mm^4)	Icr (mm^4)	Ma (N mm)	Mcr (N mm)	Mcr/Ma	**Ie (mm^4)**
25600000000	1.643E+10	1.766E+09	210313543	0.119	**16444588337**

5. Calculo de la Inercia de la Seccion Completa

Seccion : Rectangular

Ig = 25600000000 mm4

6. Calculo del módulo de elasticidad

E = 32900 MPa

7. Deflexión elástica inmediata

δDL= 1.9 **mm**
δLL= 0.4 **mm**

8. Factor de deflexion adicional a largo plazo

di 4814
d (mm) = 750
cuantía negativa, ρ' = 0.0107

Tiempo	**ε**	**λ_Δ**
6 meses	1.2	0.782
1 año	1.4	0.912
5 años	2	1.303

DEFLEXION ESPERADA A LARGO PLAZO

Tiempo	Instantanea	Largo plazo	Total (mm)	**CUMPLE NSR-10**
6 meses	2.3	1.8	4.1	**OK**
1 año	2.3	2.1	4.4	**OK**
5 años	2.3	3.0	5.3	**OK**

DEFLEXIÓN MÁXIMA PERMITIDA NSR-10

Limite de deflexión = 480 *Sistema de entrepiso o cubierta ligado a elementos no estructurales susceptibles a daños*
Luz de la viga = 6250 mm
Deflexión = 13.0 mm

NO REQUIERE CONTRAFLECHA

CÁLCULO DE DEFLEXIÓN EN VIGAS

PROYECTO: **UNAL-SGC**
LOCALIZACIÓN: **V502(60x120) Voladizo eje 8**

1. Propiedades de la Seccion

B (mm)	H (mm)	LUZ (mm)	As (mm2)	d (mm)	As' (mm2)	d' (mm)	f'c (MPa)
600	1200	9100	8734	750	3060	50	49

2. Calculo de la Inercia de la seccion fisurada

Posicion del Eje Neutro:

n	n As	(2n-1) As'	Coef a	Coef b	Coef c
6.08	53102.72	34149.6	300	87252.32	-41534520

Solución de la ecuación cuadrática

x1	x2	**Eje Neutro (mm)**
254.07	-544.91	**254.074**

Inercia de la seccion fisurada, Icr (mm4) = **17762700020**

3. Modulo de rotura:

f'c (MPa)	Ec (MPa)	fr (MPa)	yt (mm)
49	32900	4.34	495.93

4. Calculo de la Inercia efectiva

Ig (mm^4)	Icr (mm^4)	Ma (N mm)	Mcr (N mm)	Mcr/Ma	**Ie (mm^4)**
86400000000	1.776E+10	3.221E+09	756112138	0.235	**18650167612**

5. Calculo de la Inercia de la Seccion Completa

Seccion : Rectangular

Ig = 86400000000 mm4

6. Calculo del módulo de elasticidad

E = 32900 MPa

7. Deflexión elástica inmediata

δDL= 9.2 **mm**
δLL= 1.9 **mm**

8. Factor de deflexion adicional a largo plazo

Acero negativo, As' (mm2) = 3060
d (mm) = 750
cuantía negativa, ρ' = 0.0068

Tiempo	**ε**	**λ_Δ**
6 meses	1.2	0.896
1 año	1.4	1.045
5 años	2	1.493

DEFLEXION ESPERADA A LARGO PLAZO

Tiempo	Instantanea	Largo plazo	Total (mm)	**CUMPLE NSR-10**
6 meses	11.1	9.9	21.0	**NO CUMPLE**
1 año	11.1	11.6	22.7	**NO CUMPLE**
5 años	11.1	16.6	27.7	**NO CUMPLE**

DEFLEXIÓN MÁXIMA PERMITIDA NSR-10

Limite de deflexión = 480 *Sistema de entrepiso o cubierta ligado a elementos no estructurales susceptibles a daños*
Luz de la viga = 9100 mm
Deflexión = 19.0 mm

REQUIERE CONTRAFLECHA DE 1 cm

CÁLCULO DE DEFLEXIÓN EN VIGAS

PROYECTO: **UNAL-SGC**
LOCALIZACIÓN: **V503(60x80) Voladizo eje 15**

1. Propiedades de la Seccion

B (mm)	H (mm)	LUZ (mm)	As (mm2)	d (mm)	As' (mm2)	d' (mm)	f'c (MPa)
600	800	4250	7974	750	4080	50	49

2. Calculo de la Inercia de la seccion fisurada

Posicion del Eje Neutro:

n	n As	(2n-1) As'	Coef a	Coef b	Coef c
6.08	48481.92	45532.8	300	94014.72	-38638080

Solución de la ecuación cuadrática

x1	x2	**Eje Neutro (mm)**
234.90	-548.29	**234.903**

Inercia de la seccion fisurada, Icr (mm4) = **17012550084**

3. Modulo de rotura:

f'c (MPa)	Ec (MPa)	fr (MPa)	yt (mm)
49	32900	4.34	515.10

4. Calculo de la Inercia efectiva

Ig (mm^4)	Icr (mm^4)	Ma (N mm)	Mcr (N mm)	Mcr/Ma	**Ie (mm^4)**
25600000000	1.701E+10	1.290E+09	215695144	0.167	**17052671275**

5. Calculo de la Inercia de la Seccion Completa

Seccion : Rectangular

Ig = 25600000000 mm4

6. Calculo del módulo de elasticidad

E = 32900 MPa

7. Deflexión elástica inmediata

δDL= 2.9 **mm**
δLL= 0.5 **mm**

8. Factor de deflexion adicional a largo plazo

di 4080
d (mm) = 750
cuantía negativa, ρ' = 0.0091

Tiempo	**ε**	**λ_Δ**
6 meses	1.2	0.826
1 año	1.4	0.963
5 años	2	1.376

DEFLEXION ESPERADA A LARGO PLAZO

Tiempo	Instantanea	Largo plazo	Total (mm)	**CUMPLE NSR-10**
6 meses	3.4	2.8	6.2	**OK**
1 año	3.4	3.3	6.7	**OK**
5 años	3.4	4.7	8.1	**OK**

DEFLEXIÓN MÁXIMA PERMITIDA NSR-10

Limite de deflexión = 480 *Sistema de entrepiso o cubierta ligado a elementos no estructurales susceptibles a daños*
Luz de la viga = 4250 mm
Deflexión = 8.9 mm

NO REQUIERE CONTRAFLECHA

CÁLCULO DE DEFLEXIÓN EN VIGAS

PROYECTO: **UNAL-SGC**
LOCALIZACIÓN: **V504(50x120) Voladizo eje 8**

1. Propiedades de la Seccion

B (mm)	H (mm)	LUZ (mm)	As (mm2)	d (mm)	As' (mm2)	d' (mm)	f'c (MPa)
500	1200	7950	8391	750	3342	50	49

2. Calculo de la Inercia de la seccion fisurada

Posicion del Eje Neutro:

n	n As	(2n-1) As'	Coef a	Coef b	Coef c
6.08	51017.28	37296.72	250	88314	-40127796

Solución de la ecuación cuadrática

x1	x2	**Eje Neutro (mm)**
261.22	-614.47	**261.217**

Inercia de la seccion fisurada, Icr (mm4) = **16823043432**

3. Modulo de rotura:

f'c (MPa)	Ec (MPa)	fr (MPa)	yt (mm)
49	32900	4.34	488.78

4. Calculo de la Inercia efectiva

Ig (mm^4)	Icr (mm^4)	Ma (N mm)	Mcr (N mm)	Mcr/Ma	**Ie (mm^4)**
72000000000	1.682E+10	2.913E+09	639302686	0.219	**17406499224**

5. Calculo de la Inercia de la Seccion Completa

Seccion : Rectangular

Ig = 72000000000 mm4

6. Calculo del módulo de elasticidad

E = 32900 MPa

7. Deflexión elástica inmediata

δDL= 17.4 **mm**
δLL= 3.5 **mm**

8. Factor de deflexion adicional a largo plazo

di 3342
d (mm) = 750
cuantía negativa, ρ' = 0.0089

Tiempo	**ε**	**λ_Δ**
6 meses	1.2	0.830
1 año	1.4	0.968
5 años	2	1.384

DEFLEXION ESPERADA A LARGO PLAZO

Tiempo	Instantanea	Largo plazo	Total (mm)	**CUMPLE NSR-10**
6 meses	20.9	17.3	38.2	**NO CUMPLE**
1 año	20.9	20.2	41.1	**NO CUMPLE**
5 años	20.9	28.9	49.8	**NO CUMPLE**

DEFLEXIÓN MÁXIMA PERMITIDA NSR-10

Limite de deflexión = 480 *Sistema de entrepiso o cubierta ligado a elementos no estructurales susceptibles a daños*
Luz de la viga = 7950 mm
Deflexión = 16.6 mm

REQUIERE CONTRAFLECHA DE 3.5 cm

CÁLCULO DE DEFLEXIÓN EN VIGAS

PROYECTO: **UNAL-SGC**
LOCALIZACIÓN: **V505(50x80) Voladizo eje 15**

1. Propiedades de la Seccion

B (mm)	H (mm)	LUZ (mm)	As (mm2)	d (mm)	As' (mm2)	d' (mm)	f'c (MPa)
500	800	6000	5382	750	2691	50	49

2. Calculo de la Inercia de la seccion fisurada

Posicion del Eje Neutro:

n	n As	(2n-1) As'	Coef a	Coef b	Coef c
6.08	32722.56	30031.56	250	62754.12	-26043498

Solución de la ecuación cuadrática

x1	x2	**Eje Neutro (mm)**
220.80	-471.81	**220.796**

Inercia de la seccion fisurada, Icr (mm4) = **11834236353**

3. Modulo de rotura:

f'c (MPa)	Ec (MPa)	fr (MPa)	yt (mm)
49	32900	4.34	529.20

4. Calculo de la Inercia efectiva

Ig (mm^4)	Icr (mm^4)	Ma (N mm)	Mcr (N mm)	Mcr/Ma	**Ie (mm^4)**
21333333333	1.183E+10	1.064E+09	174954435	0.164	**11876479354**

5. Calculo de la Inercia de la Seccion Completa

Seccion : Rectangular

Ig = 21333333333 mm4

6. Calculo del módulo de elasticidad

E = 32900 MPa

7. Deflexión elástica inmediata

δDL= 8.9 **mm**
δLL= 1.2 **mm**

8. Factor de deflexion adicional a largo plazo

di 2691
d (mm) = 750
cuantía negativa, ρ' = 0.0072

Tiempo	**ε**	**λ_Δ**
6 meses	1.2	0.883
1 año	1.4	1.030
5 años	2	1.472

DEFLEXION ESPERADA A LARGO PLAZO

Tiempo	Instantanea	Largo plazo	Total (mm)	**CUMPLE NSR-10**
6 meses	10.1	8.9	19.0	**NO CUMPLE**
1 año	10.1	10.4	20.5	**NO CUMPLE**
5 años	10.1	14.9	25.0	**NO CUMPLE**

DEFLEXIÓN MÁXIMA PERMITIDA NSR-10

Limite de deflexión = 480 *Sistema de entrepiso o cubierta ligado a elementos no estructurales susceptibles a daños*
Luz de la viga = 6000 mm
Deflexión = 12.5 mm

REQUIERE CONTRAFLECHA DE 1 cm

CÁLCULO DE DEFLEXIÓN EN VIGAS

PROYECTO: **UNAL-SGC**
LOCALIZACIÓN: **V506(60x80) Voladizo eje A**

1. Propiedades de la Seccion

B (mm)	H (mm)	LUZ (mm)	As (mm2)	d (mm)	As' (mm2)	d' (mm)	f'c (MPa)
600	800	4400	5100	750	1988	50	49

2. Calculo de la Inercia de la seccion fisurada

Posicion del Eje Neutro:

n	n As	(2n-1) As'	Coef a	Coef b	Coef c
6.08	31008	22186.08	300	53194.08	-24365304

Solución de la ecuación cuadrática

x1	x2	**Eje Neutro (mm)**
209.80	-387.12	**209.802**

Inercia de la seccion fisurada, Icr (mm4) = **11462089432**

3. Modulo de rotura:

f'c (MPa)	Ec (MPa)	fr (MPa)	yt (mm)
49	32900	4.34	540.20

4. Calculo de la Inercia efectiva

Ig (mm^4)	Icr (mm^4)	Ma (N mm)	Mcr (N mm)	Mcr/Ma	**Ie (mm^4)**
25600000000	1.146E+10	1.346E+09	205672769	0.153	**11512534551**

5. Calculo de la Inercia de la Seccion Completa

Seccion : Rectangular

Ig = 25600000000 mm4

6. Calculo del módulo de elasticidad

E = 32900 MPa

7. Deflexión elástica inmediata

δDL= 6.4 **mm**
δLL= 1.6 **mm**

8. Factor de deflexion adicional a largo plazo

di 1988
d (mm) = 750
cuantía negativa, ρ' = 0.0044

Tiempo	**ε**	**λ_Δ**
6 meses	1.2	0.983
1 año	1.4	1.147
5 años	2	1.638

DEFLEXION ESPERADA A LARGO PLAZO

Tiempo	Instantanea	Largo plazo	Total (mm)	**CUMPLE NSR-10**
6 meses	8	7.9	15.9	**NO CUMPLE**
1 año	8	9.2	17.2	**NO CUMPLE**
5 años	8	13.1	21.1	**NO CUMPLE**

DEFLEXIÓN MÁXIMA PERMITIDA NSR-10

Limite de deflexión = 480 *Sistema de entrepiso o cubierta ligado a elementos no estructurales susceptibles a daños*
Luz de la viga = 4400 mm
Deflexión = 9.2 mm

REQUIERE CONTRAFLECHA DE 1 cm

CÁLCULO DE DEFLEXIÓN EN VIGAS

PROYECTO: **UNAL-SGC**
LOCALIZACIÓN: **V509(50x80) Voladizo escalera**

1. Propiedades de la Seccion

B (mm)	H (mm)	LUZ (mm)	As (mm2)	d (mm)	As' (mm2)	d' (mm)	f'c (MPa)
500	800	6100	3601	750	1420	50	49

2. Calculo de la Inercia de la seccion fisurada

Posicion del Eje Neutro:

n	n As	(2n-1) As'	Coef a	Coef b	Coef c
6.08	21894.08	15847.2	250	37741.28	-17212920

Solución de la ecuación cuadrática

x1	x2	**Eje Neutro (mm)**
197.55	-348.52	**197.555**

Inercia de la seccion fisurada, Icr (mm4) = **8312035725**

3. Modulo de rotura:

f'c (MPa)	Ec (MPa)	fr (MPa)	yt (mm)
49	32900	4.34	552.45

4. Calculo de la Inercia efectiva

Ig (mm^4)	Icr (mm^4)	Ma (N mm)	Mcr (N mm)	Mcr/Ma	**Ie (mm^4)**
21333333333	8.312E+09	7.282E+08	167594243	0.230	**8470786302**

5. Calculo de la Inercia de la Seccion Completa

Seccion : Rectangular

Ig = 21333333333 mm4

6. Calculo del módulo de elasticidad

E = 32900 MPa

7. Deflexión elástica inmediata

δDL= 9.5 **mm**
δLL= 4.7 **mm**

8. Factor de deflexion adicional a largo plazo

di 1420
d (mm) = 750
cuantía negativa, ρ' = 0.0038

Tiempo	**ε**	**λ_Δ**
6 meses	1.2	1.009
1 año	1.4	1.177
5 años	2	1.682

DEFLEXION ESPERADA A LARGO PLAZO

Tiempo	Instantanea	Largo plazo	Total (mm)	**CUMPLE NSR-10**
6 meses	14.2	14.3	28.5	**NO CUMPLE**
1 año	14.2	16.7	30.9	**NO CUMPLE**
5 años	14.2	23.9	38.1	**NO CUMPLE**

DEFLEXIÓN MÁXIMA PERMITIDA NSR-10

Limite de deflexión = 480 *Sistema de entrepiso o cubierta ligado a elementos no estructurales susceptibles a daños*
Luz de la viga = 6100 mm
Deflexión = 12.7 mm

REQUIERE CONTRAFLECHA DE 2.5 cm

CÁLCULO DE DEFLEXIÓN EN VIGAS

PROYECTO: **UNAL-SGC**
LOCALIZACIÓN: **V600(50x80) Voladizo eje 2**

1. Propiedades de la Seccion

B (mm)	H (mm)	LUZ (mm)	As (mm2)	d (mm)	As' (mm2)	d' (mm)	f'c (MPa)
500	800	5650	6537	750	2702	50	49

2. Calculo de la Inercia de la seccion fisurada

Posicion del Eje Neutro:

n	n As	(2n-1) As'	Coef a	Coef b	Coef c
6.08	39744.96	30154.32	250	69899.28	-31316436

Solución de la ecuación cuadrática

x1	x2	**Eje Neutro (mm)**
240.74	-520.34	**240.740**

Inercia de la seccion fisurada, Icr (mm4) = **13730131003**

3. Modulo de rotura:

f'c (MPa)	Ec (MPa)	fr (MPa)	yt (mm)
49	32900	4.34	509.26

4. Calculo de la Inercia efectiva

Ig (mm^4)	Icr (mm^4)	Ma (N mm)	Mcr (N mm)	Mcr/Ma	**Ie (mm^4)**
21333333333	1.373E+10	1.546E+09	181806181	0.118	**13742499120**

5. Calculo de la Inercia de la Seccion Completa

Seccion : Rectangular

Ig = 21333333333 mm4

6. Calculo del módulo de elasticidad

E = 32900 MPa

7. Deflexión elástica inmediata

δDL= 14.3 **mm**
δLL= 2.1 **mm**

8. Factor de deflexion adicional a largo plazo

di 2702
d (mm) = 750
cuantía negativa, ρ' = 0.0072

Tiempo	**ε**	**λ_Δ**
6 meses	1.2	0.882
1 año	1.4	1.029
5 años	2	1.470

DEFLEXION ESPERADA A LARGO PLAZO

Tiempo	Instantanea	Largo plazo	Total (mm)	**CUMPLE NSR-10**
6 meses	16.4	14.5	30.9	**NO CUMPLE**
1 año	16.4	16.9	33.3	**NO CUMPLE**
5 años	16.4	24.1	40.5	**NO CUMPLE**

DEFLEXIÓN MÁXIMA PERMITIDA NSR-10

Limite de deflexión = 480 *Sistema de entrepiso o cubierta ligado a elementos no estructurales susceptibles a daños*
Luz de la viga = 5650 mm
Deflexión = 11.8 mm

REQUIERE CONTRAFLECHA DE 3 cm

CÁLCULO DE DEFLEXIÓN EN VIGAS

PROYECTO: **UNAL-SGC**
LOCALIZACIÓN: **V601(60x80) Voladizo eje 2**

1. Propiedades de la Seccion

B (mm)	H (mm)	LUZ (mm)	As (mm2)	d (mm)	As' (mm2)	d' (mm)	f'c (MPa)
600	800	5600	7356	750	3149	50	49

2. Calculo de la Inercia de la seccion fisurada

Posicion del Eje Neutro:

n	n As	(2n-1) As'	Coef a	Coef b	Coef c
6.08	44724.48	35142.84	300	79867.32	-35300502

Solución de la ecuación cuadrática

x1	x2	**Eje Neutro (mm)**
234.84	-501.06	**234.838**

Inercia de la seccion fisurada, Icr (mm4) = **15660383097**

3. Modulo de rotura:

f'c (MPa)	Ec (MPa)	fr (MPa)	yt (mm)
49	32900	4.34	515.16

4. Calculo de la Inercia efectiva

Ig (mm^4)	Icr (mm^4)	Ma (N mm)	Mcr (N mm)	Mcr/Ma	**Ie (mm^4)**
25600000000	1.566E+10	1.851E+09	215667995	0.117	**15676114518**

5. Calculo de la Inercia de la Seccion Completa

Seccion : Rectangular

Ig = 25600000000 mm4

6. Calculo del módulo de elasticidad

E = 32900 MPa

7. Deflexión elástica inmediata

δDL= 8.4 **mm**
δLL= 1.6 **mm**

8. Factor de deflexion adicional a largo plazo

di 3149
d (mm) = 750
cuantía negativa, ρ' = 0.0070

Tiempo	**ε**	**λ_Δ**
6 meses	1.2	0.889
1 año	1.4	1.037
5 años	2	1.482

DEFLEXION ESPERADA A LARGO PLAZO

Tiempo	Instantanea	Largo plazo	Total (mm)	**CUMPLE NSR-10**
6 meses	10	8.9	18.9	**NO CUMPLE**
1 año	10	10.4	20.4	**NO CUMPLE**
5 años	10	14.8	24.8	**NO CUMPLE**

DEFLEXIÓN MÁXIMA PERMITIDA NSR-10

Limite de deflexión = 480 *Sistema de entrepiso o cubierta ligado a elementos no estructurales susceptibles a daños*
Luz de la viga = 5600 mm
Deflexión = 11.7 mm

REQUIERE CONTRAFLECHA DE 1.5 cm

CÁLCULO DE DEFLEXIÓN EN VIGAS

PROYECTO: **UNAL-SGC**
LOCALIZACIÓN: **V601(60x80) Voladizo eje 7**

1. Propiedades de la Seccion

B (mm)	H (mm)	LUZ (mm)	As (mm2)	d (mm)	As' (mm2)	d' (mm)	f'c (MPa)
600	800	6250	6741	750	31.49	50	49

2. Calculo de la Inercia de la seccion fisurada

Posicion del Eje Neutro:

n	n As	(2n-1) As'	Coef a	Coef b	Coef c
6.08	40985.28	351.4284	300	41336.7084	-30756531.4

Solución de la ecuación cuadrática

x1	x2	**Eje Neutro (mm)**
258.62	-396.41	**258.624**

Inercia de la seccion fisurada, Icr (mm4) = **13370891005**

3. Modulo de rotura:

f'c (MPa)	Ec (MPa)	fr (MPa)	yt (mm)
49	32900	4.34	491.38

4. Calculo de la Inercia efectiva

Ig (mm^4)	Icr (mm^4)	Ma (N mm)	Mcr (N mm)	Mcr/Ma	**Ie (mm^4)**
25600000000	1.337E+10	1.638E+09	226107803	0.138	**13403039539**

5. Calculo de la Inercia de la Seccion Completa

Seccion : Rectangular

Ig = 25600000000 mm4

6. Calculo del módulo de elasticidad

E = 32900 MPa

7. Deflexión elástica inmediata

δDL= 2.1 **mm**
δLL= 0.3 **mm**

8. Factor de deflexion adicional a largo plazo

di 31.49
d (mm) = 750
cuantía negativa, ρ' = 0.0001

Tiempo	**ε**	**λ_Δ**
6 meses	1.2	1.196
1 año	1.4	1.395
5 años	2	1.993

DEFLEXION ESPERADA A LARGO PLAZO

Tiempo	Instantanea	Largo plazo	Total (mm)	**CUMPLE NSR-10**
6 meses	2.4	2.9	5.3	**OK**
1 año	2.4	3.3	5.7	**OK**
5 años	2.4	4.8	7.2	**OK**

DEFLEXIÓN MÁXIMA PERMITIDA NSR-10

Limite de deflexión = 480 *Sistema de entrepiso o cubierta ligado a elementos no estructurales susceptibles a daños*
Luz de la viga = 6250 mm
Deflexión = 13.0 mm

NO REQUIERE CONTRAFLECHA

CÁLCULO DE DEFLEXIÓN EN VIGAS

PROYECTO: **UNAL-SGC**
LOCALIZACIÓN: **V602(60x120) Voladizo eje 8**

1. Propiedades de la Seccion

B (mm)	H (mm)	LUZ (mm)	As (mm2)	d (mm)	As' (mm2)	d' (mm)	f'c (MPa)
600	1200	9100	11466	750	5517	50	49

2. Calculo de la Inercia de la seccion fisurada

Posicion del Eje Neutro:

n	n As	(2n-1) As'	Coef a	Coef b	Coef c
6.08	69713.28	61569.72	300	131283	-55363446

Solución de la ecuación cuadrática

x1	x2	**Eje Neutro (mm)**
263.30	-700.91	**263.295**

Inercia de la seccion fisurada, Icr (mm4) = **22965449757**

3. Modulo de rotura:

f'c (MPa)	Ec (MPa)	fr (MPa)	yt (mm)
49	32900	4.34	486.70

4. Calculo de la Inercia efectiva

Ig (mm^4)	Icr (mm^4)	Ma (N mm)	Mcr (N mm)	Mcr/Ma	**Ie (mm^4)**
86400000000	2.297E+10	4.255E+09	770438007	0.181	**23341890276**

5. Calculo de la Inercia de la Seccion Completa

Seccion : Rectangular

Ig = 86400000000 mm4

6. Calculo del módulo de elasticidad

E = 32900 MPa

7. Deflexión elástica inmediata

δDL= 26.44 **mm**
δLL= 4.5 **mm**

8. Factor de deflexion adicional a largo plazo

Acero negativo, As' (mm2) = 5517
d (mm) = 750
cuantía negativa, ρ' = 0.0123

Tiempo	**ε**	**λ_Δ**
6 meses	1.2	0.744
1 año	1.4	0.868
5 años	2	1.240

DEFLEXION ESPERADA A LARGO PLAZO

Tiempo	Instantanea	Largo plazo	Total (mm)	**CUMPLE NSR-10**
6 meses	30.94	23.0	54.0	**NO CUMPLE**
1 año	30.94	26.9	57.8	**NO CUMPLE**
5 años	30.94	38.4	69.3	**NO CUMPLE**

DEFLEXIÓN MÁXIMA PERMITIDA NSR-10

Limite de deflexión = 480 *Sistema de entrepiso o cubierta ligado a elementos no estructurales susceptibles a daños*
Luz de la viga = 9100 mm
Deflexión = 19.0 mm

REQUIERE CONTRAFLECHA DE 5 cm

CÁLCULO DE DEFLEXIÓN EN VIGAS

PROYECTO: **UNAL-SGC**
LOCALIZACIÓN: **V603(60x80) Voladizo eje 15**

1. Propiedades de la Seccion

B (mm)	H (mm)	LUZ (mm)	As (mm2)	d (mm)	As' (mm2)	d' (mm)	f'c (MPa)
600	800	4250	7464	750	4080	50	49

2. Calculo de la Inercia de la seccion fisurada

Posicion del Eje Neutro:

n	n As	(2n-1) As'	Coef a	Coef b	Coef c
6.08	45381.12	45532.8	300	90913.92	-36312480

Solución de la ecuación cuadrática

x1	x2	**Eje Neutro (mm)**
227.95	-531.00	**227.951**

Inercia de la seccion fisurada, Icr (mm4) = **16178760197**

3. Modulo de rotura:

f'c (MPa)	Ec (MPa)	fr (MPa)	yt (mm)
49	32900	4.34	522.05

4. Calculo de la Inercia efectiva

Ig (mm^4)	Icr (mm^4)	Ma (N mm)	Mcr (N mm)	Mcr/Ma	**Ie (mm^4)**
25600000000	1.618E+10	1.299E+09	212823048	0.164	**16220176000**

5. Calculo de la Inercia de la Seccion Completa

Seccion : Rectangular

Ig = 25600000000 mm4

6. Calculo del módulo de elasticidad

E = 32900 MPa

7. Deflexión elástica inmediata

δDL= 2.8 **mm**
δLL= 0.5 **mm**

8. Factor de deflexion adicional a largo plazo

di 4080
d (mm) = 750
cuantía negativa, ρ' = 0.0091

Tiempo	**ε**	**λ_Δ**
6 meses	1.2	0.826
1 año	1.4	0.963
5 años	2	1.376

DEFLEXION ESPERADA A LARGO PLAZO

Tiempo	Instantanea	Largo plazo	Total (mm)	**CUMPLE NSR-10**
6 meses	3.3	2.7	6.0	**OK**
1 año	3.3	3.2	6.5	**OK**
5 años	3.3	4.5	7.8	**OK**

DEFLEXIÓN MÁXIMA PERMITIDA NSR-10

Limite de deflexión = 480 *Sistema de entrepiso o cubierta ligado a elementos no estructurales susceptibles a daños*
Luz de la viga = 4250 mm
Deflexión = 8.9 mm

NO REQUIERE CONTRAFLECHA

CÁLCULO DE DEFLEXIÓN EN VIGAS

PROYECTO: **UNAL-SGC**
LOCALIZACIÓN: **V604(50x120) Voladizo eje 8**

1. Propiedades de la Seccion

B (mm)	H (mm)	LUZ (mm)	As (mm2)	d (mm)	As' (mm2)	d' (mm)	f'c (MPa)
500	1200	7950	9009	750	3342	50	49

2. Calculo de la Inercia de la seccion fisurada

Posicion del Eje Neutro:

n	n As	(2n-1) As'	Coef a	Coef b	Coef c
6.08	54774.72	37296.72	250	92071.44	-42945876

Solución de la ecuación cuadrática

x1	x2	**Eje Neutro (mm)**
269.39	-637.68	**269.390**

Inercia de la seccion fisurada, Icr (mm4) = **17705672328**

3. Modulo de rotura:

f'c (MPa)	Ec (MPa)	fr (MPa)	yt (mm)
49	32900	4.34	480.61

4. Calculo de la Inercia efectiva

Ig (mm^4)	Icr (mm^4)	Ma (N mm)	Mcr (N mm)	Mcr/Ma	**Ie (mm^4)**
72000000000	1.771E+10	3.166E+09	650173784	0.205	**18175826325**

5. Calculo de la Inercia de la Seccion Completa

Seccion : Rectangular

Ig = 72000000000 mm4

6. Calculo del módulo de elasticidad

E = 32900 MPa

7. Deflexión elástica inmediata

δDL= 23.2 **mm**
δLL= 3.9 **mm**

8. Factor de deflexion adicional a largo plazo

di 3342
d (mm) = 750
cuantía negativa, ρ' = 0.0089

Tiempo	**ε**	**λ_Δ**
6 meses	1.2	0.830
1 año	1.4	0.968
5 años	2	1.384

DEFLEXION ESPERADA A LARGO PLAZO

Tiempo	Instantanea	Largo plazo	Total (mm)	**CUMPLE NSR-10**
6 meses	27.1	22.5	49.6	**NO CUMPLE**
1 año	27.1	26.2	53.3	**NO CUMPLE**
5 años	27.1	37.5	64.6	**NO CUMPLE**

DEFLEXIÓN MÁXIMA PERMITIDA NSR-10

Limite de deflexión = 480 *Sistema de entrepiso o cubierta ligado a elementos no estructurales susceptibles a daños*
Luz de la viga = 7950 mm
Deflexión = 16.6 mm

REQUIERE CONTRAFLECHA DE 5 cm

CÁLCULO DE DEFLEXIÓN EN VIGAS

PROYECTO: **UNAL-SGC**
LOCALIZACIÓN: **V604(50x80) Voladizo eje 9**

1. Propiedades de la Seccion

B (mm)	H (mm)	LUZ (mm)	As (mm2)	d (mm)	As' (mm2)	d' (mm)	f'c (MPa)
500	800	5300	5382	750	2787	50	49

2. Calculo de la Inercia de la seccion fisurada

Posicion del Eje Neutro:

n	n As	(2n-1) As'	Coef a	Coef b	Coef c
6.08	32722.56	31102.92	250	63825.48	-26097066

Solución de la ecuación cuadrática

x1	x2	**Eje Neutro (mm)**
219.74	-475.05	**219.744**

Inercia de la seccion fisurada, Icr (mm4) = **11865296743**

3. Modulo de rotura:

f'c (MPa)	Ec (MPa)	fr (MPa)	yt (mm)
49	32900	4.34	530.26

4. Calculo de la Inercia efectiva

Ig (mm^4)	Icr (mm^4)	Ma (N mm)	Mcr (N mm)	Mcr/Ma	**Ie (mm^4)**
21333333333	1.187E+10	1.202E+09	174607378	0.145	**11894288807**

5. Calculo de la Inercia de la Seccion Completa

Seccion : Rectangular

Ig = 21333333333 mm4

6. Calculo del módulo de elasticidad

E = 32900 MPa

7. Deflexión elástica inmediata

δDL= 4.1 **mm**
δLL= 0.6 **mm**

8. Factor de deflexion adicional a largo plazo

di 2787
d (mm) = 750
cuantía negativa, ρ' = 0.0074

Tiempo	**ε**	**λ_Δ**
6 meses	1.2	0.875
1 año	1.4	1.021
5 años	2	1.458

DEFLEXION ESPERADA A LARGO PLAZO

Tiempo	Instantanea	Largo plazo	Total (mm)	**CUMPLE NSR-10**
6 meses	4.7	4.1	8.8	**OK**
1 año	4.7	4.8	9.5	**OK**
5 años	4.7	6.9	11.6	**NO CUMPLE**

DEFLEXIÓN MÁXIMA PERMITIDA NSR-10

Limite de deflexión = 480 *Sistema de entrepiso o cubierta ligado a elementos no estructurales susceptibles a daños*
Luz de la viga = 5300 mm
Deflexión = 11.0 mm

REQUIERE CONTRAFLECHA DE 0 cm

CÁLCULO DE DEFLEXIÓN EN VIGAS

PROYECTO: **UNAL-SGC**
LOCALIZACIÓN: **V605(50x80) Voladizo eje 15**

1. Propiedades de la Seccion

B (mm)	H (mm)	LUZ (mm)	As (mm2)	d (mm)	As' (mm2)	d' (mm)	f'c (MPa)
500	800	6000	6741	750	2013	50	49

2. Calculo de la Inercia de la seccion fisurada

Posicion del Eje Neutro:

n	n As	(2n-1) As'	Coef a	Coef b	Coef c
6.08	40985.28	22465.08	250	63450.36	-31862214

Solución de la ecuación cuadrática

x1	x2	**Eje Neutro (mm)**
251.98	-505.78	**251.983**

Inercia de la seccion fisurada, Icr (mm4) = **13748346449**

3. Modulo de rotura:

f'c (MPa)	Ec (MPa)	fr (MPa)	yt (mm)
49	32900	4.34	498.02

4. Calculo de la Inercia efectiva

Ig (mm^4)	Icr (mm^4)	Ma (N mm)	Mcr (N mm)	Mcr/Ma	**Ie (mm^4)**
21333333333	1.375E+10	1.043E+09	185910544	0.178	**13791341035**

5. Calculo de la Inercia de la Seccion Completa

Seccion : Rectangular

Ig = 21333333333 mm4

6. Calculo del módulo de elasticidad

E = 32900 MPa

7. Deflexión elástica inmediata

δDL= 8.8 **mm**
δLL= 1.2 **mm**

8. Factor de deflexion adicional a largo plazo

di 2013
d (mm) = 750
cuantía negativa, ρ' = 0.0054

Tiempo	**ε**	**λ_Δ**
6 meses	1.2	0.946
1 año	1.4	1.104
5 años	2	1.577

DEFLEXION ESPERADA A LARGO PLAZO

Tiempo	Instantanea	Largo plazo	Total (mm)	**CUMPLE NSR-10**
6 meses	10	9.5	19.5	**NO CUMPLE**
1 año	10	11.0	21.0	**NO CUMPLE**
5 años	10	15.8	25.8	**NO CUMPLE**

DEFLEXIÓN MÁXIMA PERMITIDA NSR-10

Limite de deflexión = 480 *Sistema de entrepiso o cubierta ligado a elementos no estructurales susceptibles a daños*
Luz de la viga = 6000 mm
Deflexión = 12.5 mm

REQUIERE CONTRAFLECHA DE 1.5 cm

CÁLCULO DE DEFLEXIÓN EN VIGAS

PROYECTO: **UNAL-SGC**
LOCALIZACIÓN: **V605(50x80) Voladizo eje 11**

1. Propiedades de la Seccion

B (mm)	H (mm)	LUZ (mm)	As (mm2)	d (mm)	As' (mm2)	d' (mm)	f'c (MPa)
500	800	5300	5505	750	2013	50	49

2. Calculo de la Inercia de la seccion fisurada

Posicion del Eje Neutro:

n	n As	(2n-1) As'	Coef a	Coef b	Coef c
6.08	33470.4	22465.08	250	55935.48	-26226054

Solución de la ecuación cuadrática

x1	x2	**Eje Neutro (mm)**
230.79	-454.54	**230.794**

Inercia de la seccion fisurada, Icr (mm4) = **11805990134**

3. Modulo de rotura:

f'c (MPa)	Ec (MPa)	fr (MPa)	yt (mm)
49	32900	4.34	519.21

4. Calculo de la Inercia efectiva

Ig (mm^4)	Icr (mm^4)	Ma (N mm)	Mcr (N mm)	Mcr/Ma	**Ie (mm^4)**
21333333333	1.181E+10	8.027E+08	178323595	0.222	**11910451255**

5. Calculo de la Inercia de la Seccion Completa

Seccion : Rectangular

Ig = 21333333333 mm4

6. Calculo del módulo de elasticidad

E = 32900 MPa

7. Deflexión elástica inmediata

δDL= 7.3 **mm**
δLL= 0.7 **mm**

8. Factor de deflexion adicional a largo plazo

di 2013
d (mm) = 750
cuantía negativa, ρ' = 0.0054

Tiempo	**ε**	**λ_Δ**
6 meses	1.2	0.946
1 año	1.4	1.104
5 años	2	1.577

DEFLEXION ESPERADA A LARGO PLAZO

Tiempo	Instantanea	Largo plazo	Total (mm)	**CUMPLE NSR-10**
6 meses	8	7.6	15.6	**NO CUMPLE**
1 año	8	8.8	16.8	**NO CUMPLE**
5 años	8	12.6	20.6	**NO CUMPLE**

DEFLEXIÓN MÁXIMA PERMITIDA NSR-10

Limite de deflexión = 480 *Sistema de entrepiso o cubierta ligado a elementos no estructurales susceptibles a daños*
Luz de la viga = 5300 mm
Deflexión = 11.0 mm

REQUIERE CONTRAFLECHA DE 1 cm

CÁLCULO DE DEFLEXIÓN EN VIGAS

PROYECTO: **UNAL-SGC**
LOCALIZACIÓN: **V700(50x80) Voladizo eje 2**

1. Propiedades de la Seccion

B (mm)	H (mm)	LUZ (mm)	As (mm2)	d (mm)	As' (mm2)	d' (mm)	f'c (MPa)
500	800	5650	6120	750	2805	50	49

2. Calculo de la Inercia de la seccion fisurada

Posicion del Eje Neutro:

n	n As	(2n-1) As'	Coef a	Coef b	Coef c
6.08	37209.6	31303.8	250	68513.4	-29472390

Solución de la ecuación cuadrática

x1	x2	**Eje Neutro (mm)**
232.66	-506.71	**232.657**

Inercia de la seccion fisurada, Icr (mm4) = **13102250777**

3. Modulo de rotura:

f'c (MPa)	Ec (MPa)	fr (MPa)	yt (mm)
49	32900	4.34	517.34

4. Calculo de la Inercia efectiva

Ig (mm^4)	Icr (mm^4)	Ma (N mm)	Mcr (N mm)	Mcr/Ma	**Ie (mm^4)**
21333333333	1.310E+10	1.466E+09	178965631	0.122	**13117210672**

5. Calculo de la Inercia de la Seccion Completa

Seccion : Rectangular

Ig = 21333333333 mm4

6. Calculo del módulo de elasticidad

E = 32900 MPa

7. Deflexión elástica inmediata

δDL= 13.5 **mm**
δLL= 2.1 **mm**

8. Factor de deflexion adicional a largo plazo

di 2805
d (mm) = 750
cuantía negativa, ρ' = 0.0075

Tiempo	**ε**	**λ_Δ**
6 meses	1.2	0.873
1 año	1.4	1.019
5 años	2	1.456

DEFLEXION ESPERADA A LARGO PLAZO

Tiempo	Instantanea	Largo plazo	Total (mm)	**CUMPLE NSR-10**
6 meses	15.6	13.6	29.2	**NO CUMPLE**
1 año	15.6	15.9	31.5	**NO CUMPLE**
5 años	15.6	22.7	38.3	**NO CUMPLE**

DEFLEXIÓN MÁXIMA PERMITIDA NSR-10

Limite de deflexión = 480 *Sistema de entrepiso o cubierta ligado a elementos no estructurales susceptibles a daños*
Luz de la viga = 5650 mm
Deflexión = 11.8 mm

REQUIERE CONTRAFLECHA DE 2.5 cm

CÁLCULO DE DEFLEXIÓN EN VIGAS

PROYECTO: **UNAL-SGC**
LOCALIZACIÓN: **V700(50x80) Voladizo eje 6**

1. Propiedades de la Seccion

B (mm)	H (mm)	LUZ (mm)	As (mm2)	d (mm)	As' (mm2)	d' (mm)	f'c (MPa)
500	800	5600	5505	750	1928	50	49

2. Calculo de la Inercia de la seccion fisurada

Posicion del Eje Neutro:

n	n As	(2n-1) As'	Coef a	Coef b	Coef c
6.08	33470.4	21516.48	250	54986.88	-26178624

Solución de la ecuación cuadrática

x1	x2	**Eje Neutro (mm)**
231.80	-451.75	**231.799**

Inercia de la seccion fisurada, Icr (mm4) = **11774811265**

3. Modulo de rotura:

f'c (MPa)	Ec (MPa)	fr (MPa)	yt (mm)
49	32900	4.34	518.20

4. Calculo de la Inercia efectiva

Ig (mm^4)	Icr (mm^4)	Ma (N mm)	Mcr (N mm)	Mcr/Ma	**Ie (mm^4)**
21333333333	1.177E+10	1.424E+09	178669462	0.125	**11793698056**

5. Calculo de la Inercia de la Seccion Completa

Seccion : Rectangular

Ig = 21333333333 mm4

6. Calculo del módulo de elasticidad

E = 32900 MPa

7. Deflexión elástica inmediata

δDL= 11.2 **mm**
δLL= 1.5 **mm**

8. Factor de deflexion adicional a largo plazo

di 1928
d (mm) = 750
cuantía negativa, ρ' = 0.0051

Tiempo	**ε**	**λ_Δ**
6 meses	1.2	0.955
1 año	1.4	1.114
5 años	2	1.591

DEFLEXION ESPERADA A LARGO PLAZO

Tiempo	Instantanea	Largo plazo	Total (mm)	**CUMPLE NSR-10**
6 meses	12.7	12.1	24.8	**NO CUMPLE**
1 año	12.7	14.1	26.8	**NO CUMPLE**
5 años	12.7	20.2	32.9	**NO CUMPLE**

DEFLEXIÓN MÁXIMA PERMITIDA NSR-10

Limite de deflexión = 480 *Sistema de entrepiso o cubierta ligado a elementos no estructurales susceptibles a daños*
Luz de la viga = 5600 mm
Deflexión = 11.7 mm

REQUIERE CONTRAFLECHA DE 2 cm

CÁLCULO DE DEFLEXIÓN EN VIGAS

PROYECTO: **UNAL-SGC**
LOCALIZACIÓN: **V701(50x80) Voladizo eje 2**

1. Propiedades de la Seccion

B (mm)	H (mm)	LUZ (mm)	As (mm2)	d (mm)	As' (mm2)	d' (mm)	f'c (MPa)
500	800	5600	7356	750	2707	50	49

2. Calculo de la Inercia de la seccion fisurada

Posicion del Eje Neutro:

n	n As	(2n-1) As'	Coef a	Coef b	Coef c
6.08	44724.48	30210.12	250	74934.6	-35053866

Solución de la ecuación cuadrática

x1	x2	**Eje Neutro (mm)**
253.46	-553.20	**253.462**

Inercia de la seccion fisurada, Icr (mm4) = **14991281012**

3. Modulo de rotura:

f'c (MPa)	Ec (MPa)	fr (MPa)	yt (mm)
49	32900	4.34	496.54

4. Calculo de la Inercia efectiva

Ig (mm^4)	Icr (mm^4)	Ma (N mm)	Mcr (N mm)	Mcr/Ma	**Ie (mm^4)**
21333333333	1.499E+10	1.517E+09	186464499	0.123	**15003052221**

5. Calculo de la Inercia de la Seccion Completa

Seccion : Rectangular

Ig = 21333333333 mm4

6. Calculo del módulo de elasticidad

E = 32900 MPa

7. Deflexión elástica inmediata

δDL= 8.6 **mm**
δLL= 1.6 **mm**

8. Factor de deflexion adicional a largo plazo

di 2707
d (mm) = 750
cuantía negativa, ρ' = 0.0072

Tiempo	**ε**	**λ_Δ**
6 meses	1.2	0.882
1 año	1.4	1.029
5 años	2	1.470

DEFLEXION ESPERADA A LARGO PLAZO

Tiempo	Instantanea	Largo plazo	Total (mm)	**CUMPLE NSR-10**
6 meses	10.2	9.0	19.2	**NO CUMPLE**
1 año	10.2	10.5	20.7	**NO CUMPLE**
5 años	10.2	15.0	25.2	**NO CUMPLE**

DEFLEXIÓN MÁXIMA PERMITIDA NSR-10

Limite de deflexión = 480 *Sistema de entrepiso o cubierta ligado a elementos no estructurales susceptibles a daños*
Luz de la viga = 5600 mm
Deflexión = 11.7 mm

REQUIERE CONTRAFLECHA DE 1.5 cm

CÁLCULO DE DEFLEXIÓN EN VIGAS

PROYECTO: **UNAL-SGC**
LOCALIZACIÓN: **V702(60x120) Voladizo eje 8**

1. Propiedades de la Seccion

B (mm)	H (mm)	LUZ (mm)	As (mm2)	d (mm)	As' (mm2)	d' (mm)	f'c (MPa)
600	1200	9100	11466	750	5517	50	49

2. Calculo de la Inercia de la seccion fisurada

Posicion del Eje Neutro:

n	n As	(2n-1) As'	Coef a	Coef b	Coef c
6.08	69713.28	61569.72	300	131283	-55363446

Solución de la ecuación cuadrática

x1	x2	**Eje Neutro (mm)**
263.30	-700.91	**263.295**

Inercia de la seccion fisurada, Icr (mm4) = **22965449757**

3. Modulo de rotura:

f'c (MPa)	Ec (MPa)	fr (MPa)	yt (mm)
49	32900	4.34	486.70

4. Calculo de la Inercia efectiva

Ig (mm^4)	Icr (mm^4)	Ma (N mm)	Mcr (N mm)	Mcr/Ma	**Ie (mm^4)**
86400000000	2.297E+10	4.428E+09	770438007	0.174	**23299557624**

5. Calculo de la Inercia de la Seccion Completa

Seccion : Rectangular

Ig = 86400000000 mm4

6. Calculo del módulo de elasticidad

E = 32900 MPa

7. Deflexión elástica inmediata

δDL= 26.5 **mm**
δLL= 4.5 **mm**

8. Factor de deflexion adicional a largo plazo

Acero negativo, As' (mm2) = 5517
d (mm) = 750
cuantía negativa, ρ' = 0.0123

Tiempo	**ε**	**λ_Δ**
6 meses	1.2	0.744
1 año	1.4	0.868
5 años	2	1.240

DEFLEXION ESPERADA A LARGO PLAZO

Tiempo	Instantanea	Largo plazo	Total (mm)	**CUMPLE NSR-10**
6 meses	31	23.1	54.1	**NO CUMPLE**
1 año	31	26.9	57.9	**NO CUMPLE**
5 años	31	38.4	69.4	**NO CUMPLE**

DEFLEXIÓN MÁXIMA PERMITIDA NSR-10

Limite de deflexión = 480 *Sistema de entrepiso o cubierta ligado a elementos no estructurales susceptibles a daños*
Luz de la viga = 9100 mm
Deflexión = 19.0 mm

REQUIERE CONTRAFLECHA DE 5 cm

CÁLCULO DE DEFLEXIÓN EN VIGAS

PROYECTO: **UNAL-SGC**
LOCALIZACIÓN: **V704(60x80) Voladizo eje 15**

1. Propiedades de la Seccion

B (mm)	H (mm)	LUZ (mm)	As (mm2)	d (mm)	As' (mm2)	d' (mm)	f'c (MPa)
600	800	4250	4080	750	6552	50	49

2. Calculo de la Inercia de la seccion fisurada

Posicion del Eje Neutro:

n	n As	(2n-1) As'	Coef a	Coef b	Coef c
6.08	24806.4	73120.32	300	97926.72	-22260816

Solución de la ecuación cuadrática

x1	x2	**Eje Neutro (mm)**
154.34	-480.77	**154.343**

Inercia de la seccion fisurada, Icr (mm4) = **10332929967**

3. Modulo de rotura:

f'c (MPa)	Ec (MPa)	fr (MPa)	yt (mm)
49	32900	4.34	595.66

4. Calculo de la Inercia efectiva

Ig (mm^4)	Icr (mm^4)	Ma (N mm)	Mcr (N mm)	Mcr/Ma	**Ie (mm^4)**
25600000000	1.033E+10	1.068E+09	186523426	0.175	**10414235500**

5. Calculo de la Inercia de la Seccion Completa

Seccion : Rectangular

Ig = 25600000000 mm4

6. Calculo del módulo de elasticidad

E = 32900 MPa

7. Deflexión elástica inmediata

δDL= 2.8 **mm**
δLL= 0.4 **mm**

8. Factor de deflexion adicional a largo plazo

di 6552
d (mm) = 750
cuantía negativa, ρ' = 0.0146

Tiempo	**ε**	**λ_Δ**
6 meses	1.2	0.694
1 año	1.4	0.810
5 años	2	1.157

DEFLEXION ESPERADA A LARGO PLAZO

Tiempo	Instantanea	Largo plazo	Total (mm)	**CUMPLE NSR-10**
6 meses	3.2	2.2	5.4	**OK**
1 año	3.2	2.6	5.8	**OK**
5 años	3.2	3.7	6.9	**OK**

DEFLEXIÓN MÁXIMA PERMITIDA NSR-10

Limite de deflexión = 480 *Sistema de entrepiso o cubierta ligado a elementos no estructurales susceptibles a daños*
Luz de la viga = 4250 mm
Deflexión = 8.9 mm

NO REQUIERE CONTRAFLECHA

CÁLCULO DE DEFLEXIÓN EN VIGAS

PROYECTO: **UNAL-SGC**
LOCALIZACIÓN: **V705(50x120) Voladizo eje 8**

1. Propiedades de la Seccion

B (mm)	H (mm)	LUZ (mm)	As (mm2)	d (mm)	As' (mm2)	d' (mm)	f'c (MPa)
500	1200	7950	9009	750	3342	50	49

2. Calculo de la Inercia de la seccion fisurada

Posicion del Eje Neutro:

n	n As	(2n-1) As'	Coef a	Coef b	Coef c
6.08	54774.72	37296.72	250	92071.44	-42945876

Solución de la ecuación cuadrática

x1	x2	**Eje Neutro (mm)**
269.39	-637.68	**269.390**

Inercia de la seccion fisurada, Icr (mm4) = **17705672328**

3. Modulo de rotura:

f'c (MPa)	Ec (MPa)	fr (MPa)	yt (mm)
49	32900	4.34	480.61

4. Calculo de la Inercia efectiva

Ig (mm^4)	Icr (mm^4)	Ma (N mm)	Mcr (N mm)	Mcr/Ma	**Ie (mm^4)**
72000000000	1.771E+10	3.275E+09	650173784	0.199	**18130340573**

5. Calculo de la Inercia de la Seccion Completa

Seccion : Rectangular

Ig = 72000000000 mm4

6. Calculo del módulo de elasticidad

E = 32900 MPa

7. Deflexión elástica inmediata

δDL= 23.1 **mm**
δLL= 3.9 **mm**

8. Factor de deflexion adicional a largo plazo

di 3342
d (mm) = 750
cuantía negativa, ρ' = 0.0089

Tiempo	**ε**	**λ_Δ**
6 meses	1.2	0.830
1 año	1.4	0.968
5 años	2	1.384

DEFLEXION ESPERADA A LARGO PLAZO

Tiempo	Instantanea	Largo plazo	Total (mm)	**CUMPLE NSR-10**
6 meses	27	22.4	49.4	**NO CUMPLE**
1 año	27	26.1	53.1	**NO CUMPLE**
5 años	27	37.4	64.4	**NO CUMPLE**

DEFLEXIÓN MÁXIMA PERMITIDA NSR-10

Limite de deflexión = 480 *Sistema de entrepiso o cubierta ligado a elementos no estructurales susceptibles a daños*
Luz de la viga = 7950 mm
Deflexión = 16.6 mm

REQUIERE CONTRAFLECHA DE 5 cm

CÁLCULO DE DEFLEXIÓN EN VIGAS

PROYECTO: **UNAL-SGC**
LOCALIZACIÓN: **V705(50x800) Voladizo eje 9**

1. Propiedades de la Seccion

B (mm)	H (mm)	LUZ (mm)	As (mm2)	d (mm)	As' (mm2)	d' (mm)	f'c (MPa)
500	800	5300	5610	750	2013	50	49

2. Calculo de la Inercia de la seccion fisurada

Posicion del Eje Neutro:

n	n As	(2n-1) As'	Coef a	Coef b	Coef c
6.08	34108.8	22465.08	250	56573.88	-26704854

Solución de la ecuación cuadrática

x1	x2	**Eje Neutro (mm)**
232.72	-459.01	**232.716**

Inercia de la seccion fisurada, Icr (mm4) = **11977449002**

3. Modulo de rotura:

f'c (MPa)	Ec (MPa)	fr (MPa)	yt (mm)
49	32900	4.34	517.28

4. Calculo de la Inercia efectiva

Ig (mm^4)	Icr (mm^4)	Ma (N mm)	Mcr (N mm)	Mcr/Ma	**Ie (mm^4)**
21333333333	1.198E+10	1.237E+10	178986186	0.014	**11977477345**

5. Calculo de la Inercia de la Seccion Completa

Seccion : Rectangular

Ig = 21333333333 mm4

6. Calculo del módulo de elasticidad

E = 32900 MPa

7. Deflexión elástica inmediata

δDL= 3.6 **mm**
δLL= 0.3 **mm**

8. Factor de deflexion adicional a largo plazo

di 2013
d (mm) = 750
cuantía negativa, ρ' = 0.0054

Tiempo	**ε**	**λ_Δ**
6 meses	1.2	0.946
1 año	1.4	1.104
5 años	2	1.577

DEFLEXION ESPERADA A LARGO PLAZO

Tiempo	Instantanea	Largo plazo	Total (mm)	**CUMPLE NSR-10**
6 meses	3.9	3.7	7.6	**OK**
1 año	3.9	4.3	8.2	**OK**
5 años	3.9	6.1	10.0	**OK**

DEFLEXIÓN MÁXIMA PERMITIDA NSR-10

Limite de deflexión = 480 *Sistema de entrepiso o cubierta ligado a elementos no estructurales susceptibles a daños*
Luz de la viga = 5300 mm
Deflexión = 11.0 mm

NO REQUIERE CONTRAFLECHA

CÁLCULO DE DEFLEXIÓN EN VIGAS

PROYECTO: **UNAL-SGC**
LOCALIZACIÓN: **V706(50x80) Voladizo eje 15**

1. Propiedades de la Seccion

B (mm)	H (mm)	LUZ (mm)	As (mm2)	d (mm)	As' (mm2)	d' (mm)	f'c (MPa)
500	800	6000	5610	750	2691	50	49

2. Calculo de la Inercia de la seccion fisurada

Posicion del Eje Neutro:

n	n As	(2n-1) As'	Coef a	Coef b	Coef c
6.08	34108.8	30031.56	250	64140.36	-27083178

Solución de la ecuación cuadrática

x1	x2	**Eje Neutro (mm)**
224.97	-481.54	**224.974**

Inercia de la seccion fisurada, Icr (mm4) = **12219391902**

3. Modulo de rotura:

f'c (MPa)	Ec (MPa)	fr (MPa)	yt (mm)
49	32900	4.34	525.03

4. Calculo de la Inercia efectiva

Ig (mm^4)	Icr (mm^4)	Ma (N mm)	Mcr (N mm)	Mcr/Ma	**Ie (mm^4)**
21333333333	1.222E+10	1.031E+09	176346707	0.171	**12265008277**

5. Calculo de la Inercia de la Seccion Completa

Seccion : Rectangular

Ig = 21333333333 mm4

6. Calculo del módulo de elasticidad

E = 32900 MPa

7. Deflexión elástica inmediata

δDL= 8.5 **mm**
δLL= 1.1 **mm**

8. Factor de deflexion adicional a largo plazo

di 2691
d (mm) = 750
cuantía negativa, ρ' = 0.0072

Tiempo	**ε**	**λ_Δ**
6 meses	1.2	0.883
1 año	1.4	1.030
5 años	2	1.472

DEFLEXION ESPERADA A LARGO PLAZO

Tiempo	Instantanea	Largo plazo	Total (mm)	**CUMPLE NSR-10**
6 meses	9.6	8.5	18.1	**NO CUMPLE**
1 año	9.6	9.9	19.5	**NO CUMPLE**
5 años	9.6	14.1	23.7	**NO CUMPLE**

DEFLEXIÓN MÁXIMA PERMITIDA NSR-10

Limite de deflexión = 480 *Sistema de entrepiso o cubierta ligado a elementos no estructurales susceptibles a daños*
Luz de la viga = 6000 mm
Deflexión = 12.5 mm

REQUIERE CONTRAFLECHA DE 1 cm

CÁLCULO DE DEFLEXIÓN EN VIGAS

PROYECTO: **UNAL-SGC**
LOCALIZACIÓN: **V706(50x80) Voladizo eje 11**

1. Propiedades de la Seccion

B (mm)	H (mm)	LUZ (mm)	As (mm2)	d (mm)	As' (mm2)	d' (mm)	f'c (MPa)
500	800	5300	5505	750	2013	50	49

2. Calculo de la Inercia de la seccion fisurada

Posicion del Eje Neutro:

n	n As	(2n-1) As'	Coef a	Coef b	Coef c
6.08	33470.4	22465.08	250	55935.48	-26226054

Solución de la ecuación cuadrática

x1	x2	**Eje Neutro (mm)**
230.79	-454.54	**230.794**

Inercia de la seccion fisurada, Icr (mm4) = **11805990134**

3. Modulo de rotura:

f'c (MPa)	Ec (MPa)	fr (MPa)	yt (mm)
49	32900	4.34	519.21

4. Calculo de la Inercia efectiva

Ig (mm^4)	Icr (mm^4)	Ma (N mm)	Mcr (N mm)	Mcr/Ma	**Ie (mm^4)**
21333333333	1.181E+10	3.172E+09	178323595	0.056	**11807683515**

5. Calculo de la Inercia de la Seccion Completa

Seccion : Rectangular

Ig = 21333333333 mm4

6. Calculo del módulo de elasticidad

E = 32900 MPa

7. Deflexión elástica inmediata

δDL= 6.6 **mm**
δLL= 0.8 **mm**

8. Factor de deflexion adicional a largo plazo

di 2013
d (mm) = 750
cuantía negativa, ρ' = 0.0054

Tiempo	**ε**	**λ_Δ**
6 meses	1.2	0.946
1 año	1.4	1.104
5 años	2	1.577

DEFLEXION ESPERADA A LARGO PLAZO

Tiempo	Instantanea	Largo plazo	Total (mm)	**CUMPLE NSR-10**
6 meses	7.4	7.0	14.4	**NO CUMPLE**
1 año	7.4	8.2	15.6	**NO CUMPLE**
5 años	7.4	11.7	19.1	**NO CUMPLE**

DEFLEXIÓN MÁXIMA PERMITIDA NSR-10

Limite de deflexión = 480 *Sistema de entrepiso o cubierta ligado a elementos no estructurales susceptibles a daños*
Luz de la viga = 5300 mm
Deflexión = 11.0 mm

REQUIERE CONTRAFLECHA DE 1 cm

CÁLCULO DE DEFLEXIÓN EN VIGAS

PROYECTO: **UNAL-SGC**
LOCALIZACIÓN: **V712(50x80) Voladizo escalera**

1. Propiedades de la Seccion

B (mm)	H (mm)	LUZ (mm)	As (mm2)	d (mm)	As' (mm2)	d' (mm)	f'c (MPa)
500	800	6100	2556	750	1420	50	49

2. Calculo de la Inercia de la seccion fisurada

Posicion del Eje Neutro:

n	n As	(2n-1) As'	Coef a	Coef b	Coef c
6.08	15540.48	15847.2	250	31387.68	-12447720

Solución de la ecuación cuadrática

x1	x2	**Eje Neutro (mm)**
169.03	-294.58	**169.025**

Inercia de la seccion fisurada, Icr (mm4) = **6274740260**

3. Modulo de rotura:

f'c (MPa)	Ec (MPa)	fr (MPa)	yt (mm)
49	32900	4.34	580.97

4. Calculo de la Inercia efectiva

Ig (mm^4)	Icr (mm^4)	Ma (N mm)	Mcr (N mm)	Mcr/Ma	**Ie (mm^4)**
21333333333	6.275E+09	6.960E+08	159364417	0.229	**6455480924**

5. Calculo de la Inercia de la Seccion Completa

Seccion : Rectangular

Ig = 21333333333 mm4

6. Calculo del módulo de elasticidad

E = 32900 MPa

7. Deflexión elástica inmediata

δDL= 6.6 **mm**
δLL= 3.4 **mm**

8. Factor de deflexion adicional a largo plazo

di 1420
d (mm) = 750
cuantía negativa, ρ' = 0.0038

Tiempo	**ε**	**λ_Δ**
6 meses	1.2	1.009
1 año	1.4	1.177
5 años	2	1.682

DEFLEXION ESPERADA A LARGO PLAZO

Tiempo	Instantanea	Largo plazo	Total (mm)	**CUMPLE NSR-10**
6 meses	10	10.1	20.1	**NO CUMPLE**
1 año	10	11.8	21.8	**NO CUMPLE**
5 años	10	16.8	26.8	**NO CUMPLE**

DEFLEXIÓN MÁXIMA PERMITIDA NSR-10

Limite de deflexión = 480 *Sistema de entrepiso o cubierta ligado a elementos no estructurales susceptibles a daños*
Luz de la viga = 6100 mm
Deflexión = 12.7 mm

REQUIERE CONTRAFLECHA DE 1.5 cm

CÁLCULO DE DEFLEXIÓN EN VIGAS

PROYECTO: **UNAL-SGC**
LOCALIZACIÓN: **V715(50x80) Voladizo escalera**

1. Propiedades de la Seccion

B (mm)	H (mm)	LUZ (mm)	As (mm2)	d (mm)	As' (mm2)	d' (mm)	f'c (MPa)
500	800	6100	6027	750	2955	50	49

2. Calculo de la Inercia de la seccion fisurada

Posicion del Eje Neutro:

n	n As	(2n-1) As'	Coef a	Coef b	Coef c
6.08	36644.16	32977.8	250	69621.96	-29132010

Solución de la ecuación cuadrática

x1	x2	**Eje Neutro (mm)**
229.43	-507.91	**229.425**

Inercia de la seccion fisurada, Icr (mm4) = **13004833979**

3. Modulo de rotura:

f'c (MPa)	Ec (MPa)	fr (MPa)	yt (mm)
49	32900	4.34	520.57

4. Calculo de la Inercia efectiva

Ig (mm^4)	Icr (mm^4)	Ma (N mm)	Mcr (N mm)	Mcr/Ma	**Ie (mm^4)**
21333333333	1.300E+10	1.430E+09	177854679	0.124	**13020858046**

5. Calculo de la Inercia de la Seccion Completa

Seccion : Rectangular

Ig = 21333333333 mm4

6. Calculo del módulo de elasticidad

E = 32900 MPa

7. Deflexión elástica inmediata

δDL= 7.8 **mm**
δLL= 3.1 **mm**

8. Factor de deflexion adicional a largo plazo

di 2955
d (mm) = 750
cuantía negativa, ρ' = 0.0079

Tiempo	**ε**	**λ_Δ**
6 meses	1.2	0.861
1 año	1.4	1.004
5 años	2	1.435

DEFLEXION ESPERADA A LARGO PLAZO

Tiempo	Instantanea	Largo plazo	Total (mm)	**CUMPLE NSR-10**
6 meses	10.9	9.4	20.3	**NO CUMPLE**
1 año	10.9	10.9	21.8	**NO CUMPLE**
5 años	10.9	15.6	26.5	**NO CUMPLE**

DEFLEXIÓN MÁXIMA PERMITIDA NSR-10

Limite de deflexión = 480 *Sistema de entrepiso o cubierta ligado a elementos no estructurales susceptibles a daños*
Luz de la viga = 6100 mm
Deflexión = 12.7 mm

REQUIERE CONTRAFLECHA DE 1.5 cm

CÁLCULO DE DEFLEXIÓN EN VIGAS

PROYECTO: **UNAL-SGC**
LOCALIZACIÓN: **V800(50x80) Voladizo eje 2**

1. Propiedades de la Seccion

B (mm)	H (mm)	LUZ (mm)	As (mm2)	d (mm)	As' (mm2)	d' (mm)	f'c (MPa)
500	800	5650	6120	750	2702	50	49

2. Calculo de la Inercia de la seccion fisurada

Posicion del Eje Neutro:

n	n As	(2n-1) As'	Coef a	Coef b	Coef c
6.08	37209.6	30154.32	250	67363.92	-29414916

Solución de la ecuación cuadrática

x1	x2	**Eje Neutro (mm)**
233.80	-503.25	**233.798**

Inercia de la seccion fisurada, Icr (mm4) = **13063660391**

3. Modulo de rotura:

f'c (MPa)	Ec (MPa)	fr (MPa)	yt (mm)
49	32900	4.34	516.20

4. Calculo de la Inercia efectiva

Ig (mm^4)	Icr (mm^4)	Ma (N mm)	Mcr (N mm)	Mcr/Ma	**Ie (mm^4)**
21333333333	1.306E+10	1.465E+09	179361291	0.122	**13078839028**

5. Calculo de la Inercia de la Seccion Completa

Seccion : Rectangular

Ig = 21333333333 mm4

6. Calculo del módulo de elasticidad

E = 32900 MPa

7. Deflexión elástica inmediata

δDL= 13.6 **mm**
δLL= 2.1 **mm**

8. Factor de deflexion adicional a largo plazo

di 2702
d (mm) = 750
cuantía negativa, ρ' = 0.0072

Tiempo	**ε**	**λ_Δ**
6 meses	1.2	0.882
1 año	1.4	1.029
5 años	2	1.470

DEFLEXION ESPERADA A LARGO PLAZO

Tiempo	Instantanea	Largo plazo	Total (mm)	**CUMPLE NSR-10**
6 meses	15.7	13.9	29.6	**NO CUMPLE**
1 año	15.7	16.2	31.9	**NO CUMPLE**
5 años	15.7	23.1	38.8	**NO CUMPLE**

DEFLEXIÓN MÁXIMA PERMITIDA NSR-10

Limite de deflexión = 480 *Sistema de entrepiso o cubierta ligado a elementos no estructurales susceptibles a daños*
Luz de la viga = 5650 mm
Deflexión = 11.8 mm

REQUIERE CONTRAFLECHA DE 2.5 cm

CÁLCULO DE DEFLEXIÓN EN VIGAS

PROYECTO: **UNAL-SGC**
LOCALIZACIÓN: **V800(50x80) Voladizo eje 6**

1. Propiedades de la Seccion

B (mm)	H (mm)	LUZ (mm)	As (mm2)	d (mm)	As' (mm2)	d' (mm)	f'c (MPa)
500	800	5600	4485	750	1928	50	49

2. Calculo de la Inercia de la seccion fisurada

Posicion del Eje Neutro:

n	n As	(2n-1) As'	Coef a	Coef b	Coef c
6.08	27268.8	21516.48	250	48785.28	-21527424

Solución de la ecuación cuadrática

x1	x2	**Eje Neutro (mm)**
211.67	-406.81	**211.670**

Inercia de la seccion fisurada, Icr (mm4) = **10045473535**

3. Modulo de rotura:

f'c (MPa)	Ec (MPa)	fr (MPa)	yt (mm)
49	32900	4.34	538.33

4. Calculo de la Inercia efectiva

Ig (mm^4)	Icr (mm^4)	Ma (N mm)	Mcr (N mm)	Mcr/Ma	**Ie (mm^4)**
21333333333	1.005E+10	1.452E+09	171988674	0.118	**10064233768**

5. Calculo de la Inercia de la Seccion Completa

Seccion : Rectangular

Ig = 21333333333 mm4

6. Calculo del módulo de elasticidad

E = 32900 MPa

7. Deflexión elástica inmediata

δDL= 11.1 **mm**
δLL= 1.5 **mm**

8. Factor de deflexion adicional a largo plazo

di 1928
d (mm) = 750
cuantía negativa, ρ' = 0.0051

Tiempo	**ε**	**λ_Δ**
6 meses	1.2	0.955
1 año	1.4	1.114
5 años	2	1.591

DEFLEXION ESPERADA A LARGO PLAZO

Tiempo	Instantanea	Largo plazo	Total (mm)	**CUMPLE NSR-10**
6 meses	12.6	12.0	24.6	**NO CUMPLE**
1 año	12.6	14.0	26.6	**NO CUMPLE**
5 años	12.6	20.0	32.6	**NO CUMPLE**

DEFLEXIÓN MÁXIMA PERMITIDA NSR-10

Limite de deflexión = 480 *Sistema de entrepiso o cubierta ligado a elementos no estructurales susceptibles a daños*
Luz de la viga = 5600 mm
Deflexión = 11.7 mm

REQUIERE CONTRAFLECHA DE 2 cm

CÁLCULO DE DEFLEXIÓN EN VIGAS

PROYECTO: **UNAL-SGC**
LOCALIZACIÓN: **V801(50x80) Voladizo eje 2**

1. Propiedades de la Seccion

B (mm)	H (mm)	LUZ (mm)	As (mm2)	d (mm)	As' (mm2)	d' (mm)	f'c (MPa)
500	800	5600	7356	750	2702	50	49

2. Calculo de la Inercia de la seccion fisurada

Posicion del Eje Neutro:

n	n As	(2n-1) As'	Coef a	Coef b	Coef c
6.08	44724.48	30154.32	250	74878.8	-35051076

Solución de la ecuación cuadrática

x1	x2	**Eje Neutro (mm)**
253.52	-553.03	**253.519**

Inercia de la seccion fisurada, Icr (mm4) = **14988970427**

3. Modulo de rotura:

f'c (MPa)	Ec (MPa)	fr (MPa)	yt (mm)
49	32900	4.34	496.48

4. Calculo de la Inercia efectiva

Ig (mm^4)	Icr (mm^4)	Ma (N mm)	Mcr (N mm)	Mcr/Ma	**Ie (mm^4)**
21333333333	1.499E+10	1.716E+09	186485647	0.109	**14997111351**

5. Calculo de la Inercia de la Seccion Completa

Seccion : Rectangular

Ig = 21333333333 mm4

6. Calculo del módulo de elasticidad

E = 32900 MPa

7. Deflexión elástica inmediata

δDL= 8.6 **mm**
δLL= 1.6 **mm**

8. Factor de deflexion adicional a largo plazo

di 2702
d (mm) = 750
cuantía negativa, ρ' = 0.0072

Tiempo	**ε**	**λ_Δ**
6 meses	1.2	0.882
1 año	1.4	1.029
5 años	2	1.470

DEFLEXION ESPERADA A LARGO PLAZO

Tiempo	Instantanea	Largo plazo	Total (mm)	**CUMPLE NSR-10**
6 meses	10.2	9.0	19.2	**NO CUMPLE**
1 año	10.2	10.5	20.7	**NO CUMPLE**
5 años	10.2	15.0	25.2	**NO CUMPLE**

DEFLEXIÓN MÁXIMA PERMITIDA NSR-10

Limite de deflexión = 480 *Sistema de entrepiso o cubierta ligado a elementos no estructurales susceptibles a daños*
Luz de la viga = 5600 mm
Deflexión = 11.7 mm

REQUIERE CONTRAFLECHA DE 1.5 cm

CÁLCULO DE DEFLEXIÓN EN VIGAS

PROYECTO: **UNAL-SGC**
LOCALIZACIÓN: **V802(60x120) Voladizo eje 8**

1. Propiedades de la Seccion

B (mm)	H (mm)	LUZ (mm)	As (mm2)	d (mm)	As' (mm2)	d' (mm)	f'c (MPa)
600	1200	9100	11466	750	7047	50	49

2. Calculo de la Inercia de la seccion fisurada

Posicion del Eje Neutro:

n	n As	(2n-1) As'	Coef a	Coef b	Coef c
6.08	69713.28	78644.52	300	148357.8	-56217186

Solución de la ecuación cuadrática

x1	x2	**Eje Neutro (mm)**
251.26	-745.79	**251.264**

Inercia de la seccion fisurada, Icr (mm4) = **23698622972**

3. Modulo de rotura:

f'c (MPa)	Ec (MPa)	fr (MPa)	yt (mm)
49	32900	4.34	498.74

4. Calculo de la Inercia efectiva

Ig (mm^4)	Icr (mm^4)	Ma (N mm)	Mcr (N mm)	Mcr/Ma	**Ie (mm^4)**
86400000000	2.370E+10	4.443E+09	751853351	0.169	**24002530460**

5. Calculo de la Inercia de la Seccion Completa

Seccion : Rectangular

Ig = 86400000000 mm4

6. Calculo del módulo de elasticidad

E = 32900 MPa

7. Deflexión elástica inmediata

δDL= 26.6 **mm**
δLL= 4.6 **mm**

8. Factor de deflexion adicional a largo plazo

Acero negativo, As' (mm2) = 7047
d (mm) = 750
cuantía negativa, ρ' = 0.0157

Tiempo	**ε**	**λ_Δ**
6 meses	1.2	0.673
1 año	1.4	0.785
5 años	2	1.122

DEFLEXION ESPERADA A LARGO PLAZO

Tiempo	Instantanea	Largo plazo	Total (mm)	**CUMPLE NSR-10**
6 meses	31.2	21.0	52.2	**NO CUMPLE**
1 año	31.2	24.5	55.7	**NO CUMPLE**
5 años	31.2	35.0	66.2	**NO CUMPLE**

DEFLEXIÓN MÁXIMA PERMITIDA NSR-10

Limite de deflexión = 480 *Sistema de entrepiso o cubierta ligado a elementos no estructurales susceptibles a daños*
Luz de la viga = 9100 mm
Deflexión = 19.0 mm

REQUIERE CONTRAFLECHA DE 4.5 cm

CÁLCULO DE DEFLEXIÓN EN VIGAS

PROYECTO: **UNAL-SGC**
LOCALIZACIÓN: **V803(60x80) Voladizo eje 15**

1. Propiedades de la Seccion

B (mm)	H (mm)	LUZ (mm)	As (mm2)	d (mm)	As' (mm2)	d' (mm)	f'c (MPa)
600	800	4250	46.98	750	4080	50	49

2. Calculo de la Inercia de la seccion fisurada

Posicion del Eje Neutro:

n	n As	(2n-1) As'	Coef a	Coef b	Coef c
6.08	285.6384	45532.8	300	45818.4384	-2490868.8

Solución de la ecuación cuadrática

x1	x2	**Eje Neutro (mm)**
42.52	-195.25	**42.524**

Inercia de la seccion fisurada, Icr (mm4) = **160892390.4**

3. Modulo de rotura:

f'c (MPa)	Ec (MPa)	fr (MPa)	yt (mm)
49	32900	4.34	707.48

4. Calculo de la Inercia efectiva

Ig (mm^4)	Icr (mm^4)	Ma (N mm)	Mcr (N mm)	Mcr/Ma	**Ie (mm^4)**
25600000000	1.609E+08	1.070E+09	157042778	0.147	**241322122.6**

5. Calculo de la Inercia de la Seccion Completa

Seccion : Rectangular

Ig = 25600000000 mm4

6. Calculo del módulo de elasticidad

E = 32900 MPa

7. Deflexión elástica inmediata

δDL= 2.7 **mm**
δLL= 0.3 **mm**

8. Factor de deflexion adicional a largo plazo

di 4080
d (mm) = 750
cuantía negativa, ρ' = 0.0091

Tiempo	**ε**	**λ_Δ**
6 meses	1.2	0.826
1 año	1.4	0.963
5 años	2	1.376

DEFLEXION ESPERADA A LARGO PLAZO

Tiempo	Instantanea	Largo plazo	Total (mm)	**CUMPLE NSR-10**
6 meses	3	2.5	5.5	**OK**
1 año	3	2.9	5.9	**OK**
5 años	3	4.1	7.1	**OK**

DEFLEXIÓN MÁXIMA PERMITIDA NSR-10

Limite de deflexión = 480 *Sistema de entrepiso o cubierta ligado a elementos no estructurales susceptibles a daños*
Luz de la viga = 4250 mm
Deflexión = 8.9 mm

NO REQUIERE CONTRAFLECHA

CÁLCULO DE DEFLEXIÓN EN VIGAS

PROYECTO: **UNAL-SGC**
LOCALIZACIÓN: **V804(50x120) Voladizo eje 8**

1. Propiedades de la Seccion

B (mm)	H (mm)	LUZ (mm)	As (mm2)	d (mm)	As' (mm2)	d' (mm)	f'c (MPa)
500	1200	7950	9828	750	3961	50	49

2. Calculo de la Inercia de la seccion fisurada

Posicion del Eje Neutro:

n	n As	(2n-1) As'	Coef a	Coef b	Coef c
6.08	59754.24	44204.76	250	103959	-47025918

Solución de la ecuación cuadrática

x1	x2	**Eje Neutro (mm)**
273.05	-688.89	**273.053**

Inercia de la seccion fisurada, Icr (mm4) = **19185149795**

3. Modulo de rotura:

f'c (MPa)	Ec (MPa)	fr (MPa)	yt (mm)
49	32900	4.34	476.95

4. Calculo de la Inercia efectiva

Ig (mm^4)	Icr (mm^4)	Ma (N mm)	Mcr (N mm)	Mcr/Ma	**Ie (mm^4)**
72000000000	1.919E+10	3.275E+09	655167798	0.200	**19608187132**

5. Calculo de la Inercia de la Seccion Completa

Seccion : Rectangular

Ig = 72000000000 mm4

6. Calculo del módulo de elasticidad

E = 32900 MPa

7. Deflexión elástica inmediata

δDL= 23 **mm**
δLL= 3.9 **mm**

8. Factor de deflexion adicional a largo plazo

di 3961
d (mm) = 750
cuantía negativa, ρ' = 0.0106

Tiempo	**ε**	**λ_Δ**
6 meses	1.2	0.785
1 año	1.4	0.916
5 años	2	1.309

DEFLEXION ESPERADA A LARGO PLAZO

Tiempo	Instantanea	Largo plazo	Total (mm)	**CUMPLE NSR-10**
6 meses	26.9	21.1	48.0	**NO CUMPLE**
1 año	26.9	24.6	51.5	**NO CUMPLE**
5 años	26.9	35.2	62.1	**NO CUMPLE**

DEFLEXIÓN MÁXIMA PERMITIDA NSR-10

Limite de deflexión = 480 *Sistema de entrepiso o cubierta ligado a elementos no estructurales susceptibles a daños*
Luz de la viga = 7950 mm
Deflexión = 16.6 mm

REQUIERE CONTRAFLECHA DE 4.5 cm

CÁLCULO DE DEFLEXIÓN EN VIGAS

PROYECTO: **UNAL-SGC**
LOCALIZACIÓN: **V804(50x80) Voladizo eje 9**

1. Propiedades de la Seccion

B (mm)	H (mm)	LUZ (mm)	As (mm2)	d (mm)	As' (mm2)	d' (mm)	f'c (MPa)
500	800	5300	6741	750	1988	50	49

2. Calculo de la Inercia de la seccion fisurada

Posicion del Eje Neutro:

n	n As	(2n-1) As'	Coef a	Coef b	Coef c
6.08	40985.28	22186.08	250	63171.36	-31848264

Solución de la ecuación cuadrática

x1	x2	**Eje Neutro (mm)**
252.28	-504.97	**252.280**

Inercia de la seccion fisurada, Icr (mm4) = **13736947299**

3. Modulo de rotura:

f'c (MPa)	Ec (MPa)	fr (MPa)	yt (mm)
49	32900	4.34	497.72

4. Calculo de la Inercia efectiva

Ig (mm^4)	Icr (mm^4)	Ma (N mm)	Mcr (N mm)	Mcr/Ma	**Ie (mm^4)**
21333333333	1.374E+10	1.213E+09	186021777	0.153	**13764334279**

5. Calculo de la Inercia de la Seccion Completa

Seccion : Rectangular

Ig = 21333333333 mm4

6. Calculo del módulo de elasticidad

E = 32900 MPa

7. Deflexión elástica inmediata

δDL= 3.8 **mm**
δLL= 0.6 **mm**

8. Factor de deflexion adicional a largo plazo

di 1988
d (mm) = 750
cuantía negativa, ρ' = 0.0053

Tiempo	**ε**	**λ_Δ**
6 meses	1.2	0.949
1 año	1.4	1.107
5 años	2	1.581

DEFLEXION ESPERADA A LARGO PLAZO

Tiempo	Instantanea	Largo plazo	Total (mm)	**CUMPLE NSR-10**
6 meses	4.4	4.2	8.6	**OK**
1 año	4.4	4.9	9.3	**OK**
5 años	4.4	7.0	11.4	**NO CUMPLE**

DEFLEXIÓN MÁXIMA PERMITIDA NSR-10

Limite de deflexión = 480 *Sistema de entrepiso o cubierta ligado a elementos no estructurales susceptibles a daños*
Luz de la viga = 5300 mm
Deflexión = 11.0 mm

REQUIERE CONTRAFLECHA DE 0 cm

CÁLCULO DE DEFLEXIÓN EN VIGAS

PROYECTO: **UNAL-SGC**
LOCALIZACIÓN: **V805(50x80) Voladizo eje 15**

1. Propiedades de la Seccion

B (mm)	H (mm)	LUZ (mm)	As (mm2)	d (mm)	As' (mm2)	d' (mm)	f'c (MPa)
500	800	6000	5610	750	2691	50	49

2. Calculo de la Inercia de la seccion fisurada

Posicion del Eje Neutro:

n	n As	(2n-1) As'	Coef a	Coef b	Coef c
6.08	34108.8	30031.56	250	64140.36	-27083178

Solución de la ecuación cuadrática

x1	x2	**Eje Neutro (mm)**
224.97	-481.54	**224.974**

Inercia de la seccion fisurada, Icr (mm4) = **12219391902**

3. Modulo de rotura:

f'c (MPa)	Ec (MPa)	fr (MPa)	yt (mm)
49	32900	4.34	525.03

4. Calculo de la Inercia efectiva

Ig (mm^4)	Icr (mm^4)	Ma (N mm)	Mcr (N mm)	Mcr/Ma	**Ie (mm^4)**
21333333333	1.222E+10	1.028E+09	176346707	0.172	**12265431674**

5. Calculo de la Inercia de la Seccion Completa

Seccion : Rectangular

Ig = 21333333333 mm4

6. Calculo del módulo de elasticidad

E = 32900 MPa

7. Deflexión elástica inmediata

δDL= 8.3 **mm**
δLL= 1 **mm**

8. Factor de deflexion adicional a largo plazo

di 2691
d (mm) = 750
cuantía negativa, ρ' = 0.0072

Tiempo	**ε**	**λ_Δ**
6 meses	1.2	0.883
1 año	1.4	1.030
5 años	2	1.472

DEFLEXION ESPERADA A LARGO PLAZO

Tiempo	Instantanea	Largo plazo	Total (mm)	**CUMPLE NSR-10**
6 meses	9.3	8.2	17.5	**NO CUMPLE**
1 año	9.3	9.6	18.9	**NO CUMPLE**
5 años	9.3	13.7	23.0	**NO CUMPLE**

DEFLEXIÓN MÁXIMA PERMITIDA NSR-10

Limite de deflexión = 480 *Sistema de entrepiso o cubierta ligado a elementos no estructurales susceptibles a daños*
Luz de la viga = 6000 mm
Deflexión = 12.5 mm

REQUIERE CONTRAFLECHA DE 1 cm

CÁLCULO DE DEFLEXIÓN EN VIGAS

PROYECTO: **UNAL-SGC**
LOCALIZACIÓN: **V805(50x80) Voladizo eje 11**

1. Propiedades de la Seccion

B (mm)	H (mm)	LUZ (mm)	As (mm2)	d (mm)	As' (mm2)	d' (mm)	f'c (MPa)
500	800	5300	5505	750	2013	50	49

2. Calculo de la Inercia de la seccion fisurada

Posicion del Eje Neutro:

n	n As	(2n-1) As'	Coef a	Coef b	Coef c
6.08	33470.4	22465.08	250	55935.48	-26226054

Solución de la ecuación cuadrática

x1	x2	**Eje Neutro (mm)**
230.79	-454.54	**230.794**

Inercia de la seccion fisurada, Icr (mm4) = **11805990134**

3. Modulo de rotura:

f'c (MPa)	Ec (MPa)	fr (MPa)	yt (mm)
49	32900	4.34	519.21

4. Calculo de la Inercia efectiva

Ig (mm^4)	Icr (mm^4)	Ma (N mm)	Mcr (N mm)	Mcr/Ma	**Ie (mm^4)**
21333333333	1.181E+10	7.329E+08	178323595	0.243	**11943247350**

5. Calculo de la Inercia de la Seccion Completa

Seccion : Rectangular

Ig = 21333333333 mm4

6. Calculo del módulo de elasticidad

E = 32900 MPa

7. Deflexión elástica inmediata

δDL= 6.5 **mm**
δLL= 0.6 **mm**

8. Factor de deflexion adicional a largo plazo

di 2013
d (mm) = 750
cuantía negativa, ρ' = 0.0054

Tiempo	**ε**	**λ_Δ**
6 meses	1.2	0.946
1 año	1.4	1.104
5 años	2	1.577

DEFLEXION ESPERADA A LARGO PLAZO

Tiempo	Instantanea	Largo plazo	Total (mm)	**CUMPLE NSR-10**
6 meses	7.1	6.7	13.8	**NO CUMPLE**
1 año	7.1	7.8	14.9	**NO CUMPLE**
5 años	7.1	11.2	18.3	**NO CUMPLE**

DEFLEXIÓN MÁXIMA PERMITIDA NSR-10

Limite de deflexión = 480 *Sistema de entrepiso o cubierta ligado a elementos no estructurales susceptibles a daños*
Luz de la viga = 5300 mm
Deflexión = 11.0 mm

REQUIERE CONTRAFLECHA DE 0.5 cm

CÁLCULO DE DEFLEXIÓN EN VIGAS

PROYECTO: **UNAL-SGC**
LOCALIZACIÓN: **V808(50x80) Voladizo escalera**

1. Propiedades de la Seccion

B (mm)	H (mm)	LUZ (mm)	As (mm2)	d (mm)	As' (mm2)	d' (mm)	f'c (MPa)
500	800	6100	2194	750	1420	50	49

2. Calculo de la Inercia de la seccion fisurada

Posicion del Eje Neutro:

n	n As	(2n-1) As'	Coef a	Coef b	Coef c
6.08	13339.52	15847.2	250	29186.72	-10797000

Solución de la ecuación cuadrática

x1	x2	**Eje Neutro (mm)**
157.49	-274.23	**157.486**

Inercia de la seccion fisurada, Icr (mm4) = **5517220115**

3. Modulo de rotura:

f'c (MPa)	Ec (MPa)	fr (MPa)	yt (mm)
49	32900	4.34	592.51

4. Calculo de la Inercia efectiva

Ig (mm^4)	Icr (mm^4)	Ma (N mm)	Mcr (N mm)	Mcr/Ma	**Ie (mm^4)**
21333333333	5.517E+09	4.375E+08	156260822	0.357	**6238004306**

5. Calculo de la Inercia de la Seccion Completa

Seccion : Rectangular

Ig = 21333333333 mm4

6. Calculo del módulo de elasticidad

E = 32900 MPa

7. Deflexión elástica inmediata

δDL= 6.1 **mm**
δLL= 2.7 **mm**

8. Factor de deflexion adicional a largo plazo

di 1420
d (mm) = 750
cuantía negativa, ρ' = 0.0038

Tiempo	**ε**	**λ_Δ**
6 meses	1.2	1.009
1 año	1.4	1.177
5 años	2	1.682

DEFLEXION ESPERADA A LARGO PLAZO

Tiempo	Instantanea	Largo plazo	Total (mm)	**CUMPLE NSR-10**
6 meses	8.8	8.9	17.7	**NO CUMPLE**
1 año	8.8	10.4	19.2	**NO CUMPLE**
5 años	8.8	14.8	23.6	**NO CUMPLE**

DEFLEXIÓN MÁXIMA PERMITIDA NSR-10

Limite de deflexión = 480 *Sistema de entrepiso o cubierta ligado a elementos no estructurales susceptibles a daños*
Luz de la viga = 6100 mm
Deflexión = 12.7 mm

REQUIERE CONTRAFLECHA DE 1 cm

CÁLCULO DE DEFLEXIÓN EN VIGAS

PROYECTO: **UNAL-SGC**
LOCALIZACIÓN: **V813(50x80) Voladizo escalera**

1. Propiedades de la Seccion

B (mm)	H (mm)	LUZ (mm)	As (mm2)	d (mm)	As' (mm2)	d' (mm)	f'c (MPa)
500	800	6100	6120	750	2955	50	49

2. Calculo de la Inercia de la seccion fisurada

Posicion del Eje Neutro:

n	n As	(2n-1) As'	Coef a	Coef b	Coef c
6.08	37209.6	32977.8	250	70187.4	-29556090

Solución de la ecuación cuadrática

x1	x2	**Eje Neutro (mm)**
231.01	-511.76	**231.014**

Inercia de la seccion fisurada, Icr (mm4) = **13157599236**

3. Modulo de rotura:

f'c (MPa)	Ec (MPa)	fr (MPa)	yt (mm)
49	32900	4.34	518.99

4. Calculo de la Inercia efectiva

Ig (mm^4)	Icr (mm^4)	Ma (N mm)	Mcr (N mm)	Mcr/Ma	**Ie (mm^4)**
21333333333	1.316E+10	1.282E+09	178399070	0.139	**13179632099**

5. Calculo de la Inercia de la Seccion Completa

Seccion : Rectangular

Ig = 21333333333 mm4

6. Calculo del módulo de elasticidad

E = 32900 MPa

7. Deflexión elástica inmediata

δDL= 7.9 **mm**
δLL= 3.1 **mm**

8. Factor de deflexion adicional a largo plazo

di 2955
d (mm) = 750
cuantía negativa, ρ' = 0.0079

Tiempo	**ε**	**λ_Δ**
6 meses	1.2	0.861
1 año	1.4	1.004
5 años	2	1.435

DEFLEXION ESPERADA A LARGO PLAZO

Tiempo	Instantanea	Largo plazo	Total (mm)	**CUMPLE NSR-10**
6 meses	11	9.5	20.5	**NO CUMPLE**
1 año	11	11.0	22.0	**NO CUMPLE**
5 años	11	15.8	26.8	**NO CUMPLE**

DEFLEXIÓN MÁXIMA PERMITIDA NSR-10

Limite de deflexión = 480 *Sistema de entrepiso o cubierta ligado a elementos no estructurales susceptibles a daños*
Luz de la viga = 6100 mm
Deflexión = 12.7 mm

REQUIERE CONTRAFLECHA DE 1.5 cm

CÁLCULO DE DEFLEXIÓN EN VIGAS

PROYECTO: **UNAL-SGC**
LOCALIZACIÓN: **V900(50x80) Voladizo eje 2**

1. Propiedades de la Seccion

B (mm)	H (mm)	LUZ (mm)	As (mm2)	d (mm)	As' (mm2)	d' (mm)	f'c (MPa)
500	800	5650	6120	750	2702	50	49

2. Calculo de la Inercia de la seccion fisurada

Posicion del Eje Neutro:

n	n As	(2n-1) As'	Coef a	Coef b	Coef c
6.08	37209.6	30154.32	250	67363.92	-29414916

Solución de la ecuación cuadrática

x1	x2	**Eje Neutro (mm)**
233.80	-503.25	**233.798**

Inercia de la seccion fisurada, Icr (mm4) = **13063660391**

3. Modulo de rotura:

f'c (MPa)	Ec (MPa)	fr (MPa)	yt (mm)
49	32900	4.34	516.20

4. Calculo de la Inercia efectiva

Ig (mm^4)	Icr (mm^4)	Ma (N mm)	Mcr (N mm)	Mcr/Ma	**Ie (mm^4)**
21333333333	1.306E+10	1.453E+09	179361291	0.123	**13079230127**

5. Calculo de la Inercia de la Seccion Completa

Seccion : Rectangular

Ig = 21333333333 mm4

6. Calculo del módulo de elasticidad

E = 32900 MPa

7. Deflexión elástica inmediata

δDL= 13.4 **mm**
δLL= 1.9 **mm**

8. Factor de deflexion adicional a largo plazo

di 2702
d (mm) = 750
cuantía negativa, ρ' = 0.0072

Tiempo	**ε**	**λ_Δ**
6 meses	1.2	0.882
1 año	1.4	1.029
5 años	2	1.470

DEFLEXION ESPERADA A LARGO PLAZO

Tiempo	Instantanea	Largo plazo	Total (mm)	**CUMPLE NSR-10**
6 meses	15.3	13.5	28.8	**NO CUMPLE**
1 año	15.3	15.7	31.0	**NO CUMPLE**
5 años	15.3	22.5	37.8	**NO CUMPLE**

DEFLEXIÓN MÁXIMA PERMITIDA NSR-10

Limite de deflexión = 480 *Sistema de entrepiso o cubierta ligado a elementos no estructurales susceptibles a daños*
Luz de la viga = 5650 mm
Deflexión = 11.8 mm

REQUIERE CONTRAFLECHA DE 2.5 cm

CÁLCULO DE DEFLEXIÓN EN VIGAS

PROYECTO: **UNAL-SGC**
LOCALIZACIÓN: **V900(50x80) Voladizo eje 6**

1. Propiedades de la Seccion

B (mm)	H (mm)	LUZ (mm)	As (mm2)	d (mm)	As' (mm2)	d' (mm)	f'c (MPa)
500	800	5600	4485	750	1644	50	49

2. Calculo de la Inercia de la seccion fisurada

Posicion del Eje Neutro:

n	n As	(2n-1) As'	Coef a	Coef b	Coef c
6.08	27268.8	18347.04	250	45615.84	-21368952

Solución de la ecuación cuadrática

x1	x2	**Eje Neutro (mm)**
215.03	-397.50	**215.035**

Inercia de la seccion fisurada, Icr (mm4) = **9960906094**

3. Modulo de rotura:

f'c (MPa)	Ec (MPa)	fr (MPa)	yt (mm)
49	32900	4.34	534.97

4. Calculo de la Inercia efectiva

Ig (mm^4)	Icr (mm^4)	Ma (N mm)	Mcr (N mm)	Mcr/Ma	**Ie (mm^4)**
21333333333	9.961E+09	1.421E+09	173070379	0.122	**9981452656**

5. Calculo de la Inercia de la Seccion Completa

Seccion : Rectangular

Ig = 21333333333 mm4

6. Calculo del módulo de elasticidad

E = 32900 MPa

7. Deflexión elástica inmediata

δDL= 9.9 **mm**
δLL= 1 **mm**

8. Factor de deflexion adicional a largo plazo

di 1644
d (mm) = 750
cuantía negativa, ρ' = 0.0044

Tiempo	**ε**	**λ_Δ**
6 meses	1.2	0.984
1 año	1.4	1.148
5 años	2	1.640

DEFLEXION ESPERADA A LARGO PLAZO

Tiempo	Instantanea	Largo plazo	Total (mm)	**CUMPLE NSR-10**
6 meses	10.9	10.7	21.6	**NO CUMPLE**
1 año	10.9	12.5	23.4	**NO CUMPLE**
5 años	10.9	17.9	28.8	**NO CUMPLE**

DEFLEXIÓN MÁXIMA PERMITIDA NSR-10

Limite de deflexión = 480 *Sistema de entrepiso o cubierta ligado a elementos no estructurales susceptibles a daños*
Luz de la viga = 5600 mm
Deflexión = 11.7 mm

REQUIERE CONTRAFLECHA DE 1.5 cm

CÁLCULO DE DEFLEXIÓN EN VIGAS

PROYECTO: **UNAL-SGC**
LOCALIZACIÓN: **V901(50x80) Voladizo eje 2**

1. Propiedades de la Seccion

B (mm)	H (mm)	LUZ (mm)	As (mm2)	d (mm)	As' (mm2)	d' (mm)	f'c (MPa)
500	800	5600	7356	750	2976	50	49

2. Calculo de la Inercia de la seccion fisurada

Posicion del Eje Neutro:

n	n As	(2n-1) As'	Coef a	Coef b	Coef c
6.08	44724.48	33212.16	250	77936.64	-35203968

Solución de la ecuación cuadrática

x1	x2	**Eje Neutro (mm)**
250.47	-562.21	**250.467**

Inercia de la seccion fisurada, Icr (mm4) = **15113728791**

3. Modulo de rotura:

f'c (MPa)	Ec (MPa)	fr (MPa)	yt (mm)
49	32900	4.34	499.53

4. Calculo de la Inercia efectiva

Ig (mm^4)	Icr (mm^4)	Ma (N mm)	Mcr (N mm)	Mcr/Ma	**Ie (mm^4)**
21333333333	1.511E+10	1.724E+09	185346414	0.107	**15121455288**

5. Calculo de la Inercia de la Seccion Completa

Seccion : Rectangular

Ig = 21333333333 mm4

6. Calculo del módulo de elasticidad

E = 32900 MPa

7. Deflexión elástica inmediata

δDL= 8.6 **mm**
δLL= 1.2 **mm**

8. Factor de deflexion adicional a largo plazo

di 2976
d (mm) = 750
cuantía negativa, ρ' = 0.0079

Tiempo	**ε**	**λ_Δ**
6 meses	1.2	0.859
1 año	1.4	1.002
5 años	2	1.432

DEFLEXION ESPERADA A LARGO PLAZO

Tiempo	Instantanea	Largo plazo	Total (mm)	**CUMPLE NSR-10**
6 meses	9.8	8.4	18.2	**NO CUMPLE**
1 año	9.8	9.8	19.6	**NO CUMPLE**
5 años	9.8	14.0	23.8	**NO CUMPLE**

DEFLEXIÓN MÁXIMA PERMITIDA NSR-10

Limite de deflexión = 480 *Sistema de entrepiso o cubierta ligado a elementos no estructurales susceptibles a daños*
Luz de la viga = 5600 mm
Deflexión = 11.7 mm

REQUIERE CONTRAFLECHA DE 1 cm

CÁLCULO DE DEFLEXIÓN EN VIGAS

PROYECTO: **UNAL-SGC**
LOCALIZACIÓN: **V902(60x120) Voladizo eje 8**

1. Propiedades de la Seccion

B (mm)	H (mm)	LUZ (mm)	As (mm2)	d (mm)	As' (mm2)	d' (mm)	f'c (MPa)
600	1200	9100	11466	750	7047	50	49

2. Calculo de la Inercia de la seccion fisurada

Posicion del Eje Neutro:

n	n As	(2n-1) As'	Coef a	Coef b	Coef c
6.08	69713.28	78644.52	300	148357.8	-56217186

Solución de la ecuación cuadrática

x1	x2	**Eje Neutro (mm)**
251.26	-745.79	**251.264**

Inercia de la seccion fisurada, Icr (mm4) = **23698622972**

3. Modulo de rotura:

f'c (MPa)	Ec (MPa)	fr (MPa)	yt (mm)
49	32900	4.34	498.74

4. Calculo de la Inercia efectiva

Ig (mm^4)	Icr (mm^4)	Ma (N mm)	Mcr (N mm)	Mcr/Ma	**Ie (mm^4)**
86400000000	2.370E+10	4.456E+09	751853351	0.169	**23999859895**

5. Calculo de la Inercia de la Seccion Completa

Seccion : Rectangular

Ig = 86400000000 mm4

6. Calculo del módulo de elasticidad

E = 32900 MPa

7. Deflexión elástica inmediata

δDL= 26.9 **mm**
δLL= 4 **mm**

8. Factor de deflexion adicional a largo plazo

Acero negativo, As' (mm2) = 7047
d (mm) = 750
cuantía negativa, ρ' = 0.0157

Tiempo	**ε**	**λ_Δ**
6 meses	1.2	0.673
1 año	1.4	0.785
5 años	2	1.122

DEFLEXION ESPERADA A LARGO PLAZO

Tiempo	Instantanea	Largo plazo	Total (mm)	**CUMPLE NSR-10**
6 meses	30.9	20.8	51.7	**NO CUMPLE**
1 año	30.9	24.3	55.2	**NO CUMPLE**
5 años	30.9	34.7	65.6	**NO CUMPLE**

DEFLEXIÓN MÁXIMA PERMITIDA NSR-10

Limite de deflexión = 480 *Sistema de entrepiso o cubierta ligado a elementos no estructurales susceptibles a daños*
Luz de la viga = 9100 mm
Deflexión = 19.0 mm

REQUIERE CONTRAFLECHA DE 4.5 cm

CÁLCULO DE DEFLEXIÓN EN VIGAS

PROYECTO: **UNAL-SGC**
LOCALIZACIÓN: **V904(60x80) Voladizo eje 15**

1. Propiedades de la Seccion

B (mm)	H (mm)	LUZ (mm)	As (mm2)	d (mm)	As' (mm2)	d' (mm)	f'c (MPa)
600	800	4250	4080	750	4080	50	49

2. Calculo de la Inercia de la seccion fisurada

Posicion del Eje Neutro:

n	n As	(2n-1) As'	Coef a	Coef b	Coef c
6.08	24806.4	45532.8	300	70339.2	-20881440

Solución de la ecuación cuadrática

x1	x2	**Eje Neutro (mm)**
171.47	-405.93	**171.469**

Inercia de la seccion fisurada, Icr (mm4) = **9982772221**

3. Modulo de rotura:

f'c (MPa)	Ec (MPa)	fr (MPa)	yt (mm)
49	32900	4.34	578.53

4. Calculo de la Inercia efectiva

Ig (mm^4)	Icr (mm^4)	Ma (N mm)	Mcr (N mm)	Mcr/Ma	**Ie (mm^4)**
25600000000	9.983E+09	1.041E+09	192044952	0.184	**10080692432**

5. Calculo de la Inercia de la Seccion Completa

Seccion : Rectangular

Ig = 25600000000 mm4

6. Calculo del módulo de elasticidad

E = 32900 MPa

7. Deflexión elástica inmediata

δDL= 2.6 **mm**
δLL= 0.3 **mm**

8. Factor de deflexion adicional a largo plazo

di 4080
d (mm) = 750
cuantía negativa, ρ' = 0.0091

Tiempo	**ε**	**λ_Δ**
6 meses	1.2	0.826
1 año	1.4	0.963
5 años	2	1.376

DEFLEXION ESPERADA A LARGO PLAZO

Tiempo	Instantanea	Largo plazo	Total (mm)	**CUMPLE NSR-10**
6 meses	2.9	2.4	5.3	**OK**
1 año	2.9	2.8	5.7	**OK**
5 años	2.9	4.0	6.9	**OK**

DEFLEXIÓN MÁXIMA PERMITIDA NSR-10

Limite de deflexión = 480 *Sistema de entrepiso o cubierta ligado a elementos no estructurales susceptibles a daños*
Luz de la viga = 4250 mm
Deflexión = 8.9 mm

NO REQUIERE CONTRAFLECHA

CÁLCULO DE DEFLEXIÓN EN VIGAS

PROYECTO: **UNAL-SGC**
LOCALIZACIÓN: **V905(50x120) Voladizo eje 8**

1. Propiedades de la Seccion

B (mm)	H (mm)	LUZ (mm)	As (mm2)	d (mm)	As' (mm2)	d' (mm)	f'c (MPa)
500	1200	7950	9009	750	3342	50	49

2. Calculo de la Inercia de la seccion fisurada

Posicion del Eje Neutro:

n	n As	(2n-1) As'	Coef a	Coef b	Coef c
6.08	54774.72	37296.72	250	92071.44	-42945876

Solución de la ecuación cuadrática

x1	x2	**Eje Neutro (mm)**
269.39	-637.68	**269.390**

Inercia de la seccion fisurada, Icr (mm4) = **17705672328**

3. Modulo de rotura:

f'c (MPa)	Ec (MPa)	fr (MPa)	yt (mm)
49	32900	4.34	480.61

4. Calculo de la Inercia efectiva

Ig (mm^4)	Icr (mm^4)	Ma (N mm)	Mcr (N mm)	Mcr/Ma	**Ie (mm^4)**
72000000000	1.771E+10	4.456E+09	650173784	0.146	**17874356575**

5. Calculo de la Inercia de la Seccion Completa

Seccion : Rectangular

Ig = 72000000000 mm4

6. Calculo del módulo de elasticidad

E = 32900 MPa

7. Deflexión elástica inmediata

δDL= 22.9 **mm**
δLL= 3.7 **mm**

8. Factor de deflexion adicional a largo plazo

di 3342
d (mm) = 750
cuantía negativa, ρ' = 0.0089

Tiempo	**ε**	**λ_Δ**
6 meses	1.2	0.830
1 año	1.4	0.968
5 años	2	1.384

DEFLEXION ESPERADA A LARGO PLAZO

Tiempo	Instantanea	Largo plazo	Total (mm)	**CUMPLE NSR-10**
6 meses	26.6	22.1	48.7	**NO CUMPLE**
1 año	26.6	25.8	52.4	**NO CUMPLE**
5 años	26.6	36.8	63.4	**NO CUMPLE**

DEFLEXIÓN MÁXIMA PERMITIDA NSR-10

Limite de deflexión = 480 *Sistema de entrepiso o cubierta ligado a elementos no estructurales susceptibles a daños*
Luz de la viga = 7950 mm
Deflexión = 16.6 mm

REQUIERE CONTRAFLECHA DE 4.5 cm

CÁLCULO DE DEFLEXIÓN EN VIGAS

PROYECTO: **UNAL-SGC**
LOCALIZACIÓN: **V905(50x80) Voladizo eje 9**

1. Propiedades de la Seccion

B (mm)	H (mm)	LUZ (mm)	As (mm2)	d (mm)	As' (mm2)	d' (mm)	f'c (MPa)
500	800	5300	5610	750	2691	50	49

2. Calculo de la Inercia de la seccion fisurada

Posicion del Eje Neutro:

n	n As	(2n-1) As'	Coef a	Coef b	Coef c
6.08	34108.8	30031.56	250	64140.36	-27083178

Solución de la ecuación cuadrática

x1	x2	**Eje Neutro (mm)**
224.97	-481.54	**224.974**

Inercia de la seccion fisurada, Icr (mm4) = **12219391902**

3. Modulo de rotura:

f'c (MPa)	Ec (MPa)	fr (MPa)	yt (mm)
49	32900	4.34	525.03

4. Calculo de la Inercia efectiva

Ig (mm^4)	Icr (mm^4)	Ma (N mm)	Mcr (N mm)	Mcr/Ma	**Ie (mm^4)**
21333333333	1.222E+10	1.308E+09	176346707	0.135	**12241744283**

5. Calculo de la Inercia de la Seccion Completa

Seccion : Rectangular

Ig = 21333333333 mm4

6. Calculo del módulo de elasticidad

E = 32900 MPa

7. Deflexión elástica inmediata

δDL= 4.1 **mm**
δLL= 0.6 **mm**

8. Factor de deflexion adicional a largo plazo

di 2691
d (mm) = 750
cuantía negativa, ρ' = 0.0072

Tiempo	**ε**	**λ_Δ**
6 meses	1.2	0.883
1 año	1.4	1.030
5 años	2	1.472

DEFLEXION ESPERADA A LARGO PLAZO

Tiempo	Instantanea	Largo plazo	Total (mm)	**CUMPLE NSR-10**
6 meses	4.7	4.2	8.9	**OK**
1 año	4.7	4.8	9.5	**OK**
5 años	4.7	6.9	11.6	**NO CUMPLE**

DEFLEXIÓN MÁXIMA PERMITIDA NSR-10

Limite de deflexión = 480 *Sistema de entrepiso o cubierta ligado a elementos no estructurales susceptibles a daños*
Luz de la viga = 5300 mm
Deflexión = 11.0 mm

REQUIERE CONTRAFLECHA DE 0 cm

CÁLCULO DE DEFLEXIÓN EN VIGAS

PROYECTO: **UNAL-SGC**
LOCALIZACIÓN: **V906(50x80) Voladizo eje 15**

1. Propiedades de la Seccion

B (mm)	H (mm)	LUZ (mm)	As (mm2)	d (mm)	As' (mm2)	d' (mm)	f'c (MPa)
500	800	6000	5922	750	2691	50	49

2. Calculo de la Inercia de la seccion fisurada

Posicion del Eje Neutro:

n	n As	(2n-1) As'	Coef a	Coef b	Coef c
6.08	36005.76	30031.56	250	66037.32	-28505898

Solución de la ecuación cuadrática

x1	x2	**Eje Neutro (mm)**
230.51	-494.66	**230.510**

Inercia de la seccion fisurada, Icr (mm4) = **12736766331**

3. Modulo de rotura:

f'c (MPa)	Ec (MPa)	fr (MPa)	yt (mm)
49	32900	4.34	519.49

4. Calculo de la Inercia efectiva

Ig (mm^4)	Icr (mm^4)	Ma (N mm)	Mcr (N mm)	Mcr/Ma	**Ie (mm^4)**
21333333333	1.274E+10	1.014E+09	178225930	0.176	**12783449722**

5. Calculo de la Inercia de la Seccion Completa

Seccion : Rectangular

Ig = 21333333333 mm4

6. Calculo del módulo de elasticidad

E = 32900 MPa

7. Deflexión elástica inmediata

δDL= 8.1 **mm**
δLL= 0.9 **mm**

8. Factor de deflexion adicional a largo plazo

di 2691
d (mm) = 750
cuantía negativa, ρ' = 0.0072

Tiempo	**ε**	**λ_Δ**
6 meses	1.2	0.883
1 año	1.4	1.030
5 años	2	1.472

DEFLEXION ESPERADA A LARGO PLAZO

Tiempo	Instantanea	Largo plazo	Total (mm)	**CUMPLE NSR-10**
6 meses	9	7.9	16.9	**NO CUMPLE**
1 año	9	9.3	18.3	**NO CUMPLE**
5 años	9	13.2	22.2	**NO CUMPLE**

DEFLEXIÓN MÁXIMA PERMITIDA NSR-10

Limite de deflexión = 480 *Sistema de entrepiso o cubierta ligado a elementos no estructurales susceptibles a daños*
Luz de la viga = 6000 mm
Deflexión = 12.5 mm

REQUIERE CONTRAFLECHA DE 1 cm

CÁLCULO DE DEFLEXIÓN EN VIGAS

PROYECTO: **UNAL-SGC**
LOCALIZACIÓN: **V906(50x80) Voladizo eje 11**

1. Propiedades de la Seccion

B (mm)	H (mm)	LUZ (mm)	As (mm2)	d (mm)	As' (mm2)	d' (mm)	f'c (MPa)
500	800	5300	5505	750	2013	50	49

2. Calculo de la Inercia de la seccion fisurada

Posicion del Eje Neutro:

n	n As	(2n-1) As'	Coef a	Coef b	Coef c
6.08	33470.4	22465.08	250	55935.48	-26226054

Solución de la ecuación cuadrática

x1	x2	**Eje Neutro (mm)**
230.79	-454.54	**230.794**

Inercia de la seccion fisurada, Icr (mm4) = **11805990134**

3. Modulo de rotura:

f'c (MPa)	Ec (MPa)	fr (MPa)	yt (mm)
49	32900	4.34	519.21

4. Calculo de la Inercia efectiva

Ig (mm^4)	Icr (mm^4)	Ma (N mm)	Mcr (N mm)	Mcr/Ma	**Ie (mm^4)**
21333333333	1.181E+10	8.082E+08	178323595	0.221	**11908321662**

5. Calculo de la Inercia de la Seccion Completa

Seccion : Rectangular

Ig = 21333333333 mm4

6. Calculo del módulo de elasticidad

E = 32900 MPa

7. Deflexión elástica inmediata

δDL= 6.5 **mm**
δLL= 0.9 **mm**

8. Factor de deflexion adicional a largo plazo

di 2013
d (mm) = 750
cuantía negativa, ρ' = 0.0054

Tiempo	**ε**	**λ_Δ**
6 meses	1.2	0.946
1 año	1.4	1.104
5 años	2	1.577

DEFLEXION ESPERADA A LARGO PLAZO

Tiempo	Instantanea	Largo plazo	Total (mm)	**CUMPLE NSR-10**
6 meses	7.4	7.0	14.4	**NO CUMPLE**
1 año	7.4	8.2	15.6	**NO CUMPLE**
5 años	7.4	11.7	19.1	**NO CUMPLE**

DEFLEXIÓN MÁXIMA PERMITIDA NSR-10

Limite de deflexión = 480 *Sistema de entrepiso o cubierta ligado a elementos no estructurales susceptibles a daños*
Luz de la viga = 5300 mm
Deflexión = 11.0 mm

REQUIERE CONTRAFLECHA DE 1 cm

CÁLCULO DE DEFLEXIÓN EN VIGAS

PROYECTO: **UNAL-SGC**
LOCALIZACIÓN: **V913(50x80) Voladizo escalera**

1. Propiedades de la Seccion

B (mm)	H (mm)	LUZ (mm)	As (mm2)	d (mm)	As' (mm2)	d' (mm)	f'c (MPa)
500	800	6100	1704	750	1420	50	49

2. Calculo de la Inercia de la seccion fisurada

Posicion del Eje Neutro:

n	n As	(2n-1) As'	Coef a	Coef b	Coef c
6.08	10360.32	15847.2	250	26207.52	-8562600

Solución de la ecuación cuadrática

x1	x2	**Eje Neutro (mm)**
139.93	-244.76	**139.933**

Inercia de la seccion fisurada, Icr (mm4) = **4440770292**

3. Modulo de rotura:

f'c (MPa)	Ec (MPa)	fr (MPa)	yt (mm)
49	32900	4.34	610.07

4. Calculo de la Inercia efectiva

Ig (mm^4)	Icr (mm^4)	Ma (N mm)	Mcr (N mm)	Mcr/Ma	**Ie (mm^4)**
21333333333	4.441E+09	4.660E+08	151764731	0.326	**5024207940**

5. Calculo de la Inercia de la Seccion Completa

Seccion : Rectangular

Ig = 21333333333 mm4

6. Calculo del módulo de elasticidad

E = 32900 MPa

7. Deflexión elástica inmediata

δDL= 9.9 **mm**
δLL= 4.6 **mm**

8. Factor de deflexion adicional a largo plazo

di 1420
d (mm) = 750
cuantía negativa, ρ' = 0.0038

Tiempo	**ε**	**λ_Δ**
6 meses	1.2	1.009
1 año	1.4	1.177
5 años	2	1.682

DEFLEXION ESPERADA A LARGO PLAZO

Tiempo	Instantanea	Largo plazo	Total (mm)	**CUMPLE NSR-10**
6 meses	14.5	14.6	29.1	**NO CUMPLE**
1 año	14.5	17.1	31.6	**NO CUMPLE**
5 años	14.5	24.4	38.9	**NO CUMPLE**

DEFLEXIÓN MÁXIMA PERMITIDA NSR-10

Limite de deflexión = 480 *Sistema de entrepiso o cubierta ligado a elementos no estructurales susceptibles a daños*
Luz de la viga = 6100 mm
Deflexión = 12.7 mm

REQUIERE CONTRAFLECHA DE 2.5 cm

CÁLCULO DE DEFLEXIÓN EN VIGAS

PROYECTO: **UNAL-SGC**
LOCALIZACIÓN: **V1104(60x120) Voladizo eje 8**

1. Propiedades de la Seccion

B (mm)	H (mm)	LUZ (mm)	As (mm2)	d (mm)	As' (mm2)	d' (mm)	f'c (MPa)
600	1200	9100	11466	750	7047	50	49

2. Calculo de la Inercia de la seccion fisurada

Posicion del Eje Neutro:

n	n As	(2n-1) As'	Coef a	Coef b	Coef c
6.08	69713.28	78644.52	300	148357.8	-56217186

Solución de la ecuación cuadrática

x1	x2	**Eje Neutro (mm)**
251.26	-745.79	**251.264**

Inercia de la seccion fisurada, Icr (mm4) = **23698622972**

3. Modulo de rotura:

f'c (MPa)	Ec (MPa)	fr (MPa)	yt (mm)
49	32900	4.34	498.74

4. Calculo de la Inercia efectiva

Ig (mm^4)	Icr (mm^4)	Ma (N mm)	Mcr (N mm)	Mcr/Ma	**Ie (mm^4)**
86400000000	2.370E+10	4.929E+09	751853351	0.153	**23921142600**

5. Calculo de la Inercia de la Seccion Completa

Seccion : Rectangular

Ig = 86400000000 mm4

6. Calculo del módulo de elasticidad

E = 32900 MPa

7. Deflexión elástica inmediata

δDL= 22 **mm**
δLL= 7.3 **mm**

8. Factor de deflexion adicional a largo plazo

Acero negativo, As' (mm2) = 7047
d (mm) = 750
cuantía negativa, ρ' = 0.0157

Tiempo	**ε**	**λ_Δ**
6 meses	1.2	0.673
1 año	1.4	0.785
5 años	2	1.122

DEFLEXION ESPERADA A LARGO PLAZO

Tiempo	Instantanea	Largo plazo	Total (mm)	**CUMPLE NSR-10**
6 meses	29.3	19.7	49.0	**NO CUMPLE**
1 año	29.3	23.0	52.3	**NO CUMPLE**
5 años	29.3	32.9	62.2	**NO CUMPLE**

DEFLEXIÓN MÁXIMA PERMITIDA NSR-10

Limite de deflexión = 480 *Sistema de entrepiso o cubierta ligado a elementos no estructurales susceptibles a daños*
Luz de la viga = 9100 mm
Deflexión = 19.0 mm

REQUIERE CONTRAFLECHA DE 4.5 cm

CÁLCULO DE DEFLEXIÓN EN VIGAS

PROYECTO: **UNAL-SGC**
LOCALIZACIÓN: **V1200(60x120) Voladizo eje 8**

1. Propiedades de la Seccion

B (mm)	H (mm)	LUZ (mm)	As (mm2)	d (mm)	As' (mm2)	d' (mm)	f'c (MPa)
600	1200	9100	8862	750	7047	50	49

2. Calculo de la Inercia de la seccion fisurada

Posicion del Eje Neutro:

n	n As	(2n-1) As'	Coef a	Coef b	Coef c
6.08	53880.96	78644.52	300	132525.48	-44342946

Solución de la ecuación cuadrática

x1	x2	**Eje Neutro (mm)**
222.52	-664.27	**222.516**

Inercia de la seccion fisurada, Icr (mm4) = **19535907934**

3. Modulo de rotura:

f'c (MPa)	Ec (MPa)	fr (MPa)	yt (mm)
49	32900	4.34	527.48

4. Calculo de la Inercia efectiva

Ig (mm^4)	Icr (mm^4)	Ma (N mm)	Mcr (N mm)	Mcr/Ma	**Ie (mm^4)**
86400000000	1.954E+10	4.642E+09	710876008	0.153	**19776048057**

5. Calculo de la Inercia de la Seccion Completa

Seccion : Rectangular

Ig = 86400000000 mm4

6. Calculo del módulo de elasticidad

E = 32900 MPa

7. Deflexión elástica inmediata

δDL= 26.8 **mm**
δLL= 11.6 **mm**

8. Factor de deflexion adicional a largo plazo

Acero negativo, As' (mm2) = 7047
d (mm) = 750
cuantía negativa, ρ' = 0.0157

Tiempo	**ε**	**λ_Δ**
6 meses	1.2	0.673
1 año	1.4	0.785
5 años	2	1.122

DEFLEXION ESPERADA A LARGO PLAZO

Tiempo	Instantanea	Largo plazo	Total (mm)	**CUMPLE NSR-10**
6 meses	38.4	25.8	64.2	**NO CUMPLE**
1 año	38.4	30.2	68.6	**NO CUMPLE**
5 años	38.4	43.1	81.5	**NO CUMPLE**

DEFLEXIÓN MÁXIMA PERMITIDA NSR-10

Limite de deflexión = 480 *Sistema de entrepiso o cubierta ligado a elementos no estructurales susceptibles a daños*
Luz de la viga = 9100 mm
Deflexión = 19.0 mm

REQUIERE CONTRAFLECHA DE 6.5 cm

CÁLCULO DE DEFLEXIÓN EN VIGAS

PROYECTO: **UNAL-SGC**
LOCALIZACIÓN: **V1201(60x80) Voladizo eje 15**

1. Propiedades de la Seccion

B (mm)	H (mm)	LUZ (mm)	As (mm2)	d (mm)	As' (mm2)	d' (mm)	f'c (MPa)
600	800	4250	6120	750	3060	50	49

2. Calculo de la Inercia de la seccion fisurada

Posicion del Eje Neutro:

n	n As	(2n-1) As'	Coef a	Coef b	Coef c
6.08	37209.6	34149.6	300	71359.2	-29614680

Solución de la ecuación cuadrática

x1	x2	**Eje Neutro (mm)**
217.02	-454.88	**217.015**

Inercia de la seccion fisurada, Icr (mm4) = **13566898803**

3. Modulo de rotura:

f'c (MPa)	Ec (MPa)	fr (MPa)	yt (mm)
49	32900	4.34	532.98

4. Calculo de la Inercia efectiva

Ig (mm^4)	Icr (mm^4)	Ma (N mm)	Mcr (N mm)	Mcr/Ma	**Ie (mm^4)**
25600000000	1.357E+10	1.166E+09	208456168	0.179	**13635636042**

5. Calculo de la Inercia de la Seccion Completa

Seccion : Rectangular

Ig = 25600000000 mm4

6. Calculo del módulo de elasticidad

E = 32900 MPa

7. Deflexión elástica inmediata

δDL= 2.2 **mm**
δLL= 0.6 **mm**

8. Factor de deflexion adicional a largo plazo

di 3060
d (mm) = 750
cuantía negativa, ρ' = 0.0068

Tiempo	**ε**	**λ_Δ**
6 meses	1.2	0.896
1 año	1.4	1.045
5 años	2	1.493

DEFLEXION ESPERADA A LARGO PLAZO

Tiempo	Instantanea	Largo plazo	Total (mm)	**CUMPLE NSR-10**
6 meses	2.8	2.5	5.3	**OK**
1 año	2.8	2.9	5.7	**OK**
5 años	2.8	4.2	7.0	**OK**

DEFLEXIÓN MÁXIMA PERMITIDA NSR-10

Limite de deflexión = 480 *Sistema de entrepiso o cubierta ligado a elementos no estructurales susceptibles a daños*
Luz de la viga = 4250 mm
Deflexión = 8.9 mm

NO REQUIERE CONTRAFLECHA

CÁLCULO DE DEFLEXIÓN EN VIGAS

PROYECTO: **UNAL-SGC**
LOCALIZACIÓN: **V1202(50x120) Voladizo eje 8**

1. Propiedades de la Seccion

B (mm)	H (mm)	LUZ (mm)	As (mm2)	d (mm)	As' (mm2)	d' (mm)	f'c (MPa)
500	1200	7950	10647	750	3960	50	49

2. Calculo de la Inercia de la seccion fisurada

Posicion del Eje Neutro:

n	n As	(2n-1) As'	Coef a	Coef b	Coef c
6.08	64733.76	44193.6	250	108927.36	-50760000

Solución de la ecuación cuadrática

x1	x2	**Eje Neutro (mm)**
282.65	-718.36	**282.646**

Inercia de la seccion fisurada, Icr (mm4) = **20294447082**

3. Modulo de rotura:

f'c (MPa)	Ec (MPa)	fr (MPa)	yt (mm)
49	32900	4.34	467.35

4. Calculo de la Inercia efectiva

Ig (mm^4)	Icr (mm^4)	Ma (N mm)	Mcr (N mm)	Mcr/Ma	**Ie (mm^4)**
72000000000	2.029E+10	3.295E+09	668614808	0.203	**20726355975**

5. Calculo de la Inercia de la Seccion Completa

Seccion : Rectangular

Ig = 72000000000 mm4

6. Calculo del módulo de elasticidad

E = 32900 MPa

7. Deflexión elástica inmediata

δDL= 23.9 **mm**
δLL= 11.1 **mm**

8. Factor de deflexion adicional a largo plazo

di 3960
d (mm) = 750
cuantía negativa, ρ' = 0.0106

Tiempo	**ε**	**λ_Δ**
6 meses	1.2	0.785
1 año	1.4	0.916
5 años	2	1.309

DEFLEXION ESPERADA A LARGO PLAZO

Tiempo	Instantanea	Largo plazo	Total (mm)	**CUMPLE NSR-10**
6 meses	35	27.5	62.5	**NO CUMPLE**
1 año	35	32.1	67.1	**NO CUMPLE**
5 años	35	45.8	80.8	**NO CUMPLE**

DEFLEXIÓN MÁXIMA PERMITIDA NSR-10

Limite de deflexión = 480 *Sistema de entrepiso o cubierta ligado a elementos no estructurales susceptibles a daños*
Luz de la viga = 7950 mm
Deflexión = 16.6 mm

REQUIERE CONTRAFLECHA DE 6.5 cm

CÁLCULO DE DEFLEXIÓN EN VIGAS

PROYECTO: **UNAL-SGC**
LOCALIZACIÓN: **V1202(50x80) Voladizo eje 9**

1. Propiedades de la Seccion

B (mm)	H (mm)	LUZ (mm)	As (mm2)	d (mm)	As' (mm2)	d' (mm)	f'c (MPa)
500	800	5300	4731	750	2478	50	49

2. Calculo de la Inercia de la seccion fisurada

Posicion del Eje Neutro:

n	n As	(2n-1) As'	Coef a	Coef b	Coef c
6.08	28764.48	27654.48	250	56418.96	-22956084

Solución de la ecuación cuadrática

x1	x2	**Eje Neutro (mm)**
210.51	-436.19	**210.514**

Inercia de la seccion fisurada, Icr (mm4) = **10639134296**

3. Modulo de rotura:

f'c (MPa)	Ec (MPa)	fr (MPa)	yt (mm)
49	32900	4.34	539.49

4. Calculo de la Inercia efectiva

Ig (mm^4)	Icr (mm^4)	Ma (N mm)	Mcr (N mm)	Mcr/Ma	**Ie (mm^4)**
21333333333	1.064E+10	1.147E+09	171620279	0.150	**10674964009**

5. Calculo de la Inercia de la Seccion Completa

Seccion : Rectangular

Ig = 21333333333 mm4

6. Calculo del módulo de elasticidad

E = 32900 MPa

7. Deflexión elástica inmediata

δDL= 2.3 **mm**
δLL= 0.9 **mm**

8. Factor de deflexion adicional a largo plazo

di 2478
d (mm) = 750
cuantía negativa, ρ' = 0.0066

Tiempo	**ε**	**λ_Δ**
6 meses	1.2	0.902
1 año	1.4	1.052
5 años	2	1.503

DEFLEXION ESPERADA A LARGO PLAZO

Tiempo	Instantanea	Largo plazo	Total (mm)	**CUMPLE NSR-10**
6 meses	3.2	2.9	6.1	**OK**
1 año	3.2	3.4	6.6	**OK**
5 años	3.2	4.8	8.0	**OK**

DEFLEXIÓN MÁXIMA PERMITIDA NSR-10

Limite de deflexión = 480 *Sistema de entrepiso o cubierta ligado a elementos no estructurales susceptibles a daños*
Luz de la viga = 5300 mm
Deflexión = 11.0 mm

NO REQUIERE CONTRAFLECHA

CÁLCULO DE DEFLEXIÓN EN VIGAS

PROYECTO: **UNAL-SGC**
LOCALIZACIÓN: **V1203(50x80) Voladizo eje 15**

1. Propiedades de la Seccion

B (mm)	H (mm)	LUZ (mm)	As (mm2)	d (mm)	As' (mm2)	d' (mm)	f'c (MPa)
500	800	6000	5100	750	2691	50	49

2. Calculo de la Inercia de la seccion fisurada

Posicion del Eje Neutro:

n	n As	(2n-1) As'	Coef a	Coef b	Coef c
6.08	31008	30031.56	250	61039.56	-24757578

Solución de la ecuación cuadrática

x1	x2	**Eje Neutro (mm)**
215.46	-459.62	**215.461**

Inercia de la seccion fisurada, Icr (mm4) = **11349233936**

3. Modulo de rotura:

f'c (MPa)	Ec (MPa)	fr (MPa)	yt (mm)
49	32900	4.34	534.54

4. Calculo de la Inercia efectiva

Ig (mm^4)	Icr (mm^4)	Ma (N mm)	Mcr (N mm)	Mcr/Ma	**Ie (mm^4)**
21333333333	1.135E+10	1.166E+09	173208580	0.149	**11381951983**

5. Calculo de la Inercia de la Seccion Completa

Seccion : Rectangular

Ig = 21333333333 mm4

6. Calculo del módulo de elasticidad

E = 32900 MPa

7. Deflexión elástica inmediata

δDL= 12.2 **mm**
δLL= 2.8 **mm**

8. Factor de deflexion adicional a largo plazo

di 2691
d (mm) = 750
cuantía negativa, ρ' = 0.0072

Tiempo	**ε**	**λ_Δ**
6 meses	1.2	0.883
1 año	1.4	1.030
5 años	2	1.472

DEFLEXION ESPERADA A LARGO PLAZO

Tiempo	Instantanea	Largo plazo	Total (mm)	**CUMPLE NSR-10**
6 meses	15	13.2	28.2	**NO CUMPLE**
1 año	15	15.5	30.5	**NO CUMPLE**
5 años	15	22.1	37.1	**NO CUMPLE**

DEFLEXIÓN MÁXIMA PERMITIDA NSR-10

Limite de deflexión = 480 *Sistema de entrepiso o cubierta ligado a elementos no estructurales susceptibles a daños*
Luz de la viga = 6000 mm
Deflexión = 12.5 mm

REQUIERE CONTRAFLECHA DE 2.5 cm

CÁLCULO DE DEFLEXIÓN EN VIGAS

PROYECTO: **UNAL-SGC**
LOCALIZACIÓN: **V1203(50x80) Voladizo eje 11**

1. Propiedades de la Seccion

B (mm)	H (mm)	LUZ (mm)	As (mm2)	d (mm)	As' (mm2)	d' (mm)	f'c (MPa)
500	800	5300	5505	750	2004	50	49

2. Calculo de la Inercia de la seccion fisurada

Posicion del Eje Neutro:

n	n As	(2n-1) As'	Coef a	Coef b	Coef c
6.08	33470.4	22364.64	250	55835.04	-26221032

Solución de la ecuación cuadrática

x1	x2	**Eje Neutro (mm)**
230.90	-454.24	**230.900**

Inercia de la seccion fisurada, Icr (mm4) = **11802705176**

3. Modulo de rotura:

f'c (MPa)	Ec (MPa)	fr (MPa)	yt (mm)
49	32900	4.34	519.10

4. Calculo de la Inercia efectiva

Ig (mm^4)	Icr (mm^4)	Ma (N mm)	Mcr (N mm)	Mcr/Ma	**Ie (mm^4)**
21333333333	1.180E+10	8.596E+08	178360020	0.207	**11887852364**

5. Calculo de la Inercia de la Seccion Completa

Seccion : Rectangular

Ig = 21333333333 mm4

6. Calculo del módulo de elasticidad

E = 32900 MPa

7. Deflexión elástica inmediata

δDL= 13.8 **mm**
δLL= 2.2 **mm**

8. Factor de deflexion adicional a largo plazo

di 2004
d (mm) = 750
cuantía negativa, ρ' = 0.0053

Tiempo	**ε**	**λ_Δ**
6 meses	1.2	0.947
1 año	1.4	1.105
5 años	2	1.578

DEFLEXION ESPERADA A LARGO PLAZO

Tiempo	Instantanea	Largo plazo	Total (mm)	**CUMPLE NSR-10**
6 meses	16	15.2	31.2	**NO CUMPLE**
1 año	16	17.7	33.7	**NO CUMPLE**
5 años	16	25.3	41.3	**NO CUMPLE**

DEFLEXIÓN MÁXIMA PERMITIDA NSR-10

Limite de deflexión = 480 *Sistema de entrepiso o cubierta ligado a elementos no estructurales susceptibles a daños*
Luz de la viga = 5300 mm
Deflexión = 11.0 mm

REQUIERE CONTRAFLECHA DE 3 cm

MEMORIAS VIGUETAS PLANTA BAJA NE-1.05m

VT104/NE-1.05

B=0.15 H=0.60 L=4.45			B=0.15 H=0.60 L=5.90		
Mu=-8.01 As =3.98 As(r)=3.87		Mu=-3.38 As =3.98 As(r)=2.77	Mu=-5.29 As =3.98 As(r)=2.77		Mu=-5.34 As =3.98 As(r)=2.77
Mu=2.67 As =3.98 As(r)=2.77	Mu=2.82 As =3.98 As(r)=2.77	Mu=1.60 As =3.98 As(r)=2.77	Mu=1.76 As =3.98 As(r)=2.77	Mu=3.61 As =3.98 As(r)=2.77	Mu=1.78 As =3.98 As(r)=2.77
Vu=-6.29		Vu=4.79	Vu=-5.66		Vu=5.68

VT105/NE-1.05

B=0.15 H=0.60 L=3.27			B=0.15 H=0.60 L=9.48		
Mu=-2.05 As =3.98 As(r)=2.77		Mu=-10.24 As =14.93 As(r)=4.99	Mu=-28.18 As =14.93 As(r)=14.59		Mu=-30.38 As =17.39 As(r)=15.86
Mu=2.05 As =5.68 As(r)=2.77	Mu=2.05 As =5.68 As(r)=2.77	Mu=3.41 As =5.68 As(r)=2.77	Mu=9.39 As =5.68 As(r)=4.56	Mu=16.57 As =10.61 As(r)=8.23	Mu=10.13 As =10.20 As(r)=4.93
Vu=-3.56		Vu=7.77	Vu=-16.32		Vu=16.72

VT106/NE-1.05

B=0.15 H=0.60 L=3.50			B=0.15 H=0.60 L=9.25		
Mu=-3.74 As =3.98 As(r)=2.77		Mu=-9.72 As =14.93 As(r)=4.73	Mu=-26.68 As =14.93 As(r)=13.74		Mu=-28.61 As =14.93 As(r)=14.84
Mu=1.94 As =3.98 As(r)=2.77	Mu=1.94 As =3.98 As(r)=2.77	Mu=3.24 As =3.98 As(r)=2.77	Mu=8.89 As =3.98 As(r)=4.31	Mu=15.95 As =4.43 As(r)=7.91	Mu=9.54 As =5.68 As(r)=4.63
Vu=-4.78		Vu=7.52	Vu=-15.93		Vu=16.29

VT107/NE-1.05

B=0.15 H=0.60 L=0.55			B=0.15 H=0.60 L=3.30			B=0.15 H=0.60 L=7.30		
Mu=-16.03 As =8.32 As(r)=7.95		Mu=-3.21 As =8.32 As(r)=2.77	Mu=-1.73 As =5.68 As(r)=2.77		Mu=-8.67 As =8.32 As(r)=4.20	Mu=-16.17 As =8.32 As(r)=8.03		Mu=-10.84 As =5.68 As(r)=5.29
Mu=5.34 As =3.98 As(r)=2.77	Mu=3.21 As =3.98 As(r)=2.77	Mu=6.14 As =3.98 As(r)=2.95	Mu=3.66 As =3.98 As(r)=2.77	Mu=3.81 As =3.98 As(r)=2.77	Mu=2.89 As =3.98 As(r)=2.77	Mu=5.39 As =3.98 As(r)=2.77	Mu=7.59 As =3.98 As(r)=3.67	Mu=3.61 As =3.98 As(r)=2.77
Vu=-15.67		Vu=-10.96	Vu=-3.05		Vu=8.89	Vu=-11.60		Vu=10.23

B=0.15 H=0.60 L=0.63		
Mu=-7.83 As =5.68 As(r)=3.78		Mu=-8.28 As =5.68 As(r)=4.01
Mu=2.61 As =3.98 As(r)=2.77	Mu=1.66 As =3.98 As(r)=2.77	Mu=2.76 As =3.98 As(r)=2.77
Vu=-1.32		Vu=2.07

VT108/NE-1.05

B=0.15 H=0.60 L=3.75			B=0.15 H=0.60 L=9.00		
Mu=-6.11 As =3.98 As(r)=2.94		Mu=-10.91 As =13.01 As(r)=5.32	Mu=-24.11 As =13.01 As(r)=12.30		Mu=-27.34 As =14.93 As(r)=14.11
Mu=2.18 As =5.68 As(r)=2.77	Mu=2.18 As =5.68 As(r)=2.77	Mu=3.64 As =5.68 As(r)=2.77	Mu=8.04 As =5.68 As(r)=3.89	Mu=15.68 As =5.68 As(r)=7.77	Mu=9.11 As =7.74 As(r)=4.42
Vu=-5.61		Vu=7.66	Vu=-15.39		Vu=16.00

MEMORIAS VIGUETAS PLANTA BAJA NE-1.05m

VT109/NE-1.05

B=0.15 H=0.60 L=0.55			B=0.15 H=0.60 L=3.30			B=0.15 H=0.60 L=7.07		
Mu=-10.48 As =3.98 As(r)=5.11		Mu=-2.10 As =3.98 As(r)=2.77	Mu=-1.64 As =3.98 As(r)=2.77		Mu=-8.19 As =10.95 As(r)=3.96	Mu=-21.41 As =10.95 As(r)=10.82		Mu=-4.28 As =3.98 As(r)=2.77
Mu=3.49 As =3.98 As(r)=2.77	Mu=2.10 As =3.98 As(r)=2.77	Mu=2.34 As =3.98 As(r)=2.77	Mu=2.37 As =3.98 As(r)=2.77	Mu=3.40 As =3.98 As(r)=2.77	Mu=2.73 As =5.83 As(r)=2.77	Mu=7.14 As =5.83 As(r)=3.44	Mu=7.31 As =3.98 As(r)=3.94	Mu=4.28 As =3.98 As(r)=2.77
Vu=-9.48		Vu=-4.17	Vu=-3.47		Vu=8.47	Vu=-12.94		Vu=8.36

B=0.15 H=0.60 L=2.21		
Mu=-1.30 As =3.98 As(r)=2.77		Mu=-6.52 As =3.98 As(r)=3.14
Mu=1.30 As =3.98 As(r)=2.77	Mu=1.30 As =3.98 As(r)=2.77	Mu=2.17 As =3.98 As(r)=2.77
Vu=-1.17		Vu=5.74

VT110/NE-1.05

B=0.15 H=0.60 L=0.55			B=0.15 H=0.60 L=3.30			B=0.15 H=0.60 L=6.83		
Mu=-10.13 As =3.98 As(r)=4.93		Mu=-2.03 As =3.98 As(r)=2.77	Mu=-1.95 As =3.98 As(r)=2.77		Mu=-9.76 As =13.01 As(r)=4.75	Mu=-25.18 As =13.01 As(r)=12.89		Mu=-5.04 As =3.98 As(r)=2.77
Mu=3.38 As =3.98 As(r)=2.77	Mu=2.03 As =3.98 As(r)=2.77	Mu=2.90 As =3.98 As(r)=2.77	Mu=3.07 As =3.98 As(r)=2.77	Mu=3.25 As =3.98 As(r)=2.77	Mu=3.25 As =5.83 As(r)=2.77	Mu=8.39 As =5.83 As(r)=4.06	Mu=8.39 As =3.98 As(r)=4.31	Mu=5.04 As =5.68 As(r)=2.77
Vu=-9.18		Vu=-3.27	Vu=-2.91		Vu=9.00	Vu=-13.97		Vu=6.82

B=0.15 H=0.60 L=3.90		
Mu=-1.25 As =3.98 As(r)=2.77		Mu=-6.26 As =3.98 As(r)=3.01
Mu=2.69 As =5.68 As(r)=2.77	Mu=3.10 As =3.98 As(r)=2.77	Mu=2.09 As =3.98 As(r)=2.77
Vu=-2.85		Vu=7.66

VT111/NE-1.05

B=0.25 H=0.60 L=1.58		
Mu=-3.68 As =5.27 As(r)=4.62		Mu=-9.70 As =5.27 As(r)=4.66
Mu=1.94 As =5.27 As(r)=4.62	Mu=1.94 As =5.27 As(r)=4.62	Mu=3.23 As =5.27 As(r)=4.62
Vu=-1.46		Vu=8.42

VT112/NE-1.05

B=0.15 H=0.60 L=0.55			B=0.15 H=0.60 L=3.42			B=0.15 H=0.60 L=6.51		
Mu=-11.04 As =3.98 As(r)=5.39		Mu=-2.21 As =3.98 As(r)=2.77	Mu=-2.48 As =3.98 As(r)=2.77		Mu=-12.39 As =10.95 As(r)=6.07	Mu=-21.59 As =10.95 As(r)=10.91		Mu=-4.32 As =3.98 As(r)=2.77
Mu=3.68 As =3.98 As(r)=2.77	Mu=2.21 As =3.98 As(r)=2.77	Mu=3.54 As =3.98 As(r)=2.77	Mu=4.09 As =3.98 As(r)=2.77	Mu=2.48 As =3.98 As(r)=2.77	Mu=4.13 As =3.98 As(r)=2.77	Mu=7.20 As =3.98 As(r)=3.47	Mu=7.53 As =3.98 As(r)=4.32	Mu=4.32 As =3.98 As(r)=2.77
Vu=-9.57		Vu=-3.06	Vu=-2.22		Vu=9.66	Vu=-13.18		Vu=7.10

MEMORIAS VIGUETAS PLANTA BAJA NE-1.05m

B=0.15 H=0.60 L=5.29		
Mu=-1.58 As =3.98 As(r)=2.77		Mu=-7.92 As =3.98 As(r)=3.83
Mu=2.64 As =3.98 As(r)=2.77	Mu=6.18 As =3.98 As(r)=3.30	Mu=2.64 As =3.98 As(r)=2.77
Vu=-4.95		Vu=9.17

VT113/NE-1.05

B=0.15 H=0.60 L=0.55			B=0.15 H=0.60 L=3.53			B=0.15 H=0.60 L=6.23		
Mu=-11.41 As =3.98 As(r)=5.58		Mu=-2.28 As =3.98 As(r)=2.77	Mu=-1.95 As =3.98 As(r)=2.77		Mu=-9.75 As =8.32 As(r)=4.74	Mu=-15.17 As =8.32 As(r)=7.50		Mu=-3.72 As =3.98 As(r)=2.77
Mu=3.80 As =3.98 As(r)=2.77	Mu=2.28 As =3.98 As(r)=2.77	Mu=3.33 As =3.98 As(r)=2.77	Mu=1.95 As =3.98 As(r)=2.77	Mu=2.67 As =3.98 As(r)=2.77	Mu=3.25 As =3.98 As(r)=2.77	Mu=5.06 As =3.98 As(r)=2.77	Mu=7.23 As =3.98 As(r)=3.69	Mu=3.03 As =3.98 As(r)=2.77
Vu=-9.41		Vu=-2.28	Vu=-3.83		Vu=8.39	Vu=-11.37		Vu=8.04

B=0.15 H=0.60 L=6.60		
Mu=-2.35 As =3.98 As(r)=2.77		Mu=-11.73 As =5.68 As(r)=5.74
Mu=2.35 As =3.98 As(r)=2.77	Mu=7.68 As =3.98 As(r)=3.95	Mu=3.91 As =3.98 As(r)=2.77
Vu=-7.12		Vu=10.61

VT114/NE-1.05

B=0.15 H=0.60 L=0.71			B=0.15 H=0.60 L=3.66		
Mu=-11.61 As =4.83 As(r)=5.68		Mu=-2.32 As =4.83 As(r)=2.77	Mu=-1.89 As =4.83 As(r)=2.77		Mu=-9.46 As =4.83 As(r)=4.60
Mu=3.87 As =3.28 As(r)=2.77	Mu=2.32 As =3.28 As(r)=2.77	Mu=4.90 As =3.28 As(r)=2.77	Mu=1.89 As =3.28 As(r)=2.77	Mu=2.73 As =3.28 As(r)=2.77	Mu=3.15 As =3.28 As(r)=2.77
Vu=-9.90		Vu=-2.57	Vu=-4.41		Vu=8.33

VT115/NE-1.05

B=0.15 H=0.60 L=3.09		
Mu=-6.43 As =3.98 As(r)=3.10		Mu=-18.40 As =9.38 As(r)=9.20
Mu=3.68 As =4.83 As(r)=2.77	Mu=7.77 As =4.83 As(r)=3.90	Mu=6.13 As =4.83 As(r)=2.95
Vu=-9.09		Vu=12.26

VT116/NE-1.05

B=0.15 H=0.60 L=1.66			B=0.15 H=0.60 L=4.18			B=0.15 H=0.60 L=7.03		
Mu=-12.03 As =5.68 As(r)=5.89		Mu=-2.41 As =5.68 As(r)=2.77	Mu=-1.98 As =5.68 As(r)=2.77		Mu=-9.88 As =5.68 As(r)=4.81	Mu=-9.39 As =5.68 As(r)=4.56		Mu=-20.81 As =10.95 As(r)=10.49
Mu=4.01 As =3.98 As(r)=2.77	Mu=2.41 As =3.98 As(r)=2.77	Mu=5.03 As =3.98 As(r)=2.77	Mu=1.98 As =3.98 As(r)=2.77	Mu=3.29 As =3.98 As(r)=2.77	Mu=3.29 As =3.98 As(r)=2.77	Mu=4.16 As =3.98 As(r)=2.77	Mu=5.01 As =3.98 As(r)=2.77	Mu=6.94 As =3.98 As(r)=3.34
Vu=-9.94		Vu=-2.12	Vu=-5.40		Vu=8.65	Vu=-9.07		Vu=12.11

MEMORIAS VIGUETAS PLANTA BAJA NE-1.05m

VT117/NE-1.05

B=0.15 H=0.60 L=6.74		
Mu=-12.23 As =6.71 As(r)=5.99		Mu=-17.74 As =9.35 As(r)=8.85
Mu=4.08 As =4.83 As(r)=2.77	Mu=8.89 As =4.83 As(r)=4.31	Mu=5.91 As =4.83 As(r)=2.84
Vu=-10.94		Vu=12.28

VT118/NE-1.05

B=0.15 H=0.60 L=7.67			B=0.15 H=0.60 L=3.75			B=0.15 H=0.60 L=9.00		
Mu=-12.11 As =5.68 As(r)=5.93		Mu=-15.52 As =8.32 As(r)=7.69	Mu=-7.77 As =8.32 As(r)=3.76		Mu=-10.80 As =13.01 As(r)=5.27	Mu=-24.38 As =13.01 As(r)=12.45		Mu=-26.91 As =14.93 As(r)=13.87
Mu=4.04 As =5.68 As(r)=2.77	Mu=9.22 As =5.68 As(r)=4.48	Mu=5.17 As =3.98 As(r)=2.77	Mu=2.59 As =3.98 As(r)=2.77	Mu=2.16 As =5.68 As(r)=2.77	Mu=3.60 As =3.98 As(r)=2.77	Mu=8.13 As =3.98 As(r)=3.93	Mu=15.75 As =5.68 As(r)=7.81	Mu=8.97 As =7.74 As(r)=4.35
Vu=-10.98		Vu=11.83	Vu=-5.99		Vu=7.28	Vu=-15.46		Vu=15.94

VT119/NE-1.05

B=0.15 H=0.60 L=1.33			B=0.15 H=0.60 L=4.51			B=0.15 H=0.60 L=8.35		
Mu=-10.78 As =3.98 As(r)=5.26		Mu=-2.16 As =3.98 As(r)=2.77	Mu=-2.30 As =3.98 As(r)=2.77		Mu=-11.50 As =10.95 As(r)=5.62	Mu=-19.19 As =10.95 As(r)=9.62		Mu=-18.09 As =9.38 As(r)=9.04
Mu=3.59 As =3.98 As(r)=2.77	Mu=2.16 As =3.98 As(r)=2.77	Mu=2.27 As =3.98 As(r)=2.77	Mu=2.30 As =3.98 As(r)=2.77	Mu=3.39 As =3.98 As(r)=2.77	Mu=3.83 As =3.98 As(r)=2.77	Mu=6.40 As =3.98 As(r)=3.08	Mu=9.02 As =3.98 As(r)=4.38	Mu=6.03 As =5.68 As(r)=2.90
Vu=-8.59		Vu=-0.76	Vu=-5.64		Vu=9.19	Vu=-12.62		Vu=12.37

VT120/NE-1.05

B=0.15 H=0.60 L=7.54			B=0.15 H=0.60 L=3.75			B=0.15 H=0.60 L=9.00		
Mu=-12.11 As =5.68 As(r)=5.93		Mu=-13.54 As =8.88 As(r)=6.66	Mu=-6.43 As =6.88 As(r)=3.10		Mu=-14.20 As =11.44 As(r)=7.00	Mu=-22.68 As =11.44 As(r)=11.51		Mu=-27.74 As =14.93 As(r)=14.34
Mu=4.04 As =5.68 As(r)=2.77	Mu=9.39 As =5.68 As(r)=4.56	Mu=4.51 As =3.98 As(r)=2.77	Mu=2.84 As =3.98 As(r)=2.77	Mu=2.84 As =5.68 As(r)=2.77	Mu=4.73 As =3.98 As(r)=2.77	Mu=7.56 As =3.98 As(r)=3.65	Mu=16.19 As =5.68 As(r)=8.04	Mu=9.25 As =7.74 As(r)=4.49
Vu=-11.02		Vu=11.38	Vu=-4.98		Vu=8.29	Vu=-15.22		Vu=16.18

VT121/NE-1.05

B=0.15 H=0.60 L=1.00			B=0.15 H=0.60 L=4.83			B=0.15 H=0.60 L=9.66		
Mu=-7.51 As =5.68 As(r)=3.63		Mu=-1.50 As =5.68 As(r)=2.77	Mu=-2.87 As =5.68 As(r)=2.77		Mu=-13.11 As =17.39 As(r)=6.44	Mu=-29.95 As =17.39 As(r)=15.61		Mu=-16.34 As =8.32 As(r)=8.11
Mu=2.50 As =3.98 As(r)=2.77	Mu=1.50 As =3.98 As(r)=2.77	Mu=1.50 As =3.98 As(r)=2.77	Mu=2.62 As =3.98 As(r)=2.77	Mu=3.34 As =3.98 As(r)=2.77	Mu=4.37 As =7.68 As(r)=2.77	Mu=9.98 As =7.68 As(r)=4.86	Mu=14.67 As =3.98 As(r)=7.25	Mu=5.99 As =7.74 As(r)=2.88
Vu=-6.62		Vu=1.71	Vu=-5.95		Vu=9.65	Vu=-16.17		Vu=13.50

VT122/NE-1.05

B=0.15 H=0.60 L=7.40			B=0.15 H=0.60 L=3.75			B=0.15 H=0.60 L=9.00		
Mu=-13.27 As =5.68 As(r)=6.52		Mu=-11.62 As =5.68 As(r)=5.68	Mu=-4.85 As =5.68 As(r)=2.77		Mu=-15.54 As =10.95 As(r)=7.70	Mu=-22.10 As =10.95 As(r)=11.19		Mu=-28.06 As =14.93 As(r)=14.52
Mu=4.42 As =5.68 As(r)=2.77	Mu=9.07 As =5.68 As(r)=4.40	Mu=3.87 As =3.98 As(r)=2.77	Mu=3.11 As =3.98 As(r)=2.77	Mu=3.11 As =5.68 As(r)=2.77	Mu=5.18 As =3.98 As(r)=2.77	Mu=7.37 As =3.98 As(r)=3.56	Mu=16.32 As =5.68 As(r)=8.10	Mu=9.35 As =7.74 As(r)=4.54
Vu=-11.23		Vu=10.81	Vu=-4.36		Vu=8.91	Vu=-15.13		Vu=16.26

MEMORIAS VIGUETAS PLANTA BAJA NE-1.05m

VT123/NE-1.05

B=0.20 H=0.60 L=11.01		
Mu=-39.57 As =19.67 As(r)=20.60		Mu=-18.73 As =9.38 As(r)=9.23
Mu=13.19 As =10.20 As(r)=6.42	Mu=19.00 As =10.20 As(r)=9.37	Mu=7.91 As =10.20 As(r)=5.62
Vu=-18.55		Vu=14.93

VT124/NE-1.05

B=0.15 H=0.60 L=7.27			B=0.15 H=0.60 L=3.75			B=0.15 H=0.60 L=9.00		
Mu=-17.69 As =9.38 As(r)=8.82		Mu=-8.17 As =5.68 As(r)=3.95	Mu=-3.99 As =5.68 As(r)=2.77		Mu=-14.69 As =13.01 As(r)=7.26	Mu=-22.76 As =13.01 As(r)=11.55		Mu=-27.68 As =14.93 As(r)=14.30
Mu=5.90 As =5.68 As(r)=2.83	Mu=7.70 As =5.68 As(r)=3.74	Mu=3.54 As =3.98 As(r)=2.77	Mu=2.94 As =3.98 As(r)=2.77	Mu=2.94 As =5.68 As(r)=2.77	Mu=4.90 As =3.98 As(r)=2.77	Mu=7.59 As =3.98 As(r)=3.66	Mu=16.17 As =5.68 As(r)=8.03	Mu=9.23 As =7.74 As(r)=4.48
Vu=-12.04		Vu=9.55	Vu=-4.36		Vu=8.91	Vu=-15.23		Vu=16.16

VT125/NE-1.05

B=0.15 H=0.60 L=7.13			B=0.15 H=0.60 L=3.75			B=0.15 H=0.60 L=9.00		
Mu=-20.95 As =10.95 As(r)=10.57		Mu=-6.60 As =5.68 As(r)=3.18	Mu=-4.13 As =5.68 As(r)=2.77		Mu=-11.93 As =13.01 As(r)=5.84	Mu=-24.49 As =13.01 As(r)=12.51		Mu=-26.83 As =14.93 As(r)=13.82
Mu=6.98 As =5.68 As(r)=3.37	Mu=6.63 As =5.68 As(r)=3.19	Mu=4.19 As =3.98 As(r)=2.77	Mu=2.39 As =3.98 As(r)=2.77	Mu=2.39 As =5.68 As(r)=2.77	Mu=3.98 As =3.98 As(r)=2.77	Mu=8.16 As =3.98 As(r)=3.95	Mu=15.74 As =5.68 As(r)=7.80	Mu=8.94 As =7.74 As(r)=4.34
Vu=-12.50		Vu=8.67	Vu=-4.98		Vu=8.30	Vu=-15.47		Vu=15.92

VT126/NE-1.05

B=0.15 H=0.60 L=0.65			B=0.15 H=0.60 L=5.87			B=0.15 H=0.60 L=11.69		
Mu=-8.46 As =5.68 As(r)=4.10		Mu=-1.69 As =5.68 As(r)=2.77	Mu=-3.41 As =5.68 As(r)=2.77		Mu=-17.03 As =19.67 As(r)=8.48	Mu=-33.31 As =19.67 As(r)=17.59		Mu=-31.61 As =17.39 As(r)=16.58
Mu=2.82 As =3.98 As(r)=2.77	Mu=1.69 As =3.98 As(r)=2.77	Mu=1.69 As =3.98 As(r)=2.77	Mu=3.41 As =3.98 As(r)=2.77	Mu=4.53 As =3.98 As(r)=2.77	Mu=5.68 As =3.98 As(r)=2.77	Mu=11.10 As =3.98 As(r)=5.42	Mu=21.36 As =3.98 As(r)=10.79	Mu=10.54 As =5.68 As(r)=5.14
Vu=-6.71		Vu=1.36	Vu=-6.53		Vu=11.06	Vu=-17.84		Vu=17.56

VT127/NE-1.05

B=0.15 H=0.60 L=0.65			B=0.15 H=0.60 L=6.40			B=0.15 H=0.60 L=6.22		
Mu=-13.62 As =7.68 As(r)=6.70		Mu=-2.72 As =7.68 As(r)=2.77	Mu=-5.08 As =3.98 As(r)=2.77		Mu=-13.18 As =10.95 As(r)=6.48	Mu=-19.26 As =10.95 As(r)=9.66		Mu=-11.29 As =5.68 As(r)=5.52
Mu=4.54 As =3.98 As(r)=2.77	Mu=2.72 As =3.98 As(r)=2.77	Mu=2.72 As =3.98 As(r)=2.77	Mu=2.64 As =3.98 As(r)=2.77	Mu=6.53 As =3.98 As(r)=3.20	Mu=4.39 As =5.68 As(r)=2.77	Mu=6.42 As =5.68 As(r)=3.09	Mu=9.67 As =3.98 As(r)=4.70	Mu=3.85 As =5.68 As(r)=2.77
Vu=-9.37		Vu=-1.55	Vu=-8.19		Vu=10.62	Vu=-12.82		Vu=10.92

VT128/NE-1.05

B=0.15 H=0.60 L=0.65			B=0.15 H=0.60 L=6.93			B=0.15 H=0.60 L=1.56		
Mu=-14.48 As =7.68 As(r)=7.15		Mu=-2.90 As =7.68 As(r)=2.77	Mu=-6.69 As =7.37 As(r)=3.22		Mu=-12.32 As =7.68 As(r)=6.04	Mu=-3.17 As =7.68 As(r)=2.77		Mu=-15.87 As =7.68 As(r)=7.87
Mu=4.83 As =3.98 As(r)=2.77	Mu=2.90 As =3.98 As(r)=2.77	Mu=2.90 As =3.98 As(r)=2.77	Mu=2.46 As =3.98 As(r)=2.77	Mu=8.23 As =3.98 As(r)=3.98	Mu=4.11 As =3.98 As(r)=2.77	Mu=3.17 As =3.98 As(r)=2.77	Mu=3.17 As =3.98 As(r)=2.77	Mu=5.29 As =3.98 As(r)=2.77
Vu=-9.82		Vu=-2.27	Vu=-9.21		Vu=10.80	Vu=-0.77		Vu=8.89

MEMORIAS VIGUETAS PLANTA BAJA NE-1.05m

VT129/NE-1.05

B=0.15 H=0.60 L=0.65			B=0.15 H=0.60 L=6.54		
Mu=-9.43 As =5.18 As(r)=4.58		Mu=-1.89 As =5.18 As(r)=2.77	Mu=-8.71 As =5.18 As(r)=4.22		Mu=-14.97 As =7.53 As(r)=7.40
Mu=3.14 As =3.98 As(r)=2.77	Mu=1.89 As =3.98 As(r)=2.77	Mu=1.89 As =3.98 As(r)=2.77	Mu=2.99 As =3.98 As(r)=2.77	Mu=8.10 As =3.98 As(r)=3.92	Mu=4.99 As =3.98 As(r)=2.77
Vu=-6.86		Vu=0.44	Vu=-9.78		Vu=11.44

VT130/NE-1.05

B=0.15 H=0.60 L=0.83		
Mu=-5.71 As =3.98 As(r)=2.77		Mu=-0.00 As =3.98 As(r)=2.77
Mu=1.14 As =3.98 As(r)=2.77	Mu=0.00 As =3.98 As(r)=2.77	Mu=1.21 As =3.98 As(r)=2.77
Vu=-6.21		Vu=0.46

VT131/NE-1.05

B=0.15 H=0.60 L=1.31			B=0.15 H=0.60 L=1.24		
Mu=-7.87 As =3.98 As(r)=3.80		Mu=-1.57 As =3.98 As(r)=2.77	Mu=-0.94 As =3.98 As(r)=2.77		Mu=-0.27 As =3.98 As(r)=2.77
Mu=2.62 As =3.28 As(r)=2.77	Mu=1.57 As =3.28 As(r)=2.77	Mu=1.57 As =3.28 As(r)=2.77	Mu=0.31 As =3.28 As(r)=2.77	Mu=0.24 As =3.28 As(r)=2.77	Mu=0.19 As =3.28 As(r)=2.77
Vu=-7.15		Vu=-0.67	Vu=-2.52		Vu=1.62

VT132/NE-1.05

B=0.15 H=0.60 L=1.70			B=0.15 H=0.60 L=2.41		
Mu=-12.32 As =7.68 As(r)=6.04		Mu=-2.46 As =3.98 As(r)=2.77	Mu=-0.55 As =3.98 As(r)=2.77		Mu=-2.24 As =3.98 As(r)=2.77
Mu=4.11 As =3.28 As(r)=2.77	Mu=2.46 As =3.28 As(r)=2.77	Mu=5.77 As =3.28 As(r)=2.77	Mu=1.36 As =3.28 As(r)=2.77	Mu=2.61 As =3.28 As(r)=2.77	Mu=0.75 As =3.28 As(r)=2.77
Vu=-10.46		Vu=-3.30	Vu=-3.38		Vu=5.32

VT133/NE-1.05

B=0.15 H=0.60 L=2.19			B=0.15 H=0.60 L=3.76			B=0.15 H=0.60 L=4.31		
Mu=-16.74 As =9.38 As(r)=8.32		Mu=-3.35 As =3.98 As(r)=2.77	Mu=-1.32 As =3.98 As(r)=2.77		Mu=-6.58 As =3.98 As(r)=3.17	Mu=-2.23 As =3.98 As(r)=2.77		Mu=-8.30 As =3.98 As(r)=4.02
Mu=5.58 As =3.98 As(r)=2.77	Mu=3.35 As =3.98 As(r)=2.77	Mu=4.18 As =3.98 As(r)=2.77	Mu=1.32 As =3.98 As(r)=2.77	Mu=4.82 As =3.98 As(r)=2.77	Mu=2.19 As =3.98 As(r)=2.77	Mu=1.66 As =3.98 As(r)=2.77	Mu=2.46 As =3.98 As(r)=2.77	Mu=2.77 As =3.98 As(r)=2.77
Vu=-11.10		Vu=-3.28	Vu=-5.10		Vu=8.17	Vu=-5.17		Vu=7.81

VT134/NE-1.05

B=0.15 H=0.60 L=2.22			B=0.15 H=0.60 L=3.73			B=0.15 H=0.60 L=7.20		
Mu=-22.75 As =13.01 As(r)=11.55		Mu=-4.55 As =7.74 As(r)=2.77	Mu=-2.77 As =7.74 As(r)=2.77		Mu=-1.30 As =3.98 As(r)=2.77	Mu=-5.32 As =3.98 As(r)=2.77		Mu=-12.45 As =5.83 As(r)=6.11
Mu=7.58 As =3.98 As(r)=3.66	Mu=4.55 As =3.98 As(r)=2.77	Mu=4.55 As =3.98 As(r)=2.77	Mu=1.30 As =3.98 As(r)=2.77	Mu=6.48 As =3.98 As(r)=3.12	Mu=1.30 As =3.98 As(r)=2.77	Mu=2.49 As =3.98 As(r)=2.77	Mu=10.27 As =3.98 As(r)=5.00	Mu=4.15 As =5.68 As(r)=2.77
Vu=-12.40		Vu=-4.09	Vu=-7.26		Vu=6.01	Vu=-9.43		Vu=11.37

MEMORIAS VIGUETAS PLANTA BAJA NE-1.05m

VT135/NE-1.05

B=0.20 H=0.60 L=2.26			B=0.20 H=0.60 L=3.70			B=0.20 H=0.60 L=10.08		
Mu=-27.27 As =14.93 As(r)=13.73		Mu=-5.45 As =7.74 As(r)=3.70	Mu=-5.52 As =7.74 As(r)=3.70		Mu=-1.46 As =5.68 As(r)=3.70	Mu=-8.51 As =5.68 As(r)=4.10		Mu=-42.44 As =22.51 As(r)=22.28
Mu=9.09 As =5.68 As(r)=4.38	Mu=5.45 As =5.68 As(r)=3.70	Mu=5.45 As =5.68 As(r)=3.70	Mu=1.84 As =5.68 As(r)=3.70	Mu=6.76 As =5.68 As(r)=3.70	Mu=3.44 As =5.68 As(r)=3.70	Mu=8.49 As =5.68 As(r)=5.58	Mu=17.38 As =5.68 As(r)=9.30	Mu=14.15 As =10.20 As(r)=6.90
Vu=-13.75		Vu=-5.43	Vu=-8.54		Vu=4.73	Vu=-12.67		Vu=18.92

VT136/NE-1.05

B=0.15 H=0.60 L=6.56		
Mu=-14.76 As =7.53 As(r)=7.29		Mu=-12.40 As =5.68 As(r)=6.08
Mu=4.92 As =3.98 As(r)=2.77	Mu=5.55 As =3.98 As(r)=2.77	Mu=4.13 As =3.98 As(r)=2.77
Vu=-10.71		Vu=10.07

VT137/NE-1.05

B=0.15 H=0.60 L=2.29			B=0.15 H=0.60 L=3.66			B=0.15 H=0.60 L=9.51		
Mu=-27.00 As =14.93 As(r)=13.92		Mu=-5.40 As =7.74 As(r)=2.77	Mu=-6.45 As =7.74 As(r)=3.10		Mu=-1.51 As =5.68 As(r)=2.77	Mu=-10.27 As =5.68 As(r)=5.00		Mu=-28.53 As =14.93 As(r)=14.79
Mu=9.00 As =5.68 As(r)=4.37	Mu=5.40 As =5.68 As(r)=2.77	Mu=5.40 As =5.68 As(r)=2.77	Mu=2.15 As =5.68 As(r)=2.77	Mu=6.70 As =5.68 As(r)=3.58	Mu=4.25 As =5.68 As(r)=2.86	Mu=5.71 As =5.68 As(r)=2.77	Mu=18.08 As =5.68 As(r)=9.12	Mu=9.51 As =10.20 As(r)=4.62
Vu=-13.53		Vu=-5.22	Vu=-8.91		Vu=4.36	Vu=-12.97		Vu=16.57

VT138/NE-1.05

B=0.15 H=0.60 L=6.83			B=0.15 H=0.60 L=3.75			B=0.15 H=0.60 L=9.00		
Mu=-11.73 As =5.68 As(r)=5.74		Mu=-12.77 As =5.68 As(r)=6.27	Mu=-6.64 As =5.68 As(r)=3.20		Mu=-11.08 As =13.01 As(r)=5.41	Mu=-24.37 As =13.01 As(r)=12.44		Mu=-26.88 As =14.93 As(r)=13.85
Mu=3.91 As =3.98 As(r)=2.77	Mu=6.19 As =3.98 As(r)=2.98	Mu=4.26 As =3.98 As(r)=2.77	Mu=2.22 As =3.98 As(r)=2.77	Mu=2.22 As =3.98 As(r)=2.77	Mu=3.69 As =3.98 As(r)=2.77	Mu=8.12 As =3.98 As(r)=3.93	Mu=15.77 As =3.98 As(r)=7.82	Mu=8.96 As =7.74 As(r)=4.35
Vu=-10.06		Vu=10.35	Vu=-5.69		Vu=7.58	Vu=-15.46		Vu=15.93

VT139/NE-1.05

B=0.15 H=0.60 L=2.32			B=0.15 H=0.60 L=3.63			B=0.15 H=0.60 L=8.79		
Mu=-22.23 As =10.95 As(r)=11.26		Mu=-4.45 As =5.68 As(r)=2.77	Mu=-3.26 As =5.68 As(r)=2.77		Mu=-2.22 As =7.67 As(r)=2.77	Mu=-14.52 As =7.67 As(r)=7.17		Mu=-18.08 As =9.38 As(r)=9.03
Mu=7.41 As =3.98 As(r)=3.58	Mu=4.45 As =3.98 As(r)=2.77	Mu=4.45 As =3.98 As(r)=2.77	Mu=1.09 As =3.98 As(r)=2.77	Mu=5.06 As =3.98 As(r)=2.77	Mu=1.01 As =3.98 As(r)=2.77	Mu=4.84 As =3.98 As(r)=2.77	Mu=15.71 As =3.98 As(r)=7.79	Mu=6.03 As =5.68 As(r)=2.90
Vu=-12.06		Vu=-3.75	Vu=-6.86		Vu=6.41	Vu=-13.27		Vu=14.03

VT140/NE-1.05

B=0.15 H=0.60 L=6.70			B=0.15 H=0.60 L=3.75			B=0.15 H=0.60 L=9.00		
Mu=-10.51 As =5.68 As(r)=5.12		Mu=-11.58 As =5.68 As(r)=5.66	Mu=-5.73 As =5.68 As(r)=2.77		Mu=-13.95 As =11.44 As(r)=6.87	Mu=-22.63 As =11.44 As(r)=11.48		Mu=-27.73 As =14.93 As(r)=14.33
Mu=3.50 As =3.98 As(r)=2.77	Mu=6.71 As =3.98 As(r)=3.23	Mu=3.86 As =3.98 As(r)=2.77	Mu=2.79 As =3.98 As(r)=2.77	Mu=2.79 As =3.98 As(r)=2.77	Mu=4.65 As =3.98 As(r)=2.77	Mu=7.54 As =3.98 As(r)=3.64	Mu=16.21 As =3.98 As(r)=8.05	Mu=9.24 As =5.68 As(r)=4.49
Vu=-9.86		Vu=10.16	Vu=-4.89		Vu=8.38	Vu=-15.21		Vu=16.18

MEMORIAS VIGUETAS PLANTA BAJA NE-1.05m

VT141/NE-1.05

B=0.15 H=0.60 L=2.36			B=0.15 H=0.60 L=3.59			B=0.15 H=0.60 L=8.01		
Mu=-16.58 As =8.32 As(r)=8.24		Mu=-3.32 As =5.68 As(r)=2.77	Mu=-1.95 As =5.68 As(r)=2.77		Mu=-9.75 As =9.38 As(r)=4.74	Mu=-18.78 As =9.38 As(r)=9.40		Mu=-13.13 As =6.88 As(r)=6.45
Mu=5.53 As =3.98 As(r)=2.77	Mu=3.32 As =3.98 As(r)=2.77	Mu=4.31 As =3.98 As(r)=2.77	Mu=1.95 As =3.98 As(r)=2.77	Mu=3.31 As =3.98 As(r)=2.77	Mu=3.25 As =3.98 As(r)=2.77	Mu=6.26 As =3.98 As(r)=3.01	Mu=10.22 As =3.98 As(r)=4.98	Mu=4.38 As =5.68 As(r)=2.77
Vu=-11.11		Vu=-3.28	Vu=-4.39		Vu=8.88	Vu=-12.81		Vu=11.50

VT142/NE-1.05

B=0.15 H=0.60 L=6.56			B=0.15 H=0.60 L=3.75			B=0.15 H=0.60 L=9.00		
Mu=-11.28 As =5.68 As(r)=5.51		Mu=-9.09 As =5.68 As(r)=4.41	Mu=-4.47 As =5.68 As(r)=2.77		Mu=-15.09 As =11.44 As(r)=7.46	Mu=-22.04 As =11.44 As(r)=11.16		Mu=-28.06 As =14.93 As(r)=14.52
Mu=3.76 As =3.98 As(r)=2.77	Mu=6.90 As =3.98 As(r)=3.33	Mu=3.03 As =3.98 As(r)=2.77	Mu=3.02 As =3.98 As(r)=2.77	Mu=3.02 As =3.98 As(r)=2.77	Mu=5.03 As =3.98 As(r)=2.77	Mu=7.35 As =3.98 As(r)=3.55	Mu=16.35 As =3.98 As(r)=8.12	Mu=9.35 As =7.74 As(r)=4.54
Vu=-10.14		Vu=9.51	Vu=-4.37		Vu=8.90	Vu=-15.12		Vu=16.27

VT143/NE-1.05

B=0.15 H=0.60 L=5.76		
Mu=-15.04 As =7.74 As(r)=7.44		Mu=-4.71 As =3.98 As(r)=2.77
Mu=5.01 As =3.98 As(r)=2.77	Mu=3.49 As =3.98 As(r)=2.77	Mu=3.01 As =3.98 As(r)=2.77
Vu=-10.25		Vu=6.83

VT144/NE-1.05

B=0.15 H=0.60 L=6.43			B=0.15 H=0.60 L=3.75			B=0.15 H=0.60 L=9.00		
Mu=-13.21 As =6.88 As(r)=6.49		Mu=-6.41 As =5.68 As(r)=3.09	Mu=-3.70 As =5.68 As(r)=2.77		Mu=-14.41 As =11.44 As(r)=7.11	Mu=-22.72 As =11.44 As(r)=11.53		Mu=-27.68 As =14.93 As(r)=14.30
Mu=4.40 As =3.98 As(r)=2.77	Mu=6.62 As =3.98 As(r)=3.19	Mu=2.64 As =3.98 As(r)=2.77	Mu=2.88 As =3.98 As(r)=2.77	Mu=2.88 As =3.98 As(r)=2.77	Mu=4.80 As =3.98 As(r)=2.77	Mu=7.57 As =3.98 As(r)=3.66	Mu=16.20 As =3.98 As(r)=8.04	Mu=9.23 As =7.74 As(r)=4.48
Vu=-10.63		Vu=8.64	Vu=-4.36		Vu=8.91	Vu=-15.23		Vu=16.17

VT145/NE-1.05

B=0.15 H=0.60 L=5.00			B=0.15 H=0.60 L=6.30			B=0.15 H=0.60 L=3.75		
Mu=-3.11 As =3.98 As(r)=2.77		Mu=-9.96 As =7.68 As(r)=4.85	Mu=-14.63 As =7.68 As(r)=7.22		Mu=-5.46 As =3.98 As(r)=2.77	Mu=-3.84 As =3.98 As(r)=2.77		Mu=-11.95 As =13.01 As(r)=5.85
Mu=1.99 As =3.98 As(r)=2.77	Mu=4.80 As =3.98 As(r)=2.77	Mu=3.32 As =3.98 As(r)=2.77	Mu=4.88 As =3.98 As(r)=2.77	Mu=5.75 As =3.98 As(r)=2.86	Mu=2.93 As =3.98 As(r)=2.77	Mu=2.39 As =3.98 As(r)=2.77	Mu=2.39 As =3.98 As(r)=2.77	Mu=3.98 As =5.83 As(r)=2.77
Vu=-6.79		Vu=9.21	Vu=-10.81		Vu=8.07	Vu=-4.91		Vu=8.36

B=0.15 H=0.60 L=9.00		
Mu=-24.50 As =13.01 As(r)=12.51		Mu=-26.81 As =14.93 As(r)=13.81
Mu=8.17 As =5.83 As(r)=3.95	Mu=15.75 As =3.98 As(r)=7.81	Mu=8.94 As =7.74 As(r)=4.33
Vu=-15.48		Vu=15.91

MEMORIAS VIGUETAS PLANTA BAJA NE-1.05m

VT147/NE-1.05

B=0.15 H=0.60 L=4.47			B=0.15 H=0.60 L=5.51		
Mu=-0.00 As =3.98 As(r)=2.77		Mu=-13.93 As =7.53 As(r)=6.86	Mu=-11.43 As =7.53 As(r)=5.59		Mu=-10.23 As =5.68 As(r)=4.98
Mu=5.70 As =3.98 As(r)=3.26	Mu=4.38 As =3.98 As(r)=2.87	Mu=2.79 As =3.98 As(r)=2.77	Mu=3.81 As =3.98 As(r)=2.77	Mu=4.63 As =3.98 As(r)=2.77	Mu=3.41 As =3.98 As(r)=2.77
Vu=-2.93		Vu=10.93	Vu=-9.52		Vu=9.16

VT148/NE-1.05

B=0.15 H=0.60 L=3.47			B=0.15 H=0.60 L=6.23			B=0.15 H=0.60 L=3.75		
Mu=-0.00 As =3.98 As(r)=2.77		Mu=-12.62 As =5.83 As(r)=6.19	Mu=-9.82 As =5.83 As(r)=4.78		Mu=-10.55 As =5.83 As(r)=5.14	Mu=-5.85 As =5.83 As(r)=2.81		Mu=-11.26 As =13.01 As(r)=5.50
Mu=7.34 As =3.98 As(r)=3.54	Mu=2.72 As =3.98 As(r)=2.77	Mu=2.52 As =3.98 As(r)=2.77	Mu=3.27 As =3.98 As(r)=2.77	Mu=5.17 As =3.98 As(r)=2.77	Mu=3.52 As =3.98 As(r)=2.77	Mu=2.25 As =3.98 As(r)=2.77	Mu=2.25 As =3.98 As(r)=2.77	Mu=3.75 As =3.98 As(r)=2.77
Vu=-0.38		Vu=10.62	Vu=-9.20		Vu=9.42	Vu=-5.48		Vu=7.79

B=0.15 H=0.60 L=9.00		
Mu=-24.42 As =13.01 As(r)=12.47		Mu=-26.87 As =14.93 As(r)=13.84
Mu=8.14 As =3.98 As(r)=3.94	Mu=15.76 As =3.98 As(r)=7.81	Mu=8.96 As =7.74 As(r)=4.34
Vu=-15.46		Vu=15.93

VT149/NE-1.05

B=0.15 H=0.60 L=2.61			B=0.15 H=0.60 L=6.24			B=0.15 H=0.60 L=3.75		
Mu=-0.00 As =5.68 As(r)=2.77		Mu=-9.74 As =5.68 As(r)=4.74	Mu=-9.47 As =5.68 As(r)=4.60		Mu=-9.62 As =5.68 As(r)=4.68	Mu=-5.07 As =5.68 As(r)=2.77		Mu=-13.88 As =11.33 As(r)=6.84
Mu=3.43 As =3.98 As(r)=2.77	Mu=0.21 As =3.98 As(r)=2.77	Mu=1.95 As =3.98 As(r)=2.77	Mu=3.16 As =3.98 As(r)=2.77	Mu=5.72 As =3.98 As(r)=2.77	Mu=3.21 As =3.98 As(r)=2.77	Mu=2.78 As =3.98 As(r)=2.77	Mu=2.78 As =3.98 As(r)=2.77	Mu=4.63 As =5.83 As(r)=2.77
Vu=0.45		Vu=8.63	Vu=-9.26		Vu=9.31	Vu=-4.76		Vu=8.51

B=0.15 H=0.60 L=9.00		
Mu=-22.62 As =11.33 As(r)=11.48		Mu=-27.78 As =14.93 As(r)=14.36
Mu=7.54 As =5.83 As(r)=3.64	Mu=16.20 As =3.98 As(r)=8.04	Mu=9.26 As =7.74 As(r)=4.50
Vu=-15.21		Vu=16.18

VT150/NE-1.05

B=0.15 H=0.60 L=6.25			B=0.15 H=0.60 L=3.75			B=0.15 H=0.60 L=9.00		
Mu=-10.69 As =5.68 As(r)=5.21		Mu=-7.63 As =3.98 As(r)=3.69	Mu=-4.06 As =3.98 As(r)=2.77		Mu=-14.91 As =11.33 As(r)=7.37	Mu=-21.97 As =11.33 As(r)=11.12		Mu=-28.18 As =14.93 As(r)=14.59
Mu=3.56 As =3.98 As(r)=2.77	Mu=6.00 As =3.98 As(r)=2.88	Mu=2.54 As =5.68 As(r)=2.77	Mu=2.98 As =5.68 As(r)=2.77	Mu=2.98 As =3.98 As(r)=2.77	Mu=4.97 As =5.68 As(r)=2.77	Mu=7.32 As =5.68 As(r)=3.53	Mu=16.32 As =3.98 As(r)=8.10	Mu=9.39 As =7.74 As(r)=4.56
Vu=-9.72		Vu=8.79	Vu=-4.33		Vu=8.94	Vu=-15.11		Vu=16.28

MEMORIAS VIGUETAS PLANTA BAJA NE-1.05m

VT151/NE-1.05

B=0.15 H=0.60 L=0.85			B=0.15 H=0.60 L=6.25			B=0.15 H=0.60 L=3.75		
Mu=-10.69 As =5.68 As(r)=5.21		Mu=-10.64 As =5.68 As(r)=5.19	Mu=-12.47 As =5.68 As(r)=6.12		Mu=-5.70 As =3.98 As(r)=2.77	Mu=-3.60 As =3.98 As(r)=2.77		Mu=-14.27 As =11.13 As(r)=7.04
Mu=3.56 As =3.98 As(r)=2.77	Mu=2.14 As =3.98 As(r)=2.77	Mu=3.55 As =3.98 As(r)=2.77	Mu=4.16 As =3.98 As(r)=2.77	Mu=5.98 As =3.98 As(r)=2.88	Mu=2.49 As =3.98 As(r)=2.77	Mu=2.85 As =3.98 As(r)=2.77	Mu=2.85 As =3.98 As(r)=2.77	Mu=4.76 As =3.98 As(r)=2.77
Vu=-1.77		Vu=1.68	Vu=-10.26		Vu=8.19	Vu=-4.37		Vu=8.90

B=0.15 H=0.60 L=9.00		
Mu=-22.62 As =11.33 As(r)=11.48		Mu=-27.87 As =14.93 As(r)=14.41
Mu=7.54 As =3.98 As(r)=3.64	Mu=16.15 As =3.98 As(r)=8.02	Mu=9.29 As =7.74 As(r)=4.51
Vu=-15.20		Vu=16.19

VT152/NE-1.05

B=0.15 H=0.60 L=6.26			B=0.15 H=0.60 L=3.75			B=0.15 H=0.60 L=9.00		
Mu=-12.35 As =5.68 As(r)=6.05		Mu=-6.19 As =3.98 As(r)=2.98	Mu=-4.04 As =3.98 As(r)=2.77		Mu=-11.87 As =13.01 As(r)=5.81	Mu=-24.37 As =13.01 As(r)=12.44		Mu=-27.06 As =14.93 As(r)=13.95
Mu=4.12 As =3.98 As(r)=2.77	Mu=5.70 As =3.98 As(r)=2.77	Mu=2.47 As =3.98 As(r)=2.77	Mu=2.37 As =3.98 As(r)=2.77	Mu=2.37 As =3.98 As(r)=2.77	Mu=3.96 As =3.98 As(r)=2.77	Mu=8.12 As =3.98 As(r)=3.93	Mu=15.68 As =3.98 As(r)=7.77	Mu=9.02 As =7.74 As(r)=4.38
Vu=-10.14		Vu=8.25	Vu=-4.97		Vu=8.30	Vu=-15.44		Vu=15.95

VT153/NE-1.05

B=0.15 H=0.60 L=0.55		
Mu=-16.84 As =8.32 As(r)=8.38		Mu=-0.00 As =8.32 As(r)=2.77
Mu=3.37 As =3.98 As(r)=2.77	Mu=0.00 As =3.98 As(r)=2.77	Mu=3.99 As =3.98 As(r)=2.77
Vu=-11.00		Vu=-3.22

VT154/NE-1.05

B=0.15 H=0.60 L=2.40			B=0.15 H=0.60 L=3.05			B=0.15 H=0.60 L=4.13		
Mu=-11.95 As =5.68 As(r)=5.85		Mu=-2.39 As =3.98 As(r)=2.77	Mu=-1.60 As =3.98 As(r)=2.77		Mu=-7.99 As =3.98 As(r)=3.86	Mu=-6.03 As =3.98 As(r)=2.90		Mu=-3.91 As =3.98 As(r)=2.77
Mu=3.98 As =3.98 As(r)=2.77	Mu=2.39 As =3.98 As(r)=2.77	Mu=5.69 As =3.98 As(r)=2.77	Mu=1.60 As =3.98 As(r)=2.77	Mu=3.40 As =3.98 As(r)=2.77	Mu=2.66 As =3.98 As(r)=2.77	Mu=2.01 As =3.98 As(r)=2.77	Mu=2.74 As =3.98 As(r)=2.77	Mu=1.30 As =3.98 As(r)=2.77
Vu=-10.32		Vu=-3.24	Vu=-4.71		Vu=8.21	Vu=-7.05		Vu=6.15

VT155/NE-1.05

B=0.15 H=0.60 L=1.72			B=0.15 H=0.60 L=3.05			B=0.15 H=0.60 L=6.33		
Mu=-11.49 As =5.68 As(r)=5.62		Mu=-2.30 As =5.68 As(r)=2.77	Mu=-2.09 As =5.68 As(r)=2.77		Mu=-10.46 As =6.38 As(r)=5.10	Mu=-12.38 As =6.38 As(r)=6.07		Mu=-13.16 As =7.68 As(r)=6.47
Mu=3.83 As =3.98 As(r)=2.77	Mu=2.30 As =3.98 As(r)=2.77	Mu=4.81 As =3.98 As(r)=2.77	Mu=3.28 As =3.98 As(r)=2.77	Mu=3.49 As =3.98 As(r)=2.77	Mu=3.49 As =3.98 As(r)=2.77	Mu=4.13 As =3.98 As(r)=2.77	Mu=6.69 As =3.98 As(r)=3.22	Mu=4.39 As =3.98 As(r)=2.77
Vu=-10.03		Vu=-2.93	Vu=-3.21		Vu=9.37	Vu=-10.38		Vu=10.59

MEMORIAS VIGUETAS PLANTA BAJA NE-1.05m

VT156/NE-1.05

B=0.15 H=0.60 L=0.90			B=0.15 H=0.60 L=3.05			B=0.15 H=0.60 L=6.94		
Mu=-10.89 As =6.38 As(r)=5.31		Mu=-2.18 As =4.98 As(r)=2.77	Mu=-2.00 As =3.98 As(r)=2.77		Mu=-9.98 As =7.68 As(r)=4.86	Mu=-13.47 As =7.68 As(r)=6.63		Mu=-9.01 As =6.38 As(r)=4.37
Mu=3.63 As =3.98 As(r)=2.77	Mu=2.18 As =3.98 As(r)=2.77	Mu=4.50 As =3.98 As(r)=2.77	Mu=3.82 As =3.98 As(r)=2.77	Mu=3.54 As =3.98 As(r)=2.77	Mu=3.33 As =3.98 As(r)=2.77	Mu=4.49 As =3.98 As(r)=2.77	Mu=6.01 As =3.98 As(r)=2.89	Mu=3.00 As =3.98 As(r)=2.77
Vu=-9.94		Vu=-3.44	Vu=-2.93		Vu=9.30	Vu=-10.51		Vu=9.23

VT157/NE-1.05

B=0.15 H=0.60 L=3.24			B=0.15 H=0.60 L=9.18		
Mu=-0.59 As =3.98 As(r)=2.77		Mu=-11.36 As =13.01 As(r)=5.55	Mu=-25.45 As =13.01 As(r)=13.04		Mu=-27.25 As =14.93 As(r)=14.06
Mu=0.00 As =3.98 As(r)=2.77	Mu=1.48 As =3.98 As(r)=2.77	Mu=2.27 As =3.98 As(r)=2.77	Mu=8.48 As =3.98 As(r)=4.11	Mu=15.60 As =5.42 As(r)=7.73	Mu=9.08 As =7.74 As(r)=4.41
Vu=-3.46		Vu=8.53	Vu=-15.63		Vu=15.97

VT158/NE-1.05

B=0.15 H=0.60 L=0.90			B=0.15 H=0.60 L=3.05		
Mu=-10.03 As =4.83 As(r)=4.88		Mu=-2.01 As =4.83 As(r)=2.77	Mu=-1.75 As =4.83 As(r)=2.77		Mu=-8.75 As =4.83 As(r)=4.24
Mu=3.34 As =3.28 As(r)=2.77	Mu=2.01 As =3.28 As(r)=2.77	Mu=3.65 As =3.28 As(r)=2.77	Mu=3.07 As =3.28 As(r)=2.77	Mu=3.54 As =3.28 As(r)=2.77	Mu=2.92 As =3.28 As(r)=2.77
Vu=-9.50		Vu=-3.60	Vu=-3.22		Vu=8.78

VT159/NE-1.05

B=0.15 H=0.60 L=2.79			B=0.15 H=0.60 L=9.34		
Mu=-0.00 As =7.74 As(r)=2.77		Mu=-13.50 As =13.01 As(r)=6.64	Mu=-24.78 As =13.01 As(r)=12.67		Mu=-28.21 As =14.93 As(r)=14.61
Mu=2.66 As =5.68 As(r)=2.77	Mu=2.70 As =5.68 As(r)=2.77	Mu=2.70 As =5.68 As(r)=2.77	Mu=8.26 As =5.68 As(r)=4.00	Mu=16.01 As =10.01 As(r)=7.94	Mu=9.40 As =7.74 As(r)=4.57
Vu=-1.09		Vu=9.61	Vu=-15.58		Vu=16.23

VT160/NE-1.05

B=0.15 H=0.60 L=0.90			B=0.15 H=0.60 L=3.05			B=0.15 H=0.60 L=5.63		
Mu=-9.47 As =3.98 As(r)=4.60		Mu=-1.89 As =3.98 As(r)=2.77	Mu=-1.59 As =3.98 As(r)=2.77		Mu=-7.96 As =5.68 As(r)=3.85	Mu=-11.60 As =5.68 As(r)=5.67		Mu=-4.99 As =3.98 As(r)=2.77
Mu=3.16 As =3.98 As(r)=2.77	Mu=1.89 As =3.98 As(r)=2.77	Mu=2.78 As =3.98 As(r)=2.77	Mu=2.11 As =3.98 As(r)=2.77	Mu=3.45 As =3.98 As(r)=2.77	Mu=2.65 As =3.98 As(r)=2.77	Mu=3.87 As =3.98 As(r)=2.77	Mu=4.31 As =3.98 As(r)=2.77	Mu=2.32 As =3.98 As(r)=2.77
Vu=-9.18		Vu=-3.89	Vu=-3.63		Vu=8.37	Vu=-9.54		Vu=7.33

VT161/NE-1.05

B=0.15 H=0.60 L=2.30			B=0.15 H=0.60 L=9.52		
Mu=-0.50 As =3.98 As(r)=2.77		Mu=-11.88 As =13.01 As(r)=5.82	Mu=-25.01 As =13.01 As(r)=12.80		Mu=-29.00 As =14.93 As(r)=15.06
Mu=0.19 As =5.68 As(r)=2.77	Mu=0.00 As =5.68 As(r)=2.77	Mu=2.38 As =5.68 As(r)=2.77	Mu=8.34 As =5.68 As(r)=4.04	Mu=16.07 As =7.74 As(r)=7.97	Mu=9.67 As =7.74 As(r)=4.70
Vu=-1.31		Vu=8.13	Vu=-15.64		Vu=16.38

MEMORIAS VIGUETAS PLANTA BAJA NE-1.05m

VT162/NE-1.05

B=0.15 H=0.60 L=0.90			B=0.15 H=0.60 L=3.05			B=0.15 H=0.60 L=4.98		
Mu=-10.37 As =5.18 As(r)=5.05		Mu=-2.07 As =4.68 As(r)=2.77	Mu=-1.39 As =3.98 As(r)=2.77		Mu=-6.97 As =3.98 As(r)=3.36	Mu=-7.82 As =3.98 As(r)=3.78		Mu=-6.03 As =3.98 As(r)=2.90
Mu=3.46 As =3.98 As(r)=2.77	Mu=2.07 As =3.98 As(r)=2.77	Mu=3.44 As =3.98 As(r)=2.77	Mu=1.61 As =3.98 As(r)=2.77	Mu=3.45 As =3.98 As(r)=2.77	Mu=2.32 As =3.98 As(r)=2.77	Mu=2.61 As =3.98 As(r)=2.77	Mu=3.48 As =3.98 As(r)=2.77	Mu=2.01 As =3.98 As(r)=2.77
Vu=-10.66		Vu=-6.01	Vu=-4.10		Vu=7.91	Vu=-8.00		Vu=7.34

VT163/NE-1.05

B=0.15 H=0.60 L=1.83			B=0.15 H=0.60 L=9.69		
Mu=-3.09 As =7.74 As(r)=2.77		Mu=-7.84 As =13.01 As(r)=3.79	Mu=-25.45 As =13.01 As(r)=13.04		Mu=-27.04 As =14.93 As(r)=13.94
Mu=1.57 As =5.68 As(r)=2.77	Mu=1.57 As =5.68 As(r)=2.77	Mu=2.61 As =5.68 As(r)=2.77	Mu=8.48 As =5.68 As(r)=4.11	Mu=15.17 As =7.74 As(r)=7.50	Mu=9.01 As =7.74 As(r)=4.37
Vu=-2.44		Vu=5.73	Vu=-15.15		Vu=15.44

VT165/NE-1.05

B=0.15 H=0.60 L=3.11			B=0.15 H=0.60 L=3.86			B=0.15 H=0.60 L=1.77		
Mu=-2.10 As =3.98 As(r)=2.77		Mu=-6.35 As =3.98 As(r)=3.06	Mu=-3.49 As =3.98 As(r)=2.77		Mu=-4.02 As =3.98 As(r)=2.77	Mu=-0.88 As =3.98 As(r)=2.77		Mu=-4.39 As =3.98 As(r)=2.77
Mu=1.27 As =3.98 As(r)=2.77	Mu=3.57 As =3.98 As(r)=2.77	Mu=2.12 As =3.98 As(r)=2.77	Mu=1.16 As =3.98 As(r)=2.77	Mu=2.10 As =3.98 As(r)=2.77	Mu=1.34 As =3.98 As(r)=2.77	Mu=0.88 As =3.98 As(r)=2.77	Mu=0.88 As =3.98 As(r)=2.77	Mu=0.88 As =3.98 As(r)=2.77
Vu=-5.73		Vu=7.54	Vu=-5.62		Vu=5.88	Vu=-3.53		Vu=3.39

VT166/NE-1.05

B=0.15 H=0.60 L=6.03		
Mu=-5.80 As =3.98 As(r)=2.79		Mu=-12.89 As =5.98 As(r)=6.33
Mu=2.58 As =3.98 As(r)=2.77	Mu=8.20 As =3.98 As(r)=3.97	Mu=4.30 As =3.98 As(r)=2.77
Vu=-8.95		Vu=10.96

VT167/NE-1.05

B=0.15 H=0.60 L=0.84			B=0.15 H=0.60 L=3.11			B=0.15 H=0.60 L=2.77		
Mu=-7.57 As =3.98 As(r)=3.66		Mu=-9.38 As =3.98 As(r)=4.56	Mu=-5.96 As =3.98 As(r)=2.86		Mu=-1.19 As =3.98 As(r)=2.77	Mu=-0.86 As =3.98 As(r)=2.77		Mu=-0.78 As =3.98 As(r)=2.77
Mu=2.52 As =3.98 As(r)=2.77	Mu=4.76 As =3.98 As(r)=2.77	Mu=3.13 As =3.98 As(r)=2.77	Mu=1.99 As =3.98 As(r)=2.77	Mu=1.19 As =3.98 As(r)=2.77	Mu=1.19 As =3.98 As(r)=2.77	Mu=0.78 As =3.98 As(r)=2.77	Mu=3.91 As =3.98 As(r)=2.77	Mu=0.78 As =3.98 As(r)=2.77
Vu=-8.35		Vu=8.94	Vu=-6.18		Vu=2.74	Vu=-5.19		Vu=5.03

B=0.15 H=0.60 L=2.76		
Mu=-0.86 As =3.98 As(r)=2.77		Mu=-0.57 As =3.98 As(r)=2.77
Mu=0.17 As =3.98 As(r)=2.77	Mu=3.91 As =3.98 As(r)=2.77	Mu=0.00 As =3.98 As(r)=2.77
Vu=-5.19		Vu=5.03

MEMORIAS VIGUETAS PLANTA BAJA NE-1.05m

VT168/NE-1.05

B=0.15 H=0.60 L=6.04		
Mu=-8.80 As =4.83 As(r)=4.27		Mu=-11.29 As =6.03 As(r)=5.52
Mu=2.93 As =3.98 As(r)=2.77	Mu=7.50 As =3.98 As(r)=3.62	Mu=3.76 As =3.98 As(r)=2.77
Vu=-9.60		Vu=10.31

VT169/NE-1.05

B=0.15 H=0.60 L=3.50		
Mu=-2.78 As =3.98 As(r)=2.77		Mu=-7.39 As =3.98 As(r)=3.57
Mu=1.48 As =3.28 As(r)=2.77	Mu=4.45 As =3.28 As(r)=2.77	Mu=2.46 As =3.28 As(r)=2.77
Vu=-6.45		Vu=8.23

MEMORIAS VIGUETAS PLANTA BAJA NE-1.05m

VT100/NE-1.05m

B=0.15 H=0.60 L=13.20		
Mu=-0.00 As =3.98 As(r)=2.77		Mu=-0.00 As =3.98 As(r)=2.77
Mu=2.28 As =10.20 As(r)=6.44	Mu=32.33 As =17.39 As(r)=17.01	Mu=2.28 As =10.20 As(r)=6.44
Vu=9.11		Vu=-9.11

VT101/NE-1.05m

B=0.15 H=0.60 L=12.30		
Mu=-0.00 As =3.98 As(r)=2.77		Mu=-0.00 As =3.98 As(r)=2.77
Mu=2.12 As =7.74 As(r)=5.63	Mu=28.22 As =14.93 As(r)=14.61	Mu=2.12 As =7.74 As(r)=5.63
Vu=8.49		Vu=-8.49

VT102/NE-1.05m

B=0.15 H=0.60 L=13.28		
Mu=-0.00 As =3.98 As(r)=2.77		Mu=-0.00 As =3.98 As(r)=2.77
Mu=2.29 As =10.20 As(r)=6.51	Mu=32.71 As =17.39 As(r)=17.24	Mu=2.29 As =10.20 As(r)=6.51
Vu=9.16		Vu=-9.16

VT103/NE-1.05m

B=0.15 H=0.60 L=13.20		
Mu=-0.00 As =3.98 As(r)=2.77		Mu=-0.00 As =3.98 As(r)=2.77
Mu=2.73 As =10.20 As(r)=10.37	Mu=32.79 As =17.39 As(r)=17.28	Mu=2.73 As =10.20 As(r)=10.37
Vu=9.11		Vu=-9.11

VT146/NE-1.05m

B=0.15 H=0.60 L=6.90		
Mu=-0.00 As =3.28 As(r)=2.77		Mu=-0.00 As =3.28 As(r)=2.77
Mu=1.20 As =4.83 As(r)=2.77	Mu=9.52 As =4.83 As(r)=4.63	Mu=1.42 As =4.83 As(r)=2.77
Vu=4.79		Vu=-4.73

MEMORIAS VIGUETAS PLANTA BAJA NE-1.05m

VT164/NE-1.05m

B=0.15 H=0.60 L=2.39			B=0.15 H=0.60 L=1.84		
Mu=-0.00 As =3.28 As(r)=2.77		Mu=-2.32 As =3.28 As(r)=2.77	Mu=-2.34 As =3.28 As(r)=2.77		Mu=-0.00 As =3.28 As(r)=2.77
Mu=0.21 As =3.28 As(r)=2.77	Mu=0.00 As =3.28 As(r)=2.77	Mu=0.46 As =3.28 As(r)=2.77	Mu=0.47 As =3.28 As(r)=2.77	Mu=0.00 As =3.28 As(r)=2.77	Mu=0.00 As =3.28 As(r)=2.77
Vu=0.66		Vu=-2.64	Vu=2.54		Vu=0.00

MEMORIAS VIGUETAS PISO 1 NE+2.95m

VT203/NE+2.95

B=0.15 H=0.60 L=6.86		
Mu=-12.65 As =5.83 As(r)=6.21		Mu=-0.00 As =3.98 As(r)=2.77
Mu=2.53 As =3.98 As(r)=2.77	Mu=4.72 As =3.98 As(r)=2.81	Mu=2.29 As =3.98 As(r)=2.77
Vu=-7.47		Vu=2.00

VT205/NE+2.95

B=0.15 H=0.60 L=5.62			B=0.15 H=0.60 L=10.04		
Mu=-11.51 As =4.26 As(r)=5.63		Mu=-2.54 As =3.98 As(r)=2.77	Mu=-2.23 As =3.98 As(r)=2.77		Mu=-2.23 As =3.98 As(r)=2.77
Mu=2.54 As =4.26 As(r)=2.77	Mu=5.23 As =5.68 As(r)=3.50	Mu=12.71 As =5.68 As(r)=6.24	Mu=11.14 As =5.68 As(r)=5.44	Mu=8.59 As =5.68 As(r)=4.49	Mu=2.23 As =5.68 As(r)=2.77
Vu=-6.61		Vu=-2.44	Vu=0.67		Vu=3.95

VT206/NE+2.95

B=0.15 H=0.60 L=0.87			B=0.15 H=0.60 L=6.13			B=0.15 H=0.60 L=3.12		
Mu=-12.61 As =6.38 As(r)=6.19		Mu=-2.52 As =6.38 As(r)=2.77	Mu=-6.40 As =3.98 As(r)=3.08		Mu=-8.55 As =3.98 As(r)=4.14	Mu=-4.76 As =3.98 As(r)=2.77		Mu=-2.52 As =3.98 As(r)=2.77
Mu=4.20 As =3.98 As(r)=2.77	Mu=2.52 As =3.98 As(r)=2.77	Mu=5.48 As =3.98 As(r)=2.77	Mu=2.13 As =3.98 As(r)=2.77	Mu=6.77 As =3.98 As(r)=3.26	Mu=2.85 As =3.98 As(r)=2.77	Mu=1.59 As =3.98 As(r)=2.77	Mu=1.85 As =3.98 As(r)=2.77	Mu=0.95 As =3.98 As(r)=2.77
Vu=-11.83		Vu=-5.69	Vu=-8.86		Vu=9.56	Vu=-6.60		Vu=5.38

B=0.15 H=0.60 L=0.55		
Mu=-4.76 As =3.98 As(r)=2.77		Mu=-2.52 As =3.98 As(r)=2.77
Mu=1.59 As =3.98 As(r)=2.77	Mu=1.85 As =3.98 As(r)=2.77	Mu=0.95 As =3.98 As(r)=2.77
Vu=-6.60		Vu=5.38

VT207/NE+2.95

B=0.15 H=0.60 L=2.15			B=0.15 H=0.60 L=6.13			B=0.15 H=0.60 L=3.12		
Mu=-14.37 As =8.08 As(r)=7.09		Mu=-2.87 As =3.98 As(r)=2.77	Mu=-4.42 As =3.98 As(r)=2.77		Mu=-9.24 As =3.98 As(r)=4.49	Mu=-4.62 As =3.98 As(r)=2.77		Mu=-3.01 As =3.98 As(r)=2.77
Mu=4.79 As =3.98 As(r)=2.77	Mu=2.87 As =3.98 As(r)=2.77	Mu=4.95 As =3.98 As(r)=2.77	Mu=1.85 As =3.98 As(r)=2.77	Mu=7.42 As =3.98 As(r)=3.58	Mu=3.08 As =3.98 As(r)=2.77	Mu=1.54 As =3.98 As(r)=2.77	Mu=1.68 As =3.98 As(r)=2.77	Mu=1.00 As =3.98 As(r)=2.77
Vu=-10.74		Vu=-1.30	Vu=-8.43		Vu=9.99	Vu=-6.43		Vu=5.55

B=0.15 H=0.60 L=0.55		
Mu=-4.62 As =3.98 As(r)=2.77		Mu=-3.01 As =3.98 As(r)=2.77
Mu=1.54 As =3.98 As(r)=2.77	Mu=1.68 As =3.98 As(r)=2.77	Mu=0.92 As =3.98 As(r)=2.77
Vu=-6.43		Vu=5.55

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VT208/NE+2.95

B=0.15 H=0.60 L=3.44			B=0.15 H=0.60 L=6.13			B=0.15 H=0.60 L=3.12		
Mu=-7.57 As =3.98 As(r)=3.66		Mu=-1.80 As =3.98 As(r)=2.77	Mu=-3.13 As =3.98 As(r)=2.77		Mu=-11.74 As =6.38 As(r)=5.74	Mu=-5.76 As =6.38 As(r)=2.77		Mu=-2.34 As =3.98 As(r)=2.77
Mu=2.52 As =3.98 As(r)=2.77	Mu=3.38 As =3.98 As(r)=2.77	Mu=1.51 As =3.98 As(r)=2.77	Mu=2.35 As =3.98 As(r)=2.77	Mu=6.82 As =4.97 As(r)=3.40	Mu=3.91 As =3.98 As(r)=2.77	Mu=1.92 As =3.98 As(r)=2.77	Mu=1.55 As =3.98 As(r)=2.77	Mu=1.15 As =3.98 As(r)=2.77
Vu=-8.17		Vu=5.69	Vu=-7.82		Vu=10.60	Vu=-6.92		Vu=5.06

B=0.15 H=0.60 L=0.55		
Mu=-5.76 As =3.98 As(r)=2.77		Mu=-2.34 As =3.98 As(r)=2.77
Mu=1.92 As =3.98 As(r)=2.77	Mu=1.55 As =3.98 As(r)=2.77	Mu=1.15 As =3.98 As(r)=2.77
Vu=-6.92		Vu=5.06

VT209/NE+2.95

B=0.15 H=0.60 L=4.20		
Mu=-0.37 As =3.98 As(r)=2.77		Mu=-6.84 As =3.98 As(r)=3.30
Mu=0.96 As =3.28 As(r)=2.77	Mu=5.88 As =3.28 As(r)=2.94	Mu=1.37 As =3.28 As(r)=2.77
Vu=-6.23		Vu=8.79

VT210/NE+2.95

B=0.15 H=0.60 L=5.29			B=0.15 H=0.60 L=3.12			B=0.15 H=0.60 L=0.55		
Mu=-7.12 As =3.98 As(r)=3.43		Mu=-9.82 As =5.68 As(r)=4.78	Mu=-6.14 As =5.68 As(r)=2.95		Mu=-2.20 As =3.98 As(r)=2.77	Mu=-6.14 As =3.98 As(r)=2.95		Mu=-2.20 As =3.98 As(r)=2.77
Mu=2.37 As =3.98 As(r)=2.77	Mu=5.48 As =3.98 As(r)=2.77	Mu=3.27 As =3.98 As(r)=2.77	Mu=2.05 As =3.98 As(r)=2.77	Mu=1.67 As =3.98 As(r)=2.77	Mu=1.23 As =3.98 As(r)=2.77	Mu=2.05 As =3.98 As(r)=2.77	Mu=1.67 As =3.98 As(r)=2.77	Mu=1.23 As =3.98 As(r)=2.77
Vu=8.67		Vu=-9.55	Vu=-7.15		Vu=5.04	Vu=-7.15		Vu=5.04

VT211/NE+2.95

B=0.15 H=0.60 L=3.58			B=0.15 H=0.60 L=1.80		
Mu=-0.00 As =3.98 As(r)=2.77		Mu=-9.36 As =9.38 As(r)=4.55	Mu=-18.05 As =9.38 As(r)=9.01		Mu=-13.17 As =5.68 As(r)=6.47
Mu=3.76 As =4.83 As(r)=2.77	Mu=4.88 As =4.83 As(r)=2.79	Mu=1.87 As =4.83 As(r)=2.77	Mu=6.02 As =4.83 As(r)=2.89	Mu=8.77 As =4.83 As(r)=4.25	Mu=4.39 As =4.83 As(r)=2.77
Vu=-4.00		Vu=9.62	Vu=-13.25		Vu=11.98

VT212/NE+2.95

B=0.15 H=0.60 L=2.35			B=0.15 H=0.60 L=3.12			B=0.15 H=0.60 L=0.55		
Mu=-0.30 As =3.98 As(r)=2.77		Mu=-5.13 As =3.98 As(r)=2.77	Mu=-6.17 As =3.98 As(r)=2.97		Mu=-2.16 As =3.98 As(r)=2.77	Mu=-6.17 As =3.98 As(r)=2.97		Mu=-2.16 As =3.98 As(r)=2.77
Mu=0.88 As =3.98 As(r)=2.77	Mu=0.45 As =3.98 As(r)=2.77	Mu=1.03 As =3.98 As(r)=2.77	Mu=2.06 As =3.98 As(r)=2.77	Mu=1.88 As =3.98 As(r)=2.77	Mu=1.23 As =3.98 As(r)=2.77	Mu=2.06 As =3.98 As(r)=2.77	Mu=1.88 As =3.98 As(r)=2.77	Mu=1.23 As =3.98 As(r)=2.77
Vu=-2.68		Vu=5.99	Vu=-7.26		Vu=5.15	Vu=-7.26		Vu=5.15

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VT213/NE+2.95

B=0.15 H=0.60 L=0.82			B=0.15 H=0.60 L=3.58			B=0.15 H=0.60 L=7.35		
Mu=-16.22 As =8.32 As(r)=8.05		Mu=-3.24 As =8.32 As(r)=2.77	Mu=-1.87 As =5.68 As(r)=2.77		Mu=-9.36 As =9.38 As(r)=4.55	Mu=-18.05 As =9.38 As(r)=9.01		Mu=-13.17 As =6.38 As(r)=6.47
Mu=5.41 As =3.98 As(r)=2.77	Mu=3.24 As =3.98 As(r)=2.77	Mu=9.44 As =3.98 As(r)=4.59	Mu=3.76 As =3.98 As(r)=2.77	Mu=4.88 As =3.98 As(r)=2.79	Mu=3.12 As =3.98 As(r)=2.77	Mu=6.02 As =3.98 As(r)=2.89	Mu=8.77 As =3.98 As(r)=4.25	Mu=4.39 As =3.98 As(r)=2.77
Vu=-21.47		Vu=-17.56	Vu=-4.00		Vu=9.62	Vu=-13.25		Vu=11.98

VT214/NE+2.95

B=0.15 H=0.60 L=0.82			B=0.15 H=0.60 L=3.58			B=0.15 H=0.60 L=7.13		
Mu=-9.96 As =3.98 As(r)=4.85		Mu=-1.99 As =3.98 As(r)=2.77	Mu=-1.70 As =3.98 As(r)=2.77		Mu=-8.51 As =11.44 As(r)=4.12	Mu=-22.80 As =11.44 As(r)=11.58		Mu=-6.95 As =3.98 As(r)=3.35
Mu=3.32 As =3.98 As(r)=2.77	Mu=1.99 As =3.98 As(r)=2.77	Mu=1.99 As =3.98 As(r)=2.77	Mu=1.70 As =3.98 As(r)=2.77	Mu=4.36 As =3.98 As(r)=2.77	Mu=2.84 As =3.98 As(r)=2.77	Mu=7.60 As =3.98 As(r)=3.67	Mu=8.33 As =3.98 As(r)=4.31	Mu=4.56 As =5.68 As(r)=2.77
Vu=-9.92		Vu=-5.37	Vu=-4.60		Vu=9.03	Vu=-14.41		Vu=10.21

VT215/NE+2.95

B=0.15 H=0.60 L=1.15			B=0.15 H=0.60 L=2.85		
Mu=-9.38 As =4.83 As(r)=4.56		Mu=-10.10 As =4.83 As(r)=4.92	Mu=-7.04 As =4.83 As(r)=3.39		Mu=-2.18 As =4.83 As(r)=2.77
Mu=3.13 As =3.98 As(r)=2.77	Mu=2.02 As =3.98 As(r)=2.77	Mu=3.37 As =3.98 As(r)=2.77	Mu=2.35 As =3.98 As(r)=2.77	Mu=1.41 As =3.98 As(r)=2.77	Mu=1.41 As =3.98 As(r)=2.77
Vu=-1.80		Vu=2.74	Vu=-7.02		Vu=4.52

VT216/NE+2.95

B=0.15 H=0.60 L=0.82			B=0.15 H=0.60 L=3.58			B=0.15 H=0.60 L=6.90		
Mu=-9.65 As =3.98 As(r)=4.69		Mu=-1.93 As =3.98 As(r)=2.77	Mu=-2.00 As =3.98 As(r)=2.77		Mu=-10.01 As =14.53 As(r)=4.87	Mu=-26.47 As =14.93 As(r)=13.62		Mu=-5.29 As =3.98 As(r)=2.77
Mu=3.22 As =3.98 As(r)=2.77	Mu=1.93 As =3.98 As(r)=2.77	Mu=2.01 As =3.98 As(r)=2.77	Mu=2.25 As =3.98 As(r)=2.77	Mu=3.89 As =3.98 As(r)=2.77	Mu=3.34 As =5.68 As(r)=2.77	Mu=8.82 As =5.68 As(r)=4.28	Mu=8.82 As =3.98 As(r)=4.58	Mu=5.29 As =5.68 As(r)=2.77
Vu=-9.28		Vu=-4.09	Vu=-4.12		Vu=9.48	Vu=-15.36		Vu=8.67

VT217/NE+2.95

B=0.15 H=0.60 L=2.64			B=0.15 H=0.60 L=2.85		
Mu=-1.48 As =3.98 As(r)=2.77		Mu=-7.40 As =3.98 As(r)=3.57	Mu=-7.05 As =3.98 As(r)=3.40		Mu=-2.00 As =3.98 As(r)=2.77
Mu=1.48 As =3.28 As(r)=2.77	Mu=1.48 As =3.28 As(r)=2.77	Mu=2.47 As =3.28 As(r)=2.77	Mu=2.35 As =3.28 As(r)=2.77	Mu=1.41 As =3.28 As(r)=2.77	Mu=1.41 As =3.28 As(r)=2.77
Vu=-2.59		Vu=6.49	Vu=-7.07		Vu=4.47

VT218/NE+2.95

B=0.15 H=0.60 L=0.82			B=0.15 H=0.60 L=3.68			B=0.15 H=0.60 L=6.61		
Mu=-10.88 As =5.83 As(r)=5.31		Mu=-2.18 As =5.83 As(r)=2.77	Mu=-2.47 As =3.98 As(r)=2.77		Mu=-12.33 As =13.01 As(r)=6.04	Mu=-23.23 As =13.01 As(r)=11.81		Mu=-4.65 As =3.98 As(r)=2.77
Mu=3.63 As =3.98 As(r)=2.77	Mu=2.18 As =3.98 As(r)=2.77	Mu=3.12 As =3.98 As(r)=2.77	Mu=2.70 As =3.98 As(r)=2.77	Mu=4.11 As =3.98 As(r)=2.77	Mu=4.11 As =3.98 As(r)=2.77	Mu=7.74 As =3.98 As(r)=3.74	Mu=8.19 As =3.98 As(r)=4.53	Mu=4.65 As =5.68 As(r)=2.77
Vu=-10.06		Vu=-4.24	Vu=-3.49		Vu=10.08	Vu=-14.61		Vu=8.83

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VT219/NE+2.95

B=0.15 H=0.60 L=4.14			B=0.15 H=0.60 L=2.85		
Mu=-0.00 As =3.98 As(r)=2.77		Mu=-7.77 As =3.98 As(r)=3.76	Mu=-7.54 As =3.98 As(r)=3.64		Mu=-1.86 As =3.98 As(r)=2.77
Mu=1.78 As =3.98 As(r)=2.77	Mu=4.99 As =3.98 As(r)=2.77	Mu=1.55 As =3.98 As(r)=2.77	Mu=2.51 As =3.98 As(r)=2.77	Mu=1.51 As =3.98 As(r)=2.77	Mu=1.51 As =3.98 As(r)=2.77
Vu=-4.84		Vu=8.96	Vu=-7.24		Vu=4.31

VT220/NE+2.95

B=0.15 H=0.60 L=0.82			B=0.15 H=0.60 L=3.81			B=0.15 H=0.60 L=6.30		
Mu=-11.77 As =5.83 As(r)=5.76		Mu=-2.35 As =5.83 As(r)=2.77	Mu=-1.98 As =3.98 As(r)=2.77		Mu=-9.92 As =8.32 As(r)=4.83	Mu=-17.01 As =8.32 As(r)=8.47		Mu=-6.50 As =3.98 As(r)=3.13
Mu=3.92 As =3.98 As(r)=2.77	Mu=2.35 As =3.98 As(r)=2.77	Mu=3.68 As =3.98 As(r)=2.77	Mu=1.98 As =3.98 As(r)=2.77	Mu=3.31 As =3.98 As(r)=2.77	Mu=3.31 As =3.98 As(r)=2.77	Mu=5.67 As =3.98 As(r)=2.77	Mu=7.52 As =3.98 As(r)=3.73	Mu=3.40 As =3.98 As(r)=2.77
Vu=-10.35		Vu=-3.88	Vu=-4.81		Vu=9.11	Vu=-12.74		Vu=9.69

VT221/NE+2.95

B=0.15 H=0.60 L=5.63			B=0.15 H=0.60 L=2.85		
Mu=-1.86 As =3.98 As(r)=2.77		Mu=-9.29 As =5.18 As(r)=4.51	Mu=-8.11 As =5.18 As(r)=3.92		Mu=-2.03 As =3.98 As(r)=2.77
Mu=1.86 As =5.68 As(r)=2.77	Mu=8.60 As =5.68 As(r)=4.26	Mu=3.10 As =3.98 As(r)=2.77	Mu=2.70 As =3.98 As(r)=2.77	Mu=1.62 As =5.68 As(r)=2.77	Mu=1.62 As =3.98 As(r)=2.77
Vu=-7.74		Vu=10.40	Vu=-7.34		Vu=4.21

VT222/NE+2.95

B=0.15 H=0.60 L=0.82			B=0.15 H=0.60 L=3.93			B=0.15 H=0.60 L=1.44		
Mu=-12.09 As =5.83 As(r)=5.92		Mu=-2.42 As =5.83 As(r)=2.77	Mu=-1.77 As =3.98 As(r)=2.77		Mu=-8.84 As =5.68 As(r)=4.29	Mu=-10.92 As =5.68 As(r)=5.33		Mu=-11.67 As =5.68 As(r)=5.71
Mu=4.03 As =3.98 As(r)=2.77	Mu=2.42 As =3.98 As(r)=2.77	Mu=6.06 As =3.98 As(r)=2.91	Mu=1.77 As =3.98 As(r)=2.77	Mu=3.85 As =3.98 As(r)=2.77	Mu=2.95 As =3.98 As(r)=2.77	Mu=3.64 As =3.98 As(r)=2.77	Mu=5.94 As =3.98 As(r)=2.86	Mu=3.89 As =3.98 As(r)=2.77
Vu=-11.15		Vu=-4.45	Vu=-5.64		Vu=8.83	Vu=-10.49		Vu=10.72

VT225/NE+2.95

B=0.15 H=0.60 L=4.07			B=0.15 H=0.60 L=1.31		
Mu=-0.00 As =3.98 As(r)=2.77		Mu=-9.36 As =9.38 As(r)=4.55	Mu=-18.05 As =9.38 As(r)=9.01		Mu=-13.17 As =5.68 As(r)=6.47
Mu=3.76 As =3.98 As(r)=2.77	Mu=4.88 As =3.98 As(r)=2.79	Mu=1.87 As =5.68 As(r)=2.77	Mu=6.02 As =5.68 As(r)=2.89	Mu=8.77 As =3.98 As(r)=4.25	Mu=4.39 As =5.68 As(r)=2.77
Vu=-4.00		Vu=9.62	Vu=-13.25		Vu=11.98

VT226/NE+2.95

B=0.15 H=0.60 L=2.85		
Mu=-9.88 As =4.83 As(r)=4.81		Mu=-1.98 As =4.83 As(r)=2.77
Mu=3.29 As =3.28 As(r)=2.77	Mu=1.98 As =3.28 As(r)=2.77	Mu=1.98 As =3.28 As(r)=2.77
Vu=-7.92		Vu=3.63

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VT227/NE+2.95

B=0.15 H=0.60 L=6.80		
Mu=-11.35 As =5.68 As(r)=5.55		Mu=-20.17 As =10.95 As(r)=10.15
Mu=4.03 As =5.68 As(r)=2.77	Mu=9.39 As =5.68 As(r)=4.56	Mu=6.72 As =5.68 As(r)=3.24
Vu=-11.16		Vu=13.31

VT228/NE+2.95

B=0.15 H=0.60 L=2.10			B=0.15 H=0.60 L=4.42			B=0.15 H=0.60 L=6.82		
Mu=-11.76 As =5.83 As(r)=5.75		Mu=-2.35 As =3.98 As(r)=2.77	Mu=-2.05 As =3.98 As(r)=2.77		Mu=-10.25 As =5.68 As(r)=4.99	Mu=-10.09 As =5.68 As(r)=4.91		Mu=-22.11 As =10.95 As(r)=11.20
Mu=3.92 As =3.98 As(r)=2.77	Mu=2.35 As =3.98 As(r)=2.77	Mu=5.78 As =3.98 As(r)=2.78	Mu=2.05 As =3.98 As(r)=2.77	Mu=4.06 As =3.98 As(r)=2.77	Mu=3.42 As =3.98 As(r)=2.77	Mu=4.42 As =3.98 As(r)=2.77	Mu=5.09 As =3.98 As(r)=2.77	Mu=7.37 As =3.98 As(r)=3.56
Vu=-10.53		Vu=-3.21	Vu=-6.23		Vu=9.36	Vu=-9.55		Vu=12.76

VT229/NE+2.95

B=0.15 H=0.60 L=7.62			B=0.15 H=0.60 L=2.85		
Mu=-12.06 As =5.68 As(r)=5.91		Mu=-17.42 As =9.38 As(r)=8.68	Mu=-8.65 As =9.38 As(r)=4.19		Mu=-1.73 As =5.68 As(r)=2.77
Mu=4.02 As =5.68 As(r)=2.77	Mu=9.54 As =5.68 As(r)=4.64	Mu=5.81 As =3.98 As(r)=2.79	Mu=2.88 As =3.98 As(r)=2.77	Mu=1.73 As =5.68 As(r)=2.77	Mu=1.73 As =3.98 As(r)=2.77
Vu=-11.36		Vu=12.68	Vu=-7.66		Vu=3.89

VT230/NE+2.95

B=0.15 H=0.60 L=1.85			B=0.15 H=0.60 L=4.67			B=0.15 H=0.60 L=8.25		
Mu=-10.90 As =5.83 As(r)=5.32		Mu=-2.18 As =3.98 As(r)=2.77	Mu=-2.35 As =3.98 As(r)=2.77		Mu=-11.76 As =10.95 As(r)=5.75	Mu=-20.08 As =10.95 As(r)=10.10		Mu=-19.29 As =10.95 As(r)=9.67
Mu=3.63 As =3.98 As(r)=2.77	Mu=2.18 As =3.98 As(r)=2.77	Mu=2.92 As =3.98 As(r)=2.77	Mu=2.35 As =3.98 As(r)=2.77	Mu=3.93 As =3.98 As(r)=2.77	Mu=3.92 As =3.98 As(r)=2.77	Mu=6.69 As =3.98 As(r)=3.22	Mu=9.46 As =3.98 As(r)=4.60	Mu=6.43 As =5.68 As(r)=3.10
Vu=-9.11		Vu=-1.50	Vu=-6.33		Vu=9.82	Vu=-13.26		Vu=13.08

VT231/NE+2.95

B=0.15 H=0.60 L=7.49			B=0.15 H=0.60 L=2.85		
Mu=-13.02 As =7.68 As(r)=6.40		Mu=-14.65 As =7.68 As(r)=7.24	Mu=-5.68 As =7.68 As(r)=2.77		Mu=-3.47 As =3.98 As(r)=2.77
Mu=4.34 As =5.68 As(r)=2.77	Mu=9.58 As =5.68 As(r)=4.66	Mu=4.88 As =3.98 As(r)=2.77	Mu=1.89 As =3.98 As(r)=2.77	Mu=1.14 As =5.68 As(r)=2.77	Mu=1.16 As =3.98 As(r)=2.77
Vu=-11.60		Vu=12.01	Vu=-6.34		Vu=5.20

VT232/NE+2.95

B=0.15 H=0.60 L=1.57			B=0.15 H=0.60 L=4.95			B=0.20 H=0.60 L=9.58		
Mu=-7.94 As =5.68 As(r)=3.84		Mu=-1.59 As =5.68 As(r)=2.77	Mu=-3.26 As =5.68 As(r)=2.77		Mu=-13.00 As =15.47 As(r)=6.39	Mu=-30.96 As =15.47 As(r)=15.74		Mu=-17.76 As =9.38 As(r)=8.73
Mu=2.65 As =3.98 As(r)=2.77	Mu=1.59 As =3.98 As(r)=2.77	Mu=1.59 As =3.98 As(r)=2.77	Mu=2.60 As =3.98 As(r)=2.77	Mu=4.05 As =3.98 As(r)=2.77	Mu=4.33 As =3.98 As(r)=2.77	Mu=10.32 As =3.98 As(r)=4.99	Mu=15.44 As =3.98 As(r)=7.55	Mu=6.19 As =7.74 As(r)=3.70
Vu=-7.28		Vu=1.25	Vu=-6.62		Vu=10.09	Vu=-16.91		Vu=14.32

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VT233/NE+2.95

B=0.15 H=0.60 L=7.37			B=0.15 H=0.60 L=2.85		
Mu=-14.93 As =7.68 As(r)=7.38		Mu=-12.16 As =5.83 As(r)=5.96	Mu=-3.27 As =5.83 As(r)=2.77		Mu=-4.45 As =3.98 As(r)=2.77
Mu=4.98 As =5.68 As(r)=2.77	Mu=9.13 As =5.68 As(r)=4.43	Mu=4.05 As =3.98 As(r)=2.77	Mu=1.09 As =3.98 As(r)=2.77	Mu=1.74 As =5.68 As(r)=2.77	Mu=1.48 As =3.98 As(r)=2.77
Vu=-11.97		Vu=11.26	Vu=-5.47		Vu=6.08

VT234/NE+2.95

B=0.25 H=0.60 L=10.93		
Mu=-40.61 As =22.49 As(r)=20.73		Mu=-20.63 As =10.37 As(r)=10.11
Mu=13.54 As =11.61 As(r)=6.55	Mu=20.04 As =11.61 As(r)=9.81	Mu=8.12 As =8.52 As(r)=5.89
Vu=-19.35		Vu=15.88

VT235/NE+2.95

B=0.15 H=0.60 L=7.24			B=0.15 H=0.60 L=2.85		
Mu=-19.54 As =10.95 As(r)=9.81		Mu=-8.67 As =3.98 As(r)=4.20	Mu=-3.20 As =3.98 As(r)=2.77		Mu=-3.52 As =3.98 As(r)=2.77
Mu=6.51 As =3.98 As(r)=3.14	Mu=7.63 As =3.98 As(r)=3.75	Mu=3.91 As =3.98 As(r)=2.77	Mu=1.07 As =3.98 As(r)=2.77	Mu=2.24 As =3.98 As(r)=2.77	Mu=1.17 As =3.98 As(r)=2.77
Vu=-12.80		Vu=9.95	Vu=-5.69		Vu=5.85

VT236/NE+2.95

B=0.15 H=0.60 L=7.11			B=0.15 H=0.60 L=2.85		
Mu=-22.85 As =11.44 As(r)=11.60		Mu=-7.31 As =3.98 As(r)=3.53	Mu=-4.88 As =3.98 As(r)=2.77		Mu=-1.99 As =3.98 As(r)=2.77
Mu=7.62 As =3.98 As(r)=3.68	Mu=6.47 As =3.98 As(r)=3.11	Mu=4.57 As =3.98 As(r)=2.77	Mu=1.63 As =3.98 As(r)=2.77	Mu=2.16 As =3.98 As(r)=2.77	Mu=0.98 As =3.98 As(r)=2.77
Vu=-13.23		Vu=9.09	Vu=-6.52		Vu=5.03

VT237/NE+2.95

B=0.15 H=0.60 L=1.30			B=0.15 H=0.60 L=5.81			B=0.25 H=0.60 L=11.00		
Mu=-8.61 As =3.98 As(r)=4.17		Mu=-1.72 As =3.98 As(r)=2.77	Mu=-3.39 As =3.98 As(r)=2.77		Mu=-16.96 As =14.93 As(r)=8.44	Mu=-35.40 As =18.80 As(r)=17.87		Mu=-32.98 As =16.88 As(r)=16.57
Mu=2.87 As =5.68 As(r)=2.77	Mu=1.72 As =5.68 As(r)=2.77	Mu=1.72 As =5.68 As(r)=2.77	Mu=3.39 As =5.68 As(r)=2.77	Mu=5.20 As =5.68 As(r)=2.77	Mu=5.65 As =5.68 As(r)=2.77	Mu=11.80 As =9.55 As(r)=5.69	Mu=22.45 As =5.68 As(r)=11.04	Mu=10.99 As =11.61 As(r)=5.29
Vu=-7.24		Vu=1.27	Vu=-7.04		Vu=11.50	Vu=-18.82		Vu=18.43

VT238/NE+2.95

B=0.15 H=0.60 L=5.59			B=0.15 H=0.60 L=2.85		
Mu=-22.85 As =11.44 As(r)=11.60		Mu=-7.31 As =3.98 As(r)=3.53	Mu=-4.88 As =3.98 As(r)=2.77		Mu=-1.99 As =3.98 As(r)=2.77
Mu=7.62 As =3.98 As(r)=3.68	Mu=6.47 As =3.98 As(r)=3.11	Mu=4.57 As =3.98 As(r)=2.77	Mu=1.63 As =3.98 As(r)=2.77	Mu=2.16 As =3.98 As(r)=2.77	Mu=0.98 As =3.98 As(r)=2.77
Vu=-13.23		Vu=9.09	Vu=-6.52		Vu=5.03

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VT239/NE+2.95

B=0.15 H=0.60 L=1.30			B=0.15 H=0.60 L=6.35			B=0.15 H=0.60 L=6.27		
Mu=-13.47 As =5.83 As(r)=6.63		Mu=-2.69 As =4.13 As(r)=2.77	Mu=-4.77 As =3.98 As(r)=2.77		Mu=-13.45 As =10.95 As(r)=6.62	Mu=-20.51 As =10.95 As(r)=10.33		Mu=-12.29 As =5.68 As(r)=6.02
Mu=4.49 As =3.98 As(r)=2.77	Mu=2.69 As =3.98 As(r)=2.77	Mu=2.69 As =3.98 As(r)=2.77	Mu=2.69 As =3.98 As(r)=2.77	Mu=7.39 As =3.98 As(r)=3.63	Mu=4.48 As =5.68 As(r)=2.77	Mu=6.84 As =5.68 As(r)=3.29	Mu=9.89 As =3.98 As(r)=4.81	Mu=4.10 As =5.68 As(r)=2.77
Vu=-9.76		Vu=-1.53	Vu=-8.61		Vu=11.21	Vu=-13.49		Vu=11.53

VT240/NE+2.95

B=0.15 H=0.60 L=1.30			B=0.15 H=0.60 L=6.90			B=0.15 H=0.60 L=1.50		
Mu=-14.45 As =7.68 As(r)=7.13		Mu=-2.89 As =4.29 As(r)=2.77	Mu=-6.40 As =3.98 As(r)=3.08		Mu=-12.59 As =6.88 As(r)=6.18	Mu=-3.58 As =6.88 As(r)=2.77		Mu=-17.88 As =9.38 As(r)=8.92
Mu=4.82 As =3.98 As(r)=2.77	Mu=2.89 As =3.98 As(r)=2.77	Mu=2.89 As =3.98 As(r)=2.77	Mu=2.52 As =3.98 As(r)=2.77	Mu=9.20 As =3.98 As(r)=4.47	Mu=4.20 As =3.98 As(r)=2.77	Mu=3.58 As =3.98 As(r)=2.77	Mu=3.58 As =3.98 As(r)=2.77	Mu=5.96 As =3.98 As(r)=2.86
Vu=-10.31		Vu=-2.35	Vu=-9.67		Vu=11.42	Vu=-0.32		Vu=9.85

VT241/NE+2.95

B=0.15 H=0.60 L=1.30			B=0.15 H=0.60 L=7.66		
Mu=-10.20 As =5.68 As(r)=4.97		Mu=-2.04 As =5.68 As(r)=2.77	Mu=-8.93 As =5.68 As(r)=4.33		Mu=-14.74 As =7.53 As(r)=7.28
Mu=3.40 As =3.98 As(r)=2.77	Mu=2.04 As =3.98 As(r)=2.77	Mu=2.04 As =3.98 As(r)=2.77	Mu=2.98 As =3.98 As(r)=2.77	Mu=9.18 As =5.68 As(r)=4.46	Mu=4.91 As =5.68 As(r)=2.77
Vu=-7.86		Vu=-0.89	Vu=-10.41		Vu=11.96

VT242/NE+2.95

B=0.15 H=0.60 L=1.69			B=0.15 H=0.60 L=1.00		
Mu=-9.06 As =4.57 As(r)=4.40		Mu=-1.81 As =3.28 As(r)=2.77	Mu=-0.39 As =3.28 As(r)=2.77		Mu=-0.00 As =3.28 As(r)=2.77
Mu=3.02 As =3.28 As(r)=2.77	Mu=1.81 As =3.28 As(r)=2.77	Mu=2.85 As =3.28 As(r)=2.77	Mu=0.43 As =3.28 As(r)=2.77	Mu=0.77 As =3.28 As(r)=2.77	Mu=0.12 As =3.28 As(r)=2.77
Vu=-8.43		Vu=-2.13	Vu=-2.60		Vu=2.09

VT243/NE+2.95

B=0.15 H=0.60 L=2.04			B=0.15 H=0.60 L=2.42		
Mu=-12.70 As =5.68 As(r)=6.23		Mu=-2.54 As =3.98 As(r)=2.77	Mu=-0.73 As =3.98 As(r)=2.77		Mu=-1.84 As =3.98 As(r)=2.77
Mu=4.23 As =3.98 As(r)=2.77	Mu=2.54 As =3.98 As(r)=2.77	Mu=6.96 As =3.98 As(r)=3.36	Mu=1.86 As =3.98 As(r)=2.77	Mu=3.56 As =3.98 As(r)=2.77	Mu=0.73 As =3.98 As(r)=2.77
Vu=-11.56		Vu=-4.94	Vu=-4.14		Vu=5.72

VT244/NE+2.95

B=0.15 H=0.60 L=2.33			B=0.15 H=0.60 L=4.20			B=0.15 H=0.60 L=4.41		
Mu=-16.07 As =7.74 As(r)=7.97		Mu=-3.21 As =3.98 As(r)=2.77	Mu=-1.37 As =3.98 As(r)=2.77		Mu=-6.84 As =3.98 As(r)=3.30	Mu=-2.38 As =3.98 As(r)=2.77		Mu=-9.36 As =5.68 As(r)=4.55
Mu=5.36 As =3.98 As(r)=2.77	Mu=3.21 As =3.98 As(r)=2.77	Mu=4.66 As =3.98 As(r)=2.77	Mu=1.37 As =3.98 As(r)=2.77	Mu=5.88 As =3.98 As(r)=2.94	Mu=2.28 As =3.98 As(r)=2.77	Mu=1.87 As =3.98 As(r)=2.77	Mu=2.34 As =3.98 As(r)=2.77	Mu=3.12 As =3.98 As(r)=2.77
Vu=-11.51		Vu=-4.52	Vu=-6.23		Vu=8.79	Vu=-5.32		Vu=8.36

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VT245/NE+2.95

B=0.15 H=0.60 L=2.33			B=0.15 H=0.60 L=4.20			B=0.15 H=0.60 L=7.21		
Mu=-22.09 As =11.44 As(r)=11.19		Mu=-4.42 As =3.98 As(r)=2.77	Mu=-3.61 As =3.98 As(r)=2.77		Mu=-1.47 As =3.98 As(r)=2.77	Mu=-6.18 As =3.98 As(r)=2.97		Mu=-12.96 As =6.88 As(r)=6.37
Mu=7.36 As =5.68 As(r)=3.55	Mu=4.42 As =5.68 As(r)=2.77	Mu=4.42 As =5.68 As(r)=2.77	Mu=1.47 As =5.68 As(r)=2.77	Mu=7.34 As =5.68 As(r)=3.54	Mu=1.47 As =3.98 As(r)=2.77	Mu=2.59 As =3.98 As(r)=2.77	Mu=10.61 As =9.09 As(r)=5.17	Mu=4.32 As =5.68 As(r)=2.77
Vu=-12.76		Vu=-5.04	Vu=-8.09		Vu=6.93	Vu=-10.04		Vu=11.88

VT246/NE+2.95

B=0.15 H=0.60 L=2.33			B=0.15 H=0.60 L=4.20			B=0.20 H=0.60 L=10.07		
Mu=-26.49 As =14.93 As(r)=13.63		Mu=-5.30 As =7.74 As(r)=2.77	Mu=-6.36 As =7.74 As(r)=3.06		Mu=-1.60 As =5.68 As(r)=2.77	Mu=-10.42 As =5.68 As(r)=5.04		Mu=-42.50 As =22.51 As(r)=22.32
Mu=8.83 As =5.68 As(r)=4.28	Mu=5.30 As =5.68 As(r)=2.77	Mu=5.30 As =5.68 As(r)=2.77	Mu=2.12 As =5.68 As(r)=2.77	Mu=7.56 As =5.68 As(r)=3.88	Mu=2.77 As =5.68 As(r)=2.77	Mu=8.50 As =5.68 As(r)=5.88	Mu=18.63 As =5.68 As(r)=9.80	Mu=14.17 As =7.74 As(r)=6.91
Vu=-14.16		Vu=-6.44	Vu=-9.27		Vu=5.76	Vu=-13.66		Vu=19.57

VT247/NE+2.95

B=0.15 H=0.60 L=6.90		
Mu=-16.23 As =8.32 As(r)=8.06		Mu=-13.32 As =6.88 As(r)=6.55
Mu=5.41 As =3.98 As(r)=2.77	Mu=5.38 As =3.98 As(r)=2.77	Mu=5.38 As =3.98 As(r)=2.77
Vu=-11.35		Vu=10.56

VT248/NE+2.95

B=0.15 H=0.60 L=2.33			B=0.15 H=0.60 L=4.20			B=0.20 H=0.60 L=9.41		
Mu=-26.50 As =14.93 As(r)=13.63		Mu=-5.30 As =3.98 As(r)=2.77	Mu=-6.97 As =3.98 As(r)=3.36		Mu=-1.59 As =5.68 As(r)=2.77	Mu=-11.34 As =5.68 As(r)=5.49		Mu=-29.29 As =14.93 As(r)=14.83
Mu=8.83 As =3.98 As(r)=4.28	Mu=5.30 As =3.98 As(r)=2.77	Mu=5.30 As =3.98 As(r)=2.77	Mu=2.32 As =3.98 As(r)=2.77	Mu=7.41 As =3.98 As(r)=3.85	Mu=2.98 As =3.98 As(r)=2.77	Mu=5.86 As =3.98 As(r)=3.70	Mu=19.13 As =3.98 As(r)=9.46	Mu=9.76 As =7.74 As(r)=4.71
Vu=-14.10		Vu=-6.38	Vu=-9.45		Vu=5.57	Vu=-13.77		Vu=17.31

VT249/NE+2.95

B=0.15 H=0.60 L=6.76			B=0.15 H=0.60 L=2.85		
Mu=-12.34 As =5.83 As(r)=6.05		Mu=-14.21 As =7.74 As(r)=7.01	Mu=-7.62 As =7.74 As(r)=3.68		Mu=-1.53 As =3.98 As(r)=2.77
Mu=4.11 As =3.98 As(r)=2.77	Mu=6.15 As =3.98 As(r)=2.96	Mu=4.74 As =3.98 As(r)=2.77	Mu=2.54 As =3.98 As(r)=2.77	Mu=1.52 As =3.98 As(r)=2.77	Mu=1.52 As =3.98 As(r)=2.77
Vu=-10.49		Vu=11.01	Vu=-7.34		Vu=4.20

VT250/NE+2.95

B=0.15 H=0.60 L=2.33			B=0.15 H=0.60 L=4.20			B=0.20 H=0.60 L=8.65		
Mu=-22.41 As =11.44 As(r)=11.36		Mu=-4.48 As =3.98 As(r)=2.77	Mu=-3.65 As =3.98 As(r)=2.77		Mu=-3.05 As =9.38 As(r)=2.77	Mu=-17.95 As =9.38 As(r)=8.83		Mu=-20.87 As =10.20 As(r)=10.34
Mu=7.47 As =3.98 As(r)=3.61	Mu=4.48 As =3.98 As(r)=2.77	Mu=4.48 As =3.98 As(r)=2.77	Mu=1.23 As =3.98 As(r)=2.77	Mu=6.13 As =3.98 As(r)=2.95	Mu=1.23 As =3.98 As(r)=2.77	Mu=5.98 As =3.98 As(r)=3.70	Mu=17.44 As =3.98 As(r)=8.57	Mu=6.96 As =7.74 As(r)=3.70
Vu=-12.95		Vu=-5.23	Vu=-7.63		Vu=7.39	Vu=-15.40		Vu=16.02

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VT251/NE+2.95

B=0.15 H=0.60 L=6.62			B=0.15 H=0.60 L=2.85		
Mu=-11.20 As =5.83 As(r)=5.47		Mu=-12.67 As =6.82 As(r)=6.22	Mu=-5.11 As =6.82 As(r)=2.77		Mu=-3.28 As =3.98 As(r)=2.77
Mu=3.73 As =3.98 As(r)=2.77	Mu=6.78 As =3.98 As(r)=3.27	Mu=4.22 As =3.98 As(r)=2.77	Mu=1.70 As =3.98 As(r)=2.77	Mu=1.40 As =3.98 As(r)=2.77	Mu=1.40 As =3.98 As(r)=2.77
Vu=-10.34		Vu=10.76	Vu=-6.24		Vu=5.30

VT252/NE+2.95

B=0.15 H=0.60 L=2.33			B=0.15 H=0.60 L=4.20			B=0.15 H=0.60 L=7.93		
Mu=-17.19 As =8.32 As(r)=8.56		Mu=-3.44 As =5.68 As(r)=2.77	Mu=-2.09 As =5.68 As(r)=2.77		Mu=-10.46 As =11.44 As(r)=5.10	Mu=-22.01 As =11.44 As(r)=11.14		Mu=-15.25 As =7.53 As(r)=7.55
Mu=5.73 As =3.98 As(r)=2.77	Mu=3.44 As =3.98 As(r)=2.77	Mu=5.72 As =3.98 As(r)=2.77	Mu=2.09 As =3.98 As(r)=2.77	Mu=4.57 As =3.98 As(r)=2.77	Mu=3.49 As =3.98 As(r)=2.77	Mu=7.34 As =3.98 As(r)=3.54	Mu=11.62 As =3.98 As(r)=5.68	Mu=5.08 As =5.68 As(r)=2.77
Vu=-12.44		Vu=-5.31	Vu=-5.31		Vu=9.71	Vu=-14.84		Vu=13.27

VT253/NE+2.95

B=0.15 H=0.60 L=6.49			B=0.15 H=0.60 L=2.85		
Mu=-12.13 As =5.83 As(r)=5.94		Mu=-9.83 As =5.68 As(r)=4.78	Mu=-3.07 As =5.68 As(r)=2.77		Mu=-4.15 As =3.98 As(r)=2.77
Mu=4.04 As =3.98 As(r)=2.77	Mu=7.02 As =3.98 As(r)=3.39	Mu=3.28 As =3.98 As(r)=2.77	Mu=1.02 As =3.98 As(r)=2.77	Mu=1.99 As =3.98 As(r)=2.77	Mu=1.38 As =3.98 As(r)=2.77
Vu=-10.68		Vu=10.02	Vu=-5.49		Vu=6.05

VT254/NE+2.95

B=0.15 H=0.60 L=5.70		
Mu=-18.15 As =9.38 As(r)=9.07		Mu=-4.94 As =3.98 As(r)=2.77
Mu=6.05 As =3.28 As(r)=2.91	Mu=4.03 As =3.28 As(r)=2.77	Mu=3.63 As =3.28 As(r)=2.77
Vu=-12.05		Vu=7.68

VT255/NE+2.95

B=0.15 H=0.60 L=6.35			B=0.15 H=0.60 L=2.85		
Mu=-13.78 As =7.53 As(r)=6.79		Mu=-7.30 As =3.98 As(r)=3.52	Mu=-3.12 As =3.98 As(r)=2.77		Mu=-3.37 As =3.98 As(r)=2.77
Mu=4.59 As =3.98 As(r)=2.77	Mu=6.78 As =3.98 As(r)=3.27	Mu=2.76 As =3.98 As(r)=2.77	Mu=1.04 As =3.98 As(r)=2.77	Mu=2.35 As =3.98 As(r)=2.77	Mu=1.12 As =3.98 As(r)=2.77
Vu=-11.10		Vu=9.20	Vu=-5.71		Vu=5.84

VT256/NE+2.95

B=0.15 H=0.60 L=4.26			B=0.15 H=0.60 L=6.22			B=0.15 H=0.60 L=2.85		
Mu=-14.36 As =7.74 As(r)=7.09		Mu=-6.95 As =7.67 As(r)=3.35	Mu=-14.36 As =7.67 As(r)=7.09		Mu=-6.95 As =3.98 As(r)=3.35	Mu=-4.61 As =3.98 As(r)=2.77		Mu=-2.13 As =3.98 As(r)=2.77
Mu=4.79 As =3.98 As(r)=2.77	Mu=5.99 As =3.98 As(r)=2.88	Mu=2.87 As =3.98 As(r)=2.77	Mu=4.79 As =3.98 As(r)=2.77	Mu=5.99 As =3.98 As(r)=2.88	Mu=2.87 As =3.98 As(r)=2.77	Mu=1.54 As =3.98 As(r)=2.77	Mu=2.23 As =3.98 As(r)=2.77	Mu=0.92 As =3.98 As(r)=2.77
Vu=-11.06		Vu=8.84	Vu=-11.06		Vu=8.84	Vu=-6.41		Vu=5.13

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VT257/NE+2.95

B=0.15 H=0.60 L=4.18			B=0.15 H=0.60 L=1.27		
Mu=-1.63 As =3.98 As(r)=2.77		Mu=-1.63 As =3.98 As(r)=2.77	Mu=-0.00 As =3.98 As(r)=2.77		Mu=-0.07 As =3.98 As(r)=2.77
Mu=1.63 As =3.98 As(r)=2.77	Mu=8.14 As =3.98 As(r)=3.94	Mu=1.63 As =3.98 As(r)=2.77	Mu=0.53 As =3.98 As(r)=2.77	Mu=0.67 As =3.98 As(r)=2.77	Mu=0.00 As =3.98 As(r)=2.77
Vu=-7.49		Vu=7.53	Vu=-1.45		Vu=2.12

VT258/NE+2.95

B=0.15 H=0.60 L=2.35			B=0.15 H=0.60 L=4.18			B=0.15 H=0.60 L=2.08		
Mu=-19.94 As =10.38 As(r)=10.02		Mu=-3.99 As =3.98 As(r)=2.77	Mu=-1.57 As =3.98 As(r)=2.77		Mu=-2.06 As =3.98 As(r)=2.77	Mu=-2.06 As =3.98 As(r)=2.77		Mu=-0.15 As =3.98 As(r)=2.77
Mu=6.65 As =3.98 As(r)=3.20	Mu=3.99 As =3.98 As(r)=2.77	Mu=3.99 As =3.98 As(r)=2.77	Mu=1.57 As =3.98 As(r)=2.77	Mu=7.84 As =3.98 As(r)=3.79	Mu=1.57 As =3.98 As(r)=2.77	Mu=0.41 As =3.98 As(r)=2.77	Mu=0.00 As =3.98 As(r)=2.77	Mu=0.00 As =3.98 As(r)=2.77
Vu=-12.57		Vu=-4.85	Vu=-7.35		Vu=7.68	Vu=-3.37		Vu=0.19

VT259/NE+2.95

B=0.15 H=0.60 L=2.72			B=0.15 H=0.60 L=5.27		
Mu=-0.00 As =2.99 As(r)=2.77		Mu=-13.00 As =5.83 As(r)=6.39	Mu=-11.11 As =5.83 As(r)=5.43		Mu=-11.60 As =5.83 As(r)=5.67
Mu=1.48 As =2.99 As(r)=2.77	Mu=2.60 As =3.98 As(r)=2.77	Mu=2.60 As =3.98 As(r)=2.77	Mu=3.70 As =3.98 As(r)=2.77	Mu=4.93 As =3.98 As(r)=2.77	Mu=3.87 As =3.98 As(r)=2.77
Vu=-2.79		Vu=10.11	Vu=-9.77		Vu=9.92

VT260/NE+2.95

B=0.15 H=0.60 L=2.35			B=0.15 H=0.60 L=4.18			B=0.15 H=0.60 L=1.27		
Mu=-20.78 As =10.95 As(r)=10.48		Mu=-4.16 As =3.98 As(r)=2.77	Mu=-1.63 As =3.98 As(r)=2.77		Mu=-1.63 As =3.98 As(r)=2.77	Mu=-0.00 As =3.98 As(r)=2.77		Mu=-0.07 As =3.98 As(r)=2.77
Mu=6.93 As =3.98 As(r)=3.34	Mu=4.16 As =3.98 As(r)=2.77	Mu=4.16 As =3.98 As(r)=2.77	Mu=1.63 As =3.98 As(r)=2.77	Mu=8.14 As =3.98 As(r)=3.94	Mu=1.63 As =3.98 As(r)=2.77	Mu=0.53 As =3.98 As(r)=2.77	Mu=0.67 As =3.98 As(r)=2.77	Mu=0.00 As =3.98 As(r)=2.77
Vu=-12.99		Vu=-5.27	Vu=-7.49		Vu=7.53	Vu=-1.45		Vu=2.12

VT261/NE+2.95

B=0.15 H=0.60 L=1.79			B=0.15 H=0.60 L=6.15			B=0.15 H=0.60 L=2.85		
Mu=-2.11 As =2.99 As(r)=2.77		Mu=-10.57 As =5.27 As(r)=5.15	Mu=-9.21 As =5.27 As(r)=4.47		Mu=-11.21 As =5.97 As(r)=5.48	Mu=-6.19 As =5.97 As(r)=2.98		Mu=-1.80 As =3.98 As(r)=2.77
Mu=2.11 As =2.99 As(r)=2.77	Mu=2.11 As =3.98 As(r)=2.77	Mu=3.52 As =3.98 As(r)=2.77	Mu=3.07 As =3.98 As(r)=2.77	Mu=5.97 As =3.98 As(r)=2.87	Mu=3.74 As =3.98 As(r)=2.77	Mu=2.06 As =3.98 As(r)=2.77	Mu=1.79 As =3.98 As(r)=2.77	Mu=1.24 As =3.98 As(r)=2.77
Vu=-1.72		Vu=8.23	Vu=-9.51		Vu=10.12	Vu=-6.91		Vu=4.64

VT262/NE+2.95

B=0.15 H=0.60 L=2.35			B=0.15 H=0.60 L=4.18			B=0.15 H=0.60 L=2.84		
Mu=-14.60 As =7.74 As(r)=7.21		Mu=-2.92 As =3.98 As(r)=2.77	Mu=-1.25 As =3.98 As(r)=2.77		Mu=-6.07 As =3.98 As(r)=2.92	Mu=-2.94 As =3.98 As(r)=2.77		Mu=-14.68 As =7.74 As(r)=7.25
Mu=4.87 As =3.98 As(r)=2.77	Mu=2.92 As =3.98 As(r)=2.77	Mu=4.76 As =3.98 As(r)=2.77	Mu=1.25 As =3.98 As(r)=2.77	Mu=6.13 As =3.98 As(r)=3.01	Mu=2.02 As =3.98 As(r)=2.77	Mu=2.94 As =3.98 As(r)=2.77	Mu=2.94 As =3.98 As(r)=2.77	Mu=4.89 As =3.98 As(r)=2.77
Vu=-11.06		Vu=-4.19	Vu=-6.44		Vu=8.59	Vu=-0.64		Vu=10.97

MEMORIAS VIGUETAS PISO 1 NE+2.95m

VT263/NE+2.95

B=0.15 H=0.60 L=0.91			B=0.15 H=0.60 L=6.15			B=0.15 H=0.60 L=2.85		
Mu=-0.93 As =2.99 As(r)=2.77		Mu=-6.68 As =5.27 As(r)=3.22	Mu=-9.02 As =5.27 As(r)=4.38		Mu=-9.32 As =5.27 As(r)=4.53	Mu=-3.85 As =5.27 As(r)=2.77		Mu=-3.14 As =3.98 As(r)=2.77
Mu=0.00 As =2.99 As(r)=2.77	Mu=0.00 As =3.98 As(r)=2.77	Mu=1.34 As =3.98 As(r)=2.77	Mu=3.01 As =3.98 As(r)=2.77	Mu=6.91 As =3.98 As(r)=3.33	Mu=3.11 As =3.98 As(r)=2.77	Mu=1.28 As =3.98 As(r)=2.77	Mu=2.11 As =3.98 As(r)=2.77	Mu=1.05 As =3.98 As(r)=2.77
Vu=-0.81		Vu=6.18	Vu=-9.74		Vu=9.83	Vu=-5.96		Vu=5.59

VT264/NE+2.95

B=0.15 H=0.60 L=6.15			B=0.15 H=0.60 L=2.85		
Mu=-9.89 As =5.68 As(r)=4.81		Mu=-7.34 As =3.98 As(r)=3.54	Mu=-2.14 As =3.98 As(r)=2.77		Mu=-3.93 As =3.98 As(r)=2.77
Mu=3.30 As =3.98 As(r)=2.77	Mu=7.36 As =3.98 As(r)=3.55	Mu=2.45 As =3.98 As(r)=2.77	Mu=0.79 As =3.98 As(r)=2.77	Mu=2.57 As =3.98 As(r)=2.77	Mu=1.31 As =3.98 As(r)=2.77
Vu=-10.14		Vu=9.36	Vu=-5.31		Vu=6.24

VT265/NE+2.95

B=0.15 H=0.60 L=6.15			B=0.15 H=0.60 L=2.85		
Mu=-11.65 As =5.68 As(r)=5.70		Mu=-6.21 As =3.98 As(r)=2.99	Mu=-2.60 As =3.98 As(r)=2.77		Mu=-3.32 As =3.98 As(r)=2.77
Mu=3.88 As =3.98 As(r)=2.77	Mu=6.95 As =3.98 As(r)=3.35	Mu=2.33 As =3.98 As(r)=2.77	Mu=0.87 As =3.98 As(r)=2.77	Mu=2.64 As =3.98 As(r)=2.77	Mu=1.11 As =3.98 As(r)=2.77
Vu=-10.55		Vu=8.89	Vu=-5.59		Vu=5.96

VT266/NE+2.95

B=0.15 H=0.60 L=6.15			B=0.15 H=0.60 L=2.85		
Mu=-11.43 As =5.68 As(r)=5.59		Mu=-7.84 As =3.98 As(r)=3.79	Mu=-4.42 As =3.98 As(r)=2.77		Mu=-2.29 As =3.98 As(r)=2.77
Mu=3.81 As =3.98 As(r)=2.77	Mu=6.14 As =3.98 As(r)=2.95	Mu=2.61 As =3.98 As(r)=2.77	Mu=1.47 As =3.98 As(r)=2.77	Mu=2.24 As =3.98 As(r)=2.77	Mu=0.88 As =3.98 As(r)=2.77
Vu=-10.24		Vu=9.14	Vu=-6.32		Vu=5.22

VT267/NE+2.95

B=0.15 H=0.60 L=2.40			B=0.15 H=0.60 L=4.02			B=0.15 H=0.60 L=3.82		
Mu=-12.25 As =5.83 As(r)=6.00		Mu=-2.45 As =3.98 As(r)=2.77	Mu=-1.74 As =3.98 As(r)=2.77		Mu=-8.72 As =3.98 As(r)=4.23	Mu=-7.08 As =3.98 As(r)=3.41		Mu=-3.75 As =3.98 As(r)=2.77
Mu=4.08 As =3.98 As(r)=2.77	Mu=2.45 As =3.98 As(r)=2.77	Mu=6.60 As =3.98 As(r)=3.18	Mu=1.74 As =3.98 As(r)=2.77	Mu=4.54 As =3.98 As(r)=2.77	Mu=2.91 As =3.98 As(r)=2.77	Mu=2.36 As =3.98 As(r)=2.77	Mu=3.50 As =3.98 As(r)=2.77	Mu=1.42 As =3.98 As(r)=2.77
Vu=-11.46		Vu=-5.13	Vu=-5.61		Vu=9.05	Vu=-8.34		Vu=6.92

VT268/NE+2.95

B=0.15 H=0.60 L=1.92			B=0.15 H=0.60 L=3.85			B=0.15 H=0.60 L=6.14		
Mu=-11.69 As =5.97 As(r)=5.72		Mu=-2.34 As =3.98 As(r)=2.77	Mu=-2.20 As =3.98 As(r)=2.77		Mu=-11.01 As =7.68 As(r)=5.37	Mu=-13.69 As =7.68 As(r)=6.74		Mu=-16.00 As =7.68 As(r)=7.94
Mu=3.90 As =3.98 As(r)=2.77	Mu=2.34 As =3.98 As(r)=2.77	Mu=4.86 As =3.98 As(r)=2.77	Mu=2.72 As =3.98 As(r)=2.77	Mu=4.44 As =3.98 As(r)=2.77	Mu=3.67 As =3.98 As(r)=2.77	Mu=4.56 As =3.98 As(r)=2.77	Mu=7.64 As =3.98 As(r)=3.69	Mu=5.33 As =3.98 As(r)=2.77
Vu=-10.86		Vu=-4.42	Vu=-4.29		Vu=10.00	Vu=-11.80		Vu=12.43

MEMORIAS VIGUETAS PISO 1 NE+2.95m

VT269/NE+2.95

B=0.15 H=0.60 L=1.00			B=0.15 H=0.60 L=3.70			B=0.15 H=0.60 L=6.95		
Mu=-10.74 As =5.18 As(r)=5.24		Mu=-2.15 As =5.18 As(r)=2.77	Mu=-2.07 As =3.98 As(r)=2.77		Mu=-10.34 As =7.68 As(r)=5.04	Mu=-15.17 As =7.68 As(r)=7.50		Mu=-11.32 As =7.53 As(r)=5.53
Mu=3.58 As =3.98 As(r)=2.77	Mu=2.15 As =3.98 As(r)=2.77	Mu=3.90 As =3.98 As(r)=2.77	Mu=2.95 As =3.98 As(r)=2.77	Mu=4.46 As =3.98 As(r)=2.77	Mu=3.45 As =3.98 As(r)=2.77	Mu=5.06 As =3.98 As(r)=2.77	Mu=6.70 As =3.98 As(r)=3.23	Mu=3.77 As =3.98 As(r)=2.77
Vu=-10.40		Vu=-4.60	Vu=-4.13		Vu=9.80	Vu=-11.96		Vu=10.86

B=0.15 H=0.60 L=1.41		
Mu=-15.17 As =7.53 As(r)=7.50		Mu=-11.32 As =5.68 As(r)=5.53
Mu=5.06 As =3.98 As(r)=2.77	Mu=6.70 As =3.98 As(r)=3.23	Mu=3.77 As =3.98 As(r)=2.77
Vu=-11.96		Vu=10.86

VT270/NE+2.95

B=0.15 H=0.60 L=0.90			B=0.15 H=0.60 L=3.70		
Mu=-9.69 As =5.27 As(r)=4.71		Mu=-1.94 As =5.27 As(r)=2.77	Mu=-1.80 As =4.52 As(r)=2.77		Mu=-8.99 As =5.27 As(r)=4.36
Mu=3.23 As =3.98 As(r)=2.77	Mu=1.94 As =3.98 As(r)=2.77	Mu=2.75 As =3.98 As(r)=2.77	Mu=2.03 As =3.98 As(r)=2.77	Mu=4.39 As =3.98 As(r)=2.77	Mu=3.00 As =3.98 As(r)=2.77
Vu=-9.75		Vu=-4.58	Vu=-4.45		Vu=9.24

VT271/NE+2.95

B=0.15 H=0.60 L=3.59		
Mu=-16.21 As =7.68 As(r)=8.05		Mu=-0.00 As =3.98 As(r)=2.77
Mu=3.24 As =3.98 As(r)=2.77	Mu=0.00 As =3.98 As(r)=2.77	Mu=11.67 As =5.83 As(r)=5.71
Vu=-7.76		Vu=-4.65

VT272/NE+2.95

B=0.15 H=0.60 L=0.90			B=0.15 H=0.60 L=3.70			B=0.15 H=0.60 L=5.64		
Mu=-9.16 As =3.98 As(r)=4.45		Mu=-1.83 As =3.98 As(r)=2.77	Mu=-1.70 As =3.98 As(r)=2.77		Mu=-8.49 As =6.88 As(r)=4.11	Mu=-13.82 As =6.88 As(r)=6.81		Mu=-7.05 As =3.98 As(r)=3.40
Mu=3.05 As =3.98 As(r)=2.77	Mu=1.83 As =3.98 As(r)=2.77	Mu=2.15 As =3.98 As(r)=2.77	Mu=1.70 As =3.98 As(r)=2.77	Mu=4.25 As =3.98 As(r)=2.77	Mu=2.83 As =3.98 As(r)=2.77	Mu=4.61 As =3.98 As(r)=2.77	Mu=4.16 As =3.98 As(r)=2.77	Mu=2.76 As =3.98 As(r)=2.77
Vu=-9.69		Vu=-5.16	Vu=-4.73		Vu=8.96	Vu=-10.88		Vu=8.61

B=0.15 H=0.60 L=3.19		
Mu=-3.98 As =3.98 As(r)=2.77		Mu=-0.00 As =3.98 As(r)=2.77
Mu=0.80 As =3.98 As(r)=2.77	Mu=1.20 As =3.98 As(r)=2.77	Mu=0.32 As =3.98 As(r)=2.77
Vu=-6.02		Vu=2.92

MEMORIAS VIGUETAS PISO 1 NE+2.95m

VT273/NE+2.95

B=0.15 H=0.60 L=0.90			B=0.15 H=0.60 L=3.70			B=0.15 H=0.60 L=5.00		
Mu=-10.28 As =5.27 As(r)=5.01		Mu=-2.06 As =5.27 As(r)=2.77	Mu=-1.58 As =4.52 As(r)=2.77		Mu=-7.91 As =3.98 As(r)=3.82	Mu=-9.17 As =3.98 As(r)=4.45		Mu=-8.15 As =3.98 As(r)=3.94
Mu=3.43 As =3.98 As(r)=2.77	Mu=2.06 As =3.98 As(r)=2.77	Mu=4.68 As =3.98 As(r)=2.77	Mu=1.60 As =3.98 As(r)=2.77	Mu=4.25 As =3.98 As(r)=2.77	Mu=2.64 As =3.98 As(r)=2.77	Mu=3.06 As =3.98 As(r)=2.77	Mu=3.37 As =3.98 As(r)=2.77	Mu=2.72 As =3.98 As(r)=2.77
Vu=-13.32		Vu=-9.43	Vu=-4.98		Vu=8.71	Vu=-9.05		Vu=8.67

B=0.15 H=0.60 L=2.78		
Mu=-6.13 As =3.98 As(r)=2.95		Mu=-0.00 As =3.98 As(r)=2.77
Mu=1.23 As =3.98 As(r)=2.77	Mu=1.23 As =3.98 As(r)=2.77	Mu=1.22 As =3.98 As(r)=2.77
Vu=-6.97		Vu=0.76

VT274/NE+2.95

B=0.15 H=0.60 L=3.71			B=0.15 H=0.60 L=1.80		
Mu=-1.63 As =3.98 As(r)=2.77		Mu=-1.63 As =3.98 As(r)=2.77	Mu=-0.00 As =3.98 As(r)=2.77		Mu=-0.07 As =3.98 As(r)=2.77
Mu=1.63 As =3.98 As(r)=2.77	Mu=8.14 As =3.98 As(r)=3.94	Mu=1.63 As =3.98 As(r)=2.77	Mu=0.53 As =3.98 As(r)=2.77	Mu=0.67 As =3.98 As(r)=2.77	Mu=0.00 As =3.98 As(r)=2.77
Vu=-7.49		Vu=7.53	Vu=-1.45		Vu=2.12

VT277/NE+2.95

B=0.15 H=0.60 L=0.90			B=0.15 H=0.60 L=3.70			B=0.15 H=0.60 L=7.80		
Mu=-12.60 As =5.83 As(r)=6.18		Mu=-2.52 As =5.83 As(r)=2.77	Mu=-1.92 As =4.13 As(r)=2.77		Mu=-7.72 As =3.98 As(r)=3.73	Mu=-3.87 As =3.98 As(r)=2.77		Mu=-5.18 As =3.98 As(r)=2.77
Mu=4.20 As =5.18 As(r)=2.77	Mu=2.52 As =5.18 As(r)=2.77	Mu=10.12 As =5.18 As(r)=4.93	Mu=1.54 As =4.48 As(r)=2.77	Mu=4.66 As =3.98 As(r)=2.77	Mu=2.57 As =3.98 As(r)=2.77	Mu=1.29 As =3.98 As(r)=2.77	Mu=1.77 As =3.98 As(r)=2.77	Mu=1.73 As =3.98 As(r)=2.77
Vu=-21.73		Vu=-19.36	Vu=-6.36		Vu=8.66	Vu=-5.80		Vu=6.44

VT278/NE+2.95

B=0.15 H=0.60 L=5.00			B=0.15 H=0.60 L=8.67		
Mu=-3.96 As =3.98 As(r)=2.77		Mu=-11.77 As =9.38 As(r)=5.76	Mu=-16.70 As =9.38 As(r)=8.30		Mu=-4.81 As =3.98 As(r)=2.77
Mu=2.35 As =3.98 As(r)=2.77	Mu=6.07 As =3.98 As(r)=3.00	Mu=3.92 As =3.98 As(r)=2.77	Mu=5.57 As =3.98 As(r)=2.77	Mu=5.70 As =3.98 As(r)=2.96	Mu=3.34 As =3.98 As(r)=2.77
Vu=-7.83		Vu=10.38	Vu=-11.68		Vu=8.11

VT279/NE+2.95

B=0.15 H=0.60 L=5.00			B=0.15 H=0.60 L=7.06		
Mu=-5.20 As =3.98 As(r)=2.77		Mu=-9.51 As =5.27 As(r)=4.62	Mu=-7.62 As =5.27 As(r)=3.68		Mu=-6.83 As =3.98 As(r)=3.29
Mu=1.90 As =3.98 As(r)=2.77	Mu=6.35 As =3.98 As(r)=3.06	Mu=3.17 As =3.98 As(r)=2.77	Mu=2.54 As =3.98 As(r)=2.77	Mu=1.52 As =3.98 As(r)=2.77	Mu=1.52 As =3.98 As(r)=2.77
Vu=-8.32		Vu=9.74	Vu=-6.97		Vu=6.62

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MEMORIAS VIGUETAS PISO 1 NE+2.95m

VT283/NE+2.95

B=0.15 H=0.60 L=5.00			B=0.15 H=0.60 L=6.33		
Mu=-5.20 As =3.98 As(r)=2.77		Mu=-9.51 As =5.27 As(r)=4.62	Mu=-7.62 As =5.27 As(r)=3.68		Mu=-6.83 As =3.98 As(r)=3.29
Mu=1.90 As =3.98 As(r)=2.77	Mu=6.35 As =3.98 As(r)=3.06	Mu=3.17 As =3.98 As(r)=2.77	Mu=2.54 As =3.98 As(r)=2.77	Mu=1.52 As =3.98 As(r)=2.77	Mu=1.52 As =3.98 As(r)=2.77
Vu=-8.32		Vu=9.74	Vu=-6.97		Vu=6.62

MEMORIAS VIGUETAS PISO 1 NE+2.95m

VT200/NE+2.95m

B=0.15 H=0.60 L=7.01		
Mu=-0.00 As =3.98 As(r)=2.77		Mu=-0.00 As =3.98 As(r)=2.77
Mu=2.37 As =5.68 As(r)=3.17	Mu=10.82 As =5.68 As(r)=5.28	Mu=1.34 As =5.68 As(r)=3.17
Vu=4.97		Vu=-5.26

VT201/NE+2.95m

B=0.15 H=0.60 L=2.29			B=0.15 H=0.60 L=10.60			B=0.15 H=0.60 L=6.83		
Mu=-1.01 As =5.68 As(r)=2.77		Mu=-12.52 As =5.68 As(r)=6.14	Mu=-12.33 As =5.68 As(r)=6.05		Mu=-9.97 As =5.18 As(r)=4.85	Mu=-10.47 As =5.18 As(r)=5.10		Mu=-4.64 As =3.98 As(r)=2.77
Mu=0.00 As =3.98 As(r)=2.77	Mu=0.00 As =3.98 As(r)=2.77	Mu=2.50 As =3.98 As(r)=2.77	Mu=4.11 As =3.98 As(r)=2.77	Mu=9.36 As =5.68 As(r)=4.54	Mu=3.32 As =5.68 As(r)=2.77	Mu=3.49 As =5.68 As(r)=2.77	Mu=2.09 As =5.68 As(r)=2.77	Mu=2.09 As =3.98 As(r)=2.77
Vu=-3.35		Vu=-6.70	Vu=7.96		Vu=-7.51	Vu=5.84		Vu=-4.13

B=0.15 H=0.60 L=5.98		
Mu=-4.42 As =3.98 As(r)=2.77		Mu=-0.00 As =3.98 As(r)=2.77
Mu=0.88 As =3.98 As(r)=2.77	Mu=4.84 As =7.34 As(r)=2.77	Mu=1.04 As =3.98 As(r)=2.77
Vu=5.28		Vu=-3.45

VT202/NE+2.95m

B=0.15 H=0.60 L=4.58			B=0.15 H=0.60 L=3.00			B=0.15 H=0.60 L=13.20		
Mu=-0.00 As =3.98 As(r)=2.77		Mu=-0.00 As =3.98 As(r)=2.77	Mu=-3.46 As =3.98 As(r)=2.77		Mu=-17.31 As =9.38 As(r)=8.63	Mu=-16.82 As =9.38 As(r)=8.37		Mu=-19.91 As =10.38 As(r)=10.01
Mu=1.89 As =3.98 As(r)=2.77	Mu=5.28 As =3.98 As(r)=2.77	Mu=1.01 As =3.98 As(r)=2.77	Mu=3.46 As =3.98 As(r)=2.77	Mu=3.46 As =3.98 As(r)=2.77	Mu=5.77 As =3.98 As(r)=2.77	Mu=5.61 As =3.98 As(r)=3.96	Mu=13.43 As =3.98 As(r)=6.61	Mu=6.64 As =3.98 As(r)=3.96
Vu=3.15		Vu=-3.54	Vu=-3.39		Vu=-7.77	Vu=9.40		Vu=-9.87

B=0.15 H=0.60 L=1.61		
Mu=-19.10 As =10.38 As(r)=9.57		Mu=-0.77 As =7.74 As(r)=2.77
Mu=3.82 As =3.98 As(r)=2.77	Mu=0.00 As =3.98 As(r)=2.77	Mu=0.00 As =3.98 As(r)=2.77
Vu=12.56		Vu=10.21

VT204/NE+2.95m

B=0.15 H=0.60 L=0.95			B=0.15 H=0.60 L=6.00		
Mu=-0.00 As =0.00 As(r)=2.77		Mu=-0.66 As =3.28 As(r)=2.77	Mu=-0.02 As =3.28 As(r)=2.77		Mu=-0.00 As =3.28 As(r)=2.77
Mu=0.00 As =0.00 As(r)=2.77	Mu=0.00 As =3.98 As(r)=2.77	Mu=0.13 As =3.98 As(r)=2.77	Mu=0.00 As =3.98 As(r)=2.77	Mu=7.19 As =3.98 As(r)=3.47	Mu=1.25 As =3.98 As(r)=2.77
Vu=0.00		Vu=-1.39	Vu=4.59		Vu=-4.17

MEMORIAS VIGUETAS PISO 1 NE+2.95m

VT275/NE+2.95m

B=0.15 H=0.60 L=2.40		
Mu=-0.00 As =3.28 As(r)=2.77		Mu=-0.00 As =3.28 As(r)=2.77
Mu=0.56 As =3.28 As(r)=2.77	Mu=1.55 As =3.28 As(r)=2.77	Mu=0.45 As =3.28 As(r)=2.77
Vu=1.71		Vu=-1.80

VT276/NE+2.95m

B=0.15 H=0.60 L=1.60		
Mu=-0.00 As =3.28 As(r)=2.77		Mu=-0.00 As =3.28 As(r)=2.77
Mu=0.27 As =3.28 As(r)=2.77	Mu=0.65 As =3.28 As(r)=2.77	Mu=0.10 As =3.28 As(r)=2.77
Vu=1.06		Vu=-1.27

VT223/NE+2.95m

B=0.15 H=0.60 L=1.66			B=0.15 H=0.60 L=1.39		
Mu=-0.00 As =2.46 As(r)=2.77		Mu=-1.41 As =3.28 As(r)=2.77	Mu=-1.41 As =3.28 As(r)=2.77		Mu=-0.00 As =0.00 As(r)=2.77
Mu=0.07 As =2.46 As(r)=2.77	Mu=0.00 As =3.28 As(r)=2.77	Mu=0.28 As =3.28 As(r)=2.77	Mu=0.28 As =3.28 As(r)=2.77	Mu=0.00 As =3.28 As(r)=2.77	Mu=0.00 As =0.00 As(r)=2.77
Vu=0.35		Vu=-2.08	Vu=2.03		Vu=0.00

VT224/NE+2.95m

B=0.15 H=0.60 L=1.80			B=0.15 H=0.60 L=1.01		
Mu=-0.00 As =0.00 As(r)=2.77		Mu=-2.37 As =3.28 As(r)=2.77	Mu=-2.36 As =3.28 As(r)=2.77		Mu=-0.38 As =3.28 As(r)=2.77
Mu=0.00 As =0.00 As(r)=2.77	Mu=0.00 As =3.28 As(r)=2.77	Mu=0.47 As =3.28 As(r)=2.77	Mu=0.47 As =3.28 As(r)=2.77	Mu=0.00 As =3.28 As(r)=2.77	Mu=0.00 As =3.28 As(r)=2.77
Vu=0.00		Vu=-2.63	Vu=2.70		Vu=1.22

VT300/NE+8.75

B=0.60 H=0.80 L=6.85			B=0.60 H=0.80 L=13.30			B=0.60 H=0.80 L=7.00		
Mu=-0.00		Mu=-67.60	Mu=-45.55		Mu=-23.23	Mu=-13.53		Mu=-16.05
As=1504.80		As=2417.74	As=1614.38		As=1504.80	As=1504.80		As=1504.80
Mu=2.58	Mu=0.00	Mu=13.52	Mu=22.77	Mu=14.85	Mu=15.01	Mu=6.76	Mu=4.01	Mu=8.02
As=1504.80	As=1504.80	As=1504.80	As=1504.80	As=1504.80	As=1504.80	As=1504.80	As=1504.80	As=1504.80
Vu=2.71		Vu=17.70	Vu=-15.33		Vu=12.15	Vu=-7.98		Vu=8.82

B=0.60 H=0.80 L=7.18			B=0.60 H=0.80 L=0.89		
Mu=-17.64		Mu=-4.41	Mu=-3.00		Mu=-11.99
As=1504.80		As=1504.80	As=1504.80		As=1504.80
Mu=8.82	Mu=8.82	Mu=5.54	Mu=4.22	Mu=3.00	Mu=3.00
As=1504.80	As=1504.80	As=1504.80	As=1504.80	As=1504.80	As=1504.80
Vu=-10.40		Vu=4.01	Vu=6.04		Vu=8.65

VT301/NE+8.75

B=0.60 H=0.80 L=8.33			B=0.60 H=0.80 L=13.30			B=0.60 H=0.80 L=13.30		
Mu=-12.23		Mu=-3.62	Mu=-10.93		Mu=-14.77	Mu=-14.65		Mu=-15.04
As=1504.80		As=1504.80	As=1504.80		As=1504.80	As=1504.80		As=1504.80
Mu=6.11	Mu=3.06	Mu=3.06	Mu=5.47	Mu=8.56	Mu=7.39	Mu=7.32	Mu=7.94	Mu=7.52
As=1504.80	As=1504.80	As=1504.80	As=1504.80	As=1504.80	As=1504.80	As=1504.80	As=1504.80	As=1504.80
Vu=-5.25		Vu=2.84	Vu=-5.69		Vu=6.68	Vu=-6.49		Vu=6.60

B=0.60 H=0.80 L=13.25			B=0.60 H=0.80 L=3.30			B=0.60 H=0.80 L=5.95		
Mu=-15.72		Mu=-13.84	Mu=-8.21		Mu=-7.28	Mu=-18.93		Mu=-0.25
As=1504.80		As=1504.80	As=1504.80		As=1504.80	As=1504.80		As=1504.80
Mu=7.86	Mu=8.66	Mu=6.92	Mu=4.11	Mu=2.05	Mu=3.64	Mu=3.79	Mu=0.00	Mu=0.00
As=1504.80	As=1504.80	As=1504.80	As=1504.80	As=1504.80	As=1504.80	As=1504.80	As=1504.80	As=1504.80
Vu=-6.88		Vu=6.70	Vu=-2.71		Vu=2.48	Vu=-5.72		Vu=-0.59

VT314/NE+8.75

B=0.15 H=0.80 L=13.17			B=0.15 H=0.80 L=7.00			B=0.15 H=0.80 L=4.14		
Mu=-32.70		Mu=-32.75	Mu=-26.47		Mu=-6.62	Mu=-1.63		Mu=-6.52
As=1202.18		As=1204.13	As=962.36		As=376.20	As=376.20		As=376.20
Mu=16.35	Mu=21.67	Mu=16.38	Mu=13.23	Mu=8.44	Mu=6.62	Mu=3.54	Mu=4.22	Mu=3.26
As=584.23	As=781.32	As=585.15	As=470.49	As=396.85	As=376.20	As=376.20	As=376.20	As=376.20
Vu=-15.98		Vu=13.96	Vu=-11.67		Vu=4.55	Vu=-1.30		Vu=9.69

VT315/NE+8.75

B=0.15 H=0.80 L=13.30			B=0.15 H=0.80 L=14.95		
Mu=-50.92		Mu=-37.07	Mu=-34.00		Mu=-21.99
As=1938.73		As=1373.86	As=1252.95		As=793.29
Mu=25.46	Mu=19.22	Mu=18.53	Mu=17.00	Mu=15.64	Mu=10.99
As=924.01	As=723.44	As=664.73	As=608.11	As=558.20	As=389.43
Vu=-31.44		Vu=13.96	Vu=-13.15		Vu=7.57

VT318/NE+8.75

B=0.15 H=0.80 L=9.14			B=0.15 H=0.80 L=11.00			B=0.15 H=0.80 L=11.50		
Mu=-0.77		Mu=-3.08	Mu=-3.40		Mu=-6.19	Mu=-5.36		Mu=-2.54
As=376.20		As=376.20	As=376.20		As=376.20	As=376.20		As=376.20
Mu=2.36	Mu=0.77	Mu=1.54	Mu=2.43	Mu=2.43	Mu=3.10	Mu=2.68	Mu=1.34	Mu=1.34
As=376.20	As=376.20	As=376.20	As=376.20	As=376.20	As=395.13	As=376.20	As=376.20	As=376.20
Vu=1.76		Vu=2.98	Vu=-3.11		Vu=9.36	Vu=-6.34		Vu=2.73

B=0.15 H=0.80 L=9.14		
Mu=-2.80		Mu=-0.81
As=376.20		As=376.20
Mu=1.40	Mu=0.81	Mu=3.26
As=376.20	As=376.20	As=376.20
Vu=-2.82		Vu=-1.69

VT319/NE+8.75

B=0.60 H=0.80 L=1.25			B=0.60 H=0.80 L=6.00			B=0.60 H=0.80 L=11.20		
Mu=-0.12		Mu=-1.42	Mu=-3.08		Mu=-11.25	Mu=-12.88		Mu=-13.88
As=1504.80		As=1504.80	As=1504.80		As=1504.80	As=1504.80		As=1504.80
Mu=0.00	Mu=0.00	Mu=0.28	Mu=2.81	Mu=2.81	Mu=5.63	Mu=6.44	Mu=6.13	Mu=6.94
As=1504.80	As=1504.80	As=1504.80	As=1504.80	As=1504.80	As=1504.80	As=1504.80	As=1504.80	As=1504.80
Vu=-0.34		Vu=1.93	Vu=-3.89		Vu=6.54	Vu=-7.48		Vu=7.70

B=0.60 H=0.80 L=11.20			B=0.60 H=0.80 L=11.20			B=0.60 H=0.80 L=11.20		
Mu=-13.94		Mu=-13.59	Mu=-13.69		Mu=-13.94	Mu=-13.88		Mu=-13.34
As=1504.80		As=1504.80	As=1504.80		As=1504.80	As=1504.80		As=1504.80
Mu=6.97	Mu=5.91	Mu=6.80	Mu=6.84	Mu=5.86	Mu=6.97	Mu=6.94	Mu=6.19	Mu=6.67
As=1504.80	As=1504.80	As=1504.80	As=1504.80	As=1504.80	As=1504.80	As=1504.80	As=1504.80	As=1504.80
Vu=-7.68		Vu=7.59	Vu=-7.59		Vu=7.68	Vu=-7.69		Vu=7.63

B=0.60 H=0.80 L=9.80			B=0.60 H=0.80 L=0.80		
Mu=-13.76		Mu=-3.44	Mu=-2.96		Mu=-11.85
As=1504.80		As=1504.80	As=1504.80		As=1504.80
Mu=6.88	Mu=6.88	Mu=3.44	Mu=2.96	Mu=2.96	Mu=2.96
As=1504.80	As=1504.80	As=1504.80	As=1504.80	As=1504.80	As=1504.80
Vu=-8.03		Vu=4.03	Vu=5.46		Vu=8.16

VT320/NE+8.75

B=0.20 H=0.80 L=3.02			B=0.20 H=0.80 L=4.97			B=0.20 H=0.80 L=1.34		
Mu=-0.00		Mu=-6.13	Mu=-9.77		Mu=-39.10	Mu=-21.09		Mu=-77.88
As=501.60		As=501.60	As=501.60		As=1428.76	As=953.73		As=3011.85
Mu=3.63	Mu=1.02	Mu=1.23	Mu=23.13	Mu=9.77	Mu=19.55	Mu=19.47	Mu=19.47	Mu=38.94
As=501.60	As=501.60	As=501.60	As=827.87	As=504.04	As=696.62	As=693.70	As=693.70	As=1422.60
Vu=0.42		Vu=5.91	Vu=-1.36		Vu=20.44	Vu=42.64		Vu=46.89

VT321/NE+8.75

B=0.60 H=0.80 L=6.18			B=0.60 H=0.80 L=2.08		
Mu=-29.76		Mu=-8.06	Mu=-9.08		Mu=-0.20
As=1504.80		As=1504.80	As=1504.80		As=1504.80
Mu=14.88	Mu=7.44	Mu=7.44	Mu=1.82	Mu=0.00	Mu=0.00
As=1504.80	As=1504.80	As=1504.80	As=1504.80	As=1504.80	As=1504.80
Vu=-12.14		Vu=6.26	Vu=-6.75		Vu=-0.25

VT322/NE+8.75

B=0.15 H=0.50 L=3.56			B=0.15 H=0.50 L=3.00		
Mu=-6.94		Mu=-13.36	Mu=-7.32		Mu=-5.03
As=411.50		As=817.14	As=434.79		As=295.67
Mu=4.38	Mu=4.38	Mu=6.68	Mu=3.66	Mu=1.83	Mu=2.52
As=256.71	As=256.71	As=395.61	As=285.04	As=227.70	As=227.70
Vu=-8.35		Vu=10.43	Vu=-4.91		Vu=3.19

VT323/NE+8.75

B=0.15 H=0.50 L=4.08		
Mu=-11.32		Mu=-8.71
As=685.35		As=520.74
Mu=5.66	Mu=3.47	Mu=4.36
As=333.65	As=270.01	As=255.22
Vu=-8.63		Vu=7.84

VT324/NE+8.75

B=0.20 H=0.70 L=2.55			B=0.20 H=0.70 L=4.90			B=0.20 H=0.70 L=3.60		
Mu=-0.18		Mu=-6.15	Mu=-9.32		Mu=-10.20	Mu=-7.02		Mu=-6.55
As=435.60		As=435.60	As=505.29		As=553.79	As=435.60		As=435.60
Mu=0.00	Mu=0.94	Mu=1.23	Mu=4.66	Mu=4.66	Mu=5.10	Mu=3.51	Mu=1.75	Mu=3.28
As=435.60	As=435.60	As=435.60	As=435.60	As=435.60	As=435.60	As=435.60	As=435.60	As=435.60
Vu=-2.65		Vu=6.57	Vu=-9.21		Vu=9.50	Vu=-6.21		Vu=5.97

VT325/NE+8.75

B=0.15 H=0.50 L=2.55			B=0.15 H=0.50 L=4.90			B=0.15 H=0.50 L=2.63		
Mu=-0.22		Mu=-6.43	Mu=-14.64		Mu=-11.50	Mu=-3.27		Mu=-4.37
As=227.70		As=380.37	As=901.32		As=696.86	As=254.23		As=256.12
Mu=0.00	Mu=0.84	Mu=1.29	Mu=7.32	Mu=6.69	Mu=6.69	Mu=1.63	Mu=1.09	Mu=2.18
As=227.70	As=227.70	As=227.70	As=434.79	As=396.22	As=396.22	As=227.70	As=227.70	As=227.70
Vu=-2.58		Vu=6.66	Vu=-13.45		Vu=12.42	Vu=-3.51		Vu=4.35

VT326/NE+8.75

B=0.15 H=0.50 L=5.70			B=0.15 H=0.50 L=1.71		
Mu=-10.12		Mu=-9.32	Mu=-3.94		Mu=-0.00
As=609.12		As=558.82	As=230.47		As=227.70
Mu=5.06	Mu=4.04	Mu=4.66	Mu=0.79	Mu=0.08	Mu=0.72
As=297.47	As=236.43	As=273.47	As=227.70	As=227.70	As=227.70
Vu=-8.44		Vu=8.20	Vu=-4.85		Vu=1.23

VT327/NE+8.75

B=0.15 H=0.50 L=5.39			B=0.15 H=0.50 L=5.70			B=0.15 H=0.50 L=1.95		
Mu=-7.97		Mu=-10.39	Mu=-10.12		Mu=-9.32	Mu=-3.94		Mu=-0.00
As=474.84		As=626.19	As=609.12		As=558.82	As=230.47		As=227.70
Mu=5.04	Mu=5.04	Mu=5.20	Mu=5.06	Mu=4.04	Mu=4.66	Mu=0.79	Mu=0.08	Mu=0.72
As=296.27	As=296.27	As=305.59	As=297.47	As=236.43	As=273.47	As=227.70	As=227.70	As=227.70
Vu=-8.90		Vu=9.69	Vu=-8.44		Vu=8.20	Vu=-4.85		Vu=1.23

VT328/NE+8.75

B=0.15 H=0.50 L=2.52			B=0.15 H=0.50 L=5.70			B=0.15 H=0.50 L=1.95		
Mu=-0.47		Mu=-4.78	Mu=-10.12		Mu=-9.42	Mu=-3.66		Mu=-0.00
As=227.70		As=280.66	As=609.12		As=565.09	As=285.04		As=227.70
Mu=0.92	Mu=0.60	Mu=0.96	Mu=5.06	Mu=4.27	Mu=4.71	Mu=0.73	Mu=0.14	Mu=0.63
As=227.70	As=227.70	As=227.70	As=297.47	As=250.14	As=276.46	As=227.70	As=227.70	As=227.70
Vu=-2.94		Vu=5.90	Vu=-8.51		Vu=8.30	Vu=-4.66		Vu=1.46

VT329/NE+8.75

B=0.15 H=0.50 L=2.60			B=0.15 H=0.50 L=4.85			B=0.15 H=0.50 L=8.59		
Mu=-0.47		Mu=-5.80	Mu=-8.82		Mu=-7.96	Mu=-8.79		Mu=-8.41
As=227.70		As=342.12	As=527.59		As=474.22	As=525.72		As=502.09
Mu=0.00	Mu=0.88	Mu=1.16	Mu=4.41	Mu=3.63	Mu=3.98	Mu=4.39	Mu=2.20	Mu=4.20
As=227.70	As=227.70	As=227.70	As=258.51	As=282.66	As=232.86	As=257.61	As=227.70	As=246.26
Vu=-2.89		Vu=6.38	Vu=-8.69		Vu=8.39	Vu=-8.57		Vu=8.30

VT330/NE+8.75

B=0.15 H=0.50 L=2.60			B=0.15 H=0.50 L=4.85			B=0.15 H=0.50 L=6.90		
Mu=-0.00		Mu=-6.58	Mu=-7.74		Mu=-9.31	Mu=-13.16		Mu=-3.29
As=227.70		As=389.51	As=460.64		As=558.19	As=804.09		As=255.81
Mu=1.05	Mu=0.30	Mu=1.32	Mu=3.87	Mu=3.50	Mu=4.66	Mu=6.58	Mu=4.64	Mu=3.29
As=227.70	As=227.70	As=227.70	As=301.67	As=272.38	As=273.17	As=389.51	As=274.06	As=255.81
Vu=-2.44		Vu=6.83	Vu=-8.26		Vu=8.82	Vu=-10.44		Vu=6.49

VT331/NE+8.75

B=0.15 H=0.50 L=2.60			B=0.15 H=0.50 L=4.85			B=0.15 H=0.50 L=5.00		
Mu=-0.00		Mu=-7.19	Mu=-6.49		Mu=-10.76	Mu=-14.50		Mu=-0.00
As=227.70		As=426.82	As=384.02		As=649.66	As=892.06		As=227.70
Mu=1.15	Mu=0.16	Mu=1.44	Mu=3.35	Mu=3.35	Mu=5.38	Mu=2.90	Mu=2.90	Mu=2.05
As=227.70	As=227.70	As=227.70	As=260.54	As=260.54	As=316.74	As=227.70	As=247.13	As=255.02
Vu=-2.14		Vu=7.13	Vu=-7.77		Vu=9.28	Vu=-10.59		Vu=3.44

VT332/NE+8.75

B=0.25 H=0.80 L=6.76		
Mu=-0.00		Mu=-37.94
As=627.00		As=1370.51
Mu=13.87	Mu=7.59	Mu=7.59
As=669.29	As=627.00	As=627.00
Vu=-1.39		Vu=14.82

VT333/NE+8.75

B=0.15 H=0.50 L=5.70			B=0.15 H=0.50 L=1.95		
Mu=-10.86		Mu=-9.15	Mu=-4.37		Mu=-0.00
As=656.02		As=548.18	As=256.12		As=227.70
Mu=5.43	Mu=4.32	Mu=4.57	Mu=0.87	Mu=0.00	Mu=0.56
As=319.76	As=253.13	As=268.38	As=227.70	As=227.70	As=227.70
Vu=-8.74		Vu=8.23	Vu=-4.98		Vu=1.18

VT334/NE+8.75

B=0.15 H=0.50 L=0.65			B=0.15 H=0.50 L=5.70			B=0.15 H=0.50 L=1.95		
Mu=-0.00		Mu=-3.62	Mu=-10.39		Mu=-9.18	Mu=-6.06		Mu=-0.00
As=227.70		As=281.87	As=626.19		As=550.06	As=357.87		As=227.70
Mu=0.50	Mu=0.00	Mu=0.72	Mu=5.20	Mu=4.54	Mu=4.59	Mu=1.21	Mu=0.00	Mu=0.90
As=227.70	As=227.70	As=227.70	As=305.59	As=266.28	As=269.27	As=227.70	As=227.70	As=227.70
Vu=4.55		Vu=6.43	Vu=-8.67		Vu=8.31	Vu=-5.91		Vu=0.25

VT335/NE+8.75

B=0.15 H=0.50 L=2.60			B=0.15 H=0.50 L=4.98			B=0.15 H=0.50 L=4.07		
Mu=-0.00		Mu=-7.29	Mu=-6.00		Mu=-11.32	Mu=-15.22		Mu=-0.00
As=227.70		As=432.95	As=354.23		As=685.35	As=939.86		As=227.70
Mu=1.19	Mu=0.15	Mu=1.46	Mu=3.28	Mu=3.28	Mu=5.66	Mu=3.04	Mu=3.04	Mu=3.02
As=227.70	As=227.70	As=227.70	As=255.02	As=255.02	As=333.65	As=236.42	As=273.17	As=239.65
Vu=-2.08		Vu=7.19	Vu=-7.56		Vu=9.46	Vu=-10.97		Vu=3.10

VT336/NE+8.75

B=0.15 H=0.50 L=2.60			B=0.15 H=0.50 L=5.08			B=0.15 H=0.50 L=3.97		
Mu=-0.00		Mu=-6.78	Mu=-6.82		Mu=-10.96	Mu=-12.22		Mu=-0.00
As=227.70		As=401.72	As=404.16		As=662.38	As=743.14		As=227.70
Mu=1.16	Mu=0.32	Mu=1.36	Mu=3.56	Mu=3.56	Mu=5.48	Mu=2.44	Mu=2.44	Mu=0.14
As=227.70	As=227.70	As=227.70	As=277.13	As=277.13	As=322.77	As=227.70	As=227.70	As=227.70
Vu=-2.30		Vu=6.96	Vu=-7.97		Vu=9.42	Vu=-9.56		Vu=4.15

VT337/NE+8.75

B=0.15 H=0.50 L=2.60			B=0.15 H=0.50 L=5.19			B=0.15 H=0.50 L=3.86		
Mu=-0.19		Mu=-5.54	Mu=-8.38		Mu=-10.11	Mu=-8.61		Mu=-2.15
As=227.70		As=326.40	As=500.23		As=608.49	As=514.51		As=227.70
Mu=0.00	Mu=1.11	Mu=1.11	Mu=4.19	Mu=4.03	Mu=5.05	Mu=4.30	Mu=2.37	Mu=2.15
As=227.70	As=227.70	As=227.70	As=245.37	As=235.83	As=297.17	As=252.23	As=227.70	As=227.70
Vu=-2.88		Vu=6.38	Vu=-8.68		Vu=9.27	Vu=-8.18		Vu=4.96

VT338/NE+8.75

B=0.15 H=0.50 L=2.60			B=0.15 H=0.50 L=5.30			B=0.15 H=0.50 L=3.75		
Mu=-0.28		Mu=-5.00	Mu=-9.10		Mu=-9.39	Mu=-6.19		Mu=-2.01
As=227.70		As=293.86	As=545.06		As=563.21	As=365.77		As=227.70
Mu=0.00	Mu=1.00	Mu=1.00	Mu=4.55	Mu=4.53	Mu=4.70	Mu=3.10	Mu=2.59	Mu=1.55
As=227.70	As=227.70	As=227.70	As=266.88	As=265.68	As=275.56	As=240.44	As=227.70	As=227.70
Vu=-3.09		Vu=6.18	Vu=-9.09		Vu=9.19	Vu=-7.32		Vu=5.30

VT340/NE+8.75

B=0.15 H=0.50 L=2.60			B=0.15 H=0.50 L=5.88			B=0.15 H=0.50 L=3.15		
Mu=-0.29		Mu=-5.80	Mu=-9.98		Mu=-9.36	Mu=-5.26		Mu=-1.38
As=227.70		As=342.12	As=600.29		As=561.33	As=309.51		As=227.70
Mu=0.00	Mu=1.06	Mu=1.16	Mu=4.99	Mu=5.06	Mu=4.68	Mu=2.63	Mu=1.95	Mu=1.32
As=227.70	As=227.70	As=227.70	As=293.26	As=297.47	As=274.66	As=227.70	As=227.70	As=227.70
Vu=-2.89		Vu=6.47	Vu=-9.56		Vu=9.36	Vu=-6.63		Vu=4.52

VT341/NE+8.75

B=0.15 H=0.50 L=2.60			B=0.15 H=0.50 L=6.41			B=0.15 H=0.50 L=2.62		
Mu=-0.00		Mu=-7.08	Mu=-10.72		Mu=-11.22	Mu=-2.72		Mu=-3.41
As=227.70		As=420.07	As=647.12		As=678.96	As=227.70		As=265.28
Mu=1.08	Mu=0.23	Mu=1.42	Mu=5.36	Mu=5.85	Mu=5.61	Mu=1.36	Mu=0.85	Mu=0.85
As=227.70	As=227.70	As=227.70	As=315.53	As=345.14	As=330.62	As=227.70	As=227.70	As=227.70
Vu=-2.39		Vu=7.06	Vu=-10.03		Vu=10.18	Vu=-4.56		Vu=5.00

VT342/NE+8.75

B=0.15 H=0.50 L=2.60			B=0.15 H=0.50 L=6.95			B=0.15 H=0.50 L=1.34		
Mu=-0.00		Mu=-7.50	Mu=-12.04		Mu=-12.91	Mu=-1.23		Mu=-4.92
As=227.70		As=445.86	As=731.54		As=787.82	As=227.70		As=289.06
Mu=1.09	Mu=0.14	Mu=1.50	Mu=6.02	Mu=6.59	Mu=6.45	Mu=1.23	Mu=1.23	Mu=2.46
As=227.70	As=227.70	As=227.70	As=355.45	As=390.12	As=381.89	As=227.70	As=227.70	As=227.70
Vu=-2.30		Vu=7.24	Vu=-10.63		Vu=10.88	Vu=-0.58		Vu=5.81

VT343/NE+8.75

B=0.15 H=0.50 L=2.60			B=0.15 H=0.50 L=7.49		
Mu=-0.02		Mu=-6.92	Mu=-13.88		Mu=-14.45
As=227.70		As=410.28	As=851.20		As=888.75
Mu=1.10	Mu=0.35	Mu=1.38	Mu=6.94	Mu=7.27	Mu=7.22
As=227.70	As=227.70	As=227.70	As=411.50	As=431.72	As=428.96
Vu=-2.65		Vu=6.99	Vu=-11.33		Vu=11.48

VT344/NE+8.75

B=0.15 H=0.50 L=0.75			B=0.15 H=0.50 L=1.69		
Mu=-0.00		Mu=-4.43	Mu=-1.69		Mu=-1.51
As=227.70		As=259.70	As=227.70		As=227.70
Mu=0.76	Mu=0.00	Mu=0.89	Mu=0.85	Mu=0.42	Mu=0.75
As=227.70	As=227.70	As=227.70	As=227.70	As=227.70	As=227.70
Vu=0.59		Vu=5.61	Vu=-2.98		Vu=2.79

VT345/NE+8.75

B=0.15 H=0.50 L=0.75			B=0.15 H=0.50 L=3.36		
Mu=-0.00		Mu=-2.18	Mu=-4.08		Mu=-4.40
As=227.70		As=227.70	As=238.81		As=257.91
Mu=0.48	Mu=0.00	Mu=0.44	Mu=2.04	Mu=1.84	Mu=2.20
As=227.70	As=227.70	As=227.70	As=227.70	As=227.70	As=227.70
Vu=1.17		Vu=2.87	Vu=-5.99		Vu=6.16

VT346/NE+8.75

B=0.15 H=0.50 L=0.75			B=0.15 H=0.50 L=5.40			B=0.15 H=0.50 L=1.95		
Mu=-0.00		Mu=-2.84	Mu=-7.01		Mu=-12.81	Mu=-7.52		Mu=-2.53
As=227.70		As=227.70	As=415.78		As=781.32	As=447.09		As=227.70
Mu=0.57	Mu=0.00	Mu=0.57	Mu=4.21	Mu=4.21	Mu=6.41	Mu=3.76	Mu=1.88	Mu=1.88
As=227.70	As=227.70	As=227.70	As=246.56	As=246.56	As=378.85	As=292.95	As=227.70	As=227.70
Vu=0.92		Vu=4.63	Vu=-8.30		Vu=10.21	Vu=-7.54		Vu=5.15

VT349/NE+8.75

B=0.15 H=0.50 L=0.75			B=0.15 H=0.50 L=5.40			B=0.15 H=0.50 L=3.70		
Mu=-0.00		Mu=-2.06	Mu=-5.12		Mu=-14.21	Mu=-14.12		Mu=-0.00
As=227.70		As=227.70	As=301.08		As=872.91	As=866.98		As=227.70
Mu=0.38	Mu=0.00	Mu=0.41	Mu=3.55	Mu=4.73	Mu=7.11	Mu=2.82	Mu=0.00	Mu=2.04
As=227.70	As=227.70	As=227.70	As=276.53	As=277.42	As=421.60	As=227.70	As=227.70	As=227.70
Vu=0.66		Vu=3.77	Vu=-7.77		Vu=10.75	Vu=-9.92		Vu=2.74

VT350/NE+8.75

B=0.15 H=0.50 L=3.07			B=0.15 H=0.50 L=5.70			B=0.15 H=0.50 L=1.95		
Mu=-3.94		Mu=-12.60	Mu=-10.55		Mu=-9.27	Mu=-4.35		Mu=-0.00
As=230.62		As=767.70	As=636.33		As=555.69	As=254.92		As=227.70
Mu=4.96	Mu=3.94	Mu=6.30	Mu=5.28	Mu=4.41	Mu=4.64	Mu=0.87	Mu=0.00	Mu=0.55
As=291.46	As=230.62	As=372.46	As=310.41	As=258.51	As=271.97	As=227.70	As=227.70	As=227.70
Vu=-5.62		Vu=4.64	Vu=-8.68		Vu=8.30	Vu=-4.97		Vu=1.19

VT351/NE+8.75

B=0.15 H=0.50 L=0.75			B=0.15 H=0.50 L=5.20			B=0.15 H=0.50 L=3.09		
Mu=-0.00		Mu=-2.38	Mu=-7.60		Mu=-10.47	Mu=-4.89		Mu=-4.47
As=227.70		As=227.70	As=452.01		As=631.26	As=287.26		As=262.09
Mu=0.34	Mu=0.00	Mu=0.48	Mu=4.52	Mu=4.52	Mu=5.24	Mu=2.44	Mu=2.18	Mu=2.23
As=227.70	As=227.70	As=227.70	As=282.50	As=282.50	As=308.00	As=227.70	As=227.70	As=227.70
Vu=0.43		Vu=4.07	Vu=-8.59		Vu=9.55	Vu=-6.55		Vu=6.35

VT352/NE+8.75

B=0.15 H=0.50 L=0.75			B=0.15 H=0.50 L=5.04			B=0.15 H=0.50 L=6.16		
Mu=-0.00		Mu=-2.23	Mu=-5.46		Mu=-11.83	Mu=-13.91		Mu=-13.74
As=227.70		As=227.70	As=321.57		As=718.03	As=853.17		As=842.01
Mu=0.38	Mu=0.00	Mu=0.45	Mu=2.96	Mu=4.42	Mu=5.91	Mu=6.95	Mu=7.08	Mu=6.87
As=227.70	As=227.70	As=227.70	As=229.62	As=269.86	As=349.08	As=412.42	As=420.07	As=407.22
Vu=0.65		Vu=3.94	Vu=-7.79		Vu=9.97	Vu=-11.29		Vu=11.24

VT353/NE+8.75

B=0.15 H=0.50 L=0.75			B=0.15 H=0.50 L=4.90			B=0.15 H=0.50 L=5.42		
Mu=-0.00		Mu=-1.97	Mu=-4.01		Mu=-12.57	Mu=-5.35		Mu=-3.90
As=227.70		As=227.70	As=234.64		As=765.76	As=314.93		As=228.09
Mu=0.40	Mu=0.00	Mu=0.39	Mu=3.14	Mu=4.48	Mu=6.28	Mu=2.67	Mu=2.34	Mu=2.34
As=227.70	As=227.70	As=227.70	As=244.18	As=297.07	As=371.54	As=227.70	As=227.70	As=227.70
Vu=0.61		Vu=3.71	Vu=-7.20		Vu=10.19	Vu=-6.84		Vu=6.16

B=0.15 H=0.50 L=0.78		
Mu=-0.74		Mu=-2.96
As=227.70		As=229.81
Mu=0.74	Mu=1.09	Mu=1.48
As=227.70	As=227.70	As=227.70
Vu=-3.25		Vu=4.97

VT354/NE+8.75

B=0.15 H=0.50 L=5.23			B=0.15 H=0.50 L=2.07		
Mu=-8.53		Mu=-8.35	Mu=-4.57		Mu=-0.00
As=509.54		As=498.37	As=268.08		As=227.70
Mu=4.26	Mu=3.82	Mu=4.18	Mu=0.91	Mu=0.00	Mu=0.67
As=249.85	As=297.71	As=244.48	As=227.70	As=227.70	As=227.70
Vu=-7.88		Vu=7.82	Vu=-5.14		Vu=1.30

VT355/NE+8.75

B=0.15 H=0.50 L=0.75			B=0.15 H=0.50 L=4.90		
Mu=-0.00		Mu=-1.96	Mu=-3.72		Mu=-12.44
As=227.70		As=227.70	As=289.79		As=757.35
Mu=0.40	Mu=0.00	Mu=0.39	Mu=3.11	Mu=4.37	Mu=6.22
As=227.70	As=227.70	As=227.70	As=241.62	As=292.95	As=367.59
Vu=0.61		Vu=3.70	Vu=-7.03		Vu=10.12

VT356/NE+8.75

B=0.15 H=0.50 L=4.33		
Mu=-0.08		Mu=-7.65
As=227.70		As=455.09
Mu=0.00	Mu=3.06	Mu=1.53
As=227.70	As=272.54	As=227.70
Vu=-4.71		Vu=8.25

VT357/NE+8.75

B=0.15 H=0.50 L=0.75			B=0.15 H=0.50 L=4.90			B=0.15 H=0.50 L=5.68		
Mu=-0.00		Mu=-2.18	Mu=-4.80		Mu=-11.29	Mu=-9.05		Mu=-8.89
As=227.70		As=227.70	As=281.86		As=683.43	As=541.93		As=531.95
Mu=0.37	Mu=0.00	Mu=0.44	Mu=2.82	Mu=4.18	Mu=5.64	Mu=4.53	Mu=4.57	Mu=4.45
As=227.70	As=227.70	As=227.70	As=227.70	As=260.54	As=332.74	As=265.38	As=268.08	As=260.60
Vu=0.62		Vu=3.89	Vu=-7.43		Vu=9.72	Vu=-9.09		Vu=9.04

VT358/NE+8.75

B=0.15 H=0.50 L=4.83			B=0.15 H=0.50 L=2.18		
Mu=-7.55		Mu=-6.85	Mu=-6.08		Mu=-0.00
As=448.93		As=405.99	As=359.09		As=227.70
Mu=3.78	Mu=3.17	Mu=3.42	Mu=1.22	Mu=0.00	Mu=0.91
As=294.14	As=246.35	As=266.46	As=227.70	As=227.70	As=227.70
Vu=-7.34		Vu=7.10	Vu=-5.94		Vu=0.78

VT359/NE+8.75

B=0.15 H=0.50 L=4.42			B=0.15 H=0.50 L=2.30		
Mu=-6.62		Mu=-5.58	Mu=-5.96		Mu=-0.00
As=391.95		As=328.81	As=351.81		As=227.70
Mu=3.31	Mu=2.54	Mu=2.79	Mu=1.19	Mu=0.00	Mu=0.87
As=257.38	As=227.70	As=227.70	As=227.70	As=227.70	As=227.70
Vu=-6.79		Vu=6.39	Vu=-5.87		Vu=1.12

VT360/NE+8.75

B=0.15 H=0.50 L=0.75			B=0.15 H=0.50 L=4.90			B=0.15 H=0.50 L=5.02		
Mu=-0.00		Mu=-2.26	Mu=-6.47		Mu=-9.62	Mu=-7.37		Mu=-7.42
As=227.70		As=227.70	As=382.80		As=577.64	As=437.87		As=440.94
Mu=0.27	Mu=0.00	Mu=0.45	Mu=4.06	Mu=4.06	Mu=4.81	Mu=3.68	Mu=3.80	Mu=3.71
As=227.70	As=227.70	As=227.70	As=249.81	As=249.81	As=282.46	As=287.02	As=296.12	As=288.99
Vu=0.35		Vu=3.92	Vu=-8.02		Vu=9.13	Vu=-8.23		Vu=8.25

VT361/NE+8.75

B=0.15 H=0.50 L=4.02			B=0.15 H=0.50 L=2.41		
Mu=-5.47		Mu=-4.64	Mu=-4.48		Mu=-0.06
As=322.17		As=272.27	As=262.69		As=227.70
Mu=2.73	Mu=2.02	Mu=2.32	Mu=0.90	Mu=0.35	Mu=0.80
As=227.70	As=227.70	As=227.70	As=227.70	As=227.70	As=227.70
Vu=-6.14		Vu=5.79	Vu=-5.16		Vu=2.11

VT362/NE+8.75

B=0.15 H=0.50 L=3.90		
Mu=-4.22		Mu=-3.80
As=247.16		As=296.12
Mu=2.11	Mu=2.04	Mu=2.04
As=227.70	As=227.70	As=227.70
Vu=-6.17		Vu=5.96

VT363/NE+8.75

B=0.15 H=0.50 L=3.12			B=0.15 H=0.50 L=1.64		
Mu=-5.47		Mu=-4.64	Mu=-4.48		Mu=-0.06
As=322.17		As=272.27	As=262.69		As=227.70
Mu=2.73	Mu=2.02	Mu=2.32	Mu=0.90	Mu=0.35	Mu=0.80
As=227.70	As=227.70	As=227.70	As=227.70	As=227.70	As=227.70
Vu=-6.14		Vu=5.79	Vu=-5.16		Vu=2.11

VT365/NE+8.75

B=0.20 H=0.70 L=0.75			B=0.20 H=0.70 L=4.90			B=0.20 H=0.70 L=1.78		
Mu=-0.00		Mu=-2.92	Mu=-8.92		Mu=-9.08	Mu=-3.77		Mu=-1.68
As=435.60		As=435.60	As=483.30		As=492.09	As=435.60		As=435.60
Mu=0.45	Mu=0.00	Mu=0.58	Mu=4.46	Mu=5.26	Mu=4.54	Mu=1.88	Mu=0.94	Mu=0.94
As=435.60	As=435.60	As=435.60	As=435.60	As=435.60	As=435.60	As=435.60	As=435.60	As=435.60
Vu=0.91		Vu=4.60	Vu=-9.28		Vu=9.33	Vu=-5.34		Vu=3.99

VT366/NE+8.75

B=0.20 H=0.50 L=0.75			B=0.20 H=0.50 L=3.10		
Mu=-0.00		Mu=-2.54	Mu=-7.96		Mu=-9.44
As=303.60		As=303.60	As=469.89		As=560.10
Mu=0.28	Mu=0.00	Mu=0.51	Mu=3.98	Mu=5.64	Mu=4.72
As=303.60	As=303.60	As=303.60	As=309.04	As=377.52	As=367.39
Vu=0.71		Vu=4.12	Vu=-9.09		Vu=9.57

VT367/NE+8.75

B=0.20 H=0.80 L=1.21			B=0.20 H=0.80 L=5.15			B=0.20 H=0.80 L=1.87		
Mu=-0.12		Mu=-2.90	Mu=-4.22		Mu=-16.90	Mu=-12.13		Mu=-7.81
As=501.60		As=501.60	As=501.60		As=600.23	As=570.95		As=501.60
Mu=0.00	Mu=0.00	Mu=0.58	Mu=4.22	Mu=8.45	Mu=8.45	Mu=6.07	Mu=3.03	Mu=3.90
As=501.60	As=501.60	As=501.60	As=501.60	As=501.60	As=501.60	As=501.60	As=501.60	As=501.60
Vu=-0.42		Vu=4.11	Vu=-8.72		Vu=13.21	Vu=-6.64		Vu=3.89

VT368/NE+8.75

B=0.60 H=0.80 L=0.56			B=0.60 H=0.80 L=3.22			B=0.60 H=0.80 L=3.73		
Mu=-2.53		Mu=-10.11	Mu=-2.53		Mu=-10.11	Mu=-6.53		Mu=-7.57
As=1504.80		As=1504.80	As=1504.80		As=1504.80	As=1504.80		As=1504.80
Mu=2.53	Mu=2.53	Mu=5.05	Mu=2.53	Mu=2.53	Mu=5.05	Mu=3.27	Mu=1.89	Mu=3.79
As=1504.80	As=1504.80	As=1504.80	As=1504.80	As=1504.80	As=1504.80	As=1504.80	As=1504.80	As=1504.80
Vu=-3.64		Vu=7.65	Vu=-3.64		Vu=7.65	Vu=-5.18		Vu=5.66

VT369/NE+8.75

B=0.25 H=0.80 L=4.36		
Mu=-0.00		Mu=-25.13
As=627.00		As=896.06
Mu=3.63	Mu=0.00	Mu=5.03
As=627.00	As=627.00	As=627.00
Vu=0.09		Vu=10.84

VT370/NE+8.75

B=0.15 H=0.50 L=2.64		
Mu=-2.60		Mu=-3.37
As=227.70		As=262.12
Mu=1.49	Mu=1.49	Mu=1.68
As=227.70	As=227.70	As=227.70
Vu=-4.54		Vu=4.94

VT372/NE+8.75

B=0.15 H=0.50 L=5.70		
Mu=-10.86		Mu=-9.15
As=656.02		As=548.18
Mu=5.43	Mu=4.32	Mu=4.57
As=319.76	As=253.13	As=268.38
Vu=-8.74		Vu=8.23

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VT302/NE+8.75m

B=0.20 H=0.70 L=2.50		
Mu=-0.00 As=435.60		Mu=-0.00 As=435.60
Mu=0.16 As=435.60	Mu=1.13 As=435.60	Mu=0.16 As=435.60
Vu=1.56		Vu=-1.56

VT303/NE+8.75m

B=0.20 H=0.80 L=4.51		
Mu=-0.00 As=501.60		Mu=-0.00 As=501.60
Mu=0.29 As=501.60	Mu=3.66 As=501.60	Mu=0.68 As=501.60
Vu=2.91		Vu=-2.73

VT306/NE+8.75m

B=0.15 H=0.50 L=6.48		
Mu=-0.00 As=227.70		Mu=-0.00 As=227.70
Mu=0.37 As=250.30	Mu=8.29 As=494.81	Mu=0.37 As=250.30
Vu=4.89		Vu=-4.89

VT308/NE+8.75m

B=0.15 H=0.50 L=1.30			B=0.15 H=0.50 L=1.30		
Mu=-0.00 As=227.70		Mu=-0.22 As=227.70	Mu=-0.22 As=227.70		Mu=-0.00 As=227.70
Mu=0.06 As=227.70	Mu=0.24 As=227.70	Mu=0.04 As=227.70	Mu=0.04 As=227.70	Mu=0.24 As=227.70	Mu=0.06 As=227.70
Vu=0.77		Vu=-1.20	Vu=1.20		Vu=-0.77

VT309/NE+8.75m

B=0.15 H=0.50 L=1.30			B=0.15 H=0.50 L=1.30		
Mu=-0.00 As=227.70		Mu=-0.22 As=227.70	Mu=-0.22 As=227.70		Mu=-0.00 As=227.70
Mu=0.06 As=227.70	Mu=0.24 As=227.70	Mu=0.04 As=227.70	Mu=0.04 As=227.70	Mu=0.24 As=227.70	Mu=0.06 As=227.70
Vu=0.77		Vu=-1.20	Vu=1.20		Vu=-0.77

MEMORIAS VIGUETAS PISO 12 NE+50.75m

VT310/NE+8.75m

B=0.15 H=0.50 L=2.02			B=0.15 H=0.50 L=4.13		
Mu=-0.00		Mu=-2.40	Mu=-2.20		Mu=-0.00
As=227.70		As=227.70	As=227.70		As=227.70
Mu=0.06	Mu=0.00	Mu=0.48	Mu=0.44	Mu=2.21	Mu=0.19
As=227.70	As=227.70	As=227.70	As=227.70	As=227.70	As=227.70
Vu=0.33		Vu=-2.72	Vu=3.70		Vu=-2.54

VT311/NE+8.75m

B=0.20 H=0.80 L=3.12		
Mu=-0.00		Mu=-0.00
As=501.60		As=501.60
Mu=0.55	Mu=1.91	Mu=0.22
As=501.60	As=501.60	As=501.60
Vu=1.84		Vu=-2.06

VT316/NE+8.75m

B=0.15 H=0.50 L=2.28		
Mu=-0.00		Mu=-0.00
As=227.70		As=227.70
Mu=0.18	Mu=0.99	Mu=0.18
As=227.70	As=227.70	As=227.70
Vu=1.42		Vu=-1.42

VT317/NE+8.75m

B=0.15 H=0.50 L=4.08		
Mu=-0.00		Mu=-0.00
As=227.70		As=227.70
Mu=0.32	Mu=2.86	Mu=0.19
As=227.70	As=227.70	As=227.70
Vu=2.52		Vu=-2.58

VT364/NE+8.75m

B=0.20 H=0.80 L=3.12		
Mu=-0.00		Mu=-0.00
As=501.60		As=501.60
Mu=0.20	Mu=1.72	Mu=0.20
As=501.60	As=501.60	As=501.60
Vu=1.95		Vu=-1.95

VT307/NE+8.75m

B=0.15 H=0.50 L=4.04			B=0.15 H=0.50 L=2.47			B=0.15 H=0.50 L=13.27		
Mu=-0.00		Mu=-0.00	Mu=-4.08		Mu=-20.40	Mu=-20.31		Mu=-16.20
As=227.70		As=227.70	As=238.76		As=1295.67	As=1289.74		As=1005.59
Mu=1.42	Mu=5.32	Mu=3.07	Mu=4.08	Mu=4.08	Mu=6.80	Mu=6.77	Mu=14.98	Mu=5.40
As=227.70	As=315.87	As=234.78	As=238.76	As=238.76	As=402.86	As=401.16	As=923.96	As=317.95
Vu=3.46		Vu=-2.64	Vu=-6.26		Vu=-9.99	Vu=10.33		Vu=-9.71

MEMORIAS VIGUETAS PISO 12 NE+50.75m

B=0.15 H=0.50 L=7.00			B=0.15 H=0.50 L=6.83		
Mu=-16.88		Mu=-4.89	Mu=-4.27		Mu=-0.00
As=1051.46		As=287.16	As=249.95		As=227.70
Mu=5.63	Mu=3.38	Mu=3.38	Mu=0.85	Mu=7.62	Mu=1.89
As=331.59	As=262.56	As=262.56	As=227.70	As=469.41	As=260.73
Vu=7.00		Vu=-3.57	Vu=6.06		Vu=-4.25

VT305/NE+8.75m

B=0.15 H=0.50 L=13.30			B=0.15 H=0.50 L=13.55			B=0.15 H=0.50 L=6.06		
Mu=-0.00		Mu=-29.91	Mu=-30.15		Mu=-13.49	Mu=-14.38		Mu=-2.88
As=227.70		As=2130.32	As=2130.32		As=825.91	As=884.31		As=227.70
Mu=1.91	Mu=19.39	Mu=5.98	Mu=10.05	Mu=12.83	Mu=6.03	Mu=4.79	Mu=2.88	Mu=2.88
As=649.01	As=1355.61	As=353.12	As=604.75	As=800.93	As=356.08	As=281.51	As=227.70	As=227.70
Vu=7.65		Vu=-12.43	Vu=11.46		Vu=-9.00	Vu=6.63		Vu=-2.52

B=0.15 H=0.50 L=6.27			B=0.15 H=0.50 L=3.25		
Mu=-1.52		Mu=-4.46	Mu=-4.83		Mu=-0.00
As=227.70		As=261.70	As=283.41		As=227.70
Mu=0.89	Mu=4.43	Mu=1.49	Mu=0.97	Mu=0.00	Mu=0.46
As=227.70	As=298.41	As=227.70	As=227.70	As=227.70	As=227.70
Vu=4.26		Vu=-5.20	Vu=3.99		Vu=-0.91

VT312/NE+8.75m

B=0.15 H=0.50 L=1.48			B=0.15 H=0.50 L=3.61			B=0.15 H=0.50 L=13.21		
Mu=-0.00		Mu=-0.00	Mu=-3.92		Mu=-19.59	Mu=-19.47		Mu=-16.76
As=227.70		As=227.70	As=229.18		As=1238.89	As=1230.44		As=1043.63
Mu=1.82	Mu=4.54	Mu=6.43	Mu=5.58	Mu=3.92	Mu=6.53	Mu=6.49	Mu=14.82	Mu=5.59
As=227.70	As=292.86	As=380.41	As=328.59	As=229.18	As=386.49	As=384.05	As=913.30	As=329.27
Vu=4.23		Vu=2.00	Vu=-4.25		Vu=-9.70	Vu=10.18		Vu=-9.77

B=0.15 H=0.50 L=7.00			B=0.15 H=0.50 L=5.41		
Mu=-17.35		Mu=-3.47	Mu=-1.99		Mu=-0.00
As=1083.49		As=269.98	As=227.70		As=227.70
Mu=5.78	Mu=3.47	Mu=3.47	Mu=0.40	Mu=4.98	Mu=0.89
As=341.07	As=269.98	As=269.98	As=227.70	As=296.36	As=227.70
Vu=7.43		Vu=-3.14	Vu=4.62		Vu=-3.55

VT313/NE+8.75m

B=0.20 H=0.50 L=13.29			B=0.20 H=0.50 L=14.25			B=0.20 H=0.50 L=4.92		
Mu=-0.00		Mu=-30.96	Mu=-31.14		Mu=-16.28	Mu=-17.16		Mu=-3.43
As=303.60		As=1999.84	As=2012.83		As=990.07	As=1047.03		As=303.60
Mu=1.89	Mu=18.80	Mu=6.19	Mu=10.38	Mu=14.62	Mu=6.23	Mu=5.72	Mu=3.43	Mu=3.43
As=631.89	As=1283.91	As=363.37	As=617.85	As=883.49	As=365.48	As=335.14	As=303.60	As=303.60
Vu=7.56		Vu=-12.51	Vu=11.80		Vu=-9.72	Vu=6.88		Vu=-0.55

MEMORIAS VIGUETAS PISO 12 NE+50.75m

B=0.20 H=0.50 L=6.91			B=0.20 H=0.50 L=3.07		
Mu=-1.18		Mu=-5.85	Mu=-6.32		Mu=-0.00
As=303.60		As=343.08	As=371.07		As=303.60
Mu=1.18	Mu=5.74	Mu=1.95	Mu=1.26	Mu=0.00	Mu=0.09
As=303.60	As=345.43	As=303.60	As=303.60	As=303.60	As=303.60
Vu=4.47		Vu=-5.96	Vu=4.40		Vu=-0.23

VT304/NE+8.75m

B=0.20 H=0.80 L=3.12		
Mu=-0.00		Mu=-0.00
As=501.60		As=501.60
Mu=0.19	Mu=1.72	Mu=0.20
As=501.60	As=501.60	As=501.60
Vu=1.95		Vu=-1.95

VT371/NE+8.75m

B=0.20 H=0.80 L=2.15		
Mu=-0.00		Mu=-0.00
As=501.60		As=501.60
Mu=0.13	Mu=0.86	Mu=0.13
As=501.60	As=501.60	As=501.60
Vu=1.34		Vu=-1.34

VT374/NE+8.75m

B=0.20 H=0.80 L=2.52		
Mu=-0.00		Mu=-0.00
As=501.60		As=501.60
Mu=0.16	Mu=1.15	Mu=0.16
As=501.60	As=501.60	As=501.60
Vu=1.58		Vu=-1.57

VT375/NE+8.75m

B=0.20 H=0.80 L=2.25		
Mu=-0.00		Mu=-0.00
As=501.60		As=501.60
Mu=0.14	Mu=0.93	Mu=0.14
As=501.60	As=501.60	As=501.60
Vu=1.41		Vu=-1.41

VT373/NE+8.75m

B=0.15 H=0.50 L=2.28			B=0.15 H=1.00 L=1.90		
Mu=-0.00		Mu=-2.25	Mu=-2.26		Mu=-0.00
As=227.70		As=227.70	As=475.20		As=475.20
Mu=0.11	Mu=0.00	Mu=0.45	Mu=0.45	Mu=0.00	Mu=0.00
As=227.70	As=227.70	As=227.70	As=475.20	As=475.20	As=475.20
Vu=0.42		Vu=-2.43	Vu=2.38		Vu=0.00

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MEMORIAS VIGUETAS PISO 12 NE+50.75m

VT376/NE+8.75m

B=0.15 H=1.00 L=2.28		
Mu=-0.00 As=475.20		Mu=-0.00 As=475.20
Mu=0.18 As=475.20	Mu=0.99 As=475.20	Mu=0.18 As=475.20
Vu=1.42		Vu=-1.42

MEMORIAS VIGUETAS PISO 12 NE+50.75m

VT1/NE+6.55m

B=0.15 H=0.30 L=3.20		
Mu=-0.00		Mu=-0.00
As=128.70		As=128.70
Mu=0.12	Mu=1.04	Mu=0.09
As=128.70	As=142.55	As=128.70
Vu=1.16		Vu=-1.18

VT2/NE+6.55m

B=0.15 H=0.30 L=1.69		
Mu=-0.00		Mu=-0.00
As=128.70		As=128.70
Mu=0.06	Mu=0.31	Mu=0.05
As=128.70	As=128.70	As=128.70
Vu=0.61		Vu=-0.63

VT13/NE+6.55m

B=0.15 H=0.30 L=2.90			B=0.15 H=0.30 L=8.25		
Mu=-0.12		Mu=-3.50	Mu=-3.33		Mu=-0.00
As=128.70		As=374.23	As=354.66		As=128.70
Mu=0.00	Mu=0.00	Mu=0.70	Mu=0.67	Mu=3.00	Mu=0.14
As=128.70	As=128.70	As=128.70	As=128.70	As=336.31	As=149.76
Vu=-0.38		Vu=-1.95	Vu=2.65		Vu=-1.81

VT15/NE+6.55m

B=0.15 H=0.30 L=2.90		
Mu=-0.00		Mu=-0.00
As=128.70		As=128.70
Mu=0.31	Mu=1.06	Mu=0.27
As=128.70	As=145.57	As=128.70
Vu=1.04		Vu=-1.07

VT3/NE+6.55m

B=0.15 H=0.30 L=1.72		
Mu=-0.00		Mu=-0.00
As=128.70		As=128.70
Mu=0.17	Mu=0.38	Mu=0.05
As=128.70	As=128.70	As=128.70
Vu=0.56		Vu=-0.70

MEMORIAS VIGUETAS PISO 12 NE+50.75m

VT4/NE+6.55m

B=0.15 H=0.30 L=1.09		
Mu=-0.00		Mu=-0.00
As=128.70		As=128.70
Mu=0.10	Mu=0.18	Mu=0.03
As=128.70	As=128.70	As=128.70
Vu=0.34		Vu=-0.46

VT5/NE+6.55m

B=0.15 H=0.30 L=1.89		
Mu=-0.00		Mu=-0.00
As=128.70		As=128.70
Mu=0.06	Mu=0.39	Mu=0.07
As=128.70	As=128.70	As=128.70
Vu=0.70		Vu=-0.68

VT6/NE+6.55m

B=0.15 H=0.30 L=2.73		
Mu=-0.00		Mu=-0.00
As=128.70		As=128.70
Mu=0.08	Mu=0.77	Mu=0.10
As=128.70	As=128.70	As=128.70
Vu=1.00		Vu=-0.99

VT7/NE+6.55m

B=0.15 H=0.30 L=3.20		
Mu=-0.00		Mu=-0.00
As=128.70		As=128.70
Mu=0.09	Mu=1.04	Mu=0.12
As=128.70	As=142.97	As=128.70
Vu=1.17		Vu=-1.16

VT10/NE+6.55m

B=0.15 H=0.30 L=2.15		
Mu=-0.00		Mu=-0.00
As=128.70		As=128.70
Mu=0.07	Mu=0.49	Mu=0.08
As=128.70	As=128.70	As=128.70
Vu=0.79		Vu=-0.78

VT11/NE+6.55m

B=0.20 H=0.30 L=8.41			B=0.20 H=0.30 L=4.93		
Mu=-0.00		Mu=-4.78	Mu=-5.00		Mu=-0.00
As=171.60		As=511.88	As=537.01		As=171.60
Mu=0.61	Mu=4.37	Mu=0.96	Mu=1.00	Mu=0.00	Mu=0.65
As=249.40	As=496.84	As=171.60	As=171.60	As=171.60	As=171.60
Vu=2.43		Vu=-3.71	Vu=2.87		Vu=-0.73

MEMORIAS VIGUETAS PISO 12 NE+50.75m

VT12/NE+6.55m

B=0.15 H=0.30 L=3.06			B=0.15 H=0.30 L=2.95		
Mu=-0.00		Mu=-0.79	Mu=-0.80		Mu=-0.00
As=128.70		As=128.70	As=128.70		As=128.70
Mu=0.23	Mu=0.58	Mu=0.16	Mu=0.16	Mu=0.44	Mu=0.10
As=128.70	As=128.70	As=128.70	As=128.70	As=128.70	As=128.70
Vu=0.78		Vu=-1.45	Vu=1.38		Vu=-0.77

VT16/NE+6.55m

B=0.15 H=0.30 L=1.99			B=0.15 H=0.30 L=6.28			B=0.15 H=0.30 L=2.04		
Mu=-0.00		Mu=-1.45	Mu=-1.27		Mu=-2.06	Mu=-2.22		Mu=-0.09
As=128.70		As=149.98	As=131.20		As=215.46	As=232.46		As=128.70
Mu=0.00	Mu=0.00	Mu=0.29	Mu=0.42	Mu=1.93	Mu=0.69	Mu=0.44	Mu=0.00	Mu=0.00
As=128.70	As=128.70	As=128.70	As=128.70	As=201.63	As=128.70	As=128.70	As=128.70	As=128.70
Vu=0.00		Vu=-1.45	Vu=2.16		Vu=-2.42	Vu=1.79		Vu=0.30

VT17/NE+6.55m

B=0.15 H=0.30 L=5.30			B=0.15 H=0.30 L=2.45		
Mu=-0.00		Mu=-1.51	Mu=-1.62		Mu=-0.00
As=128.70		As=156.78	As=168.58		As=128.70
Mu=0.27	Mu=1.28	Mu=0.30	Mu=0.32	Mu=0.00	Mu=0.00
As=128.70	As=143.12	As=128.70	As=128.70	As=128.70	As=128.70
Vu=1.09		Vu=-1.77	Vu=1.32		Vu=0.00

VT18/NE+6.55m

B=0.15 H=0.30 L=3.21			B=0.15 H=0.30 L=6.27			B=0.15 H=0.30 L=2.04		
Mu=-0.00		Mu=-3.76	Mu=-3.67		Mu=-1.12	Mu=-1.24		Mu=-0.00
As=128.70		As=403.76	As=393.74		As=153.60	As=171.43		As=128.70
Mu=0.00	Mu=0.00	Mu=0.75	Mu=1.22	Mu=1.22	Mu=0.73	Mu=0.25	Mu=0.00	Mu=0.04
As=128.70	As=128.70	As=128.70	As=168.81	As=155.70	As=128.70	As=128.70	As=128.70	As=128.70
Vu=0.00		Vu=-2.34	Vu=2.70		Vu=-1.88	Vu=1.37		Vu=-0.12

VT19/NE+6.55m

B=0.15 H=0.30 L=2.90			B=0.15 H=0.30 L=5.30			B=0.15 H=0.30 L=2.45		
Mu=-0.00		Mu=-1.11	Mu=-1.05		Mu=-2.10	Mu=-2.19		Mu=-0.00
As=128.70		As=152.31	As=144.22		As=220.42	As=229.75		As=128.70
Mu=0.18	Mu=0.31	Mu=0.22	Mu=0.42	Mu=0.99	Mu=0.70	Mu=0.44	Mu=0.00	Mu=0.00
As=128.70	As=128.70	As=128.70	As=128.70	As=136.05	As=128.70	As=128.70	As=128.70	As=128.70
Vu=0.61		Vu=-1.50	Vu=1.74		Vu=-2.13	Vu=1.79		Vu=0.00

VT20/NE+6.55m

B=0.15 H=0.30 L=4.78		
Mu=-0.00		Mu=-0.00
As=128.70		As=128.70
Mu=0.16	Mu=2.40	Mu=0.46
As=129.56	As=252.17	As=163.05
Vu=1.81		Vu=-1.68

MEMORIAS VIGUETAS PISO 12 NE+50.75m

VT22/NE+6.55m

B=0.15 H=0.30 L=2.90			B=0.15 H=0.30 L=5.40			B=0.15 H=0.30 L=2.32		
Mu=-0.00		Mu=-3.07	Mu=-3.05		Mu=-1.95	Mu=-1.96		Mu=-0.00
As=128.70		As=326.08	As=324.44		As=203.41	As=205.35		As=128.70
Mu=0.00	Mu=0.00	Mu=0.61	Mu=1.02	Mu=0.61	Mu=0.65	Mu=0.39	Mu=0.00	Mu=0.00
As=128.70	As=128.70	As=128.70	As=140.01	As=128.70	As=128.70	As=128.70	As=128.70	As=128.70
Vu=0.00		Vu=-2.12	Vu=2.18		Vu=-1.77	Vu=1.69		Vu=0.00

VT23/NE+6.55m

B=0.15 H=0.30 L=2.90			B=0.15 H=0.30 L=5.51			B=0.15 H=0.30 L=2.22		
Mu=-0.00		Mu=-3.07	Mu=-3.04		Mu=-1.76	Mu=-1.80		Mu=-0.00
As=128.70		As=326.08	As=322.58		As=183.35	As=187.58		As=128.70
Mu=0.00	Mu=0.00	Mu=0.61	Mu=1.01	Mu=0.61	Mu=0.61	Mu=0.36	Mu=0.00	Mu=0.00
As=128.70	As=128.70	As=128.70	As=139.24	As=128.70	As=128.70	As=128.70	As=128.70	As=128.70
Vu=0.00		Vu=-2.12	Vu=2.24		Vu=-1.78	Vu=1.62		Vu=0.00

VT24/NE+6.55m

B=0.15 H=0.30 L=2.90			B=0.15 H=0.30 L=5.63			B=0.15 H=0.30 L=2.11		
Mu=-0.00		Mu=-3.07	Mu=-3.02		Mu=-1.56	Mu=-1.63		Mu=-0.00
As=128.70		As=326.08	As=320.58		As=162.22	As=169.04		As=128.70
Mu=0.00	Mu=0.00	Mu=0.61	Mu=1.01	Mu=0.64	Mu=0.60	Mu=0.33	Mu=0.00	Mu=0.00
As=128.70	As=128.70	As=128.70	As=138.40	As=128.70	As=128.70	As=128.70	As=128.70	As=128.70
Vu=0.00		Vu=-2.12	Vu=2.32		Vu=-1.80	Vu=1.54		Vu=0.00

VT25/NE+6.55m

B=0.15 H=0.30 L=5.70			B=0.15 H=0.30 L=2.05		
Mu=-0.00		Mu=-0.97	Mu=-1.13		Mu=-0.00
As=128.70		As=133.25	As=156.27		As=128.70
Mu=0.33	Mu=1.87	Mu=0.19	Mu=0.23	Mu=0.00	Mu=0.00
As=135.74	As=199.93	As=128.70	As=128.70	As=128.70	As=128.70
Vu=1.31		Vu=-1.77	Vu=1.11		Vu=0.00

VT26/NE+6.55m

B=0.15 H=0.30 L=6.27			B=0.15 H=0.30 L=2.03		
Mu=-0.00		Mu=-2.72	Mu=-2.90		Mu=-0.18
As=128.70		As=287.97	As=307.59		As=128.70
Mu=0.45	Mu=2.45	Mu=0.54	Mu=0.58	Mu=0.00	Mu=0.00
As=147.30	As=276.61	As=128.70	As=128.70	As=128.70	As=128.70
Vu=1.78		Vu=-2.79	Vu=2.08		Vu=0.60

VT21/NE+6.55m

B=0.15 H=0.30 L=6.16			B=0.15 H=0.30 L=6.27			B=0.15 H=0.30 L=2.04		
Mu=-0.00		Mu=-2.92	Mu=-2.97		Mu=-1.39	Mu=-1.52		Mu=-0.00
As=128.70		As=309.62	As=315.35		As=143.97	As=158.38		As=128.70
Mu=0.16	Mu=2.08	Mu=0.58	Mu=0.99	Mu=1.41	Mu=0.59	Mu=0.30	Mu=0.00	Mu=0.00
As=150.87	As=236.15	As=128.70	As=136.21	As=152.06	As=128.70	As=128.70	As=128.70	As=128.70
Vu=1.75		Vu=-2.75	Vu=2.54		Vu=-2.04	Vu=1.49		Vu=0.00

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VT27/NE+6.55m

B=0.15 H=0.30 L=2.90			B=0.15 H=0.30 L=5.75			B=0.15 H=0.30 L=2.00		
Mu=-0.00		Mu=-3.07	Mu=-3.00		Mu=-1.37	Mu=-1.46		Mu=-0.00
As=128.70		As=326.08	As=318.71		As=142.14	As=151.52		As=128.70
Mu=0.00	Mu=0.00	Mu=0.61	Mu=1.00	Mu=0.87	Mu=0.60	Mu=0.29	Mu=0.00	Mu=0.00
As=128.70	As=128.70	As=128.70	As=137.62	As=128.70	As=128.70	As=128.70	As=128.70	As=128.70
Vu=0.00		Vu=-2.12	Vu=2.38		Vu=-1.81	Vu=1.46		Vu=0.00

VT28/NE+6.55m

B=0.15 H=0.30 L=2.90			B=0.15 H=0.30 L=6.31			B=0.15 H=0.30 L=1.42		
Mu=-0.00		Mu=-3.07	Mu=-2.93		Mu=-0.59	Mu=-0.74		Mu=-0.00
As=128.70		As=326.08	As=310.29		As=128.70	As=128.70		As=128.70
Mu=0.00	Mu=0.00	Mu=0.61	Mu=0.98	Mu=1.92	Mu=0.59	Mu=0.15	Mu=0.00	Mu=0.00
As=128.70	As=128.70	As=128.70	As=134.09	As=210.57	As=128.70	As=128.70	As=128.70	As=128.70
Vu=0.00		Vu=-2.12	Vu=2.69		Vu=-1.92	Vu=1.04		Vu=0.00

VT29/NE+6.55m

B=0.15 H=0.30 L=2.90			B=0.15 H=0.30 L=6.84			B=0.15 H=0.30 L=0.89		
Mu=-0.00		Mu=-3.07	Mu=-2.87		Mu=-0.60	Mu=-0.29		Mu=-0.00
As=128.70		As=326.08	As=303.64		As=128.70	As=128.70		As=128.70
Mu=0.00	Mu=0.00	Mu=0.61	Mu=0.96	Mu=2.88	Mu=0.60	Mu=0.06	Mu=0.00	Mu=0.00
As=128.70	As=128.70	As=128.70	As=131.29	As=318.25	As=136.87	As=128.70	As=128.70	As=128.70
Vu=0.00		Vu=-2.12	Vu=2.93		Vu=-2.07	Vu=0.65		Vu=0.00

VT30/NE+6.55m

B=0.15 H=0.30 L=2.90			B=0.15 H=0.30 L=3.48		
Mu=-0.00		Mu=-0.91	Mu=-0.88		Mu=-0.00
As=128.70		As=128.70	As=128.70		As=128.70
Mu=0.20	Mu=0.42	Mu=0.18	Mu=0.18	Mu=0.71	Mu=0.08
As=128.70	As=128.70	As=128.70	As=128.70	As=128.70	As=128.70
Vu=0.68		Vu=-1.44	Vu=1.55		Vu=-0.99

VT31/NE+6.55m

B=0.15 H=0.30 L=1.02			B=0.15 H=0.30 L=1.60			B=0.15 H=0.30 L=7.84		
Mu=-0.00		Mu=-0.38	Mu=-1.09		Mu=-4.73	Mu=-4.54		Mu=-0.00
As=128.70		As=128.70	As=141.49		As=515.12	As=493.37		As=128.70
Mu=0.00	Mu=0.00	Mu=0.08	Mu=0.95	Mu=0.95	Mu=1.58	Mu=0.91	Mu=3.62	Mu=0.55
As=128.70	As=128.70	As=128.70	As=129.82	As=129.82	As=163.74	As=128.70	As=419.63	As=215.93
Vu=0.00		Vu=-0.74	Vu=-1.69		Vu=-2.86	Vu=3.51		Vu=-2.21

VT33/NE+6.55m

B=0.15 H=0.30 L=0.77			B=0.15 H=0.30 L=8.33		
Mu=-1.39		Mu=-5.18	Mu=-5.55		Mu=-0.00
As=182.51		As=569.02	As=613.20		As=128.70
Mu=0.00	Mu=0.00	Mu=1.04	Mu=1.11	Mu=3.66	Mu=0.20
As=128.70	As=128.70	As=142.51	As=152.78	As=428.59	As=198.88
Vu=-4.64		Vu=-5.20	Vu=3.73		Vu=-2.35

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VT34/NE+6.55m

B=0.15 H=0.30 L=0.77			B=0.15 H=0.30 L=7.67		
Mu=-1.25		Mu=-4.66	Mu=-4.96		Mu=-0.00
As=163.11		As=507.91	As=542.68		As=128.70
Mu=0.00	Mu=0.00	Mu=0.93	Mu=0.99	Mu=3.24	Mu=0.70
As=128.70	As=128.70	As=128.70	As=136.33	As=384.41	As=216.42
Vu=-4.16		Vu=-4.72	Vu=3.54		Vu=-2.06

VT35/NE+6.55m

B=0.15 H=0.30 L=6.12			B=0.15 H=0.30 L=1.95		
Mu=-0.00		Mu=-0.83	Mu=-1.03		Mu=-0.00
As=128.70		As=128.70	As=141.18		As=128.70
Mu=0.36	Mu=2.30	Mu=0.17	Mu=0.21	Mu=0.00	Mu=0.00
As=159.15	As=243.14	As=128.70	As=128.70	As=128.70	As=128.70
Vu=1.46		Vu=-1.85	Vu=1.05		Vu=0.00

VT36/NE+6.55m

B=0.15 H=0.30 L=0.76			B=0.15 H=0.30 L=6.12			B=0.15 H=0.30 L=1.95		
Mu=-0.57		Mu=-2.22	Mu=-2.24		Mu=-1.23	Mu=-1.39		Mu=-0.00
As=128.70		As=233.10	As=234.54		As=169.13	As=143.90		As=128.70
Mu=0.00	Mu=0.00	Mu=0.44	Mu=0.75	Mu=1.69	Mu=0.45	Mu=0.28	Mu=0.00	Mu=0.00
As=128.70	As=128.70	As=128.70	As=128.70	As=175.63	As=128.70	As=128.70	As=128.70	As=128.70
Vu=-1.90		Vu=-2.45	Vu=2.40		Vu=-2.07	Vu=1.42		Vu=0.00

VT38/NE+6.55m

B=0.15 H=0.30 L=5.11		
Mu=-0.00		Mu=-0.00
As=128.70		As=128.70
Mu=0.10	Mu=1.36	Mu=0.27
As=128.70	As=156.11	As=128.70
Vu=0.95		Vu=-0.89

VT37/NE+6.55m

B=0.15 H=0.30 L=5.99			B=0.15 H=0.30 L=2.07		
Mu=-0.00		Mu=-0.98	Mu=-1.16		Mu=-0.00
As=128.70		As=134.22	As=159.38		As=128.70
Mu=0.35	Mu=2.11	Mu=0.20	Mu=0.23	Mu=0.00	Mu=0.00
As=149.79	As=224.65	As=128.70	As=128.70	As=128.70	As=128.70
Vu=1.40		Vu=-1.84	Vu=1.12		Vu=0.00

VT39/NE+6.55m

B=0.15 H=0.30 L=4.15		
Mu=-0.00		Mu=-0.00
As=128.70		As=128.70
Mu=0.13	Mu=1.84	Mu=0.40
As=128.70	As=191.79	As=128.87
Vu=1.58		Vu=-1.45

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VT40/NE+6.55m

B=0.15 H=0.30 L=0.76			B=0.15 H=0.30 L=5.83			B=0.15 H=0.30 L=2.23		
Mu=-0.44		Mu=-1.76	Mu=-1.73		Mu=-1.69	Mu=-1.82		Mu=-0.00
As=128.70		As=183.63	As=180.51		As=176.16	As=189.32		As=128.70
Mu=0.00	Mu=0.00	Mu=0.35	Mu=0.58	Mu=1.39	Mu=0.56	Mu=0.36	Mu=0.00	Mu=0.00
As=128.70	As=128.70	As=128.70	As=128.70	As=144.04	As=128.70	As=128.70	As=128.70	As=128.70
Vu=-1.46		Vu=-2.02	Vu=2.13		Vu=-2.12	Vu=1.63		Vu=0.00

VT41/NE+6.55m

B=0.15 H=0.30 L=0.76			B=0.15 H=0.30 L=5.62			B=0.15 H=0.30 L=2.45		
Mu=-0.34		Mu=-1.41	Mu=-1.35		Mu=-2.09	Mu=-2.19		Mu=-0.00
As=128.70		As=146.09	As=139.90		As=219.09	As=229.75		As=128.70
Mu=0.00	Mu=0.00	Mu=0.28	Mu=0.45	Mu=1.16	Mu=0.70	Mu=0.44	Mu=0.00	Mu=0.00
As=128.70	As=128.70	As=128.70	As=128.70	As=159.94	As=128.70	As=128.70	As=128.70	As=128.70
Vu=-1.13		Vu=-1.68	Vu=1.92		Vu=-2.18	Vu=1.79		Vu=0.00

VT44/NE+6.55m

B=0.15 H=0.30 L=0.76			B=0.15 H=0.30 L=5.62		
Mu=-0.64		Mu=-2.47	Mu=-2.50		Mu=-0.00
As=128.70		As=260.38	As=263.75		As=128.70
Mu=0.00	Mu=0.00	Mu=0.49	Mu=0.50	Mu=1.82	Mu=0.38
As=128.70	As=128.70	As=128.70	As=128.70	As=208.71	As=156.04
Vu=-2.13		Vu=-2.69	Vu=2.57		Vu=-1.54

VT42/NE+6.55m

B=0.15 H=0.30 L=1.30			B=0.15 H=0.30 L=1.59			B=0.15 H=0.30 L=5.72		
Mu=-0.00		Mu=-0.62	Mu=-0.84		Mu=-1.67	Mu=-1.42		Mu=-1.52
As=128.70		As=128.70	As=128.70		As=173.74	As=147.59		As=158.09
Mu=0.00	Mu=0.00	Mu=0.12	Mu=0.33	Mu=0.33	Mu=0.56	Mu=0.47	Mu=1.51	Mu=0.51
As=128.70	As=128.70	As=128.70	As=128.70	As=128.70	As=128.70	As=128.70	As=157.16	As=128.70
Vu=0.00		Vu=-0.95	Vu=0.06		Vu=-1.10	Vu=2.07		Vu=-2.11

B=0.15 H=0.30 L=2.19		
Mu=-1.66		Mu=-0.00
As=172.54		As=128.70
Mu=0.33	Mu=0.00	Mu=0.01
As=128.70	As=128.70	As=128.70
Vu=1.56		Vu=-0.04

VT43/NE+6.55m

B=0.15 H=0.30 L=2.78			B=0.15 H=0.30 L=5.31			B=0.15 H=0.30 L=1.96		
Mu=-0.00		Mu=-2.82	Mu=-2.75		Mu=-0.72	Mu=-0.82		Mu=-0.00
As=128.70		As=298.55	As=290.40		As=128.70	As=128.70		As=128.70
Mu=0.00	Mu=0.00	Mu=0.56	Mu=0.92	Mu=0.92	Mu=0.55	Mu=0.16	Mu=0.00	Mu=0.12
As=128.70	As=128.70	As=128.70	As=128.70	As=128.84	As=128.70	As=128.70	As=128.70	As=128.70
Vu=0.00		Vu=-2.03	Vu=2.32		Vu=-1.56	Vu=1.17		Vu=-0.26

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VT45/NE+6.55m

B=0.15 H=0.30 L=2.19			B=0.15 H=0.30 L=4.89			B=0.15 H=0.30 L=2.08		
Mu=-0.00		Mu=-1.75	Mu=-1.69		Mu=-1.52	Mu=-1.58		Mu=-0.00
As=128.70		As=182.42	As=176.40		As=158.03	As=164.16		As=128.70
Mu=0.00	Mu=0.00	Mu=0.35	Mu=0.56	Mu=0.57	Mu=0.51	Mu=0.32	Mu=0.00	Mu=0.00
As=128.70	As=128.70	As=128.70	As=128.70	As=128.70	As=128.70	As=128.70	As=128.70	As=128.70
Vu=0.00		Vu=-1.60	Vu=1.82		Vu=-1.75	Vu=1.52		Vu=0.00

VT46/NE+6.55m

B=0.15 H=0.30 L=1.60			B=0.15 H=0.30 L=4.48			B=0.15 H=0.30 L=2.19		
Mu=-0.00		Mu=-0.93	Mu=-0.82		Mu=-0.92	Mu=-1.01		Mu=-0.00
As=128.70		As=128.70	As=128.70		As=128.70	As=138.69		As=128.70
Mu=0.00	Mu=0.00	Mu=0.19	Mu=0.27	Mu=0.96	Mu=0.31	Mu=0.20	Mu=0.00	Mu=0.15
As=128.70	As=128.70	As=128.70	As=128.70	As=132.05	As=128.70	As=128.70	As=128.70	As=128.70
Vu=0.00		Vu=-1.17	Vu=1.61		Vu=-1.66	Vu=1.30		Vu=-0.30

VT47/NE+6.55m

B=0.15 H=0.30 L=5.62			B=0.15 H=0.30 L=2.45		
Mu=-0.00		Mu=-2.02	Mu=-2.19		Mu=-0.00
As=128.70		As=211.03	As=229.75		As=128.70
Mu=0.41	Mu=2.08	Mu=0.40	Mu=0.44	Mu=0.00	Mu=0.00
As=165.46	As=231.04	As=128.70	As=128.70	As=128.70	As=128.70
Vu=1.62		Vu=-2.48	Vu=1.79		Vu=0.00

VT48/NE+6.55m

B=0.15 H=0.30 L=1.59		
Mu=-0.00		Mu=-0.00
As=128.70		As=128.70
Mu=0.02	Mu=0.16	Mu=0.07
As=128.70	As=128.70	As=128.70
Vu=0.31		Vu=-0.26

VT49/NE+6.55m

B=0.20 H=0.30 L=8.31			B=0.20 H=0.30 L=4.06		
Mu=-0.00		Mu=-2.96	Mu=-3.69		Mu=-0.18
As=171.60		As=310.96	As=389.75		As=171.60
Mu=0.34	Mu=3.86	Mu=0.59	Mu=0.74	Mu=0.00	Mu=0.00
As=194.88	As=409.21	As=171.60	As=171.60	As=171.60	As=171.60
Vu=1.30		Vu=-3.01	Vu=1.90		Vu=0.61

VT50/NE+6.55m

B=0.15 H=0.30 L=5.23		
Mu=-0.00		Mu=-0.00
As=128.70		As=128.70
Mu=0.31	Mu=2.92	Mu=0.53
As=170.00	As=309.28	As=146.09
Vu=1.95		Vu=-1.87

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VT51/NE+6.55m

B=0.15 H=0.30 L=1.15			B=0.15 H=0.30 L=5.29		
Mu=-0.23		Mu=-1.12	Mu=-1.07		Mu=-0.00
As=128.70		As=154.69	As=147.47		As=128.70
Mu=0.00	Mu=0.00	Mu=0.22	Mu=0.21	Mu=1.03	Mu=0.09
As=128.70	As=128.70	As=128.70	As=128.70	As=158.33	As=128.70
Vu=-0.78		Vu=-0.78	Vu=0.94		Vu=-0.74

VT52/NE+6.55m

B=0.20 H=0.30 L=0.91			B=0.20 H=0.30 L=7.98			B=0.20 H=0.30 L=3.02		
Mu=-0.46		Mu=-2.26	Mu=-2.29		Mu=-1.59	Mu=-1.76		Mu=-0.35
As=171.60		As=235.74	As=238.41		As=219.83	As=182.18		As=171.60
Mu=0.00	Mu=0.00	Mu=0.45	Mu=0.76	Mu=1.64	Mu=0.53	Mu=0.59	Mu=0.35	Mu=0.35
As=171.60	As=171.60	As=171.60	As=171.60	As=226.17	As=171.60	As=171.60	As=171.60	As=171.60
Vu=-1.98		Vu=-1.98	Vu=1.88		Vu=-1.71	Vu=1.17		Vu=-0.19

B=0.20 H=0.30 L=3.58		
Mu=-0.02		Mu=-0.00
As=171.60		As=171.60
Mu=0.00	Mu=0.85	Mu=0.27
As=171.60	As=171.60	As=171.60
Vu=0.89		Vu=-0.72

VT53/NE+6.55m

B=0.15 H=0.30 L=5.35		
Mu=-0.00		Mu=-0.00
As=128.70		As=128.70
Mu=0.31	Mu=3.03	Mu=0.53
As=131.67	As=322.11	As=150.74
Vu=1.99		Vu=-1.91

VT54/NE+6.55m

B=0.20 H=0.30 L=2.51			B=0.20 H=0.30 L=5.02			B=0.20 H=0.30 L=1.22		
Mu=-0.11		Mu=-1.08	Mu=-0.81		Mu=-0.23	Mu=-1.09		Mu=-4.11
As=171.60		As=171.60	As=171.60		As=171.60	As=186.26		As=437.21
Mu=0.00	Mu=0.00	Mu=0.22	Mu=0.27	Mu=1.12	Mu=0.22	Mu=0.82	Mu=0.82	Mu=1.37
As=171.60	As=171.60	As=171.60	As=171.60	As=171.60	As=171.60	As=171.60	As=171.60	As=188.62
Vu=-0.39		Vu=-0.39	Vu=1.42		Vu=-1.19	Vu=-2.16		Vu=-2.80

B=0.20 H=0.30 L=8.53		
Mu=-4.13		Mu=-0.00
As=438.38		As=171.60
Mu=0.83	Mu=2.91	Mu=0.49
As=171.60	As=335.16	As=179.68
Vu=2.76		Vu=-1.68

VT400/NE+12.95

B=0.20 H=0.80 L=6.91			B=0.20 H=0.80 L=13.25			B=0.20 H=0.80 L=7.00		
Mu=-0.00		Mu=-49.72	Mu=-49.17		Mu=-22.02	Mu=-16.31		Mu=-8.73
As=501.60		As=1843.44	As=1821.65		As=787.05	As=578.85		As=501.60
Mu=1.15	Mu=0.00	Mu=9.94	Mu=24.58	Mu=18.25	Mu=12.29	Mu=8.15	Mu=4.08	Mu=4.36
As=501.60	As=501.60	As=501.60	As=881.56	As=649.25	As=578.71	As=501.60	As=501.60	As=501.60
Vu=2.77		Vu=11.74	Vu=-15.01		Vu=11.34	Vu=-7.24		Vu=5.40

B=0.20 H=0.80 L=7.50		
Mu=-9.29		Mu=-9.20
As=501.60		As=501.60
Mu=4.64	Mu=7.39	Mu=4.60
As=501.60	As=501.60	As=501.60
Vu=-5.56		Vu=6.44

VT411/NE+12.95

B=0.20 H=0.80 L=12.97			B=0.20 H=0.80 L=7.00			B=0.20 H=0.80 L=4.42		
Mu=-19.57		Mu=-15.05	Mu=-16.75		Mu=-4.19	Mu=-2.00		Mu=-6.80
As=697.35		As=533.31	As=594.79		As=501.60	As=501.60		As=501.60
Mu=9.78	Mu=14.50	Mu=7.53	Mu=8.38	Mu=4.19	Mu=7.99	Mu=7.99	Mu=5.37	Mu=3.40
As=501.60	As=513.48	As=501.60	As=501.60	As=501.60	As=501.60	As=501.60	As=501.60	As=501.60
Vu=-8.30		Vu=6.50	Vu=-6.67		Vu=1.84	Vu=2.38		Vu=9.30

VT412/NE+12.95

B=0.30 H=0.80 L=13.30			B=0.30 H=0.80 L=14.98		
Mu=-44.97		Mu=-43.58	Mu=-40.98		Mu=-23.77
As=1623.67		As=1571.61	As=1474.57		As=843.14
Mu=22.49	Mu=27.73	Mu=21.79	Mu=20.49	Mu=21.03	Mu=11.89
As=796.72	As=1053.21	As=771.66	As=966.24	As=992.14	As=752.40
Vu=-25.58		Vu=14.53	Vu=-13.71		Vu=8.84

VT413/NE+12.95

B=0.15 H=0.80 L=9.20			B=0.15 H=0.80 L=11.20			B=0.15 H=0.80 L=11.20		
Mu=-0.00		Mu=-15.52	Mu=-14.89		Mu=-12.87	Mu=-13.62		Mu=-13.84
As=376.20		As=553.80	As=530.77		As=457.24	As=484.48		As=492.49
Mu=4.93	Mu=8.81	Mu=3.10	Mu=7.45	Mu=8.12	Mu=6.43	Mu=6.81	Mu=8.22	Mu=6.92
As=376.20	As=440.76	As=376.20	As=376.20	As=381.70	As=376.20	As=376.20	As=386.37	As=376.20
Vu=-3.44		Vu=7.32	Vu=-6.92		Vu=6.56	Vu=-6.49		Vu=6.93

B=0.15 H=0.80 L=9.21		
Mu=-15.74		Mu=-0.00
As=561.86		As=376.20
Mu=3.15	Mu=8.37	Mu=5.56
As=376.20	As=424.99	As=376.20
Vu=-7.03		Vu=3.32

VT416/NE+12.95

B=0.20 H=0.80 L=5.22			B=0.20 H=0.80 L=4.16		
Mu=-0.00		Mu=-33.85	Mu=-35.91		Mu=-8.98
As=501.60		As=1228.34	As=1306.63		As=501.60
Mu=2.92	Mu=6.77	Mu=6.77	Mu=17.95	Mu=8.98	Mu=9.67
As=561.13	As=501.60	As=501.60	As=638.52	As=501.60	As=501.60
Vu=-3.98		Vu=11.86	Vu=-16.63		Vu=-14.92

VT417/NE+12.95

B=0.20 H=0.80 L=1.00			B=0.20 H=0.80 L=5.90			B=0.20 H=0.80 L=11.15		
Mu=-1.73		Mu=-0.58	Mu=-5.49		Mu=-21.98	Mu=-19.69		Mu=-16.92
As=501.60		As=501.60	As=501.60		As=785.58	As=701.73		As=600.95
Mu=0.58	Mu=0.68	Mu=2.32	Mu=5.49	Mu=5.49	Mu=10.99	Mu=9.85	Mu=9.83	Mu=9.83
As=501.60	As=501.60	As=501.60	As=501.60	As=501.60	As=516.58	As=501.60	As=501.60	As=501.60
Vu=-3.47		Vu=-1.57	Vu=0.52		Vu=7.82	Vu=-8.83		Vu=8.26

B=0.20 H=0.80 L=11.20			B=0.20 H=0.80 L=11.20			B=0.20 H=0.80 L=11.15		
Mu=-17.62		Mu=-17.15	Mu=-17.71		Mu=-16.60	Mu=-16.57		Mu=-24.86
As=626.35		As=609.29	As=629.62		As=589.36	As=588.27		As=891.74
Mu=8.81	Mu=9.88	Mu=8.57	Mu=8.85	Mu=9.99	Mu=8.30	Mu=8.93	Mu=8.93	Mu=12.43
As=501.60	As=501.60	As=501.60	As=501.60	As=501.60	As=501.60	As=501.60	As=501.60	As=585.29
Vu=-8.26		Vu=8.29	Vu=-8.29		Vu=8.20	Vu=-7.95		Vu=9.94

B=0.20 H=0.80 L=10.85		
Mu=-34.30		Mu=-0.00
As=1245.41		As=501.60
Mu=6.86	Mu=2.32	Mu=6.34
As=501.60	As=501.60	As=501.60
Vu=-9.71		Vu=1.88

VT418/NE+12.95

B=0.20 H=0.80 L=3.03			B=0.20 H=0.80 L=4.86			B=0.20 H=0.80 L=1.34		
Mu=-0.00		Mu=-6.35	Mu=-4.86		Mu=-19.45	Mu=-13.39		Mu=-15.67
As=501.60		As=501.60	As=501.60		As=692.97	As=632.08		As=555.70
Mu=1.85	Mu=0.00	Mu=1.27	Mu=10.83	Mu=11.17	Mu=9.73	Mu=6.70	Mu=3.92	Mu=7.84
As=501.60	As=501.60	As=501.60	As=627.29	As=636.87	As=501.60	As=501.60	As=501.60	As=501.60
Vu=-0.49		Vu=5.47	Vu=-5.01		Vu=14.59	Vu=-1.09		Vu=3.70

VT419/NE+12.95

B=0.20 H=0.80 L=6.08			B=0.20 H=0.80 L=1.60		
Mu=-17.79		Mu=-23.95	Mu=-17.89		Mu=-1.84
As=632.53		As=858.11	As=636.16		As=501.60
Mu=8.90	Mu=5.99	Mu=11.98	Mu=3.58	Mu=0.00	Mu=0.00
As=501.60	As=501.60	As=563.55	As=501.60	As=501.60	As=501.60
Vu=-8.04		Vu=9.79	Vu=-9.53		Vu=-3.12

VT420/NE+12.95

B=0.15 H=0.50 L=3.40			B=0.15 H=0.80 L=2.91		
Mu=-6.75		Mu=-8.43	Mu=-5.95		Mu=-23.78
As=399.88		As=503.33	As=376.20		As=860.51
Mu=3.38	Mu=4.91	Mu=4.22	Mu=10.85	Mu=5.95	Mu=11.89
As=262.51	As=288.46	As=246.86	As=386.84	As=376.20	As=421.75
Vu=-7.81		Vu=8.35	Vu=9.51		Vu=16.43

VT421/NE+12.95

B=0.15 H=0.80 L=5.70		
Mu=-19.84		Mu=-11.91
As=713.11		As=422.47
Mu=9.92	Mu=4.96	Mu=5.95
As=467.55	As=376.20	As=376.20
Vu=-9.69		Vu=7.27

VT422/NE+12.95

B=0.20 H=0.80 L=2.10			B=0.20 H=0.80 L=4.75			B=0.20 H=0.80 L=3.72		
Mu=-0.36		Mu=-10.83	Mu=-9.34		Mu=-2.34	Mu=-10.30		Mu=-41.18
As=501.60		As=508.97	As=501.60		As=501.60	As=501.60		As=1508.98
Mu=0.00	Mu=0.00	Mu=2.17	Mu=4.67	Mu=7.41	Mu=2.34	Mu=11.52	Mu=10.30	Mu=20.59
As=501.60	As=501.60	As=501.60	As=501.60	As=501.60	As=501.60	As=541.84	As=501.60	As=734.62
Vu=-0.72		Vu=7.61	Vu=-9.66		Vu=7.25	Vu=7.93		Vu=18.33

VT423/NE+12.95

B=0.15 H=0.80 L=2.10			B=0.15 H=0.80 L=4.75			B=0.15 H=0.80 L=2.61		
Mu=-0.40		Mu=-15.12	Mu=-17.60		Mu=-4.40	Mu=-4.45		Mu=-17.78
As=376.20		As=539.17	As=630.21		As=376.20	As=376.20		As=636.85
Mu=0.00	Mu=0.00	Mu=3.02	Mu=8.80	Mu=8.80	Mu=4.40	Mu=6.76	Mu=4.45	Mu=8.89
As=376.20	As=376.20	As=376.20	As=414.01	As=418.88	As=376.20	As=376.20	As=376.20	As=418.31
Vu=1.31		Vu=9.01	Vu=-14.48		Vu=9.61	Vu=6.07		Vu=12.78

VT425/NE+12.95

B=0.15 H=0.80 L=5.21			B=0.15 H=0.80 L=5.70			B=0.15 H=0.80 L=1.50		
Mu=-2.90		Mu=-11.61	Mu=-12.58		Mu=-14.08	Mu=-5.37		Mu=-0.00
As=376.20		As=411.63	As=446.73		As=501.23	As=376.20		As=376.20
Mu=2.90	Mu=5.80	Mu=5.80	Mu=6.29	Mu=3.52	Mu=7.04	Mu=1.07	Mu=0.00	Mu=0.92
As=376.20	As=376.20	As=376.20	As=376.20	As=376.20	As=376.20	As=376.20	As=376.20	As=376.20
Vu=-6.21		Vu=9.65	Vu=-7.12		Vu=7.58	Vu=-5.13		Vu=-0.36

VT426/NE+12.95

B=0.15 H=0.80 L=2.35			B=0.15 H=0.50 L=5.70			B=0.15 H=0.50 L=1.50		
Mu=-0.00		Mu=-8.58	Mu=-8.26		Mu=-8.44	Mu=-4.45		Mu=-0.00
As=376.20		As=403.52	As=492.79		As=503.95	As=260.90		As=227.70
Mu=1.62	Mu=0.00	Mu=1.72	Mu=4.13	Mu=3.33	Mu=4.22	Mu=0.89	Mu=0.00	Mu=0.30
As=376.20	As=376.20	As=376.20	As=241.79	As=258.96	As=247.16	As=227.70	As=227.70	As=227.70
Vu=-0.41		Vu=7.14	Vu=-6.96		Vu=7.02	Vu=-4.46		Vu=0.63

VT427/NE+12.95

B=0.15 H=0.50 L=2.10			B=0.15 H=0.50 L=4.75			B=0.15 H=0.80 L=8.50		
Mu=-0.00		Mu=-7.46	Mu=-8.38		Mu=-6.55	Mu=-12.20		Mu=-13.11
As=227.70		As=443.40	As=500.23		As=387.68	As=432.96		As=465.95
Mu=0.74	Mu=0.00	Mu=1.49	Mu=4.19	Mu=2.88	Mu=3.28	Mu=6.10	Mu=3.30	Mu=6.55
As=227.70	As=227.70	As=227.70	As=245.37	As=227.70	As=254.62	As=376.20	As=376.20	As=376.20
Vu=-1.43		Vu=6.55	Vu=-7.68		Vu=7.03	Vu=-9.21		Vu=9.24

VT428/NE+12.95

B=0.15 H=0.50 L=2.10			B=0.15 H=0.50 L=4.75			B=0.15 H=0.80 L=6.81		
Mu=-0.16		Mu=-5.26	Mu=-5.90		Mu=-9.61	Mu=-19.84		Mu=-0.00
As=227.70		As=309.51	As=348.17		As=577.01	As=713.11		As=376.20
Mu=0.84	Mu=0.33	Mu=1.05	Mu=2.95	Mu=2.59	Mu=4.80	Mu=3.97	Mu=5.90	Mu=2.01
As=227.70	As=227.70	As=227.70	As=229.03	As=227.70	As=282.16	As=376.20	As=376.20	As=376.20
Vu=-2.32		Vu=5.66	Vu=-6.69		Vu=8.01	Vu=-11.58		Vu=6.04

VT429/NE+12.95

B=0.15 H=0.50 L=2.10			B=0.15 H=0.50 L=4.75			B=0.15 H=0.80 L=4.97		
Mu=-0.48		Mu=-3.94	Mu=-3.31		Mu=-12.57	Mu=-23.72		Mu=-0.00
As=227.70		As=230.47	As=257.38		As=765.76	As=858.25		As=376.20
Mu=0.00	Mu=0.83	Mu=0.79	Mu=3.14	Mu=3.14	Mu=6.28	Mu=4.74	Mu=0.00	Mu=1.97
As=227.70	As=227.70	As=227.70	As=244.18	As=244.18	As=371.54	As=376.20	As=376.20	As=376.20
Vu=-2.86		Vu=5.12	Vu=-5.69		Vu=8.99	Vu=-11.54		Vu=0.43

VT432/NE+12.95

B=0.25 H=0.80 L=6.81		
Mu=-0.00		Mu=-10.26
As=627.00		As=627.00
Mu=8.65	Mu=11.39	Mu=2.05
As=627.00	As=627.00	As=627.00
Vu=-3.84		Vu=11.14

VT433/NE+12.95

B=0.15 H=0.50 L=5.70			B=0.15 H=0.50 L=1.50		
Mu=-9.93		Mu=-6.54	Mu=-4.57		Mu=-0.00
As=597.14		As=387.07	As=268.08		As=227.70
Mu=4.97	Mu=3.68	Mu=3.68	Mu=0.91	Mu=0.00	Mu=0.52
As=291.76	As=286.62	As=286.62	As=227.70	As=227.70	As=227.70
Vu=-7.56		Vu=6.56	Vu=-4.62		Vu=0.51

VT434/NE+12.95

B=0.15 H=0.50 L=2.10			B=0.15 H=0.50 L=4.90			B=0.15 H=0.80 L=3.93		
Mu=-0.47		Mu=-3.89	Mu=-3.41		Mu=-13.65	Mu=-24.66		Mu=-0.00
As=227.70		As=303.26	As=265.47		As=836.11	As=893.72		As=376.20
Mu=0.00	Mu=0.86	Mu=0.78	Mu=3.41	Mu=3.41	Mu=6.82	Mu=4.93	Mu=0.00	Mu=2.85
As=227.70	As=227.70	As=227.70	As=265.47	As=265.47	As=404.47	As=376.20	As=376.20	As=376.20
Vu=-2.87		Vu=5.11	Vu=-5.35		Vu=9.31	Vu=-11.94		Vu=-0.14

VT435/NE+12.95

B=0.15 H=0.50 L=0.64			B=0.15 H=0.50 L=5.70			B=0.15 H=0.50 L=1.50		
Mu=-0.00		Mu=-2.11	Mu=-8.01		Mu=-7.04	Mu=-3.24		Mu=-0.07
As=227.70		As=227.70	As=477.31		As=417.62	As=251.86		As=227.70
Mu=0.13	Mu=0.00	Mu=0.42	Mu=4.01	Mu=4.39	Mu=3.52	Mu=0.65	Mu=0.00	Mu=0.29
As=227.70	As=227.70	As=227.70	As=257.31	As=257.31	As=273.97	As=227.70	As=227.70	As=227.70
Vu=2.17		Vu=3.74	Vu=-7.21		Vu=6.92	Vu=-3.86		Vu=1.27

VT436/NE+12.95

B=0.15 H=0.50 L=2.10			B=0.15 H=0.50 L=5.00			B=0.15 H=0.80 L=3.83		
Mu=-0.13		Mu=-5.08	Mu=-4.38		Mu=-12.14	Mu=-21.02		Mu=-0.67
As=227.70		As=298.67	As=256.71		As=737.98	As=757.04		As=376.20
Mu=0.92	Mu=0.44	Mu=1.02	Mu=3.04	Mu=3.04	Mu=6.07	Mu=4.20	Mu=0.00	Mu=0.00
As=227.70	As=227.70	As=227.70	As=235.72	As=235.72	As=358.48	As=376.20	As=376.20	As=376.20
Vu=-2.37		Vu=5.61	Vu=-6.13		Vu=8.84	Vu=-10.35		Vu=1.34

VT437/NE+12.95

B=0.15 H=0.50 L=2.10			B=0.15 H=0.50 L=5.13			B=0.15 H=0.80 L=3.70		
Mu=-0.00		Mu=-6.99	Mu=-6.99		Mu=-9.68	Mu=-17.81		Mu=-4.45
As=227.70		As=414.56	As=414.56		As=581.41	As=637.95		As=376.20
Mu=0.80	Mu=0.00	Mu=1.40	Mu=3.49	Mu=3.09	Mu=4.84	Mu=8.90	Mu=4.45	Mu=4.45
As=227.70	As=227.70	As=227.70	As=271.99	As=240.04	As=284.26	As=419.02	As=376.20	As=376.20
Vu=-1.59		Vu=6.39	Vu=-7.27		Vu=8.18	Vu=-8.91		Vu=2.31

VT438/NE+12.95

B=0.15 H=0.50 L=2.10			B=0.15 H=0.50 L=5.25			B=0.15 H=0.80 L=3.65		
Mu=-0.11		Mu=-6.68	Mu=-7.83		Mu=-8.67	Mu=-13.82		Mu=-3.51
As=227.70		As=395.61	As=466.19		As=518.25	As=491.76		As=376.20
Mu=0.51	Mu=0.00	Mu=1.34	Mu=3.91	Mu=3.60	Mu=4.34	Mu=6.91	Mu=3.45	Mu=3.45
As=227.70	As=227.70	As=227.70	As=228.99	As=280.29	As=254.02	As=376.20	As=376.20	As=376.20
Vu=-1.84		Vu=6.14	Vu=-7.73		Vu=8.01	Vu=-7.86		Vu=2.91

VT439/NE+12.95

B=0.15 H=0.80 L=2.10			B=0.15 H=0.80 L=5.85			B=0.15 H=0.80 L=3.00		
Mu=-0.31		Mu=-14.86	Mu=-14.17		Mu=-5.06	Mu=-9.77		Mu=-2.44
As=376.20		As=529.67	As=504.50		As=376.20	As=460.37		As=376.20
Mu=0.00	Mu=0.00	Mu=2.97	Mu=7.09	Mu=3.54	Mu=3.54	Mu=4.89	Mu=2.44	Mu=2.44
As=376.20	As=376.20	As=376.20	As=376.20	As=376.20	As=376.20	As=376.20	As=376.20	As=376.20
Vu=1.03		Vu=8.71	Vu=-9.53		Vu=6.61	Vu=-7.11		Vu=2.39

VT440/NE+12.95

B=0.15 H=0.80 L=2.10			B=0.15 H=0.80 L=6.40			B=0.15 H=0.80 L=2.40		
Mu=-0.81		Mu=-10.08	Mu=-11.22		Mu=-7.67	Mu=-6.04		Mu=-9.63
As=376.20		As=475.21	As=397.55		As=376.20	As=376.20		As=453.67
Mu=0.00	Mu=0.00	Mu=2.02	Mu=5.61	Mu=4.91	Mu=4.91	Mu=3.02	Mu=2.41	Mu=2.41
As=376.20	As=376.20	As=376.20	As=376.20	As=376.20	As=376.20	As=376.20	As=376.20	As=376.20
Vu=-1.06		Vu=7.01	Vu=-9.16		Vu=8.09	Vu=-2.94		Vu=5.22

VT441/NE+12.95

B=0.15 H=0.80 L=2.10			B=0.15 H=0.80 L=6.94			B=0.15 H=0.80 L=1.20		
Mu=-0.77		Mu=-9.09	Mu=-11.46		Mu=-8.37	Mu=-2.44		Mu=-9.77
As=376.20		As=427.86	As=406.21		As=393.51	As=376.20		As=460.37
Mu=0.00	Mu=0.00	Mu=1.82	Mu=5.73	Mu=6.35	Mu=4.18	Mu=2.44	Mu=2.44	Mu=4.89
As=376.20	As=376.20	As=376.20	As=376.20	As=376.20	As=376.20	As=376.20	As=376.20	As=376.20
Vu=-1.43		Vu=6.72	Vu=-9.62		Vu=8.74	Vu=2.99		Vu=8.17

VT442/NE+12.95

B=0.15 H=0.80 L=2.10			B=0.15 H=0.80 L=7.43		
Mu=-0.18		Mu=-11.78	Mu=-13.89		Mu=-9.76
As=376.20		As=417.77	As=494.31		As=459.89
Mu=0.00	Mu=0.00	Mu=2.36	Mu=6.95	Mu=6.47	Mu=6.47
As=376.20	As=376.20	As=376.20	As=376.20	As=376.20	As=376.20
Vu=-0.46		Vu=7.77	Vu=-10.28		Vu=9.19

VT443/NE+12.95

B=0.15 H=0.80 L=1.55		
Mu=-2.15		Mu=-1.50
As=376.20		As=376.20
Mu=1.08	Mu=0.54	Mu=0.75
As=376.20	As=376.20	As=376.20
Vu=-2.83		Vu=2.15

VT444/NE+12.95

B=0.15 H=0.50 L=3.40		
Mu=-3.50		Mu=-3.42
As=272.38		As=266.06
Mu=1.75	Mu=1.78	Mu=1.71
As=227.70	As=227.70	As=227.70
Vu=-5.25		Vu=5.21

VT445/NE+12.95

B=0.15 H=0.50 L=5.30			B=0.15 H=0.80 L=3.48		
Mu=-6.13		Mu=-10.31	Mu=-17.71		Mu=-4.43
As=362.12		As=621.13	As=634.26		As=376.20
Mu=3.93	Mu=3.93	Mu=5.16	Mu=8.85	Mu=4.43	Mu=4.43
As=230.44	As=230.44	As=303.19	As=416.64	As=376.20	As=376.20
Vu=-7.28		Vu=8.65	Vu=-9.09		Vu=1.74

VT446/NE+12.95

B=0.15 H=0.50 L=5.13			B=0.15 H=0.80 L=3.50		
Mu=-5.94		Mu=-9.32	Mu=-5.81		Mu=-5.17
As=350.60		As=558.82	As=376.20		As=376.20
Mu=4.03	Mu=4.03	Mu=4.66	Mu=2.90	Mu=1.45	Mu=2.59
As=246.98	As=246.98	As=273.47	As=376.20	As=376.20	As=376.20
Vu=-7.24		Vu=8.37	Vu=-5.65		Vu=5.36

VT447/NE+12.95

B=0.15 H=0.50 L=4.96			B=0.15 H=0.80 L=6.00		
Mu=-3.20		Mu=-11.66	Mu=-12.04		Mu=-12.18
As=248.71		As=707.11	As=427.17		As=432.24
Mu=2.91	Mu=4.11	Mu=5.83	Mu=6.02	Mu=5.74	Mu=6.09
As=227.70	As=279.50	As=343.93	As=376.20	As=376.20	As=376.20
Vu=-6.20		Vu=9.09	Vu=-9.60		Vu=9.63

VT448/NE+12.95

B=0.15 H=0.50 L=4.80			B=0.15 H=0.80 L=5.56		
Mu=-3.30		Mu=-13.21	Mu=-6.06		Mu=-4.21
As=256.79		As=807.35	As=376.20		As=376.20
Mu=3.30	Mu=4.18	Mu=6.61	Mu=3.03	Mu=1.51	Mu=2.11
As=256.79	As=244.77	As=391.03	As=376.20	As=376.20	As=376.20
Vu=-5.41		Vu=9.56	Vu=-5.98		Vu=5.12

VT449/NE+12.95

B=0.15 H=0.50 L=5.35			B=0.15 H=0.50 L=1.50		
Mu=-5.79		Mu=-7.76	Mu=-5.03		Mu=-0.00
As=341.51		As=461.87	As=295.67		As=227.70
Mu=3.82	Mu=3.82	Mu=3.88	Mu=1.01	Mu=0.00	Mu=0.53
As=297.71	As=297.71	As=302.46	As=227.70	As=227.70	As=227.70
Vu=-6.35		Vu=6.97	Vu=-4.83		Vu=0.27

VT450/NE+12.95

B=0.15 H=0.80 L=5.03			B=0.15 H=0.50 L=1.50		
Mu=-8.47		Mu=-9.80	Mu=-4.54		Mu=-0.00
As=398.28		As=461.80	As=266.28		As=227.70
Mu=4.24	Mu=4.24	Mu=4.90	Mu=0.91	Mu=0.00	Mu=0.38
As=376.20	As=415.92	As=376.20	As=227.70	As=227.70	As=227.70
Vu=-7.14		Vu=10.28	Vu=-4.54		Vu=0.55

VT451/NE+12.95

B=0.20 H=0.80 L=1.97			B=0.20 H=0.80 L=1.57		
Mu=-18.58		Mu=-4.64	Mu=-11.98		Mu=-3.09
As=661.26		As=501.60	As=563.79		As=501.60
Mu=9.29	Mu=4.64	Mu=4.64	Mu=2.40	Mu=0.00	Mu=0.00
As=501.60	As=501.60	As=501.60	As=501.60	As=501.60	As=501.60
Vu=-9.02		Vu=-5.46	Vu=-5.15		Vu=-1.98

VT452/NE+12.95

B=0.15 H=0.50 L=4.80			B=0.15 H=0.80 L=5.66			B=0.15 H=0.80 L=3.00		
Mu=-2.88		Mu=-11.53	Mu=-13.16		Mu=-8.31	Mu=-10.87		Mu=-11.06
As=227.70		As=698.78	As=467.77		As=390.65	As=384.93		As=391.78
Mu=2.88	Mu=3.75	Mu=5.76	Mu=6.58	Mu=3.29	Mu=4.16	Mu=5.43	Mu=2.77	Mu=2.77
As=227.70	As=292.48	As=340.00	As=376.20	As=376.20	As=376.20	As=376.20	As=376.20	As=376.20
Vu=-5.81		Vu=8.95	Vu=-8.65		Vu=7.05	Vu=-4.88		Vu=4.21

VT453/NE+12.95

B=0.15 H=0.50 L=4.80			B=0.15 H=0.80 L=5.05			B=0.15 H=0.80 L=2.67		
Mu=-5.22		Mu=-8.82	Mu=-8.37		Mu=-9.75	Mu=-10.25		Mu=-2.12
As=307.10		As=527.59	As=393.51		As=459.41	As=483.36		As=376.20
Mu=3.40	Mu=3.40	Mu=4.41	Mu=4.18	Mu=2.44	Mu=4.88	Mu=2.05	Mu=0.00	Mu=0.00
As=264.49	As=264.49	As=258.51	As=376.20	As=376.20	As=376.20	As=376.20	As=376.20	As=376.20
Vu=-6.74		Vu=8.02	Vu=-6.92		Vu=7.42	Vu=-6.69		Vu=1.64

VT454/NE+12.95

B=0.15 H=0.80 L=3.83			B=0.15 H=0.80 L=2.01		
Mu=-3.36		Mu=-4.75	Mu=-0.50		Mu=-1.19
As=376.20		As=376.20	As=376.20		As=376.20
Mu=1.68	Mu=1.43	Mu=2.38	Mu=1.64	Mu=1.83	Mu=0.60
As=376.20	As=376.20	As=376.20	As=376.20	As=376.20	As=376.20
Vu=-4.99		Vu=5.66	Vu=-2.31		Vu=4.05

VT455/NE+12.95

B=0.20 H=0.80 L=4.85			B=0.20 H=0.80 L=1.69		
Mu=-6.77		Mu=-8.48	Mu=-11.10		Mu=-5.26
As=501.60		As=501.60	As=521.82		As=501.60
Mu=3.38	Mu=5.26	Mu=4.24	Mu=5.55	Mu=2.78	Mu=2.78
As=501.60	As=501.60	As=501.60	As=501.60	As=501.60	As=501.60
Vu=-8.13		Vu=8.68	Vu=-6.16		Vu=1.95

VT456/NE+12.95

B=0.20 H=0.80 L=0.75			B=0.20 H=0.80 L=7.20		
Mu=-22.90		Mu=-24.13	Mu=-34.79		Mu=-0.00
As=819.40		As=864.75	As=1264.01		As=501.60
Mu=11.45	Mu=6.03	Mu=12.06	Mu=6.96	Mu=0.00	Mu=6.41
As=538.50	As=501.60	As=567.85	As=501.60	As=501.60	As=501.60
Vu=-1.48		Vu=2.00	Vu=-10.79		Vu=-1.88

VT457/NE+12.95

B=0.20 H=0.80 L=1.16			B=0.20 H=0.80 L=5.10			B=0.20 H=0.80 L=1.77		
Mu=-0.15		Mu=-0.35	Mu=-5.17		Mu=-20.67	Mu=-16.11		Mu=-17.36
As=501.60		As=501.60	As=501.60		As=737.55	As=571.62		As=616.91
Mu=0.00	Mu=0.83	Mu=0.44	Mu=5.17	Mu=7.81	Mu=10.34	Mu=8.06	Mu=4.34	Mu=8.68
As=501.60	As=501.60	As=501.60	As=501.60	As=501.60	As=501.60	As=501.60	As=501.60	As=501.60
Vu=-2.51		Vu=1.97	Vu=-6.94		Vu=13.34	Vu=-4.29		Vu=5.09

VT459/NE+12.95

B=0.15 H=0.50 L=4.80		
Mu=-3.31		Mu=-13.25
As=257.58		As=809.96
Mu=3.31	Mu=4.04	Mu=6.63
As=257.58	As=236.43	As=392.25
Vu=-5.22		Vu=9.54

VT460/NE+12.95

B=0.15 H=0.50 L=3.06		
Mu=-6.47		Mu=-8.67
As=382.80		As=518.25
Mu=3.23	Mu=4.77	Mu=4.34
As=251.47	As=280.06	As=254.02
Vu=-7.67		Vu=8.39

VT461/NE+12.95

B=0.15 H=0.50 L=5.60		
Mu=-9.93		Mu=-6.54
As=597.14		As=387.07
Mu=4.97	Mu=3.68	Mu=3.68
As=291.76	As=286.62	As=286.62
Vu=-7.56		Vu=6.56

VT465/NE+12.95

B=0.15 H=0.80 L=2.10			B=0.15 H=0.50 L=5.13			B=0.15 H=0.80 L=3.70		
Mu=-0.00		Mu=-6.99	Mu=-6.99		Mu=-9.68	Mu=-17.81		Mu=-4.45
As=376.20		As=376.20	As=414.56		As=581.41	As=637.95		As=376.20
Mu=0.80	Mu=0.00	Mu=1.40	Mu=3.49	Mu=3.09	Mu=4.84	Mu=8.90	Mu=4.45	Mu=4.45
As=376.20	As=376.20	As=376.20	As=271.99	As=240.04	As=284.26	As=419.02	As=376.20	As=376.20
Vu=-1.59		Vu=6.39	Vu=-7.27		Vu=8.18	Vu=-8.91		Vu=2.31

VT467/NE+12.95

B=0.25 H=0.80 L=5.28		
Mu=-0.00		Mu=-17.46
As=627.00		As=823.66
Mu=1.41	Mu=0.00	Mu=3.49
As=627.00	As=627.00	As=627.00
Vu=-1.31		Vu=10.26

MEMORIAS VIGUETAS PISO 12 NE+50.75m

VT402/NE+12.95m

B=0.20 H=0.80 L=4.47		
Mu=-0.00 As=501.60		Mu=-0.00 As=501.60
Mu=0.30 As=501.60	Mu=3.82 As=501.60	Mu=0.84 As=501.60
Vu=3.02		Vu=-2.79

VT403/NE+12.95m

B=0.20 H=0.80 L=3.10		
Mu=-0.00 As=501.60		Mu=-0.00 As=501.60
Mu=0.20 As=501.60	Mu=1.76 As=501.60	Mu=0.20 As=501.60
Vu=2.01		Vu=-2.01

VT404/NE+12.95m

B=0.15 H=0.80 L=6.47		
Mu=-0.00 As=376.20		Mu=-0.00 As=376.20
Mu=0.32 As=376.20	Mu=7.12 As=376.20	Mu=0.32 As=376.20
Vu=4.21		Vu=-4.21

VT405/NE+12.95m

B=0.15 H=0.80 L=1.30			B=0.15 H=0.80 L=1.30		
Mu=-0.00 As=376.20		Mu=-0.19 As=376.20	Mu=-0.19 As=376.20		Mu=-0.00 As=376.20
Mu=0.05 As=376.20	Mu=0.20 As=376.20	Mu=0.04 As=376.20	Mu=0.04 As=376.20	Mu=0.20 As=376.20	Mu=0.05 As=376.20
Vu=0.66		Vu=-1.03	Vu=1.03		Vu=-0.66

VT406/NE+12.95m

B=0.15 H=0.80 L=1.30		
Mu=-0.00 As=376.20		Mu=-0.00 As=376.20
Mu=0.22 As=376.20	Mu=0.42 As=376.20	Mu=0.07 As=376.20
Vu=0.73		Vu=-0.96

MEMORIAS VIGUETAS PISO 12 NE+50.75m

VT407/NE+12.95m

B=0.15 H=0.80 L=1.30			B=0.15 H=0.80 L=1.30		
Mu=-0.00		Mu=-0.19	Mu=-0.19		Mu=-0.00
As=376.20		As=376.20	As=376.20		As=376.20
Mu=0.05	Mu=0.20	Mu=0.04	Mu=0.04	Mu=0.20	Mu=0.05
As=376.20	As=376.20	As=376.20	As=376.20	As=376.20	As=376.20
Vu=0.66		Vu=-1.03	Vu=1.03		Vu=-0.66

VT408/NE+12.95m

B=0.15 H=0.80 L=1.30			B=0.15 H=0.80 L=1.11		
Mu=-0.00		Mu=-0.13	Mu=-0.16		Mu=-0.00
As=376.20		As=376.20	As=376.20		As=376.20
Mu=0.05	Mu=0.24	Mu=0.03	Mu=0.03	Mu=0.14	Mu=0.04
As=376.20	As=376.20	As=376.20	As=376.20	As=376.20	As=376.20
Vu=0.71		Vu=-0.98	Vu=0.90		Vu=-0.54

VT409/NE+12.95m

B=0.15 H=0.80 L=2.02			B=0.15 H=0.80 L=4.12		
Mu=-0.00		Mu=-2.06	Mu=-1.89		Mu=-0.00
As=376.20		As=376.20	As=376.20		As=376.20
Mu=0.05	Mu=0.00	Mu=0.41	Mu=0.38	Mu=1.90	Mu=0.16
As=376.20	As=376.20	As=376.20	As=376.20	As=376.20	As=376.20
Vu=0.28		Vu=-2.34	Vu=3.18		Vu=-2.18

VT410/NE+12.95m

B=0.20 H=0.80 L=3.07		
Mu=-0.00		Mu=-0.00
As=501.60		As=501.60
Mu=0.57	Mu=1.92	Mu=0.22
As=501.60	As=501.60	As=501.60
Vu=1.88		Vu=-2.11

VT414/NE+12.95m

B=0.20 H=0.80 L=3.14		
Mu=-0.00		Mu=-0.00
As=501.60		As=501.60
Mu=0.52	Mu=7.07	Mu=0.52
As=501.60	As=501.60	As=501.60
Vu=5.19		Vu=-5.19

VT415/NE+12.95m

B=0.20 H=0.80 L=2.22		
Mu=-0.00		Mu=-0.00
As=501.60		As=501.60
Mu=0.14	Mu=0.95	Mu=0.14
As=501.60	As=501.60	As=501.60
Vu=1.44		Vu=-1.44

MEMORIAS VIGUETAS PISO 12 NE+50.75m

VT401/NE+12.95m

B=0.20 H=0.80 L=2.52		
Mu=-0.00 As=501.60		Mu=-0.00 As=501.60
Mu=0.16 As=501.60	Mu=1.20 As=501.60	Mu=0.16 As=501.60
Vu=1.64		Vu=-1.64

VT462/NE+12.95m

B=0.15 H=0.80 L=2.05		
Mu=-0.00 As=376.20		Mu=-0.00 As=376.20
Mu=0.32 As=376.20	Mu=0.95 As=376.20	Mu=0.21 As=376.20
Vu=1.28		Vu=-1.39

VT463/NE+12.95m

B=0.15 H=0.50 L=2.63		
Mu=-0.00 As=227.70		Mu=-0.00 As=227.70
Mu=0.17 As=227.70	Mu=1.29 As=227.70	Mu=0.17 As=227.70
Vu=1.71		Vu=-1.71

VT458/NE+12.95m

B=0.15 H=0.80 L=4.33		
Mu=-0.00 As=376.20		Mu=-0.00 As=376.20
Mu=0.29 As=376.20	Mu=3.54 As=376.20	Mu=0.69 As=376.20
Vu=2.91		Vu=-2.72

VT500/NE+17.15

B=0.20 H=0.80 L=6.91			B=0.20 H=0.80 L=13.25			B=0.20 H=0.80 L=7.00		
Mu=-0.00		Mu=-41.71	Mu=-41.14		Mu=-14.63	Mu=-7.95		Mu=-10.25
As=501.60		As=1529.49	As=1507.43		As=518.17	As=501.60		As=501.60
Mu=0.94	Mu=0.00	Mu=8.34	Mu=20.57	Mu=15.08	Mu=10.28	Mu=3.97	Mu=2.56	Mu=5.13
As=501.60	As=501.60	As=501.60	As=733.89	As=620.40	As=501.60	As=501.60	As=501.60	As=501.60
Vu=2.38		Vu=9.71	Vu=-12.48		Vu=9.10	Vu=-2.95		Vu=3.07

B=0.20 H=0.80 L=7.50		
Mu=-9.75		Mu=-8.13
As=501.60		As=501.60
Mu=4.88	Mu=8.86	Mu=4.07
As=501.60	As=501.60	As=501.60
Vu=-5.31		Vu=6.12

VT512/NE+17.15

B=0.25 H=0.80 L=12.97			B=0.25 H=0.80 L=7.00			B=0.25 H=0.80 L=4.39		
Mu=-21.87		Mu=-41.47	Mu=-34.22		Mu=-8.56	Mu=-2.54		Mu=-5.54
As=777.31		As=1503.53	As=1231.41		As=627.00	As=627.00		As=627.00
Mu=10.94	Mu=21.32	Mu=20.74	Mu=17.11	Mu=8.56	Mu=10.20	Mu=10.17	Mu=7.37	Mu=2.77
As=627.00	As=956.83	As=736.15	As=806.88	As=627.00	As=627.00	As=627.00	As=627.00	As=627.00
Vu=-7.74		Vu=20.83	Vu=-11.78		Vu=0.73	Vu=1.05		Vu=10.56

VT513/NE+17.15

B=0.25 H=0.80 L=13.30			B=0.25 H=0.80 L=14.98		
Mu=-30.85		Mu=-41.11	Mu=-42.74		Mu=-22.48
As=1106.35		As=1489.92	As=1551.64		As=799.47
Mu=15.43	Mu=22.50	Mu=20.56	Mu=21.37	Mu=24.20	Mu=11.24
As=726.23	As=801.15	As=729.63	As=759.17	As=862.11	As=627.00
Vu=-12.71		Vu=14.81	Vu=-14.98		Vu=2.22

VT514/NE+17.15

B=0.15 H=0.80 L=9.20			B=0.15 H=0.80 L=11.20			B=0.15 H=0.80 L=11.20		
Mu=-0.00		Mu=-11.02	Mu=-9.99		Mu=-7.03	Mu=-8.20		Mu=-8.28
As=376.20		As=390.34	As=470.90		As=376.20	As=385.41		As=389.22
Mu=5.74	Mu=6.48	Mu=2.20	Mu=4.99	Mu=5.91	Mu=3.52	Mu=4.10	Mu=5.94	Mu=4.14
As=376.20	As=376.20	As=376.20	As=376.20	As=376.20	As=376.20	As=376.20	As=376.20	As=376.20
Vu=-0.48		Vu=3.78	Vu=-3.24		Vu=2.82	Vu=-2.69		Vu=3.15

B=0.15 H=0.80 L=9.21		
Mu=-10.58		Mu=-0.00
As=499.19		As=376.20
Mu=2.12	Mu=5.78	Mu=5.19
As=376.20	As=376.20	As=376.20
Vu=-3.20		Vu=0.78

VT515/NE+17.15

B=0.15 H=0.50 L=5.60		
Mu=-9.65		Mu=-6.30
As=579.52		As=372.46
Mu=4.82	Mu=3.26	Mu=3.26
As=283.36	As=253.44	As=253.44
Vu=-7.15		Vu=6.16

VT516/NE+17.15

B=0.15 H=0.50 L=5.70			B=0.15 H=0.50 L=1.50		
Mu=-9.65		Mu=-6.30	Mu=-4.13		Mu=-0.00
As=579.52		As=372.46	As=241.79		As=227.70
Mu=4.82	Mu=3.26	Mu=3.26	Mu=0.83	Mu=0.00	Mu=0.43
As=283.36	As=253.44	As=253.44	As=227.70	As=227.70	As=227.70
Vu=-7.15		Vu=6.16	Vu=-4.25		Vu=0.58

VT517/NE+17.15

B=0.20 H=0.80 L=1.00			B=0.20 H=0.80 L=5.95			B=0.20 H=0.80 L=11.20		
Mu=-1.53		Mu=-0.81	Mu=-4.39		Mu=-17.54	Mu=-16.51		Mu=-16.30
As=501.60		As=501.60	As=501.60		As=623.45	As=586.10		As=578.49
Mu=0.81	Mu=1.08	Mu=3.23	Mu=4.39	Mu=4.39	Mu=8.77	Mu=8.26	Mu=9.68	Mu=8.15
As=501.60	As=501.60	As=501.60	As=501.60	As=501.60	As=501.60	As=501.60	As=501.60	As=501.60
Vu=-3.33		Vu=-2.59	Vu=1.56		Vu=5.01	Vu=-7.90		Vu=7.71

B=0.20 H=0.80 L=11.20			B=0.20 H=0.80 L=11.20			B=0.20 H=0.80 L=11.15		
Mu=-16.80		Mu=-15.85	Mu=-16.49		Mu=-16.22	Mu=-17.04		Mu=-14.24
As=596.60		As=562.21	As=585.37		As=575.60	As=605.30		As=504.11
Mu=8.40	Mu=9.23	Mu=7.93	Mu=8.24	Mu=9.23	Mu=8.11	Mu=8.52	Mu=9.61	Mu=7.12
As=501.60	As=501.60	As=501.60	As=501.60	As=501.60	As=501.60	As=501.60	As=501.60	As=501.60
Vu=-7.63		Vu=7.59	Vu=-7.57		Vu=7.67	Vu=-7.69		Vu=7.44

B=0.20 H=0.80 L=9.50			B=0.20 H=0.80 L=0.35		
Mu=-13.59		Mu=-3.40	Mu=-4.13		Mu=-16.53
As=640.80		As=501.60	As=501.60		As=586.82
Mu=6.80	Mu=7.54	Mu=3.40	Mu=4.13	Mu=4.13	Mu=4.13
As=501.60	As=501.60	As=501.60	As=501.60	As=501.60	As=501.60
Vu=-7.33		Vu=4.87	Vu=6.89		Vu=9.08

VT518/NE+17.15

B=0.20 H=0.80 L=3.03			B=0.20 H=0.80 L=4.86			B=0.20 H=0.80 L=1.34		
Mu=-0.00		Mu=-5.83	Mu=-3.94		Mu=-15.76	Mu=-9.21		Mu=-13.03
As=501.60		As=501.60	As=501.60		As=558.96	As=501.60		As=613.98
Mu=1.45	Mu=1.17	Mu=1.17	Mu=8.64	Mu=10.13	Mu=7.88	Mu=4.61	Mu=3.26	Mu=6.51
As=501.60	As=501.60	As=501.60	As=519.25	As=561.79	As=501.60	As=501.60	As=501.60	As=501.60
Vu=-0.65		Vu=5.31	Vu=-4.91		Vu=12.40	Vu=1.98		Vu=5.58

VT519/NE+17.15

B=0.20 H=0.80 L=6.08			B=0.20 H=0.80 L=1.60		
Mu=-15.10		Mu=-18.70	Mu=-15.21		Mu=-1.62
As=539.36		As=665.63	As=539.09		As=501.60
Mu=7.55	Mu=4.68	Mu=9.35	Mu=3.04	Mu=0.00	Mu=0.00
As=501.60	As=501.60	As=501.60	As=501.60	As=501.60	As=501.60
Vu=-5.86		Vu=6.88	Vu=-7.65		Vu=-3.06

VT520/NE+17.15

B=0.15 H=0.50 L=3.40			B=0.15 H=0.80 L=2.91		
Mu=-5.04		Mu=-6.15	Mu=-5.09		Mu=-20.38
As=296.27		As=363.34	As=376.20		As=733.19
Mu=2.52	Mu=3.84	Mu=3.08	Mu=10.51	Mu=5.09	Mu=10.19
As=227.70	As=299.29	As=238.86	As=495.83	As=376.20	As=480.48
Vu=-5.92		Vu=6.28	Vu=8.11		Vu=15.03

VT522/NE+17.15

B=0.15 H=0.80 L=5.70		
Mu=-14.97		Mu=-11.04
As=533.69		As=391.06
Mu=7.49	Mu=3.74	Mu=5.52
As=376.20	As=376.20	As=376.20
Vu=-7.55		Vu=6.36

VT523/NE+17.15

B=0.20 H=0.80 L=2.10			B=0.20 H=0.80 L=4.75			B=0.20 H=0.80 L=3.72		
Mu=-0.30		Mu=-8.85	Mu=-7.59		Mu=-1.90	Mu=-8.13		Mu=-32.53
As=501.60		As=501.60	As=501.60		As=501.60	As=501.60		As=1178.41
Mu=0.00	Mu=0.00	Mu=1.77	Mu=3.80	Mu=6.12	Mu=1.90	Mu=10.43	Mu=8.13	Mu=16.26
As=501.60	As=501.60	As=501.60	As=501.60	As=501.60	As=501.60	As=501.60	As=501.60	As=577.22
Vu=-0.38		Vu=6.01	Vu=-7.69		Vu=5.27	Vu=5.94		Vu=15.90

VT524/NE+17.15

B=0.15 H=0.80 L=2.10			B=0.15 H=0.80 L=4.75			B=0.15 H=0.80 L=2.61		
Mu=-0.33		Mu=-12.51	Mu=-15.17		Mu=-3.79	Mu=-3.33		Mu=-13.31
As=376.20		As=444.19	As=541.00		As=376.20	As=376.20		As=473.22
Mu=0.00	Mu=0.00	Mu=2.50	Mu=7.59	Mu=7.59	Mu=3.79	Mu=7.08	Mu=3.33	Mu=6.66
As=376.20	As=376.20	As=376.20	As=376.20	As=376.20	As=376.20	As=376.20	As=376.20	As=376.20
Vu=1.16		Vu=7.20	Vu=-12.33		Vu=7.85	Vu=4.85		Vu=11.23

VT526/NE+17.15

B=0.15 H=0.80 L=5.21			B=0.15 H=0.80 L=5.70			B=0.15 H=0.80 L=1.50		
Mu=-0.26		Mu=-11.46	Mu=-14.97		Mu=-11.04	Mu=-4.31		Mu=-0.00
As=376.20		As=406.21	As=533.69		As=391.06	As=376.20		As=376.20
Mu=1.46	Mu=6.28	Mu=2.29	Mu=7.49	Mu=3.74	Mu=5.52	Mu=0.86	Mu=0.00	Mu=0.63
As=376.20	As=376.20	As=376.20	As=376.20	As=376.20	As=376.20	As=376.20	As=376.20	As=376.20
Vu=-6.10		Vu=9.76	Vu=-7.55		Vu=6.36	Vu=-4.42		Vu=0.35

VT527/NE+17.15

B=0.15 H=0.80 L=2.35			B=0.15 H=0.50 L=5.70			B=0.15 H=0.50 L=1.50		
Mu=-0.00		Mu=-8.49	Mu=-8.29		Mu=-7.79	Mu=-3.65		Mu=-0.00
As=376.20		As=399.23	As=494.64		As=463.72	As=284.25		As=227.70
Mu=4.25	Mu=0.36	Mu=1.70	Mu=4.14	Mu=2.97	Mu=3.89	Mu=0.73	Mu=0.00	Mu=0.21
As=376.20	As=376.20	As=376.20	As=242.69	As=230.60	As=227.80	As=227.70	As=227.70	As=227.70
Vu=1.31		Vu=7.96	Vu=-6.66		Vu=6.52	Vu=-3.91		Vu=0.89

VT528/NE+17.15

B=0.15 H=0.50 L=2.10			B=0.15 H=0.50 L=4.75			B=0.15 H=0.80 L=8.50		
Mu=-0.00		Mu=-5.91	Mu=-6.64		Mu=-4.94	Mu=-12.69		Mu=-11.51
As=227.70		As=348.78	As=393.17		As=290.26	As=450.71		As=408.02
Mu=0.51	Mu=0.00	Mu=1.18	Mu=3.32	Mu=2.02	Mu=2.47	Mu=6.34	Mu=4.26	Mu=5.76
As=227.70	As=227.70	As=227.70	As=258.17	As=227.70	As=227.70	As=376.20	As=376.20	As=376.20
Vu=-0.98		Vu=5.04	Vu=-5.85		Vu=5.25	Vu=-9.42		Vu=9.05

VT529/NE+17.15

B=0.15 H=0.50 L=2.10			B=0.15 H=0.50 L=4.75			B=0.15 H=0.80 L=6.81		
Mu=-0.06		Mu=-4.26	Mu=-4.87		Mu=-7.43	Mu=-22.91		Mu=-0.00
As=227.70		As=249.55	As=286.06		As=441.55	As=827.79		As=376.20
Mu=0.59	Mu=0.14	Mu=0.85	Mu=2.43	Mu=1.86	Mu=3.71	Mu=4.58	Mu=8.08	Mu=3.36
As=227.70	As=227.70	As=227.70	As=227.70	As=227.70	As=289.39	As=376.20	As=379.51	As=376.20
Vu=-1.64		Vu=4.39	Vu=-5.10		Vu=6.01	Vu=-12.85		Vu=6.89

VT530/NE+17.15

B=0.15 H=0.50 L=2.10			B=0.15 H=0.50 L=4.75			B=0.15 H=0.80 L=4.97		
Mu=-0.06		Mu=-4.26	Mu=-4.87		Mu=-7.43	Mu=-22.91		Mu=-0.00
As=227.70		As=249.55	As=286.06		As=441.55	As=827.79		As=376.20
Mu=0.59	Mu=0.14	Mu=0.85	Mu=2.43	Mu=1.86	Mu=3.71	Mu=4.58	Mu=8.08	Mu=3.36
As=227.70	As=227.70	As=227.70	As=227.70	As=227.70	As=289.39	As=376.20	As=379.51	As=376.20
Vu=-1.64		Vu=4.39	Vu=-5.10		Vu=6.01	Vu=-12.85		Vu=6.89

VT531/NE+17.15

B=0.15 H=0.50 L=2.10			B=0.15 H=0.50 L=4.90			B=0.15 H=0.80 L=3.93		
Mu=-0.06		Mu=-4.26	Mu=-4.87		Mu=-7.43	Mu=-22.91		Mu=-0.00
As=227.70		As=249.55	As=286.06		As=441.55	As=827.79		As=376.20
Mu=0.59	Mu=0.14	Mu=0.85	Mu=2.43	Mu=1.86	Mu=3.71	Mu=4.58	Mu=8.08	Mu=3.36
As=227.70	As=227.70	As=227.70	As=227.70	As=227.70	As=289.39	As=376.20	As=379.51	As=376.20
Vu=-1.64		Vu=4.39	Vu=-5.10		Vu=6.01	Vu=-12.85		Vu=6.89

VT532/NE+17.15

B=0.15 H=0.50 L=0.64			B=0.15 H=0.50 L=5.70			B=0.15 H=0.50 L=1.50		
Mu=-0.00		Mu=-1.73	Mu=-8.17		Mu=-6.51	Mu=-2.97		Mu=-0.10
As=227.70		As=227.70	As=487.21		As=385.24	As=230.60		As=227.70
Mu=0.02	Mu=0.00	Mu=0.35	Mu=4.09	Mu=3.89	Mu=3.89	Mu=0.59	Mu=0.00	Mu=0.27
As=227.70	As=227.70	As=227.70	As=239.11	As=303.26	As=303.26	As=227.70	As=227.70	As=227.70
Vu=1.61		Vu=3.08	Vu=-6.90		Vu=6.41	Vu=-3.59		Vu=1.24

VT533/NE+17.15

B=0.15 H=0.50 L=2.10			B=0.15 H=0.50 L=5.13			B=0.15 H=0.80 L=3.70		
Mu=-0.06		Mu=-4.26	Mu=-4.87		Mu=-7.43	Mu=-22.91		Mu=-0.00
As=227.70		As=249.55	As=286.06		As=441.55	As=827.79		As=376.20
Mu=0.59	Mu=0.14	Mu=0.85	Mu=2.43	Mu=1.86	Mu=3.71	Mu=4.58	Mu=8.08	Mu=3.36
As=227.70	As=227.70	As=227.70	As=227.70	As=227.70	As=289.39	As=376.20	As=379.51	As=376.20
Vu=-1.64		Vu=4.39	Vu=-5.10		Vu=6.01	Vu=-12.85		Vu=6.89

VT534/NE+17.15

B=0.15 H=0.50 L=2.10			B=0.15 H=0.50 L=5.13			B=0.15 H=0.80 L=3.70		
Mu=-0.23		Mu=-4.58	Mu=-6.16		Mu=-6.39	Mu=-8.54		Mu=-2.64
As=227.70		As=268.67	As=363.95		As=377.93	As=401.61		As=376.20
Mu=0.00	Mu=0.39	Mu=0.92	Mu=3.08	Mu=2.68	Mu=3.19	Mu=4.27	Mu=2.13	Mu=2.13
As=227.70	As=227.70	As=227.70	As=239.26	As=227.70	As=248.32	As=376.20	As=376.20	As=376.20
Vu=-1.59		Vu=4.44	Vu=-5.90		Vu=5.98	Vu=-6.81		Vu=3.97

VT535/NE+17.15

B=0.15 H=0.80 L=2.10			B=0.15 H=0.50 L=5.13			B=0.15 H=0.80 L=3.70		
Mu=-0.23		Mu=-4.58	Mu=-6.16		Mu=-6.39	Mu=-8.54		Mu=-2.64
As=376.20		As=376.20	As=363.95		As=377.93	As=401.61		As=376.20
Mu=0.00	Mu=0.39	Mu=0.92	Mu=3.08	Mu=2.68	Mu=3.19	Mu=4.27	Mu=2.13	Mu=2.13
As=376.20	As=376.20	As=376.20	As=239.26	As=227.70	As=248.32	As=376.20	As=376.20	As=376.20
Vu=-1.59		Vu=4.44	Vu=-5.90		Vu=5.98	Vu=-6.81		Vu=3.97

VT536/NE+17.15

B=0.15 H=0.80 L=2.10			B=0.15 H=0.80 L=5.85			B=0.15 H=0.80 L=3.00		
Mu=-0.36		Mu=-12.86	Mu=-13.47		Mu=-5.24	Mu=-9.02		Mu=-0.83
As=376.20		As=456.88	As=479.03		As=376.20	As=424.51		As=376.20
Mu=0.00	Mu=0.00	Mu=2.57	Mu=6.74	Mu=5.67	Mu=3.37	Mu=1.80	Mu=1.01	Mu=0.00
As=376.20	As=376.20	As=376.20	As=376.20	As=376.20	As=376.20	As=376.20	As=376.20	As=376.20
Vu=-0.67		Vu=8.78	Vu=-10.86		Vu=8.22	Vu=-7.85		Vu=3.39

VT537/NE+17.15

B=0.15 H=0.80 L=2.10			B=0.15 H=0.80 L=6.40			B=0.15 H=0.80 L=2.40		
Mu=-0.71		Mu=-9.20	Mu=-10.07		Mu=-8.02	Mu=-5.79		Mu=-6.37
As=376.20		As=433.11	As=474.73		As=376.85	As=376.20		As=376.20
Mu=0.00	Mu=0.00	Mu=1.84	Mu=5.03	Mu=7.93	Mu=4.01	Mu=2.89	Mu=1.59	Mu=1.59
As=376.20	As=376.20	As=376.20	As=376.20	As=376.20	As=376.20	As=376.20	As=376.20	As=376.20
Vu=-2.04		Vu=7.49	Vu=-10.50		Vu=9.89	Vu=-4.64		Vu=5.01

VT538/NE+17.15

B=0.15 H=0.80 L=2.10			B=0.15 H=0.80 L=6.94			B=0.15 H=0.80 L=1.20		
Mu=-0.73		Mu=-5.11	Mu=-11.44		Mu=-11.47	Mu=-4.76		Mu=-19.02
As=376.20		As=376.20	As=405.49		As=406.57	As=376.20		As=682.68
Mu=0.00	Mu=0.98	Mu=1.02	Mu=5.72	Mu=6.96	Mu=5.74	Mu=4.76	Mu=4.76	Mu=9.51
As=376.20	As=376.20	As=376.20	As=376.20	As=376.20	As=376.20	As=376.20	As=376.20	As=447.93
Vu=-3.22		Vu=6.00	Vu=-10.39		Vu=10.40	Vu=6.05		Vu=12.50

VT539/NE+17.15

B=0.15 H=0.50 L=2.10			B=0.15 H=0.50 L=7.43		
Mu=-0.19		Mu=-6.12	Mu=-13.18		Mu=-13.37
As=227.70		As=361.52	As=805.39		As=817.79
Mu=0.00	Mu=1.11	Mu=1.22	Mu=6.59	Mu=7.44	Mu=6.68
As=227.70	As=227.70	As=227.70	As=390.12	As=442.17	As=395.91
Vu=-2.79		Vu=6.52	Vu=-11.00		Vu=11.05

VT540/NE+17.15

B=0.15 H=0.50 L=1.55		
Mu=-2.27		Mu=-1.61
As=227.70		As=227.70
Mu=1.13	Mu=0.57	Mu=0.81
As=227.70	As=227.70	As=227.70
Vu=-3.14		Vu=2.45

VT541/NE+17.15

B=0.15 H=0.50 L=3.40		
Mu=-4.11		Mu=-3.75
As=240.60		As=292.16
Mu=2.06	Mu=1.95	Mu=1.95
As=227.70	As=227.70	As=227.70
Vu=-5.96		Vu=5.78

VT542/NE+17.15

B=0.15 H=0.50 L=5.30			B=0.15 H=0.80 L=3.48		
Mu=-7.32		Mu=-10.29	Mu=-12.80		Mu=-3.20
As=434.79		As=619.86	As=454.70		As=376.20
Mu=4.84	Mu=4.84	Mu=5.14	Mu=6.40	Mu=3.20	Mu=3.20
As=284.26	As=284.26	As=302.58	As=376.20	As=376.20	As=376.20
Vu=-8.46		Vu=9.43	Vu=-9.01		Vu=3.80

VT543/NE+17.15

B=0.25 H=0.80 L=5.28		
Mu=-0.00		Mu=-18.95
As=627.00		As=671.60
Mu=1.31	Mu=0.00	Mu=3.79
As=627.00	As=627.00	As=627.00
Vu=-0.98		Vu=8.67

VT544/NE+17.15

B=0.15 H=0.50 L=5.13			B=0.15 H=0.80 L=3.50		
Mu=-4.65		Mu=-7.22	Mu=-5.11		Mu=-5.27
As=272.87		As=428.66	As=376.20		As=376.20
Mu=2.87	Mu=2.87	Mu=3.61	Mu=2.56	Mu=1.32	Mu=2.63
As=227.70	As=227.70	As=281.08	As=376.20	As=376.20	As=376.20
Vu=-5.47		Vu=6.32	Vu=-5.47		Vu=5.54

VT545/NE+17.15

B=0.15 H=0.50 L=4.96			B=0.15 H=0.80 L=6.00		
Mu=-2.45		Mu=-9.13	Mu=-12.08		Mu=-11.06
As=227.70		As=546.93	As=428.62		As=391.78
Mu=2.28	Mu=2.95	Mu=4.57	Mu=6.04	Mu=6.28	Mu=5.53
As=227.70	As=229.03	As=267.78	As=376.20	As=376.20	As=376.20
Vu=-4.63		Vu=6.91	Vu=-9.75		Vu=9.48

VT546/NE+17.15

B=0.15 H=0.50 L=4.80			B=0.15 H=0.80 L=5.56		
Mu=-0.97		Mu=-10.27	Mu=-6.19		Mu=-3.43
As=227.70		As=618.60	As=376.20		As=376.20
Mu=0.00	Mu=2.48	Mu=2.05	Mu=3.10	Mu=1.55	Mu=1.72
As=227.70	As=236.90	As=227.70	As=376.20	As=376.20	As=376.20
Vu=-4.03		Vu=7.27	Vu=-6.19		Vu=4.91

VT547/NE+17.15

B=0.15 H=0.50 L=5.21			B=0.15 H=0.50 L=1.61		
Mu=-5.69		Mu=-6.67	Mu=-3.88		Mu=-0.00
As=335.46		As=395.00	As=302.46		As=227.70
Mu=2.85	Mu=3.43	Mu=3.34	Mu=0.78	Mu=0.00	Mu=0.36
As=227.70	As=266.85	As=259.36	As=227.70	As=227.70	As=227.70
Vu=-6.00		Vu=6.31	Vu=-4.09		Vu=0.96

VT548/NE+17.15

B=0.15 H=0.80 L=4.80			B=0.15 H=0.80 L=1.73		
Mu=-4.01		Mu=-5.81	Mu=-5.17		Mu=-0.36
As=376.20		As=376.20	As=376.20		As=376.20
Mu=2.01	Mu=3.75	Mu=2.90	Mu=1.03	Mu=0.00	Mu=0.00
As=376.20	As=376.20	As=376.20	As=376.20	As=376.20	As=376.20
Vu=-5.72		Vu=6.35	Vu=-4.61		Vu=1.01

VT549/NE+17.15

B=0.15 H=0.50 L=4.80			B=0.15 H=0.80 L=5.60		
Mu=-2.23		Mu=-8.91	Mu=-12.41		Mu=-4.96
As=227.70		As=533.20	As=440.57		As=376.20
Mu=2.23	Mu=2.76	Mu=4.45	Mu=6.20	Mu=3.10	Mu=3.10
As=227.70	As=227.70	As=261.20	As=376.20	As=376.20	As=376.20
Vu=-4.35		Vu=6.80	Vu=-8.98		Vu=6.49

VT550/NE+17.15

B=0.15 H=0.80 L=4.36			B=0.15 H=0.80 L=1.85		
Mu=-6.47		Mu=-5.35	Mu=-4.08		Mu=-0.39
As=376.20		As=376.20	As=376.20		As=376.20
Mu=3.23	Mu=2.99	Mu=2.99	Mu=0.82	Mu=0.58	Mu=0.00
As=376.20	As=376.20	As=376.20	As=376.20	As=376.20	As=376.20
Vu=-7.00		Vu=6.58	Vu=-4.93		Vu=2.28

VT551/NE+17.15

B=0.15 H=0.50 L=4.80			B=0.15 H=0.80 L=4.97		
Mu=-3.97		Mu=-6.74	Mu=-7.24		Mu=-7.03
As=232.26		As=399.27	As=376.20		As=376.20
Mu=2.52	Mu=2.52	Mu=3.37	Mu=3.62	Mu=2.41	Mu=3.52
As=227.70	As=227.70	As=262.12	As=376.20	As=376.20	As=376.20
Vu=-5.08		Vu=6.06	Vu=-7.07		Vu=6.99

VT552/NE+17.15

B=0.15 H=0.80 L=3.97			B=0.15 H=0.80 L=1.96		
Mu=-7.39		Mu=-4.91	Mu=-4.55		Mu=-0.18
As=376.20		As=376.20	As=376.20		As=376.20
Mu=3.69	Mu=1.85	Mu=2.45	Mu=0.91	Mu=0.77	Mu=0.00
As=376.20	As=376.20	As=376.20	As=376.20	As=376.20	As=376.20
Vu=-6.67		Vu=5.62	Vu=-5.25		Vu=2.23

VT553/NE+17.15

B=0.15 H=0.80 L=3.81			B=0.15 H=0.80 L=1.24		
Mu=-2.67		Mu=-4.48	Mu=-2.67		Mu=-4.48
As=376.20		As=376.20	As=376.20		As=376.20
Mu=1.59	Mu=1.59	Mu=2.24	Mu=1.34	Mu=1.59	Mu=1.12
As=376.20	As=376.20	As=376.20	As=376.20	As=376.20	As=376.20
Vu=-4.72		Vu=5.63	Vu=-4.72		Vu=5.63

VT554/NE+17.15

B=0.15 H=0.80 L=3.05			B=0.15 H=0.80 L=0.97		
Mu=-7.39		Mu=-4.91	Mu=-4.55		Mu=-0.18
As=376.20		As=376.20	As=376.20		As=376.20
Mu=3.69	Mu=1.85	Mu=2.45	Mu=0.91	Mu=0.77	Mu=0.00
As=376.20	As=376.20	As=376.20	As=376.20	As=376.20	As=376.20
Vu=-6.67		Vu=5.62	Vu=-5.25		Vu=2.23

VT555/NE+17.15

B=0.20 H=0.80 L=4.85			B=0.20 H=0.80 L=1.69		
Mu=-5.63		Mu=-6.03	Mu=-7.82		Mu=-0.00
As=501.60		As=501.60	As=501.60		As=501.60
Mu=2.82	Mu=4.05	Mu=3.02	Mu=1.56	Mu=0.36	Mu=2.51
As=501.60	As=501.60	As=501.60	As=501.60	As=501.60	As=501.60
Vu=-6.38		Vu=6.51	Vu=-7.31		Vu=0.65

VT556/NE+17.15

B=0.15 H=0.50 L=3.06		
Mu=-4.95		Mu=-6.35
As=290.86		As=375.50
Mu=2.47	Mu=3.67	Mu=3.17
As=227.70	As=285.83	As=246.74
Vu=-5.83		Vu=6.29

VT557/NE+17.15

B=0.20 H=0.80 L=0.67			B=0.20 H=0.80 L=4.40			B=0.20 H=0.80 L=2.05		
Mu=-1.71		Mu=-6.84	Mu=-1.71		Mu=-6.84	Mu=-6.96		Mu=-10.95
As=501.60		As=501.60	As=501.60		As=501.60	As=501.60		As=514.68
Mu=1.71	Mu=2.08	Mu=3.42	Mu=1.71	Mu=2.08	Mu=3.42	Mu=3.48	Mu=2.74	Mu=2.74
As=501.60	As=501.60	As=501.60	As=501.60	As=501.60	As=501.60	As=501.60	As=501.60	As=501.60
Vu=-3.95		Vu=6.57	Vu=-3.95		Vu=6.57	Vu=-4.12		Vu=6.01

VT558/NE+17.15

B=0.20 H=0.80 L=1.16			B=0.20 H=0.80 L=5.05			B=0.20 H=0.80 L=1.83		
Mu=-0.16		Mu=-0.07	Mu=-4.38		Mu=-17.51	Mu=-11.80		Mu=-7.42
As=501.60		As=501.60	As=501.60		As=622.36	As=555.20		As=501.60
Mu=0.00	Mu=0.67	Mu=0.30	Mu=4.38	Mu=6.80	Mu=8.76	Mu=5.90	Mu=2.95	Mu=3.71
As=501.60	As=501.60	As=501.60	As=501.60	As=501.60	As=501.60	As=501.60	As=501.60	As=501.60
Vu=-2.15		Vu=1.75	Vu=-6.40		Vu=11.40	Vu=-6.12		Vu=3.33

VT560/NE+17.15

B=0.15 H=0.50 L=4.80		
Mu=-0.75		Mu=-10.28
As=227.70		As=619.23
Mu=0.00	Mu=2.36	Mu=2.06
As=227.70	As=230.29	As=227.70
Vu=-3.89		Vu=7.26

VT561/NE+17.15

B=0.15 H=0.80 L=4.29		
Mu=-1.21		Mu=-3.39
As=376.20		As=376.20
Mu=0.92	Mu=3.66	Mu=1.70
As=376.20	As=376.20	As=376.20
Vu=-5.05		Vu=6.06

VT563/NE+17.15

B=0.15 H=0.80 L=1.99		
Mu=-1.99		Mu=-2.68
As=376.20		As=376.20
Mu=1.00	Mu=2.35	Mu=1.34
As=376.20	As=376.20	As=376.20
Vu=-4.74		Vu=5.11

VT564/NE+17.15

B=0.25 H=0.80 L=6.81		
Mu=-0.00		Mu=-27.46
As=627.00		As=981.42
Mu=13.97	Mu=7.81	Mu=5.49
As=686.84	As=627.00	As=627.00
Vu=-1.80		Vu=14.24

MEMORIAS VIGUETAS PISO 12 NE+50.75m

VT502/NE+17.15m

B=0.20 H=0.80 L=4.47		
Mu=-0.00		Mu=-0.00
As=501.60		As=501.60
Mu=0.23	Mu=2.88	Mu=0.63
As=501.60	As=501.60	As=501.60
Vu=2.28		Vu=-2.10

VT503/NE+17.15m

B=0.20 H=0.80 L=3.10		
Mu=-0.00		Mu=-0.00
As=501.60		As=501.60
Mu=0.15	Mu=1.33	Mu=0.15
As=501.60	As=501.60	As=501.60
Vu=1.52		Vu=-1.52

VT504/NE+17.15m

B=0.15 H=0.80 L=6.47		
Mu=-0.00		Mu=-0.00
As=376.20		As=376.20
Mu=0.24	Mu=5.37	Mu=0.24
As=376.20	As=376.20	As=376.20
Vu=3.17		Vu=-3.17

VT505/NE+17.15m

B=0.15 H=0.80 L=1.30			B=0.15 H=0.80 L=1.30		
Mu=-0.14		Mu=-0.03	Mu=-0.14		Mu=-0.00
As=376.20		As=376.20	As=376.20		As=376.20
Mu=0.05	Mu=0.15	Mu=0.04	Mu=0.03	Mu=0.15	Mu=0.04
As=376.20	As=376.20	As=376.20	As=376.20	As=376.20	As=376.20
Vu=0.78		Vu=-0.50	Vu=0.78		Vu=-0.50

VT506/NE+17.15m

B=0.15 H=0.80 L=1.30		
Mu=-0.00		Mu=-0.00
As=376.20		As=376.20
Mu=0.17	Mu=0.32	Mu=0.05
As=376.20	As=376.20	As=376.20
Vu=0.55		Vu=-0.72

MEMORIAS VIGUETAS PISO 12 NE+50.75m

VT507/NE+17.15m

B=0.15 H=0.80 L=1.30			B=0.15 H=0.80 L=1.30		
Mu=-0.00		Mu=-0.14	Mu=-0.14		Mu=-0.00
As=376.20		As=376.20	As=376.20		As=376.20
Mu=0.04	Mu=0.15	Mu=0.03	Mu=0.03	Mu=0.15	Mu=0.04
As=376.20	As=376.20	As=376.20	As=376.20	As=376.20	As=376.20
Vu=0.50		Vu=-0.78	Vu=0.78		Vu=-0.50

VT508/NE+17.15m

B=0.15 H=0.80 L=1.30			B=0.15 H=0.80 L=1.11		
Mu=-0.00		Mu=-0.09	Mu=-0.12		Mu=-0.00
As=376.20		As=376.20	As=376.20		As=376.20
Mu=0.04	Mu=0.18	Mu=0.02	Mu=0.02	Mu=0.11	Mu=0.03
As=376.20	As=376.20	As=376.20	As=376.20	As=376.20	As=376.20
Vu=0.53		Vu=-0.74	Vu=0.68		Vu=-0.41

VT510/NE+17.15m

B=0.20 H=0.80 L=3.07		
Mu=-0.00		Mu=-0.00
As=501.60		As=501.60
Mu=0.43	Mu=1.45	Mu=0.17
As=501.60	As=501.60	As=501.60
Vu=1.42		Vu=-1.59

VT511/NE+17.15m

B=0.20 H=0.80 L=2.22		
Mu=-0.00		Mu=-0.00
As=501.60		As=501.60
Mu=0.11	Mu=0.71	Mu=0.11
As=501.60	As=501.60	As=501.60
Vu=1.09		Vu=-1.09

VT501/NE+17.15m

B=0.20 H=0.80 L=2.52		
Mu=-0.00		Mu=-0.00
As=501.60		As=501.60
Mu=0.12	Mu=0.90	Mu=0.12
As=501.60	As=501.60	As=501.60
Vu=1.23		Vu=-1.23

VT559/NE+17.15m

B=0.20 H=0.80 L=3.14		
Mu=-0.00		Mu=-0.00
As=501.60		As=501.60
Mu=0.15	Mu=1.36	Mu=0.15
As=501.60	As=501.60	As=501.60
Vu=1.54		Vu=-1.54

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MEMORIAS VIGUETAS PISO 12 NE+50.75m

VT562/NE+17.15m

B=0.15 H=0.80 L=2.05		
Mu=-0.00 As=376.20		Mu=-0.00 As=376.20
Mu=0.24 As=376.20	Mu=0.71 As=376.20	Mu=0.16 As=376.20
Vu=0.96		Vu=-1.05

VT600/NE+21.35

B=0.20 H=0.80 L=6.91			B=0.20 H=0.80 L=13.25			B=0.20 H=0.80 L=3.33		
Mu=-0.51		Mu=-37.78	Mu=-39.72		Mu=-21.21	Mu=-20.26		Mu=-4.20
As=501.60		As=1378.09	As=1452.62		As=757.33	As=722.55		As=501.60
Mu=0.00	Mu=0.00	Mu=7.56	Mu=19.86	Mu=13.39	Mu=13.64	Mu=4.05	Mu=0.00	Mu=0.00
As=501.60	As=501.60	As=501.60	As=707.94	As=643.20	As=643.20	As=501.60	As=501.60	As=501.60
Vu=1.75		Vu=8.63	Vu=-12.10		Vu=9.79	Vu=-7.33		Vu=-4.14

VT604/NE+21.35

B=0.15 H=0.80 L=4.34		
Mu=-1.59		Mu=-0.60
As=376.20		As=376.20
Mu=0.32	Mu=3.13	Mu=0.00
As=376.20	As=376.20	As=376.20
Vu=-4.71		Vu=3.38

VT607/NE+21.35

B=0.20 H=0.80 L=12.87			B=0.20 H=0.80 L=11.12		
Mu=-22.16		Mu=-18.60	Mu=-20.81		Mu=-0.00
As=792.19		As=661.99	As=742.68		As=501.60
Mu=11.08	Mu=12.93	Mu=9.30	Mu=4.16	Mu=4.16	Mu=2.78
As=520.87	As=609.20	As=501.60	As=501.60	As=501.60	As=501.60
Vu=-8.78		Vu=8.27	Vu=-7.87		Vu=1.85

VT611/NE+21.35

B=0.20 H=0.80 L=13.30			B=0.20 H=0.80 L=14.89		
Mu=-22.37		Mu=-37.13	Mu=-44.76		Mu=-36.15
As=799.91		As=1353.21	As=1648.17		As=1315.78
Mu=11.19	Mu=18.12	Mu=18.57	Mu=22.38	Mu=37.47	Mu=18.08
As=525.87	As=644.52	As=660.71	As=800.28	As=1634.11	As=642.89
Vu=-10.01		Vu=12.60	Vu=-14.04		Vu=1.86

VT612/NE+21.35

B=0.15 H=0.80 L=9.14			B=0.15 H=0.80 L=11.20			B=0.15 H=0.80 L=11.20		
Mu=-0.00		Mu=-9.16	Mu=-9.61		Mu=-6.87	Mu=-8.65		Mu=-8.08
As=376.20		As=431.20	As=452.71		As=376.20	As=406.86		As=379.70
Mu=2.94	Mu=5.68	Mu=1.83	Mu=4.80	Mu=5.92	Mu=3.43	Mu=4.32	Mu=5.89	Mu=4.04
As=376.20	As=376.20	As=376.20	As=376.20	As=376.20	As=376.20	As=376.20	As=376.20	As=376.20
Vu=-0.62		Vu=3.47	Vu=-3.08		Vu=2.86	Vu=-2.81		Vu=3.19

B=0.15 H=0.80 L=9.14		
Mu=-11.84		Mu=-0.00
As=419.94		As=376.20
Mu=2.37	Mu=5.92	Mu=7.87
As=376.20	As=376.20	As=376.20
Vu=-3.58		Vu=-1.28

VT613/NE+21.35

B=0.20 H=0.80 L=3.03			B=0.20 H=0.80 L=4.87			B=0.20 H=0.80 L=1.84		
Mu=-0.38		Mu=-8.38	Mu=-9.48		Mu=-11.18	Mu=-7.93		Mu=-0.67
As=501.60		As=501.60	As=501.60		As=525.63	As=501.60		As=501.60
Mu=0.00	Mu=0.00	Mu=1.68	Mu=4.74	Mu=3.65	Mu=5.59	Mu=1.59	Mu=0.00	Mu=0.00
As=501.60	As=501.60	As=501.60	As=501.60	As=501.60	As=501.60	As=501.60	As=501.60	As=501.60
Vu=-0.37		Vu=5.58	Vu=-8.33		Vu=8.96	Vu=-7.49		Vu=-4.04

VT615/NE+21.35

B=0.15 H=0.50 L=3.40		
Mu=-6.14		Mu=-6.85
As=362.73		As=405.99
Mu=3.07	Mu=2.95	Mu=3.42
As=238.47	As=229.03	As=266.46
Vu=-5.99		Vu=6.22

VT616/NE+21.35

B=0.15 H=0.80 L=5.60		
Mu=-0.14		Mu=-11.50
As=376.20		As=407.66
Mu=0.83	Mu=7.11	Mu=2.30
As=376.20	As=376.20	As=376.20
Vu=-5.98		Vu=9.34

VT618/NE+21.35

B=0.20 H=0.80 L=2.10			B=0.20 H=0.80 L=4.75			B=0.20 H=0.80 L=2.94		
Mu=-0.16		Mu=-9.29	Mu=-6.93		Mu=-9.48	Mu=-12.86		Mu=-0.00
As=501.60		As=501.60	As=501.60		As=501.60	As=605.85		As=501.60
Mu=0.00	Mu=0.00	Mu=1.86	Mu=3.46	Mu=2.37	Mu=4.74	Mu=2.57	Mu=0.00	Mu=2.93
As=501.60	As=501.60	As=501.60	As=501.60	As=501.60	As=501.60	As=501.60	As=501.60	As=501.60
Vu=0.25		Vu=6.20	Vu=-6.07		Vu=6.89	Vu=-10.48		Vu=-6.17

VT619/NE+21.35

B=0.15 H=0.80 L=2.10			B=0.15 H=0.80 L=4.75			B=0.15 H=0.80 L=4.96		
Mu=-0.18		Mu=-12.62	Mu=-11.38		Mu=-12.67	Mu=-10.65		Mu=-0.00
As=376.20		As=448.18	As=403.32		As=449.99	As=377.00		As=376.20
Mu=0.00	Mu=0.00	Mu=2.52	Mu=5.69	Mu=3.38	Mu=6.34	Mu=2.13	Mu=4.49	Mu=5.35
As=376.20	As=376.20	As=376.20	As=376.20	As=376.20	As=376.20	As=376.20	As=376.20	As=376.20
Vu=1.27		Vu=7.29	Vu=-9.88		Vu=10.30	Vu=-8.88		Vu=2.51

VT620/NE+21.35

B=0.25 H=0.80 L=5.90			B=0.25 H=0.80 L=2.56		
Mu=-11.59		Mu=-4.52	Mu=-2.21		Mu=-0.33
As=627.00		As=627.00	As=627.00		As=627.00
Mu=5.80	Mu=7.26	Mu=2.90	Mu=0.44	Mu=1.18	Mu=0.00
As=627.00	As=627.00	As=627.00	As=627.00	As=627.00	As=627.00
Vu=-8.68		Vu=6.29	Vu=-4.21		Vu=2.92

VT621/NE+21.35

B=0.15 H=0.80 L=5.65			B=0.15 H=0.80 L=1.45		
Mu=-0.00		Mu=-5.11	Mu=-5.21		Mu=-0.46
As=376.20		As=376.20	As=376.20		As=376.20
Mu=3.78	Mu=2.47	Mu=1.02	Mu=1.04	Mu=0.00	Mu=0.00
As=376.20	As=376.20	As=376.20	As=376.20	As=376.20	As=376.20
Vu=-1.54		Vu=6.34	Vu=-4.71		Vu=0.78

VT622/NE+21.35

B=0.15 H=0.80 L=6.10		
Mu=-10.89		Mu=-0.00
As=385.65		As=376.20
Mu=2.18	Mu=5.83	Mu=1.18
As=376.20	As=376.20	As=376.20
Vu=-8.91		Vu=5.20

VT623/NE+21.35

B=0.15 H=0.80 L=5.65			B=0.15 H=0.80 L=1.45		
Mu=-0.14		Mu=-11.50	Mu=-12.23		Mu=-0.00
As=376.20		As=407.66	As=434.05		As=376.20
Mu=0.83	Mu=7.11	Mu=2.30	Mu=2.45	Mu=0.00	Mu=0.22
As=376.20	As=376.20	As=376.20	As=376.20	As=376.20	As=376.20
Vu=-5.98		Vu=9.34	Vu=-7.88		Vu=-2.60

VT624/NE+21.35

B=0.15 H=0.50 L=2.10			B=0.15 H=0.50 L=4.75			B=0.15 H=0.80 L=8.50		
Mu=-0.00		Mu=-5.95	Mu=-6.57		Mu=-4.82	Mu=-9.61		Mu=-11.71
As=227.70		As=351.20	As=388.90		As=283.06	As=452.71		As=415.24
Mu=0.58	Mu=0.00	Mu=1.19	Mu=3.29	Mu=2.12	Mu=2.41	Mu=4.80	Mu=2.93	Mu=5.86
As=227.70	As=227.70	As=227.70	As=255.41	As=227.70	As=227.70	As=376.20	As=376.20	As=376.20
Vu=-0.93		Vu=5.09	Vu=-5.86		Vu=5.24	Vu=-7.75		Vu=8.17

VT625/NE+21.35

B=0.15 H=0.50 L=2.10			B=0.15 H=0.50 L=4.75			B=0.15 H=0.80 L=6.81		
Mu=-0.08		Mu=-4.23	Mu=-4.69		Mu=-7.17	Mu=-16.18		Mu=-0.00
As=227.70		As=247.76	As=275.26		As=425.59	As=577.99		As=376.20
Mu=0.59	Mu=0.15	Mu=0.85	Mu=2.35	Mu=1.88	Mu=3.59	Mu=3.24	Mu=5.19	Mu=1.65
As=227.70	As=227.70	As=227.70	As=227.70	As=227.70	As=279.10	As=376.20	As=376.20	As=376.20
Vu=-1.65		Vu=4.37	Vu=-5.11		Vu=5.99	Vu=-9.86		Vu=5.31

VT626/NE+21.35

B=0.15 H=0.50 L=2.10			B=0.15 H=0.50 L=4.75			B=0.15 H=0.80 L=4.97		
Mu=-0.36		Mu=-3.11	Mu=-2.55		Mu=-9.62	Mu=-19.58		Mu=-0.00
As=227.70		As=241.62	As=227.70		As=577.64	As=703.45		As=376.20
Mu=0.00	Mu=0.62	Mu=0.62	Mu=2.40	Mu=2.40	Mu=4.81	Mu=3.92	Mu=0.00	Mu=1.82
As=227.70	As=227.70	As=227.70	As=227.70	As=227.70	As=282.46	As=376.20	As=376.20	As=376.20
Vu=-2.11		Vu=3.91	Vu=-4.28		Vu=6.80	Vu=-9.87		Vu=0.62

VT627/NE+21.35

B=0.25 H=0.80 L=6.81		
Mu=-0.00		Mu=-19.22
As=627.00		As=681.35
Mu=7.40	Mu=7.44	Mu=3.84
As=627.00	As=627.00	As=627.00
Vu=-3.04		Vu=11.10

VT628/NE+21.35

B=0.15 H=0.50 L=5.70			B=0.15 H=0.80 L=1.50		
Mu=-8.66		Mu=-6.83	Mu=-7.15		Mu=-0.40
As=517.62		As=404.77	As=376.20		As=376.20
Mu=4.33	Mu=3.49	Mu=3.49	Mu=1.43	Mu=0.00	Mu=0.00
As=253.73	As=271.59	As=271.59	As=376.20	As=376.20	As=376.20
Vu=-6.93		Vu=6.39	Vu=-5.55		Vu=-0.13

VT629/NE+21.35

B=0.15 H=0.50 L=0.64			B=0.15 H=0.50 L=5.70			B=0.15 H=0.80 L=1.50		
Mu=-0.00		Mu=-1.49	Mu=-7.64		Mu=-6.63	Mu=-3.13		Mu=-0.78
As=227.70		As=227.70	As=454.48		As=392.56	As=376.20		As=376.20
Mu=0.06	Mu=0.00	Mu=0.30	Mu=3.82	Mu=4.09	Mu=3.32	Mu=1.57	Mu=0.78	Mu=0.78
As=227.70	As=227.70	As=227.70	As=297.71	As=239.41	As=288.20	As=376.20	As=376.20	As=376.20
Vu=1.33		Vu=2.81	Vu=-6.81		Vu=6.51	Vu=-3.84		Vu=1.72

VT630/NE+21.35

B=0.15 H=0.50 L=2.10			B=0.15 H=0.50 L=4.90			B=0.15 H=0.80 L=4.00		
Mu=-0.39		Mu=-2.96	Mu=-2.65		Mu=-10.59	Mu=-19.82		Mu=-0.00
As=227.70		As=229.81	As=227.70		As=638.87	As=712.36		As=376.20
Mu=0.00	Mu=0.63	Mu=0.59	Mu=2.65	Mu=2.65	Mu=5.30	Mu=3.96	Mu=0.00	Mu=2.61
As=227.70	As=227.70	As=227.70	As=227.70	As=227.70	As=311.62	As=376.20	As=376.20	As=376.20
Vu=-2.17		Vu=3.85	Vu=-3.98		Vu=7.08	Vu=-10.10		Vu=0.42

VT631/NE+21.35

B=0.15 H=0.50 L=2.10			B=0.15 H=0.50 L=5.13			B=0.15 H=0.80 L=3.70		
Mu=-0.19		Mu=-3.82	Mu=-3.44		Mu=-9.27	Mu=-15.44		Mu=-0.33
As=227.70		As=297.71	As=267.64		As=555.69	As=550.88		As=376.20
Mu=0.00	Mu=0.64	Mu=0.76	Mu=2.32	Mu=2.32	Mu=4.64	Mu=3.09	Mu=0.32	Mu=0.00
As=227.70	As=227.70	As=227.70	As=227.70	As=227.70	As=271.97	As=376.20	As=376.20	As=376.20
Vu=-1.82		Vu=4.20	Vu=-4.63		Vu=6.67	Vu=-8.47		Vu=1.78

VT632/NE+21.35

B=0.15 H=0.50 L=2.10			B=0.15 H=0.50 L=5.13			B=0.15 H=0.80 L=3.76		
Mu=-0.00		Mu=-5.40	Mu=-5.66		Mu=-7.20	Mu=-10.97		Mu=-2.74
As=227.70		As=317.95	As=333.65		As=427.43	As=388.53		As=376.20
Mu=0.49	Mu=0.00	Mu=1.08	Mu=2.83	Mu=2.20	Mu=3.60	Mu=5.49	Mu=2.74	Mu=2.74
As=227.70	As=227.70	As=227.70	As=227.70	As=227.70	As=280.29	As=376.20	As=376.20	As=376.20
Vu=-1.20		Vu=4.83	Vu=-5.57		Vu=6.09	Vu=-7.04		Vu=2.79

VT633/NE+21.35

B=0.15 H=0.50 L=2.10			B=0.15 H=0.50 L=5.13			B=0.15 H=0.80 L=3.70		
Mu=-0.00		Mu=-5.35	Mu=-6.37		Mu=-6.41	Mu=-8.65		Mu=-2.16
As=227.70		As=314.93	As=376.71		As=379.15	As=406.86		As=376.20
Mu=1.14	Mu=1.07	Mu=1.07	Mu=3.18	Mu=2.56	Mu=3.20	Mu=4.32	Mu=2.16	Mu=2.16
As=227.70	As=227.70	As=227.70	As=247.53	As=227.70	As=249.10	As=376.20	As=376.20	As=376.20
Vu=-0.90		Vu=5.12	Vu=-5.93		Vu=5.95	Vu=-6.38		Vu=3.06

VT634/NE+21.35

B=0.20 H=0.80 L=0.30			B=0.20 H=0.80 L=3.95		
Mu=-16.69		Mu=-4.17	Mu=-16.69		Mu=-0.00
As=592.62		As=501.60	As=592.62		As=501.60
Mu=4.17	Mu=4.17	Mu=4.17	Mu=3.34	Mu=0.00	Mu=3.88
As=501.60	As=501.60	As=501.60	As=501.60	As=501.60	As=501.60
Vu=-5.70		Vu=-3.68	Vu=-5.70		Vu=-3.68

VT635/NE+21.35

B=0.15 H=0.50 L=5.25			B=0.15 H=0.80 L=3.65		
Mu=-2.17		Mu=-6.91	Mu=-10.85		Mu=-2.71
As=227.70		As=409.66	As=384.21		As=376.20
Mu=1.73	Mu=1.73	Mu=3.45	Mu=5.43	Mu=2.71	Mu=2.71
As=227.70	As=227.70	As=268.83	As=376.20	As=376.20	As=376.20
Vu=-3.70		Vu=5.69	Vu=-7.08		Vu=2.41

VT636/NE+21.35

B=0.50 H=0.80 L=2.04			B=0.50 H=0.80 L=2.09		
Mu=-0.00		Mu=-5.90	Mu=-15.90		Mu=-3.97
As=1254.00		As=1254.00	As=1254.00		As=1254.00
Mu=0.41	Mu=0.00	Mu=1.18	Mu=7.95	Mu=3.97	Mu=3.97
As=1254.00	As=1254.00	As=1254.00	As=1254.00	As=1254.00	As=1254.00
Vu=1.82		Vu=4.87	Vu=-7.92		Vu=1.59

VT638/NE+21.35

B=0.20 H=0.80 L=3.64			B=0.20 H=0.80 L=6.05		
Mu=-3.96		Mu=-0.99	Mu=-4.47		Mu=-17.86
As=501.60		As=501.60	As=501.60		As=635.07
Mu=0.99	Mu=0.99	Mu=1.24	Mu=9.04	Mu=8.93	Mu=8.93
As=501.60	As=501.60	As=501.60	As=505.92	As=501.60	As=501.60
Vu=-4.03		Vu=1.23	Vu=-3.48		Vu=9.52

VT639/NE+21.35

B=0.20 H=0.80 L=1.35			B=0.20 H=0.80 L=5.85			B=0.20 H=0.80 L=4.05		
Mu=-0.43		Mu=-20.64	Mu=-5.16		Mu=-20.64	Mu=-8.44		Mu=-13.66
As=501.60		As=736.45	As=501.60		As=736.45	As=501.60		As=644.16
Mu=0.06	Mu=4.13	Mu=4.13	Mu=5.16	Mu=5.16	Mu=10.32	Mu=4.22	Mu=3.41	Mu=6.83
As=501.60	As=501.60	As=501.60	As=501.60	As=501.60	As=501.60	As=501.60	As=501.60	As=501.60
Vu=-4.21		Vu=11.08	Vu=-4.21		Vu=11.08	Vu=-0.78		Vu=1.89

VT640/NE+21.35

B=0.15 H=0.80 L=3.72		
Mu=-0.21		Mu=-0.00
As=376.20		As=376.20
Mu=0.00	Mu=4.40	Mu=1.69
As=376.20	As=376.20	As=376.20
Vu=-4.60		Vu=3.71

VT641/NE+21.35

B=0.15 H=0.80 L=5.30			B=0.15 H=0.80 L=1.09		
Mu=-5.19		Mu=-5.79	Mu=-3.38		Mu=-0.09
As=376.20		As=376.20	As=376.20		As=376.20
Mu=2.60	Mu=5.07	Mu=2.89	Mu=0.68	Mu=0.00	Mu=0.00
As=376.20	As=376.20	As=376.20	As=376.20	As=376.20	As=376.20
Vu=-6.82		Vu=7.02	Vu=-4.05		Vu=-1.40

VT643/NE+21.35

B=0.15 H=0.80 L=5.30			B=0.15 H=0.80 L=3.65		
Mu=-4.63		Mu=-8.26	Mu=-9.27		Mu=-0.85
As=376.20		As=388.27	As=436.45		As=376.20
Mu=4.12	Mu=4.12	Mu=4.13	Mu=1.85	Mu=0.76	Mu=0.00
As=376.20	As=376.20	As=376.20	As=376.20	As=376.20	As=376.20
Vu=-6.33		Vu=7.52	Vu=-6.76		Vu=2.73

VT644/NE+21.35

B=0.25 H=0.80 L=5.14		
Mu=-0.00		Mu=-24.01
As=627.00		As=855.18
Mu=4.74	Mu=0.00	Mu=4.80
As=627.00	As=627.00	As=627.00
Vu=2.67		Vu=10.33

VT646/NE+21.35

B=0.15 H=0.50 L=5.13			B=0.15 H=0.80 L=3.50		
Mu=-4.60		Mu=-7.23	Mu=-3.52		Mu=-8.23
As=269.87		As=429.27	As=376.20		As=386.84
Mu=2.89	Mu=2.89	Mu=3.62	Mu=2.06	Mu=2.06	Mu=4.11
As=227.70	As=227.70	As=281.48	As=376.20	As=376.20	As=376.20
Vu=-5.45		Vu=6.33	Vu=-3.72		Vu=5.93

VT647/NE+21.35

B=0.15 H=0.50 L=4.96			B=0.15 H=0.80 L=6.00		
Mu=-2.41		Mu=-9.13	Mu=-10.61		Mu=-10.19
As=227.70		As=546.93	As=500.63		As=480.48
Mu=2.28	Mu=2.98	Mu=4.57	Mu=5.30	Mu=5.24	Mu=5.24
As=227.70	As=231.39	As=267.78	As=376.20	As=376.20	As=376.20
Vu=-4.63		Vu=6.92	Vu=-8.48		Vu=8.37

VT648/NE+21.35

B=0.15 H=0.50 L=4.80			B=0.15 H=0.80 L=5.56		
Mu=-0.91		Mu=-10.34	Mu=-5.51		Mu=-2.93
As=227.70		As=623.03	As=376.20		As=376.20
Mu=0.00	Mu=2.47	Mu=2.07	Mu=2.76	Mu=1.38	Mu=1.47
As=227.70	As=237.84	As=227.70	As=376.20	As=376.20	As=376.20
Vu=-4.01		Vu=7.30	Vu=-5.47		Vu=4.26

VT649/NE+21.35

B=0.15 H=0.80 L=5.21			B=0.15 H=0.80 L=1.61		
Mu=-4.53		Mu=-8.31	Mu=-7.92		Mu=-0.25
As=376.20		As=390.65	As=376.20		As=376.20
Mu=2.27	Mu=4.28	Mu=4.16	Mu=1.58	Mu=0.00	Mu=0.00
As=376.20	As=376.20	As=376.20	As=376.20	As=376.20	As=376.20
Vu=-6.35		Vu=7.59	Vu=-5.90		Vu=-0.38

VT650/NE+21.35

B=0.15 H=0.50 L=4.80		
Mu=-0.71		Mu=-10.32
As=227.70		As=621.76
Mu=0.00	Mu=2.36	Mu=2.06
As=227.70	As=230.60	As=227.70
Vu=-3.87		Vu=7.27

VT651/NE+21.35

B=0.15 H=0.80 L=4.29		
Mu=-0.99		Mu=-3.08
As=376.20		As=376.20
Mu=0.00	Mu=3.14	Mu=0.62
As=376.20	As=376.20	As=376.20
Vu=-4.36		Vu=5.34

VT652/NE+21.35

B=0.15 H=0.80 L=4.80			B=0.15 H=0.80 L=1.73		
Mu=-5.18		Mu=-5.70	Mu=-4.21		Mu=-1.05
As=376.20		As=376.20	As=376.20		As=376.20
Mu=2.59	Mu=3.92	Mu=2.85	Mu=2.11	Mu=1.05	Mu=1.05
As=376.20	As=376.20	As=376.20	As=376.20	As=376.20	As=376.20
Vu=-6.43		Vu=6.61	Vu=-4.44		Vu=1.62

VT653/NE+21.35

B=0.15 H=0.50 L=4.80			B=0.15 H=0.80 L=5.60		
Mu=-2.22		Mu=-8.90	Mu=-10.72		Mu=-4.62
As=227.70		As=532.57	As=379.53		As=376.20
Mu=2.22	Mu=2.77	Mu=4.45	Mu=5.36	Mu=2.68	Mu=2.68
As=227.70	As=227.70	As=260.90	As=376.20	As=376.20	As=376.20
Vu=-4.35		Vu=6.79	Vu=-7.80		Vu=5.76

VT654/NE+21.35

B=0.15 H=0.80 L=4.36			B=0.15 H=0.80 L=1.85		
Mu=-6.34		Mu=-4.26	Mu=-2.96		Mu=-0.35
As=376.20		As=376.20	As=376.20		As=376.20
Mu=3.17	Mu=2.50	Mu=2.50	Mu=0.59	Mu=0.59	Mu=0.00
As=376.20	As=376.20	As=376.20	As=376.20	As=376.20	As=376.20
Vu=-6.35		Vu=5.55	Vu=-4.09		Vu=2.22

VT655/NE+21.35

B=0.15 H=0.50 L=4.80			B=0.15 H=0.80 L=4.97		
Mu=-3.98		Mu=-6.72	Mu=-5.79		Mu=-6.45
As=232.86		As=398.05	As=376.20		As=376.20
Mu=2.52	Mu=2.52	Mu=3.36	Mu=2.89	Mu=2.25	Mu=3.22
As=227.70	As=227.70	As=261.33	As=376.20	As=376.20	As=376.20
Vu=-5.09		Vu=6.06	Vu=-6.04		Vu=6.29

VT656/NE+21.35

B=0.15 H=0.80 L=3.97			B=0.15 H=0.80 L=1.96		
Mu=-7.49		Mu=-4.10	Mu=-3.62		Mu=-0.14
As=376.20		As=376.20	As=376.20		As=376.20
Mu=3.74	Mu=1.87	Mu=2.05	Mu=0.72	Mu=0.72	Mu=0.00
As=376.20	As=376.20	As=376.20	As=376.20	As=376.20	As=376.20
Vu=-6.10		Vu=4.67	Vu=-4.48		Vu=2.08

VT657/NE+21.35

B=0.15 H=0.80 L=3.90		
Mu=-1.69		Mu=-2.91
As=376.20		As=376.20
Mu=0.85	Mu=2.50	Mu=1.46
As=376.20	As=376.20	As=376.20
Vu=-4.37		Vu=4.97

VT658/NE+21.35

B=0.15 H=0.80 L=3.05			B=0.15 H=0.80 L=0.97		
Mu=-7.49		Mu=-4.10	Mu=-3.62		Mu=-0.14
As=376.20		As=376.20	As=376.20		As=376.20
Mu=3.74	Mu=1.87	Mu=2.05	Mu=0.72	Mu=0.72	Mu=0.00
As=376.20	As=376.20	As=376.20	As=376.20	As=376.20	As=376.20
Vu=-6.10		Vu=4.67	Vu=-4.48		Vu=2.08

VT659/NE+21.35

B=0.15 H=0.80 L=1.99		
Mu=-0.80		Mu=-2.94
As=376.20		As=376.20
Mu=0.00	Mu=2.09	Mu=0.59
As=376.20	As=376.20	As=376.20
Vu=-3.67		Vu=4.81

VT660/NE+21.35

B=0.20 H=0.80 L=4.85			B=0.20 H=0.80 L=1.69		
Mu=-5.77		Mu=-5.68	Mu=-6.92		Mu=-0.00
As=501.60		As=501.60	As=501.60		As=501.60
Mu=2.88	Mu=4.15	Mu=2.84	Mu=1.38	Mu=0.91	Mu=3.38
As=501.60	As=501.60	As=501.60	As=501.60	As=501.60	As=501.60
Vu=-6.46		Vu=6.43	Vu=-6.84		Vu=-0.20

VT661/NE+21.35

B=0.15 H=0.50 L=3.06		
Mu=-4.96		Mu=-6.26
As=291.46		As=370.02
Mu=2.48	Mu=3.71	Mu=3.13
As=227.70	As=288.99	As=243.19
Vu=-5.85		Vu=6.27

VT662/NE+21.35

B=0.20 H=0.80 L=0.87			B=0.20 H=0.80 L=3.17			B=0.20 H=0.80 L=3.02		
Mu=-0.00		Mu=-7.48	Mu=-1.87		Mu=-7.48	Mu=-7.27		Mu=-8.39
As=501.60		As=501.60	As=501.60		As=501.60	As=501.60		As=501.60
Mu=0.91	Mu=1.50	Mu=1.50	Mu=1.87	Mu=1.87	Mu=3.74	Mu=3.63	Mu=2.10	Mu=2.10
As=501.60	As=501.60	As=501.60	As=501.60	As=501.60	As=501.60	As=501.60	As=501.60	As=501.60
Vu=-1.65		Vu=5.41	Vu=-1.65		Vu=5.41	Vu=-3.13		Vu=3.67

VT664/NE+21.35

B=0.20 H=0.80 L=5.65			B=0.20 H=0.80 L=11.14			B=0.20 H=0.80 L=11.20		
Mu=-0.86		Mu=-37.49	Mu=-28.13		Mu=-13.90	Mu=-15.61		Mu=-15.85
As=501.60		As=1366.98	As=1013.24		As=655.67	As=553.54		As=562.21
Mu=0.00	Mu=0.00	Mu=7.50	Mu=14.06	Mu=8.44	Mu=7.03	Mu=7.80	Mu=10.22	Mu=7.93
As=501.60	As=501.60	As=501.60	As=663.58	As=501.60	As=501.60	As=501.60	As=501.60	As=501.60
Vu=3.06		Vu=7.72	Vu=-9.76		Vu=6.83	Vu=-7.04		Vu=7.36

B=0.20 H=0.80 L=11.20			B=0.20 H=0.80 L=11.15			B=0.20 H=0.80 L=9.50		
Mu=-16.65		Mu=-16.01	Mu=-17.07		Mu=-13.56	Mu=-12.59		Mu=-3.15
As=591.17		As=568.00	As=606.39		As=639.37	As=592.93		As=501.60
Mu=8.32	Mu=10.04	Mu=8.01	Mu=8.53	Mu=10.46	Mu=6.78	Mu=6.30	Mu=7.38	Mu=3.15
As=501.60	As=501.60	As=501.60	As=501.60	As=501.60	As=501.60	As=501.60	As=501.60	As=501.60
Vu=-7.24		Vu=7.39	Vu=-7.32		Vu=7.11	Vu=-6.71		Vu=4.05

B=0.20 H=0.80 L=0.33		
Mu=-3.45		Mu=-13.80
As=501.60		As=650.87
Mu=3.45	Mu=3.45	Mu=3.45
As=501.60	As=501.60	As=501.60
Vu=5.96		Vu=6.91

VT665/NE+21.35

B=0.20 H=0.80 L=1.16			B=0.20 H=0.80 L=5.10			B=0.20 H=0.80 L=1.77		
Mu=-0.16		Mu=-0.07	Mu=-4.32		Mu=-17.28	Mu=-10.87		Mu=-6.91
As=501.60		As=501.60	As=501.60		As=614.01	As=510.87		As=501.60
Mu=0.00	Mu=0.68	Mu=0.31	Mu=4.32	Mu=6.89	Mu=8.64	Mu=5.43	Mu=2.72	Mu=3.45
As=501.60	As=501.60	As=501.60	As=501.60	As=501.60	As=501.60	As=501.60	As=501.60	As=501.60
Vu=-2.16		Vu=1.74	Vu=-6.43		Vu=11.36	Vu=-5.53		Vu=3.02

MEMORIAS VIGUETAS PISO 12 NE+50.75m

VT601/NE+21.35m

B=0.20 H=0.80 L=2.52		
Mu=-0.00		Mu=-0.00
As=501.60		As=501.60
Mu=0.12	Mu=0.89	Mu=0.12
As=501.60	As=501.60	As=501.60
Vu=1.22		Vu=-1.22

VT602/NE+21.35m

B=0.20 H=0.80 L=4.47		
Mu=-0.00		Mu=-0.00
As=501.60		As=501.60
Mu=0.23	Mu=2.85	Mu=0.62
As=501.60	As=501.60	As=501.60
Vu=2.26		Vu=-2.08

VT603/NE+21.35m

B=0.20 H=0.80 L=3.10		
Mu=-0.00		Mu=-0.00
As=501.60		As=501.60
Mu=0.15	Mu=1.32	Mu=0.15
As=501.60	As=501.60	As=501.60
Vu=1.50		Vu=-1.50

VT605/NE+21.35m

B=0.15 H=0.80 L=6.32		
Mu=-0.00		Mu=-0.00
As=376.20		As=376.20
Mu=0.26	Mu=5.70	Mu=0.26
As=376.20	As=376.20	As=376.20
Vu=3.44		Vu=-3.44

VT606/NE+21.35m

B=0.15 H=0.80 L=1.31			B=0.15 H=0.80 L=1.30		
Mu=-0.00		Mu=-0.16	Mu=-0.16		Mu=-0.00
As=376.20		As=376.20	As=376.20		As=376.20
Mu=0.04	Mu=0.17	Mu=0.03	Mu=0.03	Mu=0.17	Mu=0.04
As=376.20	As=376.20	As=376.20	As=376.20	As=376.20	As=376.20
Vu=0.56		Vu=-0.87	Vu=0.87		Vu=-0.55

MEMORIAS VIGUETAS PISO 12 NE+50.75m

VT637/NE+21.35m

B=0.15 H=0.80 L=2.25		
Mu=-0.00		Mu=-0.00
As=376.20		As=376.20
Mu=0.11	Mu=0.72	Mu=0.11
As=376.20	As=376.20	As=376.20
Vu=1.09		Vu=-1.09

VT609/NE+21.35m

B=0.15 H=0.80 L=1.30			B=0.15 H=0.80 L=6.82			B=0.15 H=0.80 L=5.81		
Mu=-0.12		Mu=-3.03	Mu=-2.89		Mu=-4.77	Mu=-4.74		Mu=-0.00
As=376.20		As=376.20	As=376.20		As=376.20	As=376.20		As=376.20
Mu=0.00	Mu=0.00	Mu=0.61	Mu=0.96	Mu=2.52	Mu=1.59	Mu=0.95	Mu=2.77	Mu=1.08
As=376.20	As=376.20	As=376.20	As=376.20	As=376.20	As=376.20	As=376.20	As=376.20	As=376.20
Vu=-1.54		Vu=-2.95	Vu=3.44		Vu=-4.00	Vu=4.17		Vu=-2.17

VT608/NE+21.35m

B=0.20 H=0.80 L=3.14		
Mu=-0.00		Mu=-0.00
As=501.60		As=501.60
Mu=0.15	Mu=1.35	Mu=0.15
As=501.60	As=501.60	As=501.60
Vu=1.52		Vu=-1.52

VT610/NE+21.35m

B=0.20 H=0.80 L=2.21		
Mu=-0.00		Mu=-0.00
As=501.60		As=501.60
Mu=0.11	Mu=0.70	Mu=0.11
As=501.60	As=501.60	As=501.60
Vu=1.07		Vu=-1.07

VT645/NE+21.35m

B=0.15 H=0.80 L=2.15		
Mu=-0.00		Mu=-0.00
As=376.20		As=376.20
Mu=0.28	Mu=0.83	Mu=0.12
As=376.20	As=376.20	As=376.20
Vu=1.10		Vu=-1.24

VT663/NE+21.35m

B=0.20 H=0.80 L=3.13		
Mu=-0.00		Mu=-0.00
As=501.60		As=501.60
Mu=0.48	Mu=1.67	Mu=0.18
As=501.60	As=501.60	As=501.60
Vu=1.61		Vu=-1.80

MEMORIAS VIGUETAS PISO 12 NE+50.75m

VT617/NE+21.35m

B=0.20 H=0.80 L=7.26		
Mu=-0.00		Mu=-0.00
As=501.60		As=501.60
Mu=1.16	Mu=8.01	Mu=0.51
As=501.60	As=501.60	As=501.60
Vu=3.87		Vu=-4.05

VT614/NE+21.35m

B=0.25 H=0.30 L=8.42		
Mu=-0.00		Mu=-0.00
As=214.50		As=214.50
Mu=1.35	Mu=10.63	Mu=0.58
As=502.98	As=1191.38	As=435.87
Vu=4.50		Vu=-4.68

VT666/NE+21.35m

B=0.15 H=0.50 L=2.52			B=0.15 H=0.50 L=1.39		
Mu=-0.00		Mu=-0.39	Mu=-0.57		Mu=-0.00
As=227.70		As=227.70	As=227.70		As=227.70
Mu=0.09	Mu=0.72	Mu=0.08	Mu=0.11	Mu=0.00	Mu=0.09
As=227.70	As=227.70	As=227.70	As=227.70	As=227.70	As=227.70
Vu=1.18		Vu=-1.57	Vu=1.20		Vu=-0.32

VT667/NE+21.35m

B=0.20 H=0.80 L=5.04		
Mu=-0.00		Mu=-0.00
As=501.60		As=501.60
Mu=0.73	Mu=8.77	Mu=0.73
As=501.60	As=501.60	As=501.60
Vu=6.38		Vu=-6.38

VT700/NE+25.55

B=0.20 H=0.80 L=6.91			B=0.20 H=0.80 L=13.25			B=0.20 H=0.80 L=3.33		
Mu=-0.59		Mu=-37.27	Mu=-39.39		Mu=-21.49	Mu=-22.24		Mu=-9.97
As=501.60		As=1358.56	As=1439.91		As=767.60	As=795.13		As=501.60
Mu=0.00	Mu=0.00	Mu=7.45	Mu=19.69	Mu=13.19	Mu=13.46	Mu=11.12	Mu=5.56	Mu=5.56
As=501.60	As=501.60	As=501.60	As=701.91	As=634.57	As=634.57	As=522.78	As=501.60	As=501.60
Vu=1.81		Vu=8.38	Vu=-11.88		Vu=9.76	Vu=-7.36		Vu=-5.25

VT704/NE+25.55

B=0.25 H=0.35 L=10.80		
Mu=-7.79		Mu=-3.74
As=696.33		As=326.53
Mu=3.89	Mu=14.98	Mu=3.74
As=339.91	As=1407.21	As=572.62
Vu=-6.61		Vu=5.91

VT705/NE+25.55

B=0.15 H=0.80 L=4.38		
Mu=-1.77		Mu=-0.00
As=376.20		As=376.20
Mu=0.35	Mu=7.02	Mu=1.40
As=376.20	As=376.20	As=376.20
Vu=-5.41		Vu=4.16

VT716/NE+25.55

B=0.15 H=0.50 L=3.06		
Mu=-4.88		Mu=-6.65
As=286.66		As=393.78
Mu=2.44	Mu=3.55	Mu=3.33
As=227.70	As=276.34	As=258.57
Vu=-5.77		Vu=6.35

VT717/NE+25.55

B=0.20 H=0.80 L=1.15			B=0.20 H=0.80 L=5.10			B=0.20 H=0.80 L=1.77		
Mu=-0.16		Mu=-0.04	Mu=-4.65		Mu=-18.61	Mu=-14.85		Mu=-4.90
As=501.60		As=501.60	As=501.60		As=662.35	As=526.10		As=501.60
Mu=0.00	Mu=0.68	Mu=0.32	Mu=4.65	Mu=6.40	Mu=9.31	Mu=7.43	Mu=3.71	Mu=3.71
As=501.60	As=501.60	As=501.60	As=501.60	As=501.60	As=501.60	As=501.60	As=501.60	As=501.60
Vu=-2.16		Vu=1.72	Vu=-6.22		Vu=11.57	Vu=-6.81		Vu=2.78

VT718/NE+25.55

B=0.25 H=0.80 L=3.66			B=0.25 H=0.80 L=3.29			B=0.25 H=0.80 L=0.53		
Mu=-0.00		Mu=-9.80	Mu=-7.79		Mu=-7.91	Mu=-10.78		Mu=-3.64
As=627.00		As=627.00	As=627.00		As=627.00	As=627.00		As=627.00
Mu=8.28	Mu=12.20	Mu=1.96	Mu=3.89	Mu=1.98	Mu=3.95	Mu=2.16	Mu=0.00	Mu=0.00
As=627.00	As=673.96	As=627.00	As=627.00	As=627.00	As=627.00	As=627.00	As=627.00	As=627.00
Vu=-3.58		Vu=9.68	Vu=-3.96		Vu=4.60	Vu=-5.97		Vu=-2.91

VT719/NE+25.55

B=0.20 H=0.80 L=4.85			B=0.20 H=0.80 L=1.69		
Mu=-5.34		Mu=-7.00	Mu=-11.12		Mu=-0.00
As=501.60		As=501.60	As=522.78		As=501.60
Mu=2.67	Mu=3.71	Mu=3.50	Mu=2.22	Mu=0.87	Mu=2.18
As=501.60	As=501.60	As=501.60	As=501.60	As=501.60	As=501.60
Vu=-6.17		Vu=6.71	Vu=-7.79		Vu=2.77

VT720/NE+25.55

B=0.15 H=0.80 L=4.08		
Mu=-10.58		Mu=-3.55
As=499.19		As=376.20
Mu=5.29	Mu=2.64	Mu=2.64
As=376.20	As=376.20	As=376.20
Vu=-6.91		Vu=3.98

VT721/NE+25.55

B=0.20 H=0.80 L=12.87			B=0.20 H=0.80 L=12.10		
Mu=-22.71		Mu=-23.27	Mu=-30.55		Mu=-9.07
As=812.41		As=833.03	As=1103.84		As=501.60
Mu=11.35	Mu=12.96	Mu=11.64	Mu=15.27	Mu=15.27	Mu=7.75
As=533.98	As=610.63	As=547.33	As=541.44	As=718.39	As=868.00
Vu=-9.20		Vu=9.27	Vu=-11.08		Vu=12.54

VT722/NE+25.55

B=0.20 H=0.80 L=13.30			B=0.20 H=0.80 L=14.89		
Mu=-27.47		Mu=-24.87	Mu=-26.90		Mu=-18.31
As=988.63		As=892.11	As=967.41		As=651.43
Mu=13.73	Mu=16.43	Mu=12.44	Mu=13.45	Mu=18.01	Mu=9.15
As=647.76	As=583.20	As=585.52	As=634.10	As=640.52	As=501.60
Vu=-10.29		Vu=8.90	Vu=-9.01		Vu=2.02

VT724/NE+25.55

B=0.15 H=0.80 L=9.14			B=0.15 H=0.80 L=11.20			B=0.15 H=0.80 L=11.20		
Mu=-0.00		Mu=-9.97	Mu=-10.31		Mu=-7.29	Mu=-9.07		Mu=-8.38
As=376.20		As=469.94	As=486.24		As=376.20	As=426.90		As=393.99
Mu=3.50	Mu=6.32	Mu=1.99	Mu=5.16	Mu=6.39	Mu=3.64	Mu=4.53	Mu=6.40	Mu=4.19
As=376.20	As=376.20	As=376.20	As=376.20	As=376.20	As=376.20	As=376.20	As=376.20	As=376.20
Vu=-0.79		Vu=3.58	Vu=-3.14		Vu=2.96	Vu=-2.77		Vu=3.26

B=0.15 H=0.80 L=9.14		
Mu=-11.43		Mu=-0.00
As=405.13		As=376.20
Mu=2.29	Mu=6.10	Mu=5.22
As=376.20	As=376.20	As=376.20
Vu=-3.29		Vu=0.61

VT725/NE+25.55

B=0.20 H=0.80 L=5.73			B=0.20 H=0.80 L=11.20			B=0.20 H=0.80 L=11.20		
Mu=-0.99		Mu=-36.83	Mu=-26.63		Mu=-13.55	Mu=-15.37		Mu=-15.29
As=501.60		As=1341.74	As=957.37		As=638.89	As=544.87		As=541.98
Mu=0.00	Mu=0.00	Mu=7.37	Mu=13.31	Mu=7.62	Mu=7.62	Mu=7.68	Mu=9.08	Mu=7.64
As=501.60	As=501.60	As=501.60	As=627.63	As=501.60	As=501.60	As=501.60	As=501.60	As=501.60
Vu=2.62		Vu=8.34	Vu=-9.41		Vu=6.83	Vu=-7.07		Vu=7.29

B=0.20 H=0.80 L=11.20			B=0.20 H=0.80 L=11.15			B=0.20 H=0.80 L=5.72		
Mu=-16.32		Mu=-14.07	Mu=-13.98		Mu=-21.15	Mu=-31.68		Mu=-0.67
As=579.22		As=663.82	As=659.51		As=755.13	As=1146.35		As=501.60
Mu=8.16	Mu=9.15	Mu=7.03	Mu=6.99	Mu=6.96	Mu=10.57	Mu=6.34	Mu=0.00	Mu=0.00
As=501.60	As=501.60	As=501.60	As=501.60	As=501.60	As=501.60	As=501.60	As=501.60	As=501.60
Vu=-7.27		Vu=7.04	Vu=-6.59		Vu=7.18	Vu=-6.46		Vu=-2.77

VT726/NE+25.55

B=0.20 H=0.80 L=3.03			B=0.20 H=0.80 L=4.87			B=0.20 H=0.80 L=1.84		
Mu=-0.47		Mu=-8.25	Mu=-10.27		Mu=-10.55	Mu=-8.96		Mu=-0.79
As=501.60		As=501.60	As=501.60		As=501.60	As=501.60		As=501.60
Mu=0.00	Mu=0.00	Mu=1.65	Mu=5.14	Mu=3.52	Mu=5.28	Mu=1.79	Mu=0.00	Mu=0.00
As=501.60	As=501.60	As=501.60	As=501.60	As=501.60	As=501.60	As=501.60	As=501.60	As=501.60
Vu=-0.44		Vu=5.51	Vu=-8.55		Vu=8.72	Vu=-8.21		Vu=-4.76

VT728/NE+25.55

B=0.15 H=0.50 L=3.40		
Mu=-6.19		Mu=-6.76
As=365.77		As=400.49
Mu=3.10	Mu=2.97	Mu=3.38
As=240.44	As=230.60	As=262.91
Vu=-6.01		Vu=6.20

VT729/NE+25.55

B=0.15 H=0.50 L=5.60		
Mu=-4.63		Mu=-8.47
As=271.67		As=505.81
Mu=2.32	Mu=4.68	Mu=4.24
As=227.70	As=274.66	As=248.05
Vu=-6.09		Vu=7.23

VT731/NE+25.55

B=0.20 H=0.80 L=2.10			B=0.20 H=0.80 L=4.75			B=0.20 H=0.80 L=2.94		
Mu=-0.16		Mu=-9.16	Mu=-6.90		Mu=-9.35	Mu=-12.86		Mu=-0.00
As=501.60		As=501.60	As=501.60		As=501.60	As=605.85		As=501.60
Mu=0.00	Mu=0.00	Mu=1.83	Mu=3.45	Mu=2.34	Mu=4.68	Mu=2.57	Mu=0.00	Mu=3.41
As=501.60	As=501.60	As=501.60	As=501.60	As=501.60	As=501.60	As=501.60	As=501.60	As=501.60
Vu=-0.23		Vu=6.15	Vu=-6.08		Vu=6.88	Vu=-10.73		Vu=-6.42

VT732/NE+25.55

B=0.15 H=0.80 L=2.10			B=0.15 H=0.80 L=4.75			B=0.15 H=0.80 L=4.96		
Mu=-0.17		Mu=-12.47	Mu=-11.29		Mu=-12.62	Mu=-9.97		Mu=-0.00
As=376.20		As=442.74	As=400.08		As=448.18	As=469.94		As=376.20
Mu=0.00	Mu=0.00	Mu=2.49	Mu=5.64	Mu=3.46	Mu=6.31	Mu=1.99	Mu=4.46	Mu=4.60
As=376.20	As=376.20	As=376.20	As=376.20	As=376.20	As=376.20	As=376.20	As=376.20	As=376.20
Vu=1.22		Vu=7.24	Vu=-9.87		Vu=10.30	Vu=-8.60		Vu=2.79

VT733/NE+25.55

B=0.25 H=0.80 L=5.90			B=0.25 H=0.80 L=2.51		
Mu=-8.98		Mu=-7.41	Mu=-3.35		Mu=-0.41
As=627.00		As=627.00	As=627.00		As=627.00
Mu=4.49	Mu=11.63	Mu=3.70	Mu=0.67	Mu=0.67	Mu=0.00
As=627.00	As=627.00	As=627.00	As=627.00	As=627.00	As=627.00
Vu=-8.45		Vu=8.19	Vu=-4.62		Vu=2.51

VT734/NE+25.55

B=0.15 H=0.50 L=5.65			B=0.15 H=0.50 L=1.45		
Mu=-0.00		Mu=-3.61	Mu=-3.51		Mu=-0.00
As=227.70		As=281.08	As=273.17		As=227.70
Mu=0.65	Mu=1.27	Mu=0.72	Mu=0.70	Mu=0.00	Mu=0.26
As=227.70	As=227.70	As=227.70	As=227.70	As=227.70	As=227.70
Vu=-2.32		Vu=4.52	Vu=-3.86		Vu=0.91

VT735/NE+25.55

B=0.15 H=0.80 L=6.10		
Mu=-10.10		Mu=-0.70
As=476.17		As=376.20
Mu=2.02	Mu=5.56	Mu=0.00
As=376.20	As=376.20	As=376.20
Vu=-8.57		Vu=5.54

VT736/NE+25.55

B=0.15 H=0.50 L=5.65			B=0.15 H=0.50 L=1.45		
Mu=-4.63		Mu=-8.47	Mu=-5.96		Mu=-0.00
As=271.67		As=505.81	As=351.81		As=227.70
Mu=2.32	Mu=4.68	Mu=4.24	Mu=1.19	Mu=0.00	Mu=1.09
As=227.70	As=274.66	As=248.05	As=227.70	As=227.70	As=227.70
Vu=-6.09		Vu=7.23	Vu=-5.29		Vu=-0.81

VT737/NE+25.55

B=0.15 H=0.50 L=2.10			B=0.15 H=0.50 L=4.75			B=0.15 H=0.80 L=8.50		
Mu=-0.00		Mu=-5.87	Mu=-6.55		Mu=-4.78	Mu=-9.90		Mu=-11.06
As=227.70		As=346.35	As=387.68		As=280.66	As=466.59		As=391.78
Mu=0.59	Mu=0.00	Mu=1.17	Mu=3.28	Mu=2.15	Mu=2.39	Mu=4.95	Mu=2.77	Mu=5.53
As=227.70	As=227.70	As=227.70	As=254.62	As=227.70	As=227.70	As=376.20	As=376.20	As=376.20
Vu=-0.96		Vu=5.06	Vu=-5.87		Vu=5.24	Vu=-7.72		Vu=7.89

VT738/NE+25.55

B=0.15 H=0.50 L=2.10			B=0.15 H=0.50 L=4.75			B=0.15 H=0.80 L=6.81		
Mu=-0.10		Mu=-4.10	Mu=-4.56		Mu=-7.29	Mu=-16.50		Mu=-0.00
As=227.70		As=240.00	As=267.48		As=432.95	As=589.73		As=376.20
Mu=0.62	Mu=0.20	Mu=0.82	Mu=2.28	Mu=1.89	Mu=3.64	Mu=3.30	Mu=4.74	Mu=1.75
As=227.70	As=227.70	As=227.70	As=227.70	As=227.70	As=283.85	As=376.20	As=376.20	As=376.20
Vu=-1.70		Vu=4.32	Vu=-5.07		Vu=6.03	Vu=-9.83		Vu=5.06

VT739/NE+25.55

B=0.15 H=0.50 L=2.10			B=0.15 H=0.50 L=4.75			B=0.15 H=0.80 L=4.97		
Mu=-0.40		Mu=-2.92	Mu=-2.47		Mu=-9.87	Mu=-20.09		Mu=-0.00
As=227.70		As=227.70	As=227.70		As=593.36	As=722.40		As=376.20
Mu=0.00	Mu=0.64	Mu=0.58	Mu=2.47	Mu=2.47	Mu=4.93	Mu=4.02	Mu=0.00	Mu=1.75
As=227.70	As=227.70	As=227.70	As=227.70	As=227.70	As=289.96	As=376.20	As=376.20	As=376.20
Vu=-2.18		Vu=3.84	Vu=-4.19		Vu=6.89	Vu=-9.97		Vu=0.52

VT740/NE+25.55

B=0.25 H=0.80 L=6.81		
Mu=-0.00		Mu=-16.45
As=627.00		As=775.26
Mu=6.95	Mu=8.25	Mu=3.29
As=627.00	As=627.00	As=627.00
Vu=-3.40		Vu=10.72

VT741/NE+25.55

B=0.15 H=0.50 L=5.70			B=0.15 H=0.50 L=1.50		
Mu=-8.86		Mu=-6.49	Mu=-3.75		Mu=-0.00
As=530.08		As=384.02	As=292.16		As=227.70
Mu=4.43	Mu=3.56	Mu=3.56	Mu=0.75	Mu=0.00	Mu=0.28
As=259.70	As=277.13	As=277.13	As=227.70	As=227.70	As=227.70
Vu=-7.01		Vu=6.31	Vu=-3.99		Vu=0.84

VT742/NE+25.55

B=0.15 H=0.50 L=0.65			B=0.15 H=0.50 L=5.70			B=0.15 H=0.50 L=1.45		
Mu=-0.00		Mu=-1.41	Mu=-7.26		Mu=-6.64	Mu=-2.40		Mu=-0.60
As=227.70		As=227.70	As=431.11		As=393.17	As=227.70		As=227.70
Mu=0.02	Mu=0.00	Mu=0.28	Mu=3.63	Mu=4.28	Mu=3.32	Mu=1.20	Mu=0.60	Mu=0.60
As=227.70	As=227.70	As=227.70	As=282.66	As=289.94	As=258.17	As=227.70	As=227.70	As=227.70
Vu=1.17		Vu=2.64	Vu=-6.75		Vu=6.56	Vu=-3.26		Vu=1.57

VT743/NE+25.55

B=0.15 H=0.50 L=2.10			B=0.15 H=0.50 L=4.90			B=0.15 H=0.80 L=4.00		
Mu=-0.45		Mu=-2.72	Mu=-2.72		Mu=-10.89	Mu=-19.55		Mu=-0.00
As=227.70		As=227.70	As=227.70		As=657.92	As=702.34		As=376.20
Mu=0.00	Mu=0.71	Mu=0.54	Mu=2.72	Mu=2.72	Mu=5.45	Mu=3.91	Mu=0.00	Mu=2.46
As=227.70	As=227.70	As=227.70	As=227.70	As=227.70	As=320.66	As=376.20	As=376.20	As=376.20
Vu=-2.27		Vu=3.76	Vu=-3.88		Vu=7.19	Vu=-10.01		Vu=0.51

VT744/NE+25.55

B=0.15 H=0.50 L=2.10			B=0.15 H=0.50 L=5.13			B=0.15 H=0.80 L=3.70		
Mu=-0.26		Mu=-3.56	Mu=-3.33		Mu=-9.37	Mu=-14.40		Mu=-0.49
As=227.70		As=277.13	As=258.96		As=561.95	As=512.89		As=376.20
Mu=0.00	Mu=0.66	Mu=0.71	Mu=2.34	Mu=2.34	Mu=4.68	Mu=2.88	Mu=0.40	Mu=0.00
As=227.70	As=227.70	As=227.70	As=227.70	As=227.70	As=274.96	As=376.20	As=376.20	As=376.20
Vu=-1.93		Vu=4.09	Vu=-4.60		Vu=6.70	Vu=-8.21		Vu=2.04

VT745/NE+25.55

B=0.15 H=0.50 L=2.10			B=0.15 H=0.50 L=5.13			B=0.15 H=0.80 L=3.76		
Mu=-0.00		Mu=-5.15	Mu=-5.60		Mu=-7.23	Mu=-10.13		Mu=-2.53
As=227.70		As=302.88	As=330.02		As=429.27	As=477.61		As=376.20
Mu=0.46	Mu=0.00	Mu=1.03	Mu=2.80	Mu=2.21	Mu=3.62	Mu=5.07	Mu=2.53	Mu=2.53
As=227.70	As=227.70	As=227.70	As=227.70	As=227.70	As=281.48	As=376.20	As=376.20	As=376.20
Vu=-1.31		Vu=4.71	Vu=-5.56		Vu=6.11	Vu=-6.78		Vu=3.05

VT746/NE+25.55

B=0.15 H=0.50 L=2.10			B=0.15 H=0.50 L=5.25			B=0.15 H=0.80 L=3.65		
Mu=-0.00		Mu=-5.48	Mu=-6.24		Mu=-7.05	Mu=-10.53		Mu=-2.63
As=227.70		As=322.77	As=368.81		As=418.23	As=496.79		As=376.20
Mu=0.93	Mu=0.00	Mu=1.10	Mu=3.12	Mu=2.31	Mu=3.53	Mu=5.26	Mu=2.63	Mu=2.63
As=227.70	As=227.70	As=227.70	As=242.41	As=227.70	As=274.36	As=376.20	As=376.20	As=376.20
Vu=-0.98		Vu=5.04	Vu=-5.81		Vu=6.08	Vu=-6.71		Vu=2.73

VT747/NE+25.55

B=0.15 H=0.50 L=5.25			B=0.15 H=0.80 L=3.65		
Mu=-5.44		Mu=-8.11	Mu=-13.54		Mu=-3.38
As=320.36		As=483.50	As=481.57		As=376.20
Mu=2.72	Mu=2.03	Mu=4.05	Mu=6.77	Mu=3.38	Mu=3.38
As=227.70	As=227.70	As=237.32	As=376.20	As=376.20	As=376.20
Vu=-5.42		Vu=6.32	Vu=-7.77		Vu=1.70

VT748/NE+25.55

B=0.15 H=0.50 L=2.45			B=0.15 H=0.80 L=3.65		
Mu=-1.97		Mu=-6.61	Mu=-18.23		Mu=-1.14
As=227.70		As=391.34	As=653.46		As=376.20
Mu=1.65	Mu=1.65	Mu=3.31	Mu=3.65	Mu=0.00	Mu=0.00
As=227.70	As=227.70	As=256.99	As=376.20	As=376.20	As=376.20
Vu=-2.76		Vu=5.09	Vu=-8.83		Vu=0.78

VT750/NE+25.55

B=0.15 H=0.80 L=3.14			B=0.15 H=0.80 L=3.18		
Mu=-0.46		Mu=-14.15	Mu=-17.85		Mu=-7.13
As=376.20		As=503.78	As=639.43		As=376.20
Mu=0.00	Mu=0.00	Mu=2.83	Mu=3.57	Mu=0.00	Mu=0.00
As=376.20	As=376.20	As=376.20	As=376.20	As=376.20	As=376.20
Vu=0.81		Vu=-7.92	Vu=7.08		Vu=-1.22

VT751/NE+25.55

B=0.15 H=0.80 L=3.02			B=0.15 H=0.80 L=0.61			B=0.15 H=0.80 L=2.70		
Mu=-0.37		Mu=-10.34	Mu=-8.21		Mu=-14.27	Mu=-12.81		Mu=-5.42
As=376.20		As=487.67	As=481.25		As=508.15	As=455.07		As=376.20
Mu=0.00	Mu=0.15	Mu=2.07	Mu=4.11	Mu=3.57	Mu=7.14	Mu=6.41	Mu=3.20	Mu=3.20
As=376.20	As=376.20	As=376.20	As=376.20	As=376.20	As=376.20	As=376.20	As=376.20	As=376.20
Vu=-1.57		Vu=6.91	Vu=3.40		Vu=6.25	Vu=-5.94		Vu=1.32

VT752/NE+25.55

B=0.15 H=0.80 L=2.90			B=0.15 H=0.80 L=1.20			B=0.15 H=0.80 L=1.82		
Mu=-0.25		Mu=-7.69	Mu=-3.92		Mu=-14.99	Mu=-6.62		Mu=-15.98
As=376.20		As=376.20	As=376.20		As=534.42	As=376.20		As=570.65
Mu=0.00	Mu=0.63	Mu=1.54	Mu=3.75	Mu=3.75	Mu=7.49	Mu=3.99	Mu=3.99	Mu=7.99
As=376.20	As=376.20	As=376.20	As=376.20	As=376.20	As=376.20	As=376.20	As=376.20	As=376.20
Vu=-2.01		Vu=6.17	Vu=3.69		Vu=8.08	Vu=1.96		Vu=6.97

VT753/NE+25.55

B=0.15 H=0.80 L=2.78			B=0.15 H=0.80 L=1.80		
Mu=-0.11		Mu=-7.57	Mu=-4.59		Mu=-18.37
As=376.20		As=376.20	As=376.20		As=658.63
Mu=0.00	Mu=0.65	Mu=1.51	Mu=4.59	Mu=4.59	Mu=9.19
As=376.20	As=376.20	As=376.20	As=376.20	As=376.20	As=432.39
Vu=-1.76		Vu=6.11	Vu=2.63		Vu=8.63

VT754/NE+25.55

B=0.15 H=0.50 L=2.75			B=0.15 H=0.50 L=1.53		
Mu=-0.11		Mu=-7.57	Mu=-4.59		Mu=-18.37
As=227.70		As=450.17	As=274.42		As=1153.74
Mu=0.00	Mu=0.65	Mu=1.51	Mu=4.59	Mu=4.59	Mu=9.19
As=227.70	As=227.70	As=227.70	As=269.42	As=269.42	As=550.37
Vu=-1.76		Vu=6.11	Vu=2.63		Vu=8.63

VT755/NE+25.55

B=0.15 H=0.50 L=2.96			B=0.15 H=0.50 L=0.68		
Mu=-0.11		Mu=-7.57	Mu=-4.59		Mu=-18.37
As=227.70		As=450.17	As=274.42		As=1153.74
Mu=0.00	Mu=0.65	Mu=1.51	Mu=4.59	Mu=4.59	Mu=9.19
As=227.70	As=227.70	As=227.70	As=269.42	As=269.42	As=550.37
Vu=-1.76		Vu=6.11	Vu=2.63		Vu=8.63

VT756/NE+25.55

B=0.25 H=0.80 L=1.35			B=0.25 H=0.80 L=5.18		
Mu=-0.04		Mu=-0.54	Mu=-0.00		Mu=-0.20
As=627.00		As=627.00	As=627.00		As=627.00
Mu=0.00	Mu=0.27	Mu=0.11	Mu=0.04	Mu=1.15	Mu=0.74
As=627.00	As=627.00	As=627.00	As=627.00	As=627.00	As=627.00
Vu=-1.02		Vu=1.67	Vu=-1.96		Vu=1.97

VT757/NE+25.55

B=0.15 H=0.50 L=5.30			B=0.15 H=0.80 L=3.65		
Mu=-5.02		Mu=-7.03	Mu=-9.95		Mu=-2.49
As=295.07		As=417.01	As=468.98		As=376.20
Mu=3.15	Mu=3.15	Mu=3.52	Mu=4.97	Mu=2.49	Mu=2.49
As=244.77	As=244.77	As=273.57	As=376.20	As=376.20	As=376.20
Vu=-5.69		Vu=6.34	Vu=-6.69		Vu=2.80

VT758/NE+25.55

B=0.25 H=0.80 L=5.14		
Mu=-0.00		Mu=-16.68
As=627.00		As=786.27
Mu=1.43	Mu=0.00	Mu=3.34
As=627.00	As=627.00	As=627.00
Vu=-0.69		Vu=8.02

VT759/NE+25.55

B=0.15 H=0.50 L=5.13			B=0.15 H=0.80 L=3.50		
Mu=-4.61		Mu=-7.23	Mu=-5.03		Mu=-3.47
As=270.47		As=429.27	As=376.20		As=376.20
Mu=2.89	Mu=2.89	Mu=3.62	Mu=2.52	Mu=1.26	Mu=1.74
As=227.70	As=227.70	As=281.48	As=376.20	As=376.20	As=376.20
Vu=-5.46		Vu=6.33	Vu=-5.19		Vu=4.46

VT760/NE+25.55

B=0.15 H=0.50 L=4.96			B=0.15 H=0.80 L=6.00		
Mu=-2.36		Mu=-9.21	Mu=-10.49		Mu=-9.81
As=227.70		As=551.94	As=494.87		As=462.28
Mu=2.30	Mu=2.97	Mu=4.61	Mu=5.24	Mu=5.49	Mu=4.91
As=227.70	As=230.92	As=270.17	As=376.20	As=376.20	As=376.20
Vu=-4.60		Vu=6.94	Vu=-8.52		Vu=8.33

VT761/NE+25.55

B=0.15 H=0.50 L=4.80			B=0.15 H=0.80 L=5.56		
Mu=-0.87		Mu=-10.39	Mu=-5.36		Mu=-4.35
As=227.70		As=626.19	As=376.20		As=376.20
Mu=0.00	Mu=2.47	Mu=2.08	Mu=2.68	Mu=1.34	Mu=2.17
As=227.70	As=238.00	As=227.70	As=376.20	As=376.20	As=376.20
Vu=-3.99		Vu=7.31	Vu=-5.10		Vu=4.63

VT762/NE+25.55

B=0.15 H=0.50 L=5.95			B=0.15 H=0.50 L=1.45		
Mu=-5.99		Mu=-8.10	Mu=-4.97		Mu=-0.00
As=353.63		As=482.88	As=292.06		As=227.70
Mu=2.99	Mu=4.60	Mu=4.05	Mu=0.99	Mu=0.00	Mu=0.78
As=232.57	As=269.87	As=237.02	As=227.70	As=227.70	As=227.70
Vu=-6.47		Vu=7.09	Vu=-4.76		Vu=-0.22

VT763/NE+25.55

B=0.15 H=0.50 L=4.80		
Mu=-0.68		Mu=-10.39
As=227.70		As=626.19
Mu=0.00	Mu=2.34	Mu=2.08
As=227.70	As=229.81	As=227.70
Vu=-3.86		Vu=7.29

VT764/NE+25.55

B=0.15 H=0.80 L=3.30		
Mu=-4.99		Mu=-4.07
As=376.20		As=376.20
Mu=2.49	Mu=1.25	Mu=2.04
As=376.20	As=376.20	As=376.20
Vu=-3.94		Vu=3.37

VT765/NE+25.55

B=0.25 H=0.80 L=6.37			B=0.25 H=0.80 L=2.53		
Mu=-13.14		Mu=-3.29	Mu=-2.31		Mu=-0.18
As=627.00		As=627.00	As=627.00		As=627.00
Mu=6.57	Mu=4.93	Mu=3.29	Mu=0.46	Mu=1.12	Mu=0.00
As=627.00	As=627.00	As=627.00	As=627.00	As=627.00	As=627.00
Vu=-7.76		Vu=-4.90	Vu=-4.33		Vu=2.76

VT766/NE+25.55

B=0.15 H=0.50 L=4.80			B=0.15 H=0.80 L=3.87		
Mu=-2.27		Mu=-9.07	Mu=-14.99		Mu=-3.75
As=227.70		As=543.18	As=534.42		As=376.20
Mu=2.27	Mu=2.75	Mu=4.53	Mu=7.49	Mu=3.75	Mu=3.75
As=227.70	As=227.70	As=265.98	As=376.20	As=376.20	As=376.20
Vu=-4.31		Vu=6.84	Vu=-7.59		Vu=-3.04

VT767/NE+25.55

B=0.15 H=0.80 L=3.17		
Mu=-0.91		Mu=-0.00
As=376.20		As=376.20
Mu=0.00	Mu=5.01	Mu=5.80
As=376.20	As=376.20	As=376.20
Vu=-5.63		Vu=1.18

VT768/NE+25.55

B=0.15 H=0.50 L=5.34			B=0.15 H=0.50 L=1.45		
Mu=-0.00		Mu=-3.64	Mu=-2.36		Mu=-0.20
As=227.70		As=283.45	As=227.70		As=227.70
Mu=2.17	Mu=2.93	Mu=0.73	Mu=0.47	Mu=0.36	Mu=0.00
As=227.70	As=257.23	As=227.70	As=227.70	As=227.70	As=227.70
Vu=-2.48		Vu=5.28	Vu=-3.28		Vu=1.51

VT769/NE+25.55

B=0.15 H=0.50 L=4.80			B=0.15 H=0.80 L=2.56			B=0.15 H=0.80 L=0.93		
Mu=-3.89		Mu=-6.93	Mu=-10.15		Mu=-7.23	Mu=-8.52		Mu=-3.10
As=303.26		As=410.89	As=478.57		As=376.20	As=400.66		As=376.20
Mu=2.47	Mu=2.47	Mu=3.46	Mu=5.07	Mu=2.54	Mu=3.62	Mu=1.70	Mu=0.00	Mu=0.00
As=227.70	As=227.70	As=269.62	As=376.20	As=376.20	As=376.20	As=376.20	As=376.20	As=376.20
Vu=-5.03		Vu=6.11	Vu=-4.63		Vu=2.87	Vu=-4.97		Vu=-0.66

VT770/NE+25.55

B=0.25 H=0.30 L=5.55		
Mu=-3.14		Mu=-0.34
As=327.83		As=214.50
Mu=0.63	Mu=1.59	Mu=0.00
As=214.50	As=236.82	As=214.50
Vu=-3.56		Vu=2.32

MEMORIAS VIGUETAS PISO 12 NE+50.75m

VT701/NE+25.55m

B=0.20 H=0.80 L=2.52		
Mu=-0.00		Mu=-0.00
As=501.60		As=501.60
Mu=0.12	Mu=0.89	Mu=0.12
As=501.60	As=501.60	As=501.60
Vu=1.22		Vu=-1.22

VT702/NE+25.55m

B=0.20 H=0.80 L=4.47		
Mu=-0.00		Mu=-0.00
As=501.60		As=501.60
Mu=0.23	Mu=2.85	Mu=0.62
As=501.60	As=501.60	As=501.60
Vu=2.26		Vu=-2.08

VT703/NE+25.55m

B=0.20 H=0.80 L=3.10		
Mu=-0.00		Mu=-0.00
As=501.60		As=501.60
Mu=0.15	Mu=1.32	Mu=0.15
As=501.60	As=501.60	As=501.60
Vu=1.50		Vu=-1.50

VT707/NE+25.55m

B=0.15 H=0.80 L=1.28			B=0.15 H=0.80 L=1.30		
Mu=-0.00		Mu=-0.16	Mu=-0.16		Mu=-0.00
As=376.20		As=376.20	As=376.20		As=376.20
Mu=0.04	Mu=0.16	Mu=0.03	Mu=0.03	Mu=0.17	Mu=0.04
As=376.20	As=376.20	As=376.20	As=376.20	As=376.20	As=376.20
Vu=0.54		Vu=-0.85	Vu=0.86		Vu=-0.56

VT708/NE+25.55m

B=0.15 H=0.80 L=1.30		
Mu=-0.00		Mu=-0.00
As=376.20		As=376.20
Mu=0.18	Mu=0.35	Mu=0.06
As=376.20	As=376.20	As=376.20
Vu=0.61		Vu=-0.80

MEMORIAS VIGUETAS PISO 12 NE+50.75m

VT714/NE+25.55m

B=0.20 H=0.80 L=3.13		
Mu=-0.00		Mu=-0.00
As=501.60		As=501.60
Mu=0.43	Mu=1.48	Mu=0.16
As=501.60	As=501.60	As=501.60
Vu=1.43		Vu=-1.60

VT709/NE+25.55m

B=0.15 H=0.80 L=1.30			B=0.15 H=0.80 L=1.30		
Mu=-0.00		Mu=-0.16	Mu=-0.16		Mu=-0.00
As=376.20		As=376.20	As=376.20		As=376.20
Mu=0.04	Mu=0.17	Mu=0.03	Mu=0.03	Mu=0.17	Mu=0.04
As=376.20	As=376.20	As=376.20	As=376.20	As=376.20	As=376.20
Vu=0.55		Vu=-0.86	Vu=0.86		Vu=-0.55

VT711/NE+25.55m

B=0.15 H=0.80 L=2.02			B=0.15 H=0.80 L=4.12		
Mu=-0.00		Mu=-1.72	Mu=-1.58		Mu=-0.00
As=376.20		As=376.20	As=376.20		As=376.20
Mu=0.04	Mu=0.00	Mu=0.34	Mu=0.32	Mu=1.59	Mu=0.14
As=376.20	As=376.20	As=376.20	As=376.20	As=376.20	As=376.20
Vu=0.24		Vu=-1.96	Vu=2.66		Vu=-1.83

VT713/NE+25.55m

B=0.20 H=0.80 L=2.21		
Mu=-0.00		Mu=-0.00
As=501.60		As=501.60
Mu=0.11	Mu=0.70	Mu=0.11
As=501.60	As=501.60	As=501.60
Vu=1.07		Vu=-1.07

VT723/NE+25.55m

B=0.15 H=0.80 L=2.15		
Mu=-0.00		Mu=-0.00
As=376.20		As=376.20
Mu=0.25	Mu=0.74	Mu=0.11
As=376.20	As=376.20	As=376.20
Vu=0.98		Vu=-1.11

VT749/NE+25.55m

B=0.20 H=0.80 L=3.63			B=0.20 H=0.80 L=3.83			B=0.20 H=0.80 L=1.42		
Mu=-0.00		Mu=-6.39	Mu=-6.28		Mu=-1.26	Mu=-0.00		Mu=-0.00
As=501.60		As=501.60	As=501.60		As=501.60	As=501.60		As=501.60
Mu=0.00	Mu=0.00	Mu=1.28	Mu=2.09	Mu=1.26	Mu=1.48	Mu=1.51	Mu=1.18	Mu=0.37
As=501.60	As=501.60	As=501.60	As=501.60	As=501.60	As=501.60	As=501.60	As=501.60	As=501.60
Vu=0.00		Vu=-3.52	Vu=3.88		Vu=0.17	Vu=-0.11		Vu=-1.49

MEMORIAS VIGUETAS PISO 12 NE+50.75m

VT706/NE+25.55m

B=0.15 H=0.80 L=6.33		
Mu=-0.00		Mu=-0.00
As=376.20		As=376.20
Mu=0.26	Mu=5.72	Mu=0.26
As=376.20	As=376.20	As=376.20
Vu=3.45		Vu=-3.45

VT710/NE+25.55m

B=0.15 H=0.80 L=1.30			B=0.15 H=0.80 L=1.30		
Mu=-0.00		Mu=-0.16	Mu=-0.16		Mu=-0.00
As=376.20		As=376.20	As=376.20		As=376.20
Mu=0.04	Mu=0.17	Mu=0.03	Mu=0.03	Mu=0.17	Mu=0.04
As=376.20	As=376.20	As=376.20	As=376.20	As=376.20	As=376.20
Vu=0.55		Vu=-0.86	Vu=0.86		Vu=-0.55

VT712/NE+25.55m

B=0.20 H=0.80 L=3.14		
Mu=-0.00		Mu=-0.00
As=501.60		As=501.60
Mu=0.15	Mu=1.35	Mu=0.15
As=501.60	As=501.60	As=501.60
Vu=1.52		Vu=-1.52

VT715/NE+25.55m

B=0.20 H=0.80 L=2.35		
Mu=-0.00		Mu=-0.00
As=501.60		As=501.60
Mu=0.11	Mu=0.78	Mu=0.11
As=501.60	As=501.60	As=501.60
Vu=1.14		Vu=-1.14

VT730/NE+25.55m

B=0.20 H=0.80 L=7.26		
Mu=-0.00		Mu=-0.00
As=501.60		As=501.60
Mu=1.16	Mu=8.01	Mu=0.51
As=501.60	As=501.60	As=501.60
Vu=3.87		Vu=-4.05

VT771/NE+25.55m

B=0.15 H=0.50 L=4.67		
Mu=-0.00		Mu=-0.00
As=227.70		As=227.70
Mu=0.32	Mu=3.29	Mu=0.32
As=227.70	As=255.77	As=227.70
Vu=2.55		Vu=-2.55

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MEMORIAS VIGUETAS PISO 12 NE+50.75m

VT727/NE+25.55m

B=0.25 H=0.30 L=8.42		
Mu=-0.00		Mu=-0.00
As=214.50		As=214.50
Mu=1.35	Mu=10.63	Mu=0.58
As=502.98	As=1191.38	As=435.87
Vu=4.50		Vu=-4.68

VT800/NE+29.75

B=0.20 H=0.80 L=6.91			B=0.20 H=0.80 L=13.25			B=0.20 H=0.80 L=3.33		
Mu=-0.60		Mu=-37.35	Mu=-39.61		Mu=-9.90	Mu=-7.19		Mu=-4.86
As=501.60		As=1361.63	As=1448.38		As=501.60	As=503.06		As=501.60
Mu=0.00	Mu=0.00	Mu=7.47	Mu=19.81	Mu=13.61	Mu=9.90	Mu=4.86	Mu=4.86	Mu=4.86
As=501.60	As=501.60	As=501.60	As=705.93	As=641.76	As=501.60	As=501.60	As=501.60	As=501.60
Vu=1.82		Vu=8.39	Vu=-11.93		Vu=7.52	Vu=5.94		Vu=-4.03

VT813/NE+29.75

B=0.20 H=0.80 L=1.15			B=0.20 H=0.80 L=5.10			B=0.20 H=0.80 L=1.77		
Mu=-0.16		Mu=-0.05	Mu=-4.67		Mu=-18.67	Mu=-14.96		Mu=-4.93
As=501.60		As=501.60	As=501.60		As=664.54	As=530.07		As=501.60
Mu=0.00	Mu=0.68	Mu=0.31	Mu=4.67	Mu=6.37	Mu=9.34	Mu=7.48	Mu=3.74	Mu=3.74
As=501.60	As=501.60	As=501.60	As=501.60	As=501.60	As=501.60	As=501.60	As=501.60	As=501.60
Vu=-2.16		Vu=1.73	Vu=-6.22		Vu=11.58	Vu=-6.82		Vu=2.77

VT814/NE+29.75

B=0.15 H=0.50 L=3.06		
Mu=-4.88		Mu=-6.67
As=286.66		As=395.00
Mu=2.44	Mu=3.54	Mu=3.34
As=227.70	As=275.55	As=259.36
Vu=-5.77		Vu=6.35

VT815/NE+29.75

B=0.20 H=0.80 L=4.85			B=0.20 H=0.80 L=1.69		
Mu=-5.31		Mu=-7.07	Mu=-11.23		Mu=-0.00
As=501.60		As=501.60	As=528.02		As=501.60
Mu=2.65	Mu=3.69	Mu=3.54	Mu=2.25	Mu=0.81	Mu=2.14
As=501.60	As=501.60	As=501.60	As=501.60	As=501.60	As=501.60
Vu=-6.16		Vu=6.73	Vu=-7.81		Vu=2.75

VT817/NE+29.75

B=0.15 H=0.80 L=4.08		
Mu=-10.57		Mu=-3.58
As=498.71		As=376.20
Mu=5.28	Mu=2.64	Mu=2.64
As=376.20	As=376.20	As=376.20
Vu=-6.90		Vu=3.98

VT818/NE+29.75

B=0.20 H=0.80 L=12.87			B=0.20 H=0.80 L=11.11		
Mu=-19.40		Mu=-36.15	Mu=-30.05		Mu=-0.00
As=691.14		As=1315.78	As=1085.07		As=501.60
Mu=9.70	Mu=13.10	Mu=18.08	Mu=6.01	Mu=1.03	Mu=4.18
As=501.60	As=645.12	As=755.50	As=501.60	As=501.60	As=501.60
Vu=-6.73		Vu=29.43	Vu=-8.99		Vu=1.19

VT819/NE+29.75

B=0.20 H=0.80 L=13.30			B=0.20 H=0.80 L=14.89		
Mu=-22.04		Mu=-25.67	Mu=-27.03		Mu=-18.14
As=787.78		As=921.74	As=972.25		As=645.25
Mu=11.02	Mu=17.52	Mu=12.84	Mu=13.52	Mu=18.12	Mu=9.07
As=518.01	As=622.72	As=604.65	As=637.21	As=644.52	As=501.60
Vu=-9.77		Vu=9.06	Vu=-9.07		Vu=1.99

VT820/NE+29.75

B=0.25 H=0.80 L=3.66			B=0.25 H=0.80 L=3.29			B=0.25 H=0.80 L=0.53		
Mu=-0.00		Mu=-9.74	Mu=-7.68		Mu=-7.78	Mu=-10.71		Mu=-3.67
As=627.00		As=627.00	As=627.00		As=627.00	As=627.00		As=627.00
Mu=8.56	Mu=11.79	Mu=1.95	Mu=3.84	Mu=1.95	Mu=3.89	Mu=2.14	Mu=0.00	Mu=0.00
As=627.00	As=642.04	As=627.00	As=627.00	As=627.00	As=627.00	As=627.00	As=627.00	As=627.00
Vu=3.36		Vu=9.71	Vu=-3.97		Vu=4.58	Vu=-5.91		Vu=-2.85

VT821/NE+29.75

B=0.15 H=0.80 L=9.14			B=0.15 H=0.80 L=11.20			B=0.15 H=0.80 L=11.20		
Mu=-0.00		Mu=-10.35	Mu=-10.50		Mu=-7.16	Mu=-9.07		Mu=-8.37
As=376.20		As=488.15	As=495.35		As=376.20	As=426.90		As=393.51
Mu=4.38	Mu=6.42	Mu=2.07	Mu=5.25	Mu=6.38	Mu=3.58	Mu=4.53	Mu=6.38	Mu=4.18
As=376.20	As=376.20	As=376.20	As=376.20	As=376.20	As=376.20	As=376.20	As=376.20	As=376.20
Vu=-0.43		Vu=3.69	Vu=-3.18		Vu=2.94	Vu=-2.75		Vu=3.28

B=0.15 H=0.80 L=9.14		
Mu=-11.58		Mu=-0.00
As=410.55		As=376.20
Mu=2.32	Mu=6.13	Mu=5.40
As=376.20	As=376.20	As=376.20
Vu=-3.30		Vu=0.60

VT822/NE+29.75

B=0.20 H=0.80 L=5.73			B=0.20 H=0.80 L=11.20			B=0.20 H=0.80 L=11.20		
Mu=-0.98		Mu=-36.95	Mu=-26.98		Mu=-13.33	Mu=-15.32		Mu=-15.11
As=501.60		As=1346.33	As=970.39		As=628.35	As=543.06		As=535.48
Mu=0.00	Mu=0.00	Mu=7.39	Mu=13.49	Mu=7.39	Mu=6.74	Mu=7.66	Mu=9.09	Mu=7.55
As=501.60	As=501.60	As=501.60	As=636.01	As=501.60	As=501.60	As=501.60	As=501.60	As=501.60
Vu=2.63		Vu=8.37	Vu=-9.39		Vu=6.77	Vu=-7.05		Vu=7.26

B=0.20 H=0.80 L=11.20			B=0.20 H=0.80 L=11.15			B=0.20 H=0.80 L=5.72		
Mu=-16.21		Mu=-14.44	Mu=-14.83		Mu=-23.89	Mu=-35.66		Mu=-0.56
As=575.23		As=511.32	As=525.38		As=855.89	As=1297.11		As=501.60
Mu=8.10	Mu=9.05	Mu=7.22	Mu=7.87	Mu=7.87	Mu=11.94	Mu=7.13	Mu=0.00	Mu=0.00
As=501.60	As=501.60	As=501.60	As=501.60	As=501.60	As=562.12	As=501.60	As=501.60	As=501.60
Vu=-7.22		Vu=7.12	Vu=-6.84		Vu=9.18	Vu=-8.58		Vu=-2.14

VT823/NE+29.75

B=0.20 H=0.80 L=3.03			B=0.20 H=0.80 L=4.87			B=0.20 H=0.80 L=1.84		
Mu=-0.48		Mu=-8.24	Mu=-10.29		Mu=-10.44	Mu=-8.95		Mu=-0.79
As=501.60		As=501.60	As=501.60		As=501.60	As=501.60		As=501.60
Mu=0.00	Mu=0.00	Mu=1.65	Mu=5.14	Mu=3.57	Mu=5.22	Mu=1.79	Mu=0.00	Mu=0.00
As=501.60	As=501.60	As=501.60	As=501.60	As=501.60	As=501.60	As=501.60	As=501.60	As=501.60
Vu=-0.45		Vu=5.50	Vu=-8.57		Vu=8.70	Vu=-8.21		Vu=-4.76

VT825/NE+29.75

B=0.15 H=0.50 L=3.40		
Mu=-6.19		Mu=-6.74
As=365.77		As=399.27
Mu=3.10	Mu=2.98	Mu=3.37
As=240.44	As=231.39	As=262.12
Vu=-6.01		Vu=6.19

VT827/NE+29.75

B=0.20 H=0.80 L=2.10			B=0.20 H=0.80 L=4.75			B=0.20 H=0.80 L=2.94		
Mu=-0.16		Mu=-9.15	Mu=-6.93		Mu=-9.24	Mu=-12.63		Mu=-0.00
As=501.60		As=501.60	As=501.60		As=501.60	As=594.85		As=501.60
Mu=0.00	Mu=0.00	Mu=1.83	Mu=3.46	Mu=2.31	Mu=4.62	Mu=2.53	Mu=0.00	Mu=3.47
As=501.60	As=501.60	As=501.60	As=501.60	As=501.60	As=501.60	As=501.60	As=501.60	As=501.60
Vu=-0.23		Vu=6.15	Vu=-6.10		Vu=6.85	Vu=-10.64		Vu=-6.33

VT828/NE+29.75

B=0.15 H=0.80 L=2.10			B=0.15 H=0.80 L=4.75			B=0.15 H=0.80 L=4.96		
Mu=-0.17		Mu=-12.47	Mu=-11.34		Mu=-12.49	Mu=-9.80		Mu=-0.00
As=376.20		As=442.74	As=401.88		As=443.47	As=461.80		As=376.20
Mu=0.00	Mu=0.00	Mu=2.49	Mu=5.67	Mu=3.49	Mu=6.24	Mu=1.96	Mu=4.48	Mu=4.46
As=376.20	As=376.20	As=376.20	As=376.20	As=376.20	As=376.20	As=376.20	As=376.20	As=376.20
Vu=1.22		Vu=7.24	Vu=-9.90		Vu=10.27	Vu=-8.54		Vu=2.85

VT829/NE+29.75

B=0.25 H=0.80 L=5.90			B=0.25 H=0.80 L=2.51		
Mu=-9.06		Mu=-7.35	Mu=-3.35		Mu=-0.41
As=627.00		As=627.00	As=627.00		As=627.00
Mu=4.53	Mu=11.53	Mu=3.67	Mu=0.67	Mu=0.67	Mu=0.00
As=627.00	As=627.00	As=627.00	As=627.00	As=627.00	As=627.00
Vu=-8.40		Vu=8.16	Vu=-4.62		Vu=2.51

VT830/NE+29.75

B=0.15 H=0.80 L=6.10		
Mu=-10.02		Mu=-0.86
As=472.34		As=376.20
Mu=2.00	Mu=5.52	Mu=0.00
As=376.20	As=376.20	As=376.20
Vu=-8.53		Vu=5.58

VT831/NE+29.75

B=0.15 H=0.50 L=5.65			B=0.15 H=0.50 L=1.45		
Mu=-0.00		Mu=-3.59	Mu=-3.49		Mu=-0.00
As=227.70		As=279.50	As=271.59		As=227.70
Mu=0.65	Mu=1.28	Mu=0.72	Mu=0.70	Mu=0.00	Mu=0.26
As=227.70	As=227.70	As=227.70	As=227.70	As=227.70	As=227.70
Vu=-2.33		Vu=4.52	Vu=-3.85		Vu=0.92

VT832/NE+29.75

B=0.15 H=0.50 L=5.65			B=0.15 H=0.50 L=1.45		
Mu=-4.63		Mu=-8.47	Mu=-5.93		Mu=-0.00
As=271.67		As=505.81	As=349.99		As=227.70
Mu=2.32	Mu=4.68	Mu=4.24	Mu=1.19	Mu=0.00	Mu=1.08
As=227.70	As=274.66	As=248.05	As=227.70	As=227.70	As=227.70
Vu=-6.09		Vu=7.23	Vu=-5.27		Vu=-0.80

VT833/NE+29.75

B=0.15 H=0.50 L=5.60		
Mu=-4.63		Mu=-8.47
As=271.67		As=505.81
Mu=2.32	Mu=4.68	Mu=4.24
As=227.70	As=274.66	As=248.05
Vu=-6.09		Vu=7.23

VT834/NE+29.75

B=0.15 H=0.50 L=2.10			B=0.15 H=0.50 L=4.75			B=0.15 H=0.80 L=8.50		
Mu=-0.00		Mu=-5.87	Mu=-6.56		Mu=-4.86	Mu=-11.30		Mu=-11.02
As=227.70		As=346.35	As=388.29		As=285.46	As=400.44		As=390.34
Mu=0.58	Mu=0.00	Mu=1.17	Mu=3.28	Mu=2.10	Mu=2.43	Mu=5.65	Mu=3.79	Mu=5.51
As=227.70	As=227.70	As=227.70	As=255.02	As=227.70	As=227.70	As=376.20	As=376.20	As=376.20
Vu=-0.96		Vu=5.06	Vu=-5.85		Vu=5.25	Vu=-8.32		Vu=8.22

VT835/NE+29.75

B=0.15 H=0.50 L=2.10			B=0.15 H=0.50 L=4.75			B=0.15 H=0.80 L=6.81		
Mu=-0.08		Mu=-4.12	Mu=-4.58		Mu=-7.46	Mu=-19.05		Mu=-0.00
As=227.70		As=241.20	As=268.67		As=443.40	As=683.80		As=376.20
Mu=0.62	Mu=0.20	Mu=0.82	Mu=2.29	Mu=1.87	Mu=3.73	Mu=3.81	Mu=6.18	Mu=2.51
As=227.70	As=227.70	As=227.70	As=227.70	As=227.70	As=290.58	As=376.20	As=379.70	As=376.20
Vu=-1.69		Vu=4.33	Vu=-5.04		Vu=6.06	Vu=-10.80		Vu=5.69

VT836/NE+29.75

B=0.15 H=0.50 L=2.10			B=0.15 H=0.50 L=4.75			B=0.15 H=0.80 L=4.97		
Mu=-0.38		Mu=-2.87	Mu=-2.57		Mu=-10.28	Mu=-23.93		Mu=-0.00
As=227.70		As=227.70	As=227.70		As=619.23	As=866.17		As=376.20
Mu=0.00	Mu=0.67	Mu=0.57	Mu=2.57	Mu=2.57	Mu=5.14	Mu=4.79	Mu=0.00	Mu=2.38
As=227.70	As=227.70	As=227.70	As=227.70	As=227.70	As=302.28	As=376.20	As=376.20	As=376.20
Vu=-2.20		Vu=3.83	Vu=-4.11		Vu=6.97	Vu=-10.94		Vu=-0.44

VT837/NE+29.75

B=0.25 H=0.80 L=6.81		
Mu=-0.00		Mu=-20.69
As=627.00		As=734.52
Mu=9.62	Mu=7.48	Mu=4.14
As=627.00	As=627.00	As=627.00
Vu=-2.49		Vu=11.73

VT838/NE+29.75

B=0.15 H=0.50 L=5.70			B=0.15 H=0.50 L=1.50		
Mu=-9.24		Mu=-6.38	Mu=-3.82		Mu=-0.00
As=553.81		As=377.32	As=297.71		As=227.70
Mu=4.62	Mu=3.42	Mu=3.42	Mu=0.76	Mu=0.00	Mu=0.30
As=271.07	As=266.06	As=266.06	As=227.70	As=227.70	As=227.70
Vu=-7.08		Vu=6.23	Vu=-4.04		Vu=0.79

VT839/NE+29.75

B=0.15 H=0.50 L=0.65			B=0.15 H=0.50 L=5.70			B=0.15 H=0.50 L=1.45		
Mu=-0.00		Mu=-1.69	Mu=-7.46		Mu=-6.66	Mu=-2.45		Mu=-0.61
As=227.70		As=227.70	As=443.40		As=394.39	As=227.70		As=227.70
Mu=0.05	Mu=0.00	Mu=0.34	Mu=3.73	Mu=4.17	Mu=3.33	Mu=1.23	Mu=0.61	Mu=0.61
As=227.70	As=227.70	As=227.70	As=290.58	As=290.58	As=258.96	As=227.70	As=227.70	As=227.70
Vu=1.59		Vu=3.07	Vu=-6.78		Vu=6.54	Vu=-3.29		Vu=1.54

VT840/NE+29.75

B=0.15 H=0.50 L=2.10			B=0.15 H=0.50 L=4.90			B=0.15 H=0.80 L=4.00		
Mu=-0.46		Mu=-2.46	Mu=-2.95		Mu=-11.81	Mu=-24.97		Mu=-0.00
As=227.70		As=227.70	As=229.23		As=716.74	As=905.45		As=376.20
Mu=0.00	Mu=0.84	Mu=0.49	Mu=2.95	Mu=2.95	Mu=5.91	Mu=4.99	Mu=0.00	Mu=3.54
As=227.70	As=227.70	As=227.70	As=229.23	As=229.23	As=348.48	As=376.20	As=376.20	As=376.20
Vu=-2.36		Vu=3.67	Vu=-3.67		Vu=7.40	Vu=-11.41		Vu=-0.89

VT841/NE+29.75

B=0.15 H=0.50 L=2.10			B=0.15 H=0.50 L=4.90			B=0.15 H=0.80 L=4.00		
Mu=-0.46		Mu=-2.46	Mu=-2.95		Mu=-11.81	Mu=-24.97		Mu=-0.00
As=227.70		As=227.70	As=229.23		As=716.74	As=905.45		As=376.20
Mu=0.00	Mu=0.84	Mu=0.49	Mu=2.95	Mu=2.95	Mu=5.91	Mu=4.99	Mu=0.00	Mu=3.54
As=227.70	As=227.70	As=227.70	As=229.23	As=229.23	As=348.48	As=376.20	As=376.20	As=376.20
Vu=-2.36		Vu=3.67	Vu=-3.67		Vu=7.40	Vu=-11.41		Vu=-0.89

VT842/NE+29.75

B=0.15 H=0.50 L=2.10			B=0.15 H=0.50 L=5.25			B=0.15 H=0.80 L=3.65		
Mu=-0.00		Mu=-5.21	Mu=-6.22		Mu=-6.62	Mu=-9.60		Mu=-2.67
As=227.70		As=306.50	As=367.59		As=391.95	As=452.23		As=376.20
Mu=1.14	Mu=1.04	Mu=1.04	Mu=3.11	Mu=2.54	Mu=3.31	Mu=4.80	Mu=2.40	Mu=2.40
As=227.70	As=227.70	As=227.70	As=241.62	As=227.70	As=257.38	As=376.20	As=376.20	As=376.20
Vu=-0.95		Vu=5.07	Vu=-5.88		Vu=6.01	Vu=-6.39		Vu=3.06

VT843/NE+29.75

B=0.15 H=0.50 L=5.15			B=0.15 H=0.80 L=3.65		
Mu=-1.98		Mu=-6.84	Mu=-9.22		Mu=-2.31
As=227.70		As=405.38	As=434.07		As=376.20
Mu=1.71	Mu=1.71	Mu=3.42	Mu=4.61	Mu=2.31	Mu=2.31
As=227.70	As=227.70	As=266.06	As=376.20	As=376.20	As=376.20
Vu=-3.68		Vu=5.72	Vu=-6.66		Vu=2.83

VT844/NE+29.75

B=0.50 H=0.80 L=2.04			B=0.50 H=0.80 L=2.09		
Mu=-0.00		Mu=-5.81	Mu=-13.63		Mu=-3.45
As=1254.00		As=1254.00	As=1254.00		As=1254.00
Mu=0.40	Mu=0.00	Mu=1.16	Mu=6.82	Mu=3.41	Mu=3.41
As=1254.00	As=1254.00	As=1254.00	As=1254.00	As=1254.00	As=1254.00
Vu=1.76		Vu=4.88	Vu=-7.18		Vu=2.33

VT845/NE+29.75

B=0.20 H=0.80 L=3.62			B=0.20 H=0.80 L=6.05		
Mu=-3.92		Mu=-0.98	Mu=-4.35		Mu=-17.39
As=501.60		As=501.60	As=501.60		As=618.00
Mu=0.98	Mu=0.98	Mu=0.98	Mu=7.99	Mu=8.69	Mu=8.69
As=501.60	As=501.60	As=501.60	As=501.60	As=501.60	As=501.60
Vu=-3.81		Vu=1.44	Vu=-4.10		Vu=9.40

VT847/NE+29.75

B=0.20 H=0.80 L=1.35			B=0.20 H=0.80 L=5.86			B=0.20 H=0.80 L=4.17		
Mu=-0.05		Mu=-0.16	Mu=-4.90		Mu=-19.61	Mu=-9.64		Mu=-7.69
As=501.60		As=501.60	As=501.60		As=698.81	As=501.60		As=501.60
Mu=0.00	Mu=0.41	Mu=0.13	Mu=4.90	Mu=4.90	Mu=9.81	Mu=4.82	Mu=2.41	Mu=3.85
As=501.60	As=501.60	As=501.60	As=501.60	As=501.60	As=501.60	As=501.60	As=501.60	As=501.60
Vu=-1.22		Vu=1.36	Vu=-4.28		Vu=10.34	Vu=-2.76		Vu=0.29

VT848/NE+29.75

B=0.15 H=0.80 L=3.72		
Mu=-1.66		Mu=-0.91
As=376.20		As=376.20
Mu=0.33	Mu=2.02	Mu=0.00
As=376.20	As=376.20	As=376.20
Vu=-3.82		Vu=3.40

VT849/NE+29.75

B=0.15 H=0.50 L=5.30			B=0.15 H=0.80 L=1.09		
Mu=-5.52		Mu=-5.95	Mu=-1.81		Mu=-0.02
As=325.19		As=351.20	As=376.20		As=376.20
Mu=2.76	Mu=3.44	Mu=2.97	Mu=0.36	Mu=0.00	Mu=0.00
As=227.70	As=267.64	As=230.99	As=376.20	As=376.20	As=376.20
Vu=-5.94		Vu=6.09	Vu=-2.77		Vu=-0.27

VT850/NE+29.75

B=0.15 H=0.50 L=5.30			B=0.15 H=0.80 L=3.65		
Mu=-4.96		Mu=-7.09	Mu=-9.51		Mu=-2.38
As=291.46		As=420.68	As=447.93		As=376.20
Mu=3.15	Mu=3.15	Mu=3.55	Mu=4.76	Mu=2.38	Mu=2.38
As=244.77	As=244.77	As=275.94	As=376.20	As=376.20	As=376.20
Vu=-5.67		Vu=6.36	Vu=-6.77		Vu=2.72

VT851/NE+29.75

B=0.25 H=0.80 L=5.14		
Mu=-0.00		Mu=-16.95
As=627.00		As=799.21
Mu=1.50	Mu=0.00	Mu=3.39
As=627.00	As=627.00	As=627.00
Vu=-0.58		Vu=8.08

VT852/NE+29.75

B=0.15 H=0.50 L=5.13			B=0.15 H=0.80 L=3.50		
Mu=-4.56		Mu=-7.30	Mu=-4.95		Mu=-3.40
As=267.48		As=433.57	As=376.20		As=376.20
Mu=2.88	Mu=2.88	Mu=3.65	Mu=2.47	Mu=1.24	Mu=1.70
As=227.70	As=227.70	As=284.25	As=376.20	As=376.20	As=376.20
Vu=-5.44		Vu=6.35	Vu=-5.19		Vu=4.46

VT853/NE+29.75

B=0.15 H=0.50 L=4.96			B=0.15 H=0.80 L=6.00		
Mu=-2.33		Mu=-9.30	Mu=-10.27		Mu=-10.06
As=227.70		As=557.57	As=484.32		As=474.25
Mu=2.33	Mu=2.98	Mu=4.65	Mu=5.14	Mu=5.47	Mu=5.03
As=227.70	As=231.07	As=272.87	As=376.20	As=376.20	As=376.20
Vu=-4.58		Vu=6.97	Vu=-8.45		Vu=8.40

VT854/NE+29.75

B=0.15 H=0.50 L=4.80			B=0.15 H=0.80 L=5.56		
Mu=-0.82		Mu=-10.48	Mu=-5.25		Mu=-4.11
As=227.70		As=631.89	As=376.20		As=376.20
Mu=0.00	Mu=2.45	Mu=2.10	Mu=2.63	Mu=1.31	Mu=2.06
As=227.70	As=237.37	As=227.70	As=376.20	As=376.20	As=376.20
Vu=-3.97		Vu=7.34	Vu=-5.13		Vu=4.60

VT855/NE+29.75

B=0.15 H=0.50 L=5.95			B=0.15 H=0.50 L=1.45		
Mu=-5.96		Mu=-8.35	Mu=-5.59		Mu=-0.00
As=351.81		As=498.37	As=329.42		As=227.70
Mu=2.98	Mu=4.49	Mu=4.18	Mu=1.12	Mu=0.00	Mu=0.93
As=231.39	As=263.29	As=244.48	As=227.70	As=227.70	As=227.70
Vu=-6.43		Vu=7.13	Vu=-5.08		Vu=-0.58

VT856/NE+29.75

B=0.15 H=0.50 L=4.80		
Mu=-0.65		Mu=-10.44
As=227.70		As=629.36
Mu=0.00	Mu=2.33	Mu=2.09
As=227.70	As=229.97	As=227.70
Vu=-3.84		Vu=7.31

VT857/NE+29.75

B=0.15 H=0.80 L=3.30		
Mu=-4.90		Mu=-4.02
As=376.20		As=376.20
Mu=2.45	Mu=1.23	Mu=2.01
As=376.20	As=376.20	As=376.20
Vu=-3.93		Vu=3.39

VT858/NE+29.75

B=0.15 H=0.50 L=5.34			B=0.15 H=0.50 L=1.45		
Mu=-0.00		Mu=-3.93	Mu=-2.94		Mu=-0.04
As=227.70		As=229.88	As=228.24		As=227.70
Mu=2.14	Mu=2.75	Mu=0.79	Mu=0.59	Mu=0.00	Mu=0.30
As=227.70	As=245.56	As=227.70	As=227.70	As=227.70	As=227.70
Vu=-2.42		Vu=5.34	Vu=-3.59		Vu=1.20

VT859/NE+29.75

B=0.25 H=0.80 L=6.37			B=0.25 H=0.80 L=2.56		
Mu=-13.03		Mu=-3.46	Mu=-4.47		Mu=-0.17
As=627.00		As=627.00	As=627.00		As=627.00
Mu=6.51	Mu=3.57	Mu=3.26	Mu=0.89	Mu=0.58	Mu=0.00
As=627.00	As=627.00	As=627.00	As=627.00	As=627.00	As=627.00
Vu=-7.28		Vu=-4.96	Vu=-5.18		Vu=2.03

VT860/NE+29.75

B=0.15 H=0.50 L=4.80			B=0.15 H=0.80 L=3.87		
Mu=-2.27		Mu=-9.09	Mu=-14.63		Mu=-6.06
As=227.70		As=544.43	As=521.28		As=376.20
Mu=2.27	Mu=2.74	Mu=4.55	Mu=7.32	Mu=3.66	Mu=3.66
As=227.70	As=227.70	As=266.58	As=376.20	As=376.20	As=376.20
Vu=-4.30		Vu=6.84	Vu=-7.38		Vu=-4.17

VT861/NE+29.75

B=0.15 H=0.50 L=4.80			B=0.15 H=0.80 L=2.56			B=0.15 H=0.80 L=0.93		
Mu=-3.90		Mu=-6.92	Mu=-9.90		Mu=-7.51	Mu=-8.26		Mu=-3.10
As=228.09		As=410.28	As=466.59		As=376.20	As=388.27		As=376.20
Mu=2.46	Mu=2.46	Mu=3.46	Mu=4.95	Mu=2.47	Mu=3.76	Mu=1.65	Mu=0.00	Mu=0.00
As=227.70	As=227.70	As=269.22	As=376.20	As=376.20	As=376.20	As=376.20	As=376.20	As=376.20
Vu=-5.04		Vu=6.11	Vu=-4.47		Vu=3.02	Vu=-4.84		Vu=-0.55

VT862/NE+29.75

B=0.25 H=0.30 L=5.55		
Mu=-3.14		Mu=-0.35
As=327.83		As=214.50
Mu=0.63	Mu=1.58	Mu=0.00
As=214.50	As=235.43	As=214.50
Vu=-3.56		Vu=2.32

VT863/NE+29.75

B=0.15 H=0.80 L=3.17		
Mu=-1.74		Mu=-0.00
As=376.20		As=376.20
Mu=0.35	Mu=4.64	Mu=5.88
As=376.20	As=376.20	As=376.20
Vu=-5.94		Vu=0.88

VT868/NE+29.75

B=0.20 H=0.80 L=0.17			B=0.20 H=0.80 L=3.83		
Mu=-15.25		Mu=-3.81	Mu=-15.25		Mu=-0.00
As=540.53		As=501.60	As=540.53		As=501.60
Mu=3.81	Mu=3.81	Mu=4.90	Mu=3.05	Mu=0.00	Mu=4.90
As=501.60	As=501.60	As=501.60	As=501.60	As=501.60	As=501.60
Vu=-5.61		Vu=-3.59	Vu=-5.61		Vu=-3.59

MEMORIAS VIGUETAS PISO 12 NE+50.75m

VT801/NE+29.75m

B=0.20 H=0.80 L=2.52		
Mu=-0.00		Mu=-0.00
As=501.60		As=501.60
Mu=0.12	Mu=0.89	Mu=0.12
As=501.60	As=501.60	As=501.60
Vu=1.22		Vu=-1.22

VT802/NE+29.75m

B=0.15 H=0.80 L=4.33		
Mu=-0.00		Mu=-0.00
As=376.20		As=376.20
Mu=0.21	Mu=2.48	Mu=0.21
As=376.20	As=376.20	As=376.20
Vu=2.10		Vu=-2.10

VT803/NE+29.75m

B=0.20 H=0.80 L=4.47		
Mu=-0.00		Mu=-0.00
As=501.60		As=501.60
Mu=0.23	Mu=2.85	Mu=0.62
As=501.60	As=501.60	As=501.60
Vu=2.26		Vu=-2.08

VT804/NE+29.75m

B=0.20 H=0.80 L=3.07		
Mu=-0.00		Mu=-0.00
As=501.60		As=501.60
Mu=0.15	Mu=1.30	Mu=0.16
As=501.60	As=501.60	As=501.60
Vu=1.49		Vu=-1.49

VT805/NE+29.75m

B=0.20 H=0.80 L=2.21		
Mu=-0.00		Mu=-0.00
As=501.60		As=501.60
Mu=0.11	Mu=0.70	Mu=0.11
As=501.60	As=501.60	As=501.60
Vu=1.07		Vu=-1.07

MEMORIAS VIGUETAS PISO 12 NE+50.75m

VT806/NE+29.75m

B=0.20 H=0.80 L=3.10		
Mu=-0.00		Mu=-0.00
As=501.60		As=501.60
Mu=0.15	Mu=1.32	Mu=0.15
As=501.60	As=501.60	As=501.60
Vu=1.50		Vu=-1.50

VT807/NE+29.75m

B=0.15 H=0.80 L=6.32		
Mu=-0.00		Mu=-0.00
As=376.20		As=376.20
Mu=0.26	Mu=5.70	Mu=0.26
As=376.20	As=376.20	As=376.20
Vu=3.44		Vu=-3.44

VT808/NE+29.75m

B=0.15 H=0.80 L=1.32			B=0.15 H=0.80 L=1.28		
Mu=-0.00		Mu=-0.17	Mu=-0.19		Mu=-0.00
As=376.20		As=376.20	As=376.20		As=376.20
Mu=0.12	Mu=0.21	Mu=0.03	Mu=0.04	Mu=0.15	Mu=0.04
As=376.20	As=376.20	As=376.20	As=376.20	As=376.20	As=376.20
Vu=0.50		Vu=-0.94	Vu=0.88		Vu=-0.52

VT809/NE+29.75m

B=0.15 H=0.80 L=1.30			B=0.15 H=0.80 L=1.29		
Mu=-0.00		Mu=-0.16	Mu=-0.16		Mu=-0.00
As=376.20		As=376.20	As=376.20		As=376.20
Mu=0.04	Mu=0.17	Mu=0.03	Mu=0.03	Mu=0.17	Mu=0.04
As=376.20	As=376.20	As=376.20	As=376.20	As=376.20	As=376.20
Vu=0.56		Vu=-0.86	Vu=0.86		Vu=-0.55

VT810/NE+29.75m

B=0.15 H=0.80 L=1.31			B=0.15 H=0.80 L=1.31		
Mu=-0.00		Mu=-0.16	Mu=-0.16		Mu=-0.00
As=376.20		As=376.20	As=376.20		As=376.20
Mu=0.04	Mu=0.17	Mu=0.03	Mu=0.03	Mu=0.17	Mu=0.04
As=376.20	As=376.20	As=376.20	As=376.20	As=376.20	As=376.20
Vu=0.56		Vu=-0.87	Vu=0.87		Vu=-0.56

VT811/NE+29.75m

B=0.15 H=0.80 L=2.04			B=0.15 H=0.80 L=4.23		
Mu=-0.00		Mu=-1.82	Mu=-1.67		Mu=-0.00
As=376.20		As=376.20	As=376.20		As=376.20
Mu=0.04	Mu=0.00	Mu=0.36	Mu=0.33	Mu=1.67	Mu=0.14
As=376.20	As=376.20	As=376.20	As=376.20	As=376.20	As=376.20
Vu=0.21		Vu=-2.01	Vu=2.73		Vu=-1.88

MEMORIAS VIGUETAS PISO 12 NE+50.75m

VT812/NE+29.75m

B=0.20 H=0.80 L=3.13		
Mu=-0.00		Mu=-0.00
As=501.60		As=501.60
Mu=0.43	Mu=1.48	Mu=0.16
As=501.60	As=501.60	As=501.60
Vu=1.43		Vu=-1.60

VT846/NE+29.75m

B=0.15 H=0.80 L=2.25		
Mu=-0.00		Mu=-0.00
As=376.20		As=376.20
Mu=0.12	Mu=0.81	Mu=0.12
As=376.20	As=376.20	As=376.20
Vu=1.23		Vu=-1.23

VT816/NE+29.75m

B=0.20 H=0.80 L=2.33		
Mu=-0.00		Mu=-0.00
As=501.60		As=501.60
Mu=0.11	Mu=0.77	Mu=0.11
As=501.60	As=501.60	As=501.60
Vu=1.13		Vu=-1.13

VT826/NE+29.75m

B=0.20 H=0.80 L=7.26		
Mu=-0.00		Mu=-0.00
As=501.60		As=501.60
Mu=1.16	Mu=8.01	Mu=0.51
As=501.60	As=501.60	As=501.60
Vu=3.87		Vu=-4.05

VT864/NE+29.75m

B=0.15 H=0.50 L=4.67		
Mu=-0.00		Mu=-0.00
As=227.70		As=227.70
Mu=0.32	Mu=3.29	Mu=0.32
As=227.70	As=255.77	As=227.70
Vu=2.55		Vu=-2.55

VT865/NE+29.75m

B=0.15 H=0.45 L=5.00		
Mu=-0.00		Mu=-0.00
As=202.95		As=202.95
Mu=0.34	Mu=3.75	Mu=0.34
As=202.95	As=246.76	As=202.95
Vu=2.73		Vu=-2.72

MEMORIAS VIGUETAS PISO 12 NE+50.75m

VT824/NE+29.75m

B=0.25 H=0.30 L=8.42		
Mu=-0.00		Mu=-0.00
As=214.50		As=214.50
Mu=1.35	Mu=10.63	Mu=0.58
As=502.98	As=1191.38	As=435.87
Vu=4.50		Vu=-4.68

VT866/NE+29.75m

B=0.15 H=0.50 L=2.60			B=0.15 H=0.50 L=1.49		
Mu=-0.00		Mu=-0.47	Mu=-0.62		Mu=-0.00
As=227.70		As=227.70	As=227.70		As=227.70
Mu=0.10	Mu=0.73	Mu=0.09	Mu=0.12	Mu=0.01	Mu=0.10
As=227.70	As=227.70	As=227.70	As=227.70	As=227.70	As=227.70
Vu=1.20		Vu=-1.63	Vu=1.26		Vu=-0.36

VT867/NE+29.75m

B=0.20 H=0.80 L=5.04		
Mu=-0.00		Mu=-0.00
As=501.60		As=501.60
Mu=0.73	Mu=8.77	Mu=0.73
As=501.60	As=501.60	As=501.60
Vu=6.38		Vu=-6.38

VT900/NE+33.95

B=0.20 H=0.80 L=6.91			B=0.20 H=0.80 L=13.25			B=0.20 H=0.80 L=3.33		
Mu=-0.64		Mu=-37.34	Mu=-39.46		Mu=-22.99	Mu=-24.49		Mu=-7.99
As=501.60		As=1361.24	As=1442.61		As=822.72	As=878.05		As=501.60
Mu=0.00	Mu=0.00	Mu=7.47	Mu=19.73	Mu=12.90	Mu=13.14	Mu=4.90	Mu=0.00	Mu=0.00
As=501.60	As=501.60	As=501.60	As=703.19	As=619.25	As=619.25	As=501.60	As=501.60	As=501.60
Vu=1.82		Vu=8.39	Vu=-11.87		Vu=10.03	Vu=-7.63		Vu=-4.58

VT904/NE+33.95

B=0.25 H=0.35 L=10.77		
Mu=-4.08		Mu=-3.92
As=356.45		As=342.14
Mu=3.92	Mu=15.64	Mu=3.92
As=342.14	As=1480.76	As=588.31
Vu=-4.74		Vu=5.24

VT906/NE+33.95

B=0.15 H=0.80 L=4.37		
Mu=-1.68		Mu=-0.00
As=376.20		As=376.20
Mu=0.34	Mu=6.84	Mu=2.71
As=376.20	As=376.20	As=376.20
Vu=-5.38		Vu=5.25

VT915/NE+33.95

B=0.25 H=0.80 L=3.74			B=0.25 H=0.80 L=3.19			B=0.25 H=0.80 L=0.56		
Mu=-0.00		Mu=-8.44	Mu=-7.28		Mu=-7.57	Mu=-10.63		Mu=-3.65
As=627.00		As=627.00	As=627.00		As=627.00	As=627.00		As=627.00
Mu=7.58	Mu=10.24	Mu=1.69	Mu=3.64	Mu=1.89	Mu=3.79	Mu=2.13	Mu=0.00	Mu=0.00
As=627.00	As=627.00	As=627.00	As=627.00	As=627.00	As=627.00	As=627.00	As=627.00	As=627.00
Vu=-3.13		Vu=8.83	Vu=-3.99		Vu=4.59	Vu=-5.87		Vu=-2.79

VT916/NE+33.95

B=0.20 H=0.80 L=12.87			B=0.20 H=0.80 L=12.10		
Mu=-20.29		Mu=-17.97	Mu=-21.51		Mu=-5.38
As=723.65		As=639.07	As=768.33		As=501.60
Mu=10.15	Mu=12.55	Mu=8.98	Mu=10.76	Mu=7.80	Mu=5.38
As=501.60	As=591.02	As=501.60	As=505.40	As=501.60	As=501.60
Vu=-7.96		Vu=8.21	Vu=-8.21		Vu=4.89

VT917/NE+33.95

B=0.20 H=0.80 L=13.30			B=0.20 H=0.80 L=14.95		
Mu=-52.07		Mu=-43.00	Mu=-38.08		Mu=-17.15
As=1936.97		As=1579.56	As=1389.59		As=609.29
Mu=26.03	Mu=32.15	Mu=21.50	Mu=19.04	Mu=18.66	Mu=9.52
As=935.27	As=1372.73	As=767.96	As=678.02	As=664.17	As=501.60
Vu=-25.01		Vu=14.22	Vu=-12.56		Vu=2.31

VT918/NE+33.95

B=0.15 H=0.80 L=9.14			B=0.15 H=0.80 L=11.20			B=0.15 H=0.80 L=11.20		
Mu=-0.00		Mu=-9.89	Mu=-10.56		Mu=-7.16	Mu=-9.28		Mu=-8.29
As=376.20		As=466.11	As=498.23		As=376.20	As=436.93		As=389.70
Mu=3.45	Mu=6.31	Mu=1.98	Mu=5.28	Mu=6.38	Mu=3.58	Mu=4.64	Mu=6.42	Mu=4.14
As=376.20	As=376.20	As=376.20	As=376.20	As=376.20	As=376.20	As=376.20	As=376.20	As=376.20
Vu=-0.70		Vu=3.65	Vu=-3.14		Vu=2.98	Vu=-2.76		Vu=3.32

B=0.15 H=0.80 L=9.14		
Mu=-11.75		Mu=-0.00
As=416.69		As=376.20
Mu=2.35	Mu=6.03	Mu=5.32
As=376.20	As=376.20	As=376.20
Vu=-3.31		Vu=0.59

VT919/NE+33.95

B=0.20 H=0.80 L=5.76			B=0.20 H=0.80 L=11.20			B=0.20 H=0.80 L=11.20		
Mu=-0.96		Mu=-37.00	Mu=-27.24		Mu=-13.35	Mu=-15.50		Mu=-15.14
As=501.60		As=1348.24	As=980.07		As=629.30	As=549.56		As=536.56
Mu=0.00	Mu=0.00	Mu=7.40	Mu=13.62	Mu=7.44	Mu=6.81	Mu=7.75	Mu=9.12	Mu=7.57
As=501.60	As=501.60	As=501.60	As=642.24	As=501.60	As=501.60	As=501.60	As=501.60	As=501.60
Vu=2.61		Vu=8.39	Vu=-9.45		Vu=6.80	Vu=-7.08		Vu=7.32

B=0.20 H=0.80 L=11.20			B=0.20 H=0.80 L=11.20			B=0.20 H=0.80 L=5.76		
Mu=-16.35		Mu=-14.50	Mu=-15.02		Mu=-23.74	Mu=-35.10		Mu=-0.46
As=580.30		As=513.48	As=532.23		As=850.36	As=1275.80		As=501.60
Mu=8.18	Mu=9.08	Mu=7.25	Mu=7.90	Mu=7.90	Mu=11.87	Mu=7.02	Mu=0.00	Mu=0.00
As=501.60	As=501.60	As=501.60	As=501.60	As=501.60	As=558.54	As=501.60	As=501.60	As=501.60
Vu=-7.27		Vu=7.16	Vu=-6.86		Vu=9.14	Vu=-8.64		Vu=-1.96

VT920/NE+33.95

B=0.20 H=0.80 L=3.03			B=0.20 H=0.80 L=4.87			B=0.20 H=0.80 L=1.82		
Mu=-0.52		Mu=-8.31	Mu=-10.76		Mu=-10.23	Mu=-8.61		Mu=-0.67
As=501.60		As=501.60	As=505.63		As=501.60	As=501.60		As=501.60
Mu=0.00	Mu=0.00	Mu=1.66	Mu=5.38	Mu=3.69	Mu=5.11	Mu=1.72	Mu=0.00	Mu=0.00
As=501.60	As=501.60	As=501.60	As=501.60	As=501.60	As=501.60	As=501.60	As=501.60	As=501.60
Vu=-0.44		Vu=5.51	Vu=-8.68		Vu=8.68	Vu=-8.01		Vu=-4.56

VT921/NE+33.95

B=0.25 H=0.30 L=1.91			B=0.25 H=0.30 L=6.38		
Mu=-2.09		Mu=-0.52	Mu=-4.47		Mu=-4.16
As=216.29		As=214.50	As=472.11		As=438.17
Mu=1.04	Mu=0.52	Mu=0.52	Mu=1.12	Mu=2.79	Mu=2.08
As=214.50	As=214.50	As=214.50	As=214.50	As=290.43	As=215.23
Vu=-3.00		Vu=-0.33	Vu=-4.34		Vu=4.25

VT922/NE+33.95

B=0.20 H=0.80 L=4.64			B=0.20 H=0.80 L=2.67		
Mu=-0.00		Mu=-4.27	Mu=-0.88		Mu=-0.00
As=501.60		As=501.60	As=501.60		As=501.60
Mu=7.40	Mu=3.77	Mu=0.85	Mu=0.18	Mu=2.61	Mu=4.02
As=501.60	As=501.60	As=501.60	As=501.60	As=501.60	As=501.60
Vu=1.13		Vu=6.73	Vu=-4.12		Vu=-0.59

VT923/NE+33.95

B=0.15 H=0.50 L=3.40		
Mu=-6.18		Mu=-6.71
As=365.16		As=397.44
Mu=3.09	Mu=2.99	Mu=3.36
As=240.04	As=232.17	As=260.93
Vu=-6.02		Vu=6.19

VT924/NE+33.95

B=0.20 H=0.70 L=2.10			B=0.20 H=0.70 L=4.75			B=0.20 H=0.70 L=2.97		
Mu=-0.16		Mu=-9.17	Mu=-6.97		Mu=-9.00	Mu=-11.22		Mu=-0.00
As=435.60		As=497.04	As=435.60		As=487.70	As=457.74		As=435.60
Mu=0.00	Mu=0.00	Mu=1.83	Mu=3.48	Mu=2.25	Mu=4.50	Mu=2.24	Mu=0.00	Mu=2.66
As=435.60	As=435.60	As=435.60	As=435.60	As=435.60	As=435.60	As=435.60	As=435.60	As=435.60
Vu=-0.22		Vu=6.16	Vu=-6.15		Vu=6.81	Vu=-9.09		Vu=-5.48

VT925/NE+33.95

B=0.15 H=0.80 L=2.10			B=0.15 H=0.80 L=4.75			B=0.15 H=0.80 L=5.02		
Mu=-0.17		Mu=-12.50	Mu=-11.38		Mu=-12.35	Mu=-9.58		Mu=-0.00
As=376.20		As=443.83	As=403.32		As=438.39	As=451.28		As=376.20
Mu=0.00	Mu=0.00	Mu=2.50	Mu=5.69	Mu=3.54	Mu=6.18	Mu=1.92	Mu=4.41	Mu=4.85
As=376.20	As=376.20	As=376.20	As=376.20	As=376.20	As=376.20	As=376.20	As=376.20	As=376.20
Vu=1.22		Vu=7.25	Vu=-9.93		Vu=10.25	Vu=-8.42		Vu=2.97

VT926/NE+33.95

B=0.15 H=0.80 L=6.11		
Mu=-9.99		Mu=-2.50
As=470.90		As=376.20
Mu=4.99	Mu=5.45	Mu=2.50
As=376.20	As=376.20	As=376.20
Vu=-8.50		Vu=5.61

VT927/NE+33.95

B=0.25 H=0.80 L=5.96			B=0.25 H=0.80 L=2.54		
Mu=-8.67		Mu=-7.40	Mu=-3.29		Mu=-0.40
As=627.00		As=627.00	As=627.00		As=627.00
Mu=4.34	Mu=11.07	Mu=3.70	Mu=0.66	Mu=0.66	Mu=0.00
As=627.00	As=627.00	As=627.00	As=627.00	As=627.00	As=627.00
Vu=-8.42		Vu=8.23	Vu=-4.60		Vu=2.49

VT928/NE+33.95

B=0.15 H=0.50 L=5.33			B=0.15 H=0.50 L=1.45		
Mu=-0.00		Mu=-3.53	Mu=-3.44		Mu=-0.00
As=227.70		As=274.76	As=267.64		As=227.70
Mu=0.68	Mu=1.30	Mu=0.71	Mu=0.69	Mu=0.00	Mu=0.26
As=227.70	As=227.70	As=227.70	As=227.70	As=227.70	As=227.70
Vu=-2.35		Vu=4.50	Vu=-3.82		Vu=0.94

VT929/NE+33.95

B=0.15 H=0.50 L=5.70			B=0.15 H=0.50 L=1.45		
Mu=-4.70		Mu=-8.43	Mu=-5.89		Mu=-0.00
As=275.86		As=503.33	As=347.57		As=227.70
Mu=2.35	Mu=4.67	Mu=4.22	Mu=1.18	Mu=0.00	Mu=1.06
As=227.70	As=274.06	As=246.86	As=227.70	As=227.70	As=227.70
Vu=-6.11		Vu=7.21	Vu=-5.24		Vu=-0.80

VT930/NE+33.95

B=0.15 H=0.50 L=5.70		
Mu=-4.70		Mu=-8.43
As=275.86		As=503.33
Mu=2.35	Mu=4.67	Mu=4.22
As=227.70	As=274.06	As=246.86
Vu=-6.11		Vu=7.21

VT931/NE+33.95

B=0.15 H=0.50 L=2.10			B=0.15 H=0.50 L=4.75			B=0.15 H=0.80 L=8.55		
Mu=-0.00		Mu=-5.85	Mu=-6.54		Mu=-4.84	Mu=-10.51		Mu=-11.55
As=227.70		As=345.14	As=387.07		As=284.26	As=495.83		As=409.46
Mu=0.58	Mu=0.00	Mu=1.17	Mu=3.27	Mu=2.13	Mu=2.42	Mu=5.26	Mu=3.07	Mu=5.78
As=227.70	As=227.70	As=227.70	As=254.23	As=227.70	As=227.70	As=376.20	As=376.20	As=376.20
Vu=-0.98		Vu=5.05	Vu=-5.85		Vu=5.25	Vu=-7.99		Vu=8.16

VT932/NE+33.95

B=0.15 H=0.50 L=2.10			B=0.15 H=0.50 L=4.75			B=0.15 H=0.80 L=6.75		
Mu=-0.10		Mu=-4.07	Mu=-4.50		Mu=-7.39	Mu=-17.41		Mu=-0.00
As=227.70		As=238.22	As=263.89		As=439.09	As=623.21		As=376.20
Mu=0.62	Mu=0.21	Mu=0.81	Mu=2.25	Mu=1.87	Mu=3.69	Mu=3.48	Mu=5.17	Mu=1.82
As=227.70	As=227.70	As=227.70	As=227.70	As=227.70	As=287.81	As=376.20	As=376.20	As=376.20
Vu=-1.71		Vu=4.31	Vu=-5.04		Vu=6.06	Vu=-10.16		Vu=5.30

VT934/NE+33.95

B=0.25 H=0.80 L=6.77		
Mu=-0.00		Mu=-17.17
As=627.00		As=809.75
Mu=7.28	Mu=8.30	Mu=3.43
As=627.00	As=627.00	As=627.00
Vu=-3.32		Vu=10.93

VT935/NE+33.95

B=0.15 H=0.50 L=5.70			B=0.15 H=0.50 L=1.45		
Mu=-8.89		Mu=-6.49	Mu=-3.82		Mu=-0.00
As=531.95		As=384.02	As=297.71		As=227.70
Mu=4.45	Mu=3.54	Mu=3.54	Mu=0.76	Mu=0.00	Mu=0.28
As=260.60	As=275.55	As=275.55	As=227.70	As=227.70	As=227.70
Vu=-7.01		Vu=6.30	Vu=-4.03		Vu=0.80

VT936/NE+33.95

B=0.15 H=0.50 L=0.65			B=0.15 H=0.50 L=5.70			B=0.15 H=0.50 L=1.45		
Mu=-0.00		Mu=-1.50	Mu=-7.28		Mu=-6.66	Mu=-2.44		Mu=-0.61
As=227.70		As=227.70	As=432.34		As=394.39	As=227.70		As=227.70
Mu=0.02	Mu=0.00	Mu=0.30	Mu=3.64	Mu=4.26	Mu=3.33	Mu=1.22	Mu=0.61	Mu=0.61
As=227.70	As=227.70	As=227.70	As=283.45	As=288.36	As=258.96	As=227.70	As=227.70	As=227.70
Vu=1.28		Vu=2.76	Vu=-6.75		Vu=6.56	Vu=-3.28		Vu=1.55

VT938/NE+33.95

B=0.15 H=0.50 L=2.10			B=0.15 H=0.50 L=4.89			B=0.15 H=0.80 L=4.01		
Mu=-0.47		Mu=-2.61	Mu=-2.80		Mu=-11.21	Mu=-20.80		Mu=-0.00
As=227.70		As=227.70	As=227.70		As=678.32	As=748.83		As=376.20
Mu=0.00	Mu=0.76	Mu=0.52	Mu=2.80	Mu=2.80	Mu=5.61	Mu=4.16	Mu=0.00	Mu=2.69
As=227.70	As=227.70	As=227.70	As=227.70	As=227.70	As=330.32	As=376.20	As=376.20	As=376.20
Vu=-2.31		Vu=3.71	Vu=-3.78		Vu=7.28	Vu=-10.33		Vu=0.19

VT939/NE+33.95

B=0.15 H=0.50 L=2.10			B=0.15 H=0.50 L=5.13			B=0.15 H=0.80 L=3.77		
Mu=-0.03		Mu=-5.04	Mu=-5.55		Mu=-7.37	Mu=-10.70		Mu=-2.67
As=227.70		As=296.27	As=327.00		As=437.87	As=378.81		As=376.20
Mu=0.43	Mu=0.00	Mu=1.01	Mu=2.78	Mu=2.17	Mu=3.68	Mu=5.35	Mu=2.67	Mu=2.67
As=227.70	As=227.70	As=227.70	As=227.70	As=227.70	As=287.02	As=376.20	As=376.20	As=376.20
Vu=-1.37		Vu=4.65	Vu=-5.53		Vu=6.14	Vu=-6.96		Vu=2.88

VT940/NE+33.95

B=0.15 H=0.50 L=2.10			B=0.15 H=0.50 L=5.25			B=0.15 H=0.80 L=3.65		
Mu=-0.00		Mu=-5.68	Mu=-6.45		Mu=-6.49	Mu=-9.30		Mu=-2.33
As=227.70		As=334.86	As=381.59		As=384.02	As=437.89		As=376.20
Mu=1.05	Mu=0.00	Mu=1.14	Mu=3.22	Mu=2.48	Mu=3.24	Mu=4.65	Mu=2.33	Mu=2.33
As=227.70	As=227.70	As=227.70	As=250.68	As=227.70	As=252.26	As=376.20	As=376.20	As=376.20
Vu=-0.86		Vu=5.16	Vu=-5.94		Vu=5.95	Vu=-6.55		Vu=2.89

VT941/NE+33.95

B=0.15 H=0.50 L=5.25			B=0.15 H=0.80 L=3.65		
Mu=-5.66		Mu=-7.14	Mu=-9.06		Mu=-0.67
As=333.65		As=423.75	As=426.42		As=376.20
Mu=2.83	Mu=2.33	Mu=3.57	Mu=1.81	Mu=0.92	Mu=0.00
As=227.70	As=227.70	As=277.92	As=376.20	As=376.20	As=376.20
Vu=-5.62		Vu=6.12	Vu=-6.74		Vu=2.72

VT942/NE+33.95

B=0.15 H=0.50 L=2.58			B=0.15 H=0.80 L=3.65		
Mu=-2.20		Mu=-5.37	Mu=-9.67		Mu=-0.70
As=227.70		As=316.14	As=455.58		As=376.20
Mu=1.34	Mu=1.34	Mu=2.68	Mu=1.93	Mu=0.74	Mu=0.00
As=227.70	As=227.70	As=227.70	As=376.20	As=376.20	As=376.20
Vu=-3.13		Vu=4.72	Vu=-6.89		Vu=2.60

VT943/NE+33.95

B=0.15 H=0.80 L=1.60			B=0.15 H=0.80 L=3.50		
Mu=-0.00		Mu=-18.86	Mu=-12.94		Mu=-0.44
As=376.20		As=676.76	As=459.78		As=376.20
Mu=0.26	Mu=0.00	Mu=3.77	Mu=2.59	Mu=0.21	Mu=0.00
As=376.20	As=376.20	As=376.20	As=376.20	As=376.20	As=376.20
Vu=0.88		Vu=9.30	Vu=-7.74		Vu=1.78

VT944/NE+33.95

B=0.15 H=0.80 L=3.13			B=0.15 H=0.80 L=3.14		
Mu=-0.02		Mu=-15.87	Mu=-12.90		Mu=-1.66
As=376.20		As=566.62	As=458.33		As=376.20
Mu=0.01	Mu=0.00	Mu=3.17	Mu=2.58	Mu=0.00	Mu=0.00
As=376.20	As=376.20	As=376.20	As=376.20	As=376.20	As=376.20
Vu=-0.29		Vu=8.49	Vu=-7.25		Vu=1.25

VT945/NE+33.95

B=0.15 H=0.80 L=3.01			B=0.15 H=0.80 L=0.73			B=0.15 H=0.80 L=2.58		
Mu=-0.19		Mu=-12.36	Mu=-9.86		Mu=-16.11	Mu=-13.79		Mu=-9.26
As=376.20		As=438.76	As=486.81		As=575.42	As=490.67		As=471.95
Mu=0.00	Mu=0.05	Mu=2.47	Mu=4.93	Mu=4.03	Mu=8.06	Mu=6.89	Mu=3.45	Mu=3.45
As=376.20	As=376.20	As=376.20	As=376.20	As=376.20	As=378.51	As=376.20	As=376.20	As=376.20
Vu=-0.97		Vu=7.51	Vu=3.55		Vu=6.40	Vu=-5.05		Vu=2.22

VT946/NE+33.95

B=0.15 H=0.80 L=2.90			B=0.15 H=0.80 L=1.31			B=0.15 H=0.80 L=1.72		
Mu=-0.21		Mu=-9.49	Mu=-5.61		Mu=-17.92	Mu=-10.37		Mu=-25.45
As=376.20		As=446.97	As=376.20		As=642.01	As=403.76		As=923.63
Mu=0.00	Mu=0.31	Mu=1.90	Mu=4.48	Mu=4.48	Mu=8.96	Mu=6.36	Mu=6.36	Mu=12.73
As=376.20	As=376.20	As=376.20	As=376.20	As=376.20	As=421.65	As=376.20	As=376.20	As=451.98
Vu=-1.49		Vu=6.68	Vu=4.17		Vu=8.56	Vu=4.34		Vu=9.34

VT947/NE+33.95

B=0.15 H=0.80 L=2.77			B=0.15 H=0.80 L=2.00		
Mu=-0.06		Mu=-8.71	Mu=-5.31		Mu=-20.92
As=376.20		As=409.72	As=376.20		As=753.31
Mu=0.47	Mu=0.00	Mu=1.74	Mu=5.23	Mu=5.23	Mu=10.46
As=376.20	As=376.20	As=376.20	As=376.20	As=376.20	As=493.43
Vu=-1.40		Vu=6.46	Vu=3.03		Vu=8.95

VT948/NE+33.95

B=0.15 H=0.50 L=2.65			B=0.15 H=0.50 L=1.65		
Mu=-0.00		Mu=-9.77	Mu=-2.44		Mu=-9.77
As=227.70		As=587.07	As=227.70		As=587.07
Mu=1.26	Mu=0.00	Mu=1.95	Mu=2.44	Mu=2.44	Mu=4.89
As=227.70	As=227.70	As=227.70	As=227.70	As=227.70	As=286.96
Vu=0.21		Vu=6.81	Vu=0.21		Vu=6.81

VT949/NE+33.95

B=0.25 H=0.80 L=1.35			B=0.25 H=0.80 L=5.21			B=0.25 H=0.80 L=1.71		
Mu=-0.08		Mu=-0.38	Mu=-0.54		Mu=-0.54	Mu=-0.24		Mu=-0.00
As=627.00		As=627.00	As=627.00		As=627.00	As=627.00		As=627.00
Mu=0.00	Mu=0.35	Mu=0.08	Mu=0.54	Mu=1.71	Mu=2.13	Mu=0.05	Mu=1.71	Mu=2.13
As=627.00	As=627.00	As=627.00	As=627.00	As=627.00	As=627.00	As=627.00	As=627.00	As=627.00
Vu=-1.19		Vu=1.53	Vu=-2.83		Vu=1.26	Vu=-2.83		Vu=1.26

VT950/NE+33.95

B=0.15 H=0.50 L=2.39			B=0.15 H=0.50 L=0.51		
Mu=-1.55		Mu=-5.19	Mu=-1.55		Mu=-5.19
As=227.70		As=305.29	As=227.70		As=305.29
Mu=1.30	Mu=1.30	Mu=2.60	Mu=1.30	Mu=1.30	Mu=2.60
As=227.70	As=227.70	As=227.70	As=227.70	As=227.70	As=227.70
Vu=-2.09		Vu=4.33	Vu=-2.09		Vu=4.33

VT952/NE+33.95

B=0.15 H=0.50 L=5.30			B=0.15 H=0.80 L=3.65		
Mu=-4.98		Mu=-8.18	Mu=-16.09		Mu=-4.02
As=292.66		As=487.83	As=574.69		As=376.20
Mu=2.59	Mu=2.59	Mu=4.09	Mu=8.05	Mu=4.02	Mu=4.02
As=227.70	As=227.70	As=239.41	As=378.04	As=376.20	As=376.20
Vu=-5.49		Vu=6.54	Vu=-7.93		Vu=1.56

VT954/NE+33.95

B=0.25 H=0.80 L=5.19		
Mu=-0.00		Mu=-17.47
As=627.00		As=824.14
Mu=1.87	Mu=0.00	Mu=3.49
As=627.00	As=627.00	As=627.00
Vu=-0.43		Vu=8.25

VT955/NE+33.95

B=0.15 H=0.50 L=5.12			B=0.15 H=0.80 L=3.65		
Mu=-4.53		Mu=-7.34	Mu=-5.01		Mu=-2.64
As=265.68		As=436.02	As=376.20		As=376.20
Mu=2.87	Mu=2.87	Mu=3.67	Mu=2.51	Mu=1.31	Mu=1.32
As=227.70	As=227.70	As=285.83	As=376.20	As=376.20	As=376.20
Vu=-5.42		Vu=6.36	Vu=-5.38		Vu=4.27

VT956/NE+33.95

B=0.15 H=0.50 L=4.96			B=0.15 H=0.80 L=6.13		
Mu=-2.35		Mu=-9.38	Mu=-9.95		Mu=-10.38
As=227.70		As=562.58	As=468.98		As=489.59
Mu=2.35	Mu=2.99	Mu=4.69	Mu=4.97	Mu=5.48	Mu=5.19
As=227.70	As=232.02	As=275.26	As=376.20	As=376.20	As=376.20
Vu=-4.55		Vu=6.99	Vu=-8.37		Vu=8.49

VT957/NE+33.95

B=0.15 H=0.50 L=4.80			B=0.15 H=0.80 L=5.39			B=0.15 H=0.80 L=0.45		
Mu=-0.75		Mu=-10.55	Mu=-5.11		Mu=-3.87	Mu=-5.70		Mu=-0.00
As=227.70		As=636.33	As=376.20		As=376.20	As=376.20		As=376.20
Mu=0.00	Mu=2.45	Mu=2.11	Mu=2.56	Mu=1.28	Mu=1.93	Mu=1.14	Mu=0.00	Mu=1.66
As=227.70	As=238.31	As=227.70	As=376.20	As=376.20	As=376.20	As=376.20	As=376.20	As=376.20
Vu=-3.94		Vu=7.36	Vu=-5.15		Vu=4.57	Vu=-5.69		Vu=-0.87

VT959/NE+33.95

B=0.15 H=0.50 L=4.81		
Mu=-0.63		Mu=-10.45
As=227.70		As=629.99
Mu=0.00	Mu=2.33	Mu=2.09
As=227.70	As=230.13	As=227.70
Vu=-3.84		Vu=7.31

VT960/NE+33.95

B=0.15 H=0.80 L=3.28		
Mu=-4.29		Mu=-3.36
As=376.20		As=376.20
Mu=2.14	Mu=1.07	Mu=1.68
As=376.20	As=376.20	As=376.20
Vu=-3.89		Vu=3.42

VT961/NE+33.95

B=0.15 H=0.50 L=4.66			B=0.15 H=0.50 L=1.45		
Mu=-0.00		Mu=-3.58	Mu=-2.82		Mu=-0.06
As=227.70		As=278.71	As=227.70		As=227.70
Mu=1.51	Mu=2.54	Mu=0.72	Mu=0.56	Mu=0.01	Mu=0.32
As=227.70	As=227.70	As=227.70	As=227.70	As=227.70	As=227.70
Vu=-2.71		Vu=5.05	Vu=-3.53		Vu=1.26

VT962/NE+33.95

B=0.15 H=0.50 L=4.80			B=0.15 H=0.80 L=3.96		
Mu=-2.26		Mu=-9.05	Mu=-13.93		Mu=-3.48
As=227.70		As=541.93	As=495.76		As=376.20
Mu=2.26	Mu=2.74	Mu=4.53	Mu=6.97	Mu=3.48	Mu=3.48
As=227.70	As=227.70	As=265.38	As=376.20	As=376.20	As=376.20
Vu=-4.31		Vu=6.83	Vu=-7.41		Vu=-3.67

VT963/NE+33.95

B=0.20 H=0.80 L=3.21		
Mu=-1.21		Mu=-0.00
As=501.60		As=501.60
Mu=0.24	Mu=4.11	Mu=5.13
As=501.60	As=501.60	As=501.60
Vu=-4.96		Vu=0.75

VT964/NE+33.95

B=0.25 H=0.80 L=6.36			B=0.25 H=0.80 L=2.53		
Mu=-10.75		Mu=-2.89	Mu=-4.76		Mu=-0.12
As=627.00		As=627.00	As=627.00		As=627.00
Mu=5.38	Mu=2.69	Mu=2.69	Mu=0.95	Mu=0.49	Mu=0.00
As=627.00	As=627.00	As=627.00	As=627.00	As=627.00	As=627.00
Vu=-3.95		Vu=-4.21	Vu=-5.30		Vu=1.85

VT965/NE+33.95

B=0.15 H=0.50 L=4.80			B=0.15 H=0.80 L=2.47			B=0.15 H=0.80 L=1.02		
Mu=-3.94		Mu=-6.87	Mu=-9.38		Mu=-6.73	Mu=-7.67		Mu=-2.67
As=230.47		As=407.22	As=441.71		As=376.20	As=376.20		As=376.20
Mu=2.47	Mu=2.47	Mu=3.43	Mu=4.69	Mu=2.35	Mu=3.37	Mu=1.53	Mu=0.00	Mu=0.00
As=227.70	As=227.70	As=267.25	As=376.20	As=376.20	As=376.20	As=376.20	As=376.20	As=376.20
Vu=-5.05		Vu=6.09	Vu=-4.57		Vu=2.92	Vu=-4.78		Vu=-0.49

VT966/NE+33.95

B=0.25 H=0.30 L=5.55		
Mu=-2.64		Mu=-0.17
As=274.46		As=214.50
Mu=0.53	Mu=1.33	Mu=0.03
As=214.50	As=214.50	As=214.50
Vu=-2.96		Vu=1.87

VT967/NE+33.95

B=0.15 H=0.80 L=4.08		
Mu=-10.43		Mu=-3.46
As=491.99		As=376.20
Mu=5.22	Mu=2.61	Mu=2.61
As=376.20	As=376.20	As=376.20
Vu=-6.90		Vu=3.99

VT968/NE+33.95

B=0.20 H=0.70 L=4.80			B=0.20 H=0.70 L=1.73		
Mu=-5.31		Mu=-7.12	Mu=-11.31		Mu=-0.00
As=435.60		As=435.60	As=461.48		As=435.60
Mu=2.65	Mu=3.66	Mu=3.56	Mu=2.26	Mu=0.73	Mu=2.07
As=435.60	As=435.60	As=435.60	As=435.60	As=435.60	As=435.60
Vu=-6.15		Vu=6.74	Vu=-7.82		Vu=2.74

VT970/NE+33.95

B=0.15 H=0.50 L=3.05		
Mu=-4.88		Mu=-6.68
As=286.66		As=395.61
Mu=2.44	Mu=3.53	Mu=3.34
As=227.70	As=274.76	As=259.75
Vu=-5.77		Vu=6.35

VT971/NE+33.95

B=0.20 H=0.80 L=1.16			B=0.20 H=0.80 L=5.05			B=0.20 H=0.80 L=1.82		
Mu=-0.16		Mu=-0.05	Mu=-4.68		Mu=-18.70	Mu=-15.04		Mu=-4.90
As=501.60		As=501.60	As=501.60		As=665.63	As=532.95		As=501.60
Mu=0.00	Mu=0.68	Mu=0.31	Mu=4.68	Mu=6.35	Mu=9.35	Mu=7.52	Mu=3.76	Mu=3.76
As=501.60	As=501.60	As=501.60	As=501.60	As=501.60	As=501.60	As=501.60	As=501.60	As=501.60
Vu=-2.15		Vu=1.73	Vu=-6.21		Vu=11.58	Vu=-6.84		Vu=2.75

MEMORIAS VIGUETAS PISO 12 NE+50.75m

VT901/NE+33.95m

B=0.20 H=0.70 L=2.52		
Mu=-0.00		Mu=-0.00
As=435.60		As=435.60
Mu=0.12	Mu=0.89	Mu=0.12
As=435.60	As=435.60	As=435.60
Vu=1.22		Vu=-1.22

VT902/NE+33.95m

B=0.20 H=0.70 L=4.47		
Mu=-0.00		Mu=-0.00
As=435.60		As=435.60
Mu=0.23	Mu=2.85	Mu=0.62
As=435.60	As=435.60	As=435.60
Vu=2.26		Vu=-2.08

VT903/NE+33.95m

B=0.20 H=0.70 L=3.07		
Mu=-0.00		Mu=-0.00
As=435.60		As=435.60
Mu=0.15	Mu=1.29	Mu=0.15
As=435.60	As=435.60	As=435.60
Vu=1.49		Vu=-1.49

VT905/NE+33.95m

B=0.20 H=0.70 L=3.12		
Mu=-0.00		Mu=-0.00
As=435.60		As=435.60
Mu=0.15	Mu=1.33	Mu=0.15
As=435.60	As=435.60	As=435.60
Vu=1.51		Vu=-1.51

VT907/NE+33.95m

B=0.15 H=0.80 L=6.32		
Mu=-0.00		Mu=-0.00
As=376.20		As=376.20
Mu=0.26	Mu=5.70	Mu=0.26
As=376.20	As=376.20	As=376.20
Vu=3.44		Vu=-3.44

MEMORIAS VIGUETAS PISO 12 NE+50.75m

VT908/NE+33.95m

B=0.15 H=0.80 L=1.30			B=0.15 H=0.80 L=1.28		
Mu=-0.00		Mu=-0.16	Mu=-0.16		Mu=-0.00
As=376.20		As=376.20	As=376.20		As=376.20
Mu=0.04	Mu=0.17	Mu=0.03	Mu=0.03	Mu=0.16	Mu=0.04
As=376.20	As=376.20	As=376.20	As=376.20	As=376.20	As=376.20
Vu=0.56		Vu=-0.86	Vu=0.85		Vu=-0.54

VT910/NE+33.95m

B=0.15 H=0.80 L=1.30			B=0.15 H=0.80 L=1.28		
Mu=-0.00		Mu=-0.16	Mu=-0.16		Mu=-0.00
As=376.20		As=376.20	As=376.20		As=376.20
Mu=0.04	Mu=0.17	Mu=0.03	Mu=0.03	Mu=0.16	Mu=0.04
As=376.20	As=376.20	As=376.20	As=376.20	As=376.20	As=376.20
Vu=0.56		Vu=-0.86	Vu=0.85		Vu=-0.54

VT911/NE+33.95m

B=0.15 H=0.80 L=1.30			B=0.15 H=0.80 L=1.28		
Mu=-0.00		Mu=-0.16	Mu=-0.16		Mu=-0.00
As=376.20		As=376.20	As=376.20		As=376.20
Mu=0.04	Mu=0.17	Mu=0.03	Mu=0.03	Mu=0.16	Mu=0.04
As=376.20	As=376.20	As=376.20	As=376.20	As=376.20	As=376.20
Vu=0.56		Vu=-0.86	Vu=0.85		Vu=-0.54

VT969/NE+33.95m

B=0.20 H=0.80 L=2.35		
Mu=-0.00		Mu=-0.00
As=501.60		As=501.60
Mu=0.11	Mu=0.78	Mu=0.11
As=501.60	As=501.60	As=501.60
Vu=1.14		Vu=-1.14

VT912/NE+33.95m

B=0.15 H=0.80 L=2.02			B=0.15 H=0.80 L=4.22		
Mu=-0.00		Mu=-1.81	Mu=-1.67		Mu=-0.00
As=376.20		As=376.20	As=376.20		As=376.20
Mu=0.03	Mu=0.00	Mu=0.36	Mu=0.33	Mu=1.66	Mu=0.14
As=376.20	As=376.20	As=376.20	As=376.20	As=376.20	As=376.20
Vu=0.20		Vu=-2.00	Vu=2.73		Vu=-1.87

VT913/NE+33.95m

B=0.20 H=0.70 L=2.21		
Mu=-0.00		Mu=-0.00
As=435.60		As=435.60
Mu=0.11	Mu=0.70	Mu=0.11
As=435.60	As=435.60	As=435.60
Vu=1.07		Vu=-1.07

MEMORIAS VIGUETAS PISO 12 NE+50.75m

VT914/NE+33.95m

B=0.20 H=0.70 L=3.13		
Mu=-0.00		Mu=-0.00
As=435.60		As=435.60
Mu=0.43	Mu=1.48	Mu=0.16
As=435.60	As=435.60	As=435.60
Vu=1.43		Vu=-1.60

VT951/NE+33.95m

B=0.20 H=0.80 L=3.64			B=0.20 H=0.80 L=6.18		
Mu=-0.00		Mu=-6.43	Mu=-6.26		Mu=-0.00
As=501.60		As=501.60	As=501.60		As=501.60
Mu=0.00	Mu=0.00	Mu=1.29	Mu=1.25	Mu=1.74	Mu=0.48
As=501.60	As=501.60	As=501.60	As=501.60	As=501.60	As=501.60
Vu=0.00		Vu=-3.53	Vu=4.09		Vu=-1.91

VT973/NE+33.95m

B=0.15 H=0.45 L=5.02		
Mu=-0.00		Mu=-0.00
As=202.95		As=202.95
Mu=0.27	Mu=3.32	Mu=0.27
As=202.95	As=247.57	As=202.95
Vu=2.43		Vu=-2.43

VT974/NE+33.95m

B=0.15 H=0.50 L=4.68		
Mu=-0.00		Mu=-0.00
As=227.70		As=227.70
Mu=0.25	Mu=2.91	Mu=0.25
As=227.70	As=227.70	As=227.70
Vu=2.27		Vu=-2.27

VT958/NE+33.95m

B=0.40 H=0.50 L=5.97			B=0.40 H=0.50 L=1.45		
Mu=-0.00		Mu=-0.00	Mu=-2.21		Mu=-0.00
As=607.20		As=607.20	As=607.20		As=607.20
Mu=3.09	Mu=27.06	Mu=0.07	Mu=0.44	Mu=0.00	Mu=0.00
As=786.82	As=1628.80	As=607.20	As=607.20	As=607.20	As=607.20
Vu=12.36		Vu=-12.17	Vu=3.05		Vu=0.00

VT921/NE+33.95m

B=0.25 H=0.30 L=8.42		
Mu=-0.00		Mu=-0.00
As=214.50		As=214.50
Mu=1.35	Mu=10.63	Mu=0.58
As=502.98	As=1191.38	As=435.87
Vu=4.50		Vu=-4.68

VT1000/NE+38.15

B=0.20 H=0.80 L=6.90			B=0.20 H=0.80 L=13.25			B=0.20 H=0.80 L=3.32		
Mu=-0.72		Mu=-43.44	Mu=-46.17		Mu=-23.39	Mu=-21.71		Mu=-4.88
As=501.60		As=1596.68	As=1703.39		As=837.45	As=775.67		As=501.60
Mu=0.00	Mu=0.00	Mu=8.69	Mu=23.08	Mu=16.22	Mu=16.67	Mu=4.34	Mu=0.00	Mu=0.00
As=501.60	As=501.60	As=501.60	As=826.22	As=633.52	As=633.52	As=501.60	As=501.60	As=501.60
Vu=2.35		Vu=9.41	Vu=-13.54		Vu=11.12	Vu=-7.40		Vu=-3.91

VT1005/NE+38.15

B=0.20 H=0.80 L=4.37		
Mu=-0.68		Mu=-1.07
As=501.60		As=501.60
Mu=0.34	Mu=1.05	Mu=0.54
As=501.60	As=501.60	As=501.60
Vu=-2.53		Vu=2.68

VT1013/NE+38.15

B=0.30 H=0.80 L=6.28			B=0.30 H=0.80 L=13.12			B=0.30 H=0.80 L=11.94		
Mu=-1.53		Mu=-64.81	Mu=-40.08		Mu=-33.71	Mu=-41.10		Mu=-0.00
As=752.40		As=2381.40	As=1441.08		As=1205.56	As=1479.04		As=752.40
Mu=0.00	Mu=0.00	Mu=12.96	Mu=20.04	Mu=15.99	Mu=16.85	Mu=8.22	Mu=8.22	Mu=6.55
As=752.40	As=752.40	As=752.40	As=944.68	As=752.40	As=792.50	As=752.40	As=752.40	As=752.40
Vu=1.32		Vu=18.18	Vu=-15.77		Vu=18.13	Vu=-17.43		Vu=7.96

VT1014/NE+38.15

B=0.30 H=0.80 L=13.30			B=0.30 H=0.80 L=13.32			B=0.30 H=0.80 L=0.94		
Mu=-37.86		Mu=-49.77	Mu=-48.69		Mu=-12.17	Mu=-5.45		Mu=-18.76
As=1358.70		As=1804.46	As=1763.65		As=752.40	As=752.40		As=883.42
Mu=18.93	Mu=31.54	Mu=24.89	Mu=24.34	Mu=22.17	Mu=12.17	Mu=6.27	Mu=5.45	Mu=9.38
As=891.55	As=1125.99	As=883.49	As=863.94	As=863.94	As=752.40	As=752.40	As=752.40	As=752.40
Vu=-20.79		Vu=21.36	Vu=-18.19		Vu=8.88	Vu=8.45		Vu=9.92

B=0.30 H=0.80 L=11.61			B=0.30 H=0.80 L=3.28			B=0.30 H=0.80 L=0.51		
Mu=-24.82		Mu=-10.43	Mu=-7.72		Mu=-7.81	Mu=-10.82		Mu=-3.97
As=881.13		As=752.40	As=752.40		As=752.40	As=752.40		As=752.40
Mu=12.41	Mu=13.00	Mu=6.20	Mu=3.86	Mu=1.95	Mu=3.90	Mu=2.16	Mu=0.00	Mu=0.00
As=752.40	As=752.40	As=752.40	As=752.40	As=752.40	As=752.40	As=752.40	As=752.40	As=752.40
Vu=-9.08		Vu=10.34	Vu=-4.21		Vu=4.55	Vu=-5.87		Vu=-2.87

VT1015/NE+38.15

B=0.30 H=0.80 L=9.14			B=0.30 H=0.80 L=11.20			B=0.30 H=0.80 L=11.20		
Mu=-0.00		Mu=-28.18	Mu=-31.39		Mu=-38.38	Mu=-37.94		Mu=-31.28
As=752.40		As=1003.18	As=1120.42		As=1377.97	As=1361.66		As=1116.39
Mu=4.26	Mu=14.05	Mu=5.64	Mu=15.69	Mu=13.64	Mu=19.19	Mu=18.97	Mu=20.96	Mu=15.64
As=752.40	As=784.64	As=752.40	As=752.40	As=764.16	As=903.99	As=893.46	As=988.78	As=752.40
Vu=-4.06		Vu=10.62	Vu=-17.17		Vu=21.14	Vu=-21.93		Vu=12.89

B=0.30 H=0.80 L=9.14		
Mu=-35.81		Mu=-0.00
As=1282.92		As=752.40
Mu=7.16	Mu=20.64	Mu=4.15
As=752.40	As=947.84	As=752.40
Vu=-19.15		Vu=4.55

VT1016/NE+38.15

B=0.20 H=0.80 L=5.40			B=0.20 H=0.80 L=11.15			B=0.20 H=0.80 L=11.20		
Mu=-0.52		Mu=-31.69	Mu=-24.06		Mu=-14.21	Mu=-15.77		Mu=-15.53
As=501.60		As=1146.72	As=862.17		As=503.03	As=559.32		As=550.65
Mu=0.00	Mu=0.00	Mu=6.34	Mu=12.03	Mu=8.65	Mu=8.65	Mu=7.89	Mu=9.91	Mu=7.76
As=501.60	As=501.60	As=501.60	As=566.18	As=501.60	As=501.60	As=501.60	As=501.60	As=501.60
Vu=1.95		Vu=7.37	Vu=-8.16		Vu=6.26	Vu=-6.51		Vu=6.69

B=0.20 H=0.80 L=11.20			B=0.20 H=0.80 L=11.15			B=0.20 H=0.80 L=5.71		
Mu=-16.32		Mu=-14.98	Mu=-15.10		Mu=-22.45	Mu=-31.50		Mu=-0.47
As=579.22		As=530.79	As=535.12		As=802.85	As=1139.57		As=501.60
Mu=8.16	Mu=9.90	Mu=7.49	Mu=8.75	Mu=8.75	Mu=11.23	Mu=6.30	Mu=0.00	Mu=0.00
As=501.60	As=501.60	As=501.60	As=501.60	As=501.60	As=527.78	As=501.60	As=501.60	As=501.60
Vu=-6.65		Vu=6.57	Vu=-6.28		Vu=8.07	Vu=-7.35		Vu=-1.92

VT1017/NE+38.15

B=0.20 H=0.80 L=3.03			B=0.20 H=0.80 L=4.92			B=0.20 H=0.80 L=1.73		
Mu=-0.62		Mu=-8.02	Mu=-10.75		Mu=-12.63	Mu=-5.47		Mu=-0.48
As=501.60		As=501.60	As=505.16		As=594.85	As=501.60		As=501.60
Mu=0.00	Mu=0.00	Mu=1.60	Mu=5.38	Mu=4.35	Mu=6.32	Mu=1.09	Mu=0.00	Mu=0.00
As=501.60	As=501.60	As=501.60	As=501.60	As=501.60	As=501.60	As=501.60	As=501.60	As=501.60
Vu=-0.57		Vu=5.38	Vu=-9.32		Vu=10.27	Vu=-5.75		Vu=-2.27

VT1018/NE+38.15

B=0.20 H=0.80 L=4.35		
Mu=-15.87		Mu=-3.97
As=562.94		As=501.60
Mu=7.93	Mu=3.97	Mu=3.97
As=501.60	As=501.60	As=501.60
Vu=-10.39		Vu=1.64

VT1019/NE+38.15

B=0.15 H=0.50 L=3.45		
Mu=-7.86		Mu=-9.36
As=468.04		As=561.33
Mu=3.93	Mu=3.89	Mu=4.68
As=229.88	As=303.26	As=274.66
Vu=-7.84		Vu=8.33

VT1020/NE+38.15

B=0.20 H=0.70 L=2.10			B=0.20 H=0.70 L=4.80			B=0.20 H=0.70 L=4.08		
Mu=-0.23		Mu=-11.04	Mu=-8.79		Mu=-11.86	Mu=-11.78		Mu=-0.00
As=435.60		As=450.26	As=476.16		As=484.35	As=481.02		As=435.60
Mu=0.00	Mu=0.00	Mu=2.21	Mu=4.39	Mu=2.96	Mu=5.93	Mu=2.36	Mu=0.00	Mu=1.15
As=435.60	As=435.60	As=435.60	As=435.60	As=435.60	As=435.60	As=435.60	As=435.60	As=435.60
Vu=-0.60		Vu=7.73	Vu=-7.95		Vu=8.95	Vu=-8.20		Vu=2.34

VT1021/NE+38.15

B=0.15 H=0.50 L=2.10			B=0.15 H=0.50 L=4.80			B=0.15 H=0.80 L=4.08		
Mu=-0.26		Mu=-15.57	Mu=-13.98		Mu=-14.28	Mu=-10.79		Mu=-0.25
As=227.70		As=963.24	As=857.77		As=877.53	As=382.05		As=376.20
Mu=0.00	Mu=0.00	Mu=3.11	Mu=6.99	Mu=4.27	Mu=7.14	Mu=2.16	Mu=1.18	Mu=0.00
As=227.70	As=227.70	As=241.93	As=414.56	As=250.14	As=423.75	As=376.20	As=376.20	As=376.20
Vu=1.39		Vu=9.20	Vu=-12.00		Vu=12.09	Vu=-7.90		Vu=2.79

VT1022/NE+38.15

B=0.15 H=0.80 L=6.00		
Mu=-8.11		Mu=-2.03
As=381.13		As=376.20
Mu=4.05	Mu=2.03	Mu=2.03
As=376.20	As=376.20	As=376.20
Vu=-7.00		Vu=3.70

VT1023/NE+38.15

B=0.15 H=0.50 L=4.32			B=0.15 H=0.50 L=1.45		
Mu=-1.55		Mu=-3.21	Mu=-3.04		Mu=-0.36
As=227.70		As=249.50	As=236.11		As=227.70
Mu=0.80	Mu=2.04	Mu=1.61	Mu=0.61	Mu=0.61	Mu=0.00
As=227.70	As=227.70	As=227.70	As=227.70	As=227.70	As=227.70
Vu=-4.61		Vu=5.57	Vu=-4.65		Vu=2.44

VT1024/NE+38.15

B=0.15 H=0.50 L=5.70			B=0.15 H=0.50 L=1.45		
Mu=-10.70		Mu=-11.24	Mu=-5.65		Mu=-0.00
As=645.85		As=680.23	As=333.04		As=227.70
Mu=5.35	Mu=5.73	Mu=5.62	Mu=1.13	Mu=0.00	Mu=0.72
As=314.93	As=337.88	As=331.23	As=227.70	As=227.70	As=227.70
Vu=-9.82		Vu=9.98	Vu=-6.13		Vu=1.01

VT1025/NE+38.15

B=0.15 H=0.50 L=5.70		
Mu=-10.70		Mu=-11.24
As=645.85		As=680.23
Mu=5.35	Mu=5.73	Mu=5.62
As=314.93	As=337.88	As=331.23
Vu=-9.82		Vu=9.98

VT1026/NE+38.15

B=0.15 H=0.50 L=2.11			B=0.15 H=0.50 L=4.74			B=0.15 H=0.80 L=8.59		
Mu=-0.00		Mu=-7.90	Mu=-8.63		Mu=-6.40	Mu=-11.90		Mu=-13.34
As=227.70		As=470.51	As=515.76		As=378.54	As=422.11		As=474.31
Mu=0.77	Mu=0.00	Mu=1.58	Mu=4.32	Mu=2.83	Mu=3.20	Mu=5.95	Mu=3.34	Mu=6.67
As=227.70	As=227.70	As=227.70	As=252.83	As=227.70	As=248.71	As=376.20	As=376.20	As=376.20
Vu=-1.23		Vu=6.75	Vu=-7.75		Vu=6.96	Vu=-8.88		Vu=9.18

VT1027/NE+38.15

B=0.15 H=0.50 L=2.11			B=0.15 H=0.50 L=4.74			B=0.15 H=0.80 L=6.92		
Mu=-0.14		Mu=-5.43	Mu=-5.99		Mu=-9.68	Mu=-21.47		Mu=-0.00
As=227.70		As=319.76	As=353.63		As=581.41	As=773.84		As=376.20
Mu=0.81	Mu=0.26	Mu=1.09	Mu=2.99	Mu=2.51	Mu=4.84	Mu=4.29	Mu=5.32	Mu=2.06
As=227.70	As=227.70	As=227.70	As=232.57	As=227.70	As=284.26	As=376.20	As=376.20	As=376.20
Vu=-2.26		Vu=5.72	Vu=-6.70		Vu=8.01	Vu=-11.84		Vu=5.88

VT1028/NE+38.15

B=0.15 H=0.50 L=2.10			B=0.15 H=0.50 L=4.74			B=0.15 H=0.80 L=4.89		
Mu=-0.59		Mu=-3.72	Mu=-3.28		Mu=-13.13	Mu=-27.64		Mu=-0.00
As=227.70		As=289.79	As=255.21		As=802.13	As=1006.98		As=376.20
Mu=0.00	Mu=0.89	Mu=0.74	Mu=3.28	Mu=3.28	Mu=6.57	Mu=5.53	Mu=0.00	Mu=2.45
As=227.70	As=227.70	As=227.70	As=255.21	As=255.21	As=388.59	As=376.20	As=376.20	As=376.20
Vu=-2.96		Vu=5.02	Vu=-5.53		Vu=9.15	Vu=-12.50		Vu=-1.03

VT1029/NE+38.15

B=0.15 H=0.50 L=2.10			B=0.15 H=0.50 L=4.89			B=0.15 H=0.80 L=4.00		
Mu=-0.65		Mu=-3.41	Mu=-3.69		Mu=-14.77	Mu=-26.94		Mu=-0.00
As=227.70		As=265.28	As=287.61		As=909.94	As=980.26		As=376.20
Mu=0.00	Mu=1.02	Mu=0.68	Mu=3.69	Mu=3.69	Mu=7.39	Mu=5.39	Mu=0.00	Mu=6.03
As=227.70	As=227.70	As=227.70	As=287.61	As=287.61	As=438.79	As=376.20	As=376.20	As=376.20
Vu=-3.08		Vu=4.89	Vu=-5.04		Vu=9.62	Vu=-13.12		Vu=-1.61

VT1030/NE+38.15

B=0.30 H=0.80 L=6.76		
Mu=-0.00		Mu=-18.61
As=752.40		As=876.25
Mu=7.76	Mu=9.44	Mu=3.72
As=752.40	As=752.40	As=752.40
Vu=-3.64		Vu=14.54

VT1031/NE+38.15

B=0.15 H=0.50 L=5.70			B=0.15 H=0.50 L=1.45		
Mu=-12.81		Mu=-9.78	Mu=-5.07		Mu=-0.00
As=781.32		As=587.70	As=298.07		As=227.70
Mu=6.41	Mu=5.41	Mu=5.41	Mu=1.01	Mu=0.00	Mu=0.59
As=378.85	As=318.55	As=318.55	As=227.70	As=227.70	As=227.70
Vu=-10.35		Vu=9.45	Vu=-5.77		Vu=1.42

VT1032/NE+38.15

B=0.15 H=0.50 L=0.65			B=0.15 H=0.50 L=5.70			B=0.15 H=0.50 L=1.45		
Mu=-1.06		Mu=-3.05	Mu=-11.26		Mu=-9.58	Mu=-3.02		Mu=-0.75
As=227.70		As=236.90	As=681.51		As=575.12	As=234.53		As=227.70
Mu=0.00	Mu=0.00	Mu=0.61	Mu=5.63	Mu=6.28	Mu=4.79	Mu=1.51	Mu=0.75	Mu=0.75
As=227.70	As=227.70	As=227.70	As=331.83	As=371.24	As=281.26	As=227.70	As=227.70	As=227.70
Vu=1.62		Vu=3.75	Vu=-10.14		Vu=9.65	Vu=-4.59		Vu=2.59

VT1033/NE+38.15

B=0.15 H=0.50 L=1.45		
Mu=-2.36		Mu=-0.84
As=227.70		As=227.70
Mu=1.18	Mu=0.65	Mu=0.59
As=227.70	As=227.70	As=227.70
Vu=-4.21		Vu=2.97

VT1034/NE+38.15

B=0.15 H=0.50 L=2.10			B=0.15 H=0.50 L=5.01			B=0.15 H=0.80 L=3.89		
Mu=-0.37		Mu=-4.48	Mu=-4.39		Mu=-12.58	Mu=-19.70		Mu=-0.00
As=227.70		As=262.69	As=257.31		As=766.41	As=707.91		As=376.20
Mu=0.00	Mu=0.90	Mu=0.90	Mu=3.14	Mu=3.14	Mu=6.29	Mu=3.94	Mu=0.00	Mu=2.65
As=227.70	As=227.70	As=227.70	As=244.38	As=244.38	As=371.85	As=376.20	As=376.20	As=376.20
Vu=-2.64		Vu=5.33	Vu=-6.05		Vu=8.91	Vu=-10.77		Vu=0.92

VT1035/NE+38.15

B=0.15 H=0.50 L=2.10			B=0.15 H=0.50 L=5.14			B=0.15 H=0.80 L=3.76		
Mu=-0.00		Mu=-6.42	Mu=-7.29		Mu=-9.70	Mu=-14.21		Mu=-3.55
As=227.70		As=379.76	As=432.95		As=582.66	As=505.96		As=376.20
Mu=0.66	Mu=0.00	Mu=1.28	Mu=3.64	Mu=2.92	Mu=4.85	Mu=7.11	Mu=3.55	Mu=3.55
As=227.70	As=227.70	As=227.70	As=283.85	As=227.70	As=284.86	As=376.20	As=376.20	As=376.20
Vu=-1.88		Vu=6.10	Vu=-7.32		Vu=8.13	Vu=-8.70		Vu=2.52

VT1036/NE+38.15

B=0.15 H=0.50 L=2.10			B=0.15 H=0.50 L=5.25			B=0.15 H=0.80 L=3.65		
Mu=-0.00		Mu=-6.46	Mu=-7.89		Mu=-9.27	Mu=-13.56		Mu=-3.39
As=227.70		As=382.19	As=469.90		As=555.69	As=482.30		As=376.20
Mu=1.12	Mu=1.29	Mu=1.29	Mu=3.94	Mu=3.27	Mu=4.64	Mu=6.78	Mu=3.39	Mu=3.39
As=227.70	As=227.70	As=227.70	As=230.77	As=254.23	As=271.97	As=376.20	As=376.20	As=376.20
Vu=-1.51		Vu=6.47	Vu=-7.64		Vu=8.10	Vu=-7.97		Vu=2.80

VT1037/NE+38.15

B=0.15 H=0.50 L=2.10			B=0.15 H=0.50 L=5.25			B=0.15 H=0.80 L=3.65		
Mu=-0.00		Mu=-3.06	Mu=-6.92		Mu=-10.33	Mu=-15.00		Mu=-3.75
As=227.70		As=237.68	As=410.28		As=622.39	As=534.79		As=376.20
Mu=1.63	Mu=0.19	Mu=0.61	Mu=3.46	Mu=2.94	Mu=5.16	Mu=7.50	Mu=3.75	Mu=3.75
As=227.70	As=227.70	As=227.70	As=269.22	As=228.24	As=303.79	As=376.20	As=376.20	As=376.20
Vu=1.00		Vu=4.99	Vu=-7.20		Vu=8.35	Vu=-8.74		Vu=2.06

VT1038/NE+38.15

B=0.15 H=0.50 L=5.22			B=0.15 H=0.80 L=3.65		
Mu=-2.57		Mu=-9.81	Mu=-19.62		Mu=-0.46
As=227.70		As=589.58	As=704.94		As=376.20
Mu=2.45	Mu=2.45	Mu=4.91	Mu=3.92	Mu=0.00	Mu=0.00
As=227.70	As=227.70	As=288.16	As=376.20	As=376.20	As=376.20
Vu=-4.70		Vu=7.74	Vu=-10.00		Vu=0.83

VT1039/NE+38.15

B=0.15 H=0.50 L=1.60			B=0.15 H=0.80 L=1.48		
Mu=-0.34		Mu=-5.90	Mu=-29.96		Mu=-2.69
As=227.70		As=348.17	As=1096.01		As=376.20
Mu=0.00	Mu=0.00	Mu=1.18	Mu=5.99	Mu=0.00	Mu=0.00
As=227.70	As=227.70	As=227.70	As=376.20	As=376.20	As=376.20
Vu=0.93		Vu=5.41	Vu=-11.93		Vu=-2.01

VT1041/NE+38.15

B=0.20 H=0.80 L=3.63			B=0.20 H=0.80 L=5.91		
Mu=-4.68		Mu=-1.17	Mu=-5.81		Mu=-23.24
As=501.60		As=501.60	As=501.60		As=831.92
Mu=1.17	Mu=1.17	Mu=1.17	Mu=9.15	Mu=5.81	Mu=5.81
As=501.60	As=501.60	As=501.60	As=517.25	As=501.60	As=501.60
Vu=-3.82		Vu=1.55	Vu=-3.62		Vu=10.82

VT1042/NE+38.15

B=0.20 H=0.80 L=3.87		
Mu=-29.96		Mu=-0.00
As=1081.70		As=501.60
Mu=5.99	Mu=0.00	Mu=6.27
As=501.60	As=501.60	As=501.60
Vu=-9.28		Vu=-7.25

VT1045/NE+38.15

B=0.20 H=0.80 L=1.40			B=0.20 H=0.80 L=5.79			B=0.20 H=0.80 L=1.55		
Mu=-0.04		Mu=-0.20	Mu=-5.26		Mu=-21.02	Mu=-10.45		Mu=-11.97
As=501.60		As=501.60	As=501.60		As=750.37	As=501.60		As=563.31
Mu=0.00	Mu=0.53	Mu=0.35	Mu=5.26	Mu=5.26	Mu=10.51	Mu=5.22	Mu=2.99	Mu=2.99
As=501.60	As=501.60	As=501.60	As=501.60	As=501.60	As=501.60	As=501.60	As=501.60	As=501.60
Vu=-1.37		Vu=1.41	Vu=-4.12		Vu=10.80	Vu=-0.52		Vu=2.25

B=0.20 H=0.80 L=2.67		
Mu=-14.58		Mu=-20.02
As=527.90		As=713.78
Mu=5.01	Mu=5.01	Mu=10.01
As=501.60	As=501.60	As=501.60
Vu=0.90		Vu=2.61

VT1046/NE+38.15

B=0.15 H=0.50 L=3.67		
Mu=-2.08		Mu=-1.44
As=227.70		As=227.70
Mu=1.04	Mu=2.61	Mu=0.72
As=227.70	As=227.70	As=227.70
Vu=-4.96		Vu=4.61

VT1047/NE+38.15

B=0.15 H=0.50 L=5.24			B=0.15 H=0.80 L=1.14		
Mu=-7.18		Mu=-8.03	Mu=-1.98		Mu=-0.58
As=426.20		As=478.55	As=376.20		As=376.20
Mu=3.59	Mu=4.54	Mu=4.01	Mu=0.40	Mu=0.00	Mu=0.00
As=279.50	As=266.28	As=234.94	As=376.20	As=376.20	As=376.20
Vu=-7.83		Vu=8.11	Vu=-2.66		Vu=0.42

VT1048/NE+38.15

B=0.15 H=0.50 L=5.25			B=0.15 H=0.80 L=3.65		
Mu=-6.11		Mu=-10.41	Mu=-18.14		Mu=-0.00
As=360.91		As=627.46	As=650.13		As=376.20
Mu=3.89	Mu=3.89	Mu=5.20	Mu=3.63	Mu=0.00	Mu=6.43
As=303.26	As=303.26	As=306.20	As=376.20	As=376.20	As=376.20
Vu=-7.26		Vu=8.67	Vu=-11.29		Vu=-1.08

VT1049/NE+38.15

B=0.15 H=0.50 L=5.10			B=0.15 H=0.80 L=3.97		
Mu=-6.10		Mu=-9.28	Mu=-7.50		Mu=-2.21
As=360.30		As=556.32	As=376.20		As=376.20
Mu=3.97	Mu=3.97	Mu=4.64	Mu=3.75	Mu=1.88	Mu=1.88
As=243.51	As=243.51	As=272.27	As=376.20	As=376.20	As=376.20
Vu=-7.28		Vu=8.34	Vu=-6.75		Vu=4.26

VT1050/NE+38.15

B=0.15 H=0.50 L=4.95			B=0.15 H=0.80 L=6.06		
Mu=-3.28		Mu=-11.46	Mu=-9.82		Mu=-3.28
As=255.02		As=694.30	As=462.76		As=376.20
Mu=2.87	Mu=4.14	Mu=5.73	Mu=4.91	Mu=3.22	Mu=2.45
As=227.70	As=279.66	As=337.88	As=376.20	As=376.20	As=376.20
Vu=-6.25		Vu=9.04	Vu=-8.26		Vu=4.65

VT1051/NE+38.15

B=0.15 H=0.50 L=4.76			B=0.15 H=0.80 L=6.79		
Mu=-3.23		Mu=-12.93	Mu=-8.21		Mu=-3.30
As=251.27		As=789.12	As=385.89		As=376.20
Mu=3.23	Mu=4.25	Mu=6.47	Mu=4.11	Mu=2.05	Mu=2.05
As=251.27	As=249.19	As=382.50	As=376.20	As=376.20	As=376.20
Vu=-5.47		Vu=9.50	Vu=-6.69		Vu=4.40

VT1052/NE+38.15

B=0.15 H=0.50 L=4.77		
Mu=-3.22		Mu=-12.88
As=250.29		As=785.87
Mu=3.22	Mu=4.10	Mu=6.44
As=250.29	As=240.12	As=380.98
Vu=-5.31		Vu=9.45

VT1053/NE+38.15

B=0.15 H=0.80 L=2.13		
Mu=-4.48		Mu=-1.19
As=376.20		As=376.20
Mu=2.24	Mu=1.12	Mu=1.12
As=376.20	As=376.20	As=376.20
Vu=-5.20		Vu=3.16

VT1054/NE+38.15

B=0.15 H=0.50 L=4.77			B=0.15 H=0.80 L=4.13		
Mu=-2.87		Mu=-11.47	Mu=-18.73		Mu=-0.89
As=227.70		As=694.94	As=671.95		As=376.20
Mu=2.87	Mu=3.76	Mu=5.74	Mu=3.75	Mu=1.67	Mu=0.00
As=227.70	As=293.27	As=338.18	As=376.20	As=376.20	As=376.20
Vu=-5.82		Vu=8.94	Vu=-10.31		Vu=3.72

VT1055/NE+38.15

B=0.15 H=0.50 L=4.77			B=0.15 H=0.80 L=4.13		
Mu=-5.16		Mu=-8.97	Mu=-17.06		Mu=-4.26
As=303.49		As=536.94	As=610.32		As=376.20
Mu=3.36	Mu=3.36	Mu=4.49	Mu=8.53	Mu=4.26	Mu=4.26
As=261.33	As=261.33	As=262.99	As=401.14	As=376.20	As=376.20
Vu=-6.71		Vu=8.05	Vu=-9.61		Vu=4.26

VT1056/NE+38.15

B=0.15 H=0.80 L=4.13		
Mu=-11.71		Mu=-3.62
As=415.24		As=376.20
Mu=5.86	Mu=2.93	Mu=2.93
As=376.20	As=376.20	As=376.20
Vu=-7.90		Vu=4.52

VT1057/NE+38.15

B=0.20 H=0.70 L=4.77			B=0.20 H=0.70 L=1.73		
Mu=-6.71		Mu=-8.87	Mu=-12.70		Mu=-0.00
As=435.60		As=480.55	As=519.36		As=435.60
Mu=3.36	Mu=5.09	Mu=4.43	Mu=2.54	Mu=0.97	Mu=2.47
As=435.60	As=435.60	As=435.60	As=435.60	As=435.60	As=435.60
Vu=-8.05		Vu=8.76	Vu=-8.89		Vu=3.16

VT1058/NE+38.15

B=0.15 H=0.50 L=3.01		
Mu=-6.53		Mu=-8.66
As=386.46		As=517.62
Mu=3.27	Mu=4.75	Mu=4.33
As=253.83	As=278.86	As=253.73
Vu=-7.68		Vu=8.38

VT1059/NE+38.15

B=0.20 H=0.80 L=1.18			B=0.20 H=0.80 L=0.32		
Mu=-8.06		Mu=-12.24	Mu=-16.91		Mu=-0.56
As=501.60		As=576.21	As=600.59		As=501.60
Mu=0.00	Mu=0.00	Mu=2.45	Mu=3.38	Mu=0.00	Mu=0.12
As=501.60	As=501.60	As=501.60	As=501.60	As=501.60	As=501.60
Vu=2.66		Vu=4.83	Vu=-6.36		Vu=-4.98

VT1063/NE+38.15

B=0.30 H=0.80 L=5.18		
Mu=-0.00		Mu=-14.60
As=752.40		As=752.40
Mu=2.24	Mu=0.35	Mu=2.92
As=752.40	As=752.40	As=752.40
Vu=-1.93		Vu=10.86

VT1064/NE+38.15

B=0.25 H=0.80 L=1.09			B=0.25 H=0.80 L=4.88			B=0.25 H=0.80 L=2.54		
Mu=-15.92		Mu=-3.98	Mu=-0.32		Mu=-1.29	Mu=-1.96		Mu=-0.11
As=749.90		As=627.00	As=627.00		As=627.00	As=627.00		As=627.00
Mu=7.96	Mu=3.98	Mu=3.98	Mu=1.18	Mu=0.97	Mu=0.64	Mu=0.39	Mu=0.66	Mu=0.00
As=627.00	As=627.00	As=627.00	As=627.00	As=627.00	As=627.00	As=627.00	As=627.00	As=627.00
Vu=5.31		Vu=3.67	Vu=-0.65		Vu=1.42	Vu=-3.39		Vu=1.93

VT1065/NE+38.15

B=0.20 H=0.80 L=1.21			B=0.20 H=0.80 L=4.99			B=0.20 H=0.80 L=1.82		
Mu=-0.17		Mu=-0.05	Mu=-5.02		Mu=-20.07	Mu=-16.46		Mu=-4.97
As=501.60		As=501.60	As=501.60		As=715.61	As=584.28		As=501.60
Mu=0.00	Mu=0.94	Mu=0.68	Mu=5.02	Mu=7.88	Mu=10.03	Mu=8.23	Mu=4.11	Mu=4.11
As=501.60	As=501.60	As=501.60	As=501.60	As=501.60	As=501.60	As=501.60	As=501.60	As=501.60
Vu=-2.71		Vu=1.73	Vu=-7.06		Vu=13.22	Vu=-6.85		Vu=2.73

MEMORIAS VIGUETAS PISO 12 NE+50.75m

VT901/NE+33.95m

B=0.20 H=0.70 L=2.52		
Mu=-0.00		Mu=-0.00
As=435.60		As=435.60
Mu=0.12	Mu=0.89	Mu=0.12
As=435.60	As=435.60	As=435.60
Vu=1.22		Vu=-1.22

VT902/NE+33.95m

B=0.20 H=0.70 L=4.47		
Mu=-0.00		Mu=-0.00
As=435.60		As=435.60
Mu=0.23	Mu=2.85	Mu=0.62
As=435.60	As=435.60	As=435.60
Vu=2.26		Vu=-2.08

VT903/NE+33.95m

B=0.20 H=0.70 L=3.07		
Mu=-0.00		Mu=-0.00
As=435.60		As=435.60
Mu=0.15	Mu=1.29	Mu=0.15
As=435.60	As=435.60	As=435.60
Vu=1.49		Vu=-1.49

VT905/NE+33.95m

B=0.20 H=0.70 L=3.12		
Mu=-0.00		Mu=-0.00
As=435.60		As=435.60
Mu=0.15	Mu=1.33	Mu=0.15
As=435.60	As=435.60	As=435.60
Vu=1.51		Vu=-1.51

VT907/NE+33.95m

B=0.15 H=0.80 L=6.32		
Mu=-0.00		Mu=-0.00
As=376.20		As=376.20
Mu=0.26	Mu=5.70	Mu=0.26
As=376.20	As=376.20	As=376.20
Vu=3.44		Vu=-3.44

MEMORIAS VIGUETAS PISO 12 NE+50.75m

VT908/NE+33.95m

B=0.15 H=0.80 L=1.30			B=0.15 H=0.80 L=1.28		
Mu=-0.00		Mu=-0.16	Mu=-0.16		Mu=-0.00
As=376.20		As=376.20	As=376.20		As=376.20
Mu=0.04	Mu=0.17	Mu=0.03	Mu=0.03	Mu=0.16	Mu=0.04
As=376.20	As=376.20	As=376.20	As=376.20	As=376.20	As=376.20
Vu=0.56		Vu=-0.86	Vu=0.85		Vu=-0.54

VT910/NE+33.95m

B=0.15 H=0.80 L=1.30			B=0.15 H=0.80 L=1.28		
Mu=-0.00		Mu=-0.16	Mu=-0.16		Mu=-0.00
As=376.20		As=376.20	As=376.20		As=376.20
Mu=0.04	Mu=0.17	Mu=0.03	Mu=0.03	Mu=0.16	Mu=0.04
As=376.20	As=376.20	As=376.20	As=376.20	As=376.20	As=376.20
Vu=0.56		Vu=-0.86	Vu=0.85		Vu=-0.54

VT911/NE+33.95m

B=0.15 H=0.80 L=1.30			B=0.15 H=0.80 L=1.28		
Mu=-0.00		Mu=-0.16	Mu=-0.16		Mu=-0.00
As=376.20		As=376.20	As=376.20		As=376.20
Mu=0.04	Mu=0.17	Mu=0.03	Mu=0.03	Mu=0.16	Mu=0.04
As=376.20	As=376.20	As=376.20	As=376.20	As=376.20	As=376.20
Vu=0.56		Vu=-0.86	Vu=0.85		Vu=-0.54

VT969/NE+33.95m

B=0.20 H=0.80 L=2.35		
Mu=-0.00		Mu=-0.00
As=501.60		As=501.60
Mu=0.11	Mu=0.78	Mu=0.11
As=501.60	As=501.60	As=501.60
Vu=1.14		Vu=-1.14

VT912/NE+33.95m

B=0.15 H=0.80 L=2.02			B=0.15 H=0.80 L=4.22		
Mu=-0.00		Mu=-1.81	Mu=-1.67		Mu=-0.00
As=376.20		As=376.20	As=376.20		As=376.20
Mu=0.03	Mu=0.00	Mu=0.36	Mu=0.33	Mu=1.66	Mu=0.14
As=376.20	As=376.20	As=376.20	As=376.20	As=376.20	As=376.20
Vu=0.20		Vu=-2.00	Vu=2.73		Vu=-1.87

VT913/NE+33.95m

B=0.20 H=0.70 L=2.21		
Mu=-0.00		Mu=-0.00
As=435.60		As=435.60
Mu=0.11	Mu=0.70	Mu=0.11
As=435.60	As=435.60	As=435.60
Vu=1.07		Vu=-1.07

MEMORIAS VIGUETAS PISO 12 NE+50.75m

VT914/NE+33.95m

B=0.20 H=0.70 L=3.13		
Mu=-0.00		Mu=-0.00
As=435.60		As=435.60
Mu=0.43	Mu=1.48	Mu=0.16
As=435.60	As=435.60	As=435.60
Vu=1.43		Vu=-1.60

VT951/NE+33.95m

B=0.20 H=0.80 L=3.64			B=0.20 H=0.80 L=6.18		
Mu=-0.00		Mu=-6.43	Mu=-6.26		Mu=-0.00
As=501.60		As=501.60	As=501.60		As=501.60
Mu=0.00	Mu=0.00	Mu=1.29	Mu=1.25	Mu=1.74	Mu=0.48
As=501.60	As=501.60	As=501.60	As=501.60	As=501.60	As=501.60
Vu=0.00		Vu=-3.53	Vu=4.09		Vu=-1.91

VT973/NE+33.95m

B=0.15 H=0.45 L=5.02		
Mu=-0.00		Mu=-0.00
As=202.95		As=202.95
Mu=0.27	Mu=3.32	Mu=0.27
As=202.95	As=247.57	As=202.95
Vu=2.43		Vu=-2.43

VT974/NE+33.95m

B=0.15 H=0.50 L=4.68		
Mu=-0.00		Mu=-0.00
As=227.70		As=227.70
Mu=0.25	Mu=2.91	Mu=0.25
As=227.70	As=227.70	As=227.70
Vu=2.27		Vu=-2.27

VT975/NE+33.95m

B=0.15 H=0.50 L=2.60			B=0.15 H=0.50 L=1.49		
Mu=-0.00		Mu=-0.47	Mu=-0.62		Mu=-0.00
As=227.70		As=227.70	As=227.70		As=227.70
Mu=0.10	Mu=0.73	Mu=0.09	Mu=0.12	Mu=0.01	Mu=0.10
As=227.70	As=227.70	As=227.70	As=227.70	As=227.70	As=227.70
Vu=1.20		Vu=-1.63	Vu=1.26		Vu=-0.36

VT958/NE+33.95m

B=0.40 H=0.50 L=5.97			B=0.40 H=0.50 L=1.45		
Mu=-0.00		Mu=-0.00	Mu=-2.21		Mu=-0.00
As=607.20		As=607.20	As=607.20		As=607.20
Mu=3.09	Mu=27.06	Mu=0.07	Mu=0.44	Mu=0.00	Mu=0.00
As=786.82	As=1628.80	As=607.20	As=607.20	As=607.20	As=607.20
Vu=12.36		Vu=-12.17	Vu=3.05		Vu=0.00

MEMORIAS VIGUETAS PISO 12 NE+50.75m

VT921/NE+33.95m

B=0.25 H=0.30 L=8.42		
Mu=-0.00		Mu=-0.00
As=214.50		As=214.50
Mu=1.35	Mu=10.63	Mu=0.58
As=502.98	As=1191.38	As=435.87
Vu=4.50		Vu=-4.68

VT922/NE+33.95m

B=0.20 H=0.80 L=7.26		
Mu=-0.00		Mu=-0.00
As=501.60		As=501.60
Mu=1.16	Mu=8.01	Mu=0.51
As=501.60	As=501.60	As=501.60
Vu=3.87		Vu=-4.05

VT972/NE+33.95m

B=0.20 H=0.80 L=4.91		
Mu=-0.00		Mu=-0.00
As=501.60		As=501.60
Mu=0.27	Mu=3.59	Mu=0.33
As=501.60	As=501.60	As=501.60
Vu=2.69		Vu=-2.66

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VT1100/NE+42.35

B=0.20 H=0.80 L=6.90			B=0.20 H=0.80 L=13.25			B=0.20 H=0.80 L=1.64		
Mu=-0.71 As =5.68 As(r)=5.02		Mu=-42.59 As =17.53 As(r)=15.64	Mu=-44.83 As =17.53 As(r)=16.51		Mu=-8.97 As =5.68 As(r)=5.02	Mu=-5.48 As =5.68 As(r)=5.02		Mu=-27.41 As =11.06 As(r)=9.86
Mu=0.00 As =5.68 As(r)=5.02	Mu=0.00 As =5.68 As(r)=5.02	Mu=8.52 As =5.68 As(r)=5.02	Mu=14.94 As =5.68 As(r)=5.29	Mu=14.94 As =5.68 As(r)=5.29	Mu=10.89 As =5.68 As(r)=5.16	Mu=9.47 As =5.68 As(r)=5.02	Mu=5.48 As =5.68 As(r)=5.02	Mu=9.14 As =5.68 As(r)=5.02
Vu=2.29		Vu=9.25	Vu=-13.31		Vu=4.09	Vu=6.56		Vu=11.95

B=0.20 H=0.80 L=1.08		
Mu=-28.89 As =11.06 As(r)=10.42		Mu=-9.53 As =5.68 As(r)=5.02
Mu=5.78 As =5.68 As(r)=5.02	Mu=0.00 As =5.68 As(r)=5.02	Mu=0.00 As =5.68 As(r)=5.02
Vu=-8.28		Vu=-4.76

VT1106/NE+42.35

B=0.20 H=0.80 L=4.33		
Mu=-0.84 As =5.68 As(r)=5.02		Mu=-0.60 As =5.68 As(r)=5.02
Mu=0.28 As =5.68 As(r)=5.02	Mu=0.17 As =5.68 As(r)=5.02	Mu=0.20 As =5.68 As(r)=5.02
Vu=-0.86		Vu=0.59

VT1115/NE+42.35

B=0.20 H=0.80 L=6.15			B=0.20 H=0.80 L=13.25			B=0.20 H=0.80 L=11.14		
Mu=-3.99 As =10.20 As(r)=5.02		Mu=-59.62 As =23.71 As(r)=22.42	Mu=-50.11 As =23.71 As(r)=18.59		Mu=-49.23 As =19.86 As(r)=18.24	Mu=-43.76 As =19.86 As(r)=16.09		Mu=-8.75 As =5.68 As(r)=5.02
Mu=0.00 As =5.68 As(r)=5.02	Mu=0.00 As =5.68 As(r)=5.02	Mu=11.92 As =5.68 As(r)=5.02	Mu=16.70 As =5.68 As(r)=5.93	Mu=19.98 As =5.68 As(r)=9.80	Mu=16.41 As =11.06 As(r)=5.82	Mu=14.59 As =11.06 As(r)=5.17	Mu=11.62 As =5.68 As(r)=5.02	Mu=8.75 As =5.68 As(r)=5.02
Vu=4.95		Vu=15.41	Vu=-17.06		Vu=26.25	Vu=-16.34		Vu=7.10

VT1116/NE+42.35

B=0.20 H=0.80 L=13.25			B=0.20 H=0.80 L=13.30			B=0.20 H=0.80 L=13.30		
Mu=-36.83 As =13.97 As(r)=13.42		Mu=-59.44 As =31.90 As(r)=22.35	Mu=-70.21 As =31.90 As(r)=26.83		Mu=-72.55 As =31.90 As(r)=27.82	Mu=-50.38 As =31.90 As(r)=18.70		Mu=-10.08 As =10.20 As(r)=5.02
Mu=12.28 As =5.68 As(r)=5.02	Mu=27.25 As =10.20 As(r)=9.80	Mu=19.81 As =10.20 As(r)=7.06	Mu=23.40 As =10.20 As(r)=8.38	Mu=57.97 As =10.20 As(r)=24.76	Mu=24.18 As =10.20 As(r)=8.67	Mu=16.79 As =10.20 As(r)=5.96	Mu=14.54 As =10.20 As(r)=5.15	Mu=10.08 As =5.68 As(r)=5.02
Vu=-17.24		Vu=21.38	Vu=-25.06		Vu=28.45	Vu=-16.80		Vu=6.16

B=0.20 H=0.80 L=3.35			B=0.20 H=0.80 L=0.44		
Mu=-5.98 As =10.20 As(r)=5.02		Mu=-5.88 As =10.20 As(r)=5.02	Mu=-5.98 As =10.20 As(r)=5.02		Mu=-5.88 As =10.20 As(r)=5.02
Mu=3.36 As =5.68 As(r)=5.02	Mu=3.36 As =10.20 As(r)=5.02	Mu=3.36 As =5.68 As(r)=5.02	Mu=3.36 As =5.68 As(r)=5.02	Mu=3.36 As =10.20 As(r)=5.02	Mu=3.36 As =5.68 As(r)=5.02
Vu=4.44		Vu=-4.12	Vu=4.44		Vu=-4.12

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VT1117/NE+42.35

B=0.20 H=0.80 L=2.14			B=0.20 H=0.80 L=4.86			B=0.20 H=0.80 L=1.79		
Mu=-0.59 As =5.68 As(r)=5.02		Mu=-8.40 As =5.68 As(r)=5.02	Mu=-11.39 As =5.68 As(r)=5.02		Mu=-13.80 As =5.68 As(r)=5.02	Mu=-3.76 As =5.68 As(r)=5.02		Mu=-0.69 As =5.68 As(r)=5.02
Mu=0.00 As =5.68 As(r)=5.02	Mu=0.00 As =5.68 As(r)=5.02	Mu=1.68 As =5.68 As(r)=5.02	Mu=3.80 As =5.68 As(r)=5.02	Mu=2.97 As =5.68 As(r)=5.02	Mu=4.60 As =5.68 As(r)=5.02	Mu=0.75 As =5.68 As(r)=5.02	Mu=0.00 As =5.68 As(r)=5.02	Mu=0.00 As =5.68 As(r)=5.02
Vu=-0.46		Vu=5.49	Vu=-9.39		Vu=10.21	Vu=-4.38		Vu=-0.62

VT1118/NE+42.35

B=0.20 H=0.80 L=4.43		
Mu=-21.27 As =8.12 As(r)=7.60		Mu=-1.36 As =5.68 As(r)=5.02
Mu=4.25 As =5.68 As(r)=5.02	Mu=0.00 As =5.68 As(r)=5.02	Mu=0.00 As =5.68 As(r)=5.02
Vu=-11.66		Vu=2.16

VT1119/NE+42.35

B=0.15 H=0.50 L=3.40		
Mu=-7.94 As =4.83 As(r)=4.73		Mu=-9.88 As =7.19 As(r)=5.94
Mu=2.65 As =3.28 As(r)=2.28	Mu=3.59 As =3.28 As(r)=2.28	Mu=3.29 As =3.28 As(r)=2.28
Vu=-7.77		Vu=8.40

VT1120/NE+42.35

B=0.20 H=0.70 L=2.10			B=0.20 H=0.70 L=4.75			B=0.20 H=0.70 L=4.13		
Mu=-0.21 As =5.68 As(r)=4.36		Mu=-11.23 As =5.68 As(r)=4.58	Mu=-8.87 As =5.68 As(r)=4.36		Mu=-14.27 As =8.10 As(r)=5.85	Mu=-15.90 As =8.10 As(r)=6.54		Mu=-0.28 As =5.68 As(r)=4.36
Mu=0.00 As =5.68 As(r)=4.36	Mu=0.00 As =5.68 As(r)=4.36	Mu=2.25 As =5.68 As(r)=4.36	Mu=2.96 As =5.68 As(r)=4.36	Mu=2.85 As =5.68 As(r)=4.36	Mu=4.76 As =5.68 As(r)=4.36	Mu=3.18 As =5.68 As(r)=4.36	Mu=0.31 As =5.68 As(r)=4.36	Mu=0.00 As =5.68 As(r)=4.36
Vu=-0.54		Vu=7.79	Vu=-7.57		Vu=9.33	Vu=-9.73		Vu=1.95

VT1121/NE+42.35

B=0.15 H=0.80 L=2.10			B=0.15 H=0.80 L=4.75			B=0.15 H=0.80 L=4.13		
Mu=-0.24 As =5.68 As(r)=3.76		Mu=-15.59 As =5.68 As(r)=5.56	Mu=-13.64 As =5.68 As(r)=4.85		Mu=-16.84 As =5.68 As(r)=6.02	Mu=-16.30 As =5.68 As(r)=5.82		Mu=-0.31 As =5.68 As(r)=3.76
Mu=0.00 As =3.98 As(r)=3.76	Mu=0.00 As =3.98 As(r)=3.76	Mu=3.12 As =3.98 As(r)=3.76	Mu=4.55 As =3.98 As(r)=3.76	Mu=3.37 As =3.98 As(r)=3.76	Mu=5.61 As =3.98 As(r)=3.76	Mu=3.26 As =3.98 As(r)=3.76	Mu=0.42 As =3.98 As(r)=3.76	Mu=0.00 As =3.98 As(r)=3.76
Vu=1.37		Vu=9.22	Vu=-11.52		Vu=12.57	Vu=-9.88		Vu=2.13

VT1122/NE+42.35

B=0.15 H=0.80 L=4.13		
Mu=-14.05 As =5.68 As(r)=5.00		Mu=-3.82 As =5.68 As(r)=3.76
Mu=4.68 As =3.98 As(r)=3.76	Mu=2.81 As =3.98 As(r)=3.76	Mu=2.81 As =3.98 As(r)=3.76
Vu=-8.49		Vu=3.54

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VT1123/NE+42.35

B=0.15 H=0.50 L=2.10			B=0.15 H=0.50 L=4.75			B=0.15 H=0.80 L=4.13		
Mu=-0.00 As =3.98 As(r)=2.28		Mu=-7.72 As =6.34 As(r)=4.59	Mu=-8.59 As =6.34 As(r)=5.13		Mu=-6.56 As =6.42 As(r)=3.88	Mu=-17.40 As =6.42 As(r)=6.23		Mu=-3.84 As =3.98 As(r)=3.76
Mu=0.73 As =2.58 As(r)=2.28	Mu=0.00 As =2.58 As(r)=2.28	Mu=1.54 As =2.58 As(r)=2.28	Mu=2.86 As =2.58 As(r)=2.28	Mu=2.77 As =2.58 As(r)=2.28	Mu=2.77 As =2.58 As(r)=2.28	Mu=5.80 As =6.56 As(r)=3.76	Mu=3.48 As =2.58 As(r)=3.76	Mu=3.48 As =3.98 As(r)=3.76
Vu=-1.32		Vu=6.66	Vu=-7.71		Vu=6.99	Vu=-9.65		Vu=3.77

VT1124/NE+42.35

B=0.15 H=0.50 L=2.10			B=0.15 H=0.50 L=4.75			B=0.15 H=0.80 L=4.13		
Mu=-0.15 As =3.98 As(r)=2.28		Mu=-5.43 As =3.98 As(r)=3.20	Mu=-6.18 As =3.98 As(r)=3.65		Mu=-9.74 As =11.20 As(r)=5.85	Mu=-28.90 As =11.51 As(r)=10.55		Mu=-1.39 As =3.98 As(r)=3.76
Mu=0.80 As =2.58 As(r)=2.28	Mu=0.25 As =2.58 As(r)=2.28	Mu=1.09 As =2.58 As(r)=2.28	Mu=2.39 As =2.58 As(r)=2.28	Mu=2.39 As =2.58 As(r)=2.28	Mu=3.25 As =2.58 As(r)=2.28	Mu=5.78 As =6.56 As(r)=3.76	Mu=0.00 As =2.58 As(r)=3.76	Mu=0.00 As =3.98 As(r)=3.76
Vu=-2.26		Vu=5.72	Vu=-6.72		Vu=7.99	Vu=-12.68		Vu=0.75

VT1125/NE+42.35

B=0.15 H=0.50 L=2.10			B=0.15 H=0.50 L=4.75			B=0.15 H=0.80 L=4.13		
Mu=-0.51 As =3.98 As(r)=2.28		Mu=-3.87 As =3.98 As(r)=2.28	Mu=-3.39 As =3.98 As(r)=2.28		Mu=-13.23 As =14.24 As(r)=8.09	Mu=-40.50 As =15.07 As(r)=15.11		Mu=-0.00 As =3.98 As(r)=3.76
Mu=0.00 As =2.58 As(r)=2.28	Mu=0.86 As =2.58 As(r)=2.28	Mu=0.77 As =2.58 As(r)=2.28	Mu=2.65 As =2.58 As(r)=2.28	Mu=2.65 As =2.58 As(r)=2.28	Mu=4.41 As =2.58 As(r)=2.59	Mu=8.10 As =6.56 As(r)=3.76	Mu=0.00 As =2.58 As(r)=3.76	Mu=0.42 As =3.98 As(r)=3.76
Vu=-2.89		Vu=5.09	Vu=-5.59		Vu=9.09	Vu=-15.58		Vu=-2.37

VT1126/NE+42.35

B=0.15 H=0.50 L=2.10			B=0.15 H=0.50 L=4.89			B=0.15 H=0.80 L=3.99		
Mu=-0.62 As =3.98 As(r)=2.28		Mu=-3.34 As =3.98 As(r)=2.28	Mu=-3.02 As =3.98 As(r)=2.28		Mu=-15.11 As =13.82 As(r)=9.33	Mu=-36.58 As =15.07 As(r)=13.54		Mu=-0.89 As =3.98 As(r)=3.76
Mu=0.00 As =3.98 As(r)=2.28	Mu=1.06 As =3.98 As(r)=2.28	Mu=0.67 As =3.98 As(r)=2.28	Mu=3.02 As =3.98 As(r)=2.28	Mu=3.02 As =3.98 As(r)=2.28	Mu=5.04 As =3.98 As(r)=2.96	Mu=7.32 As =7.96 As(r)=3.76	Mu=0.00 As =3.98 As(r)=3.76	Mu=0.00 As =3.98 As(r)=3.76
Vu=-3.10		Vu=4.88	Vu=-5.12		Vu=9.53	Vu=-14.44		Vu=-1.35

VT1127/NE+42.35

B=0.50 H=0.50 L=2.10			B=0.50 H=0.50 L=5.02		
Mu=-0.25 As =8.55 As(r)=7.59		Mu=-8.69 As =9.84 As(r)=7.59	Mu=-14.69 As =9.84 As(r)=8.61		Mu=-73.47 As =49.14 As(r)=47.12
Mu=0.00 As =8.81 As(r)=7.59	Mu=0.75 As =8.81 As(r)=7.59	Mu=1.74 As =8.81 As(r)=7.59	Mu=14.69 As =8.81 As(r)=8.61	Mu=14.69 As =8.81 As(r)=8.61	Mu=24.49 As =15.30 As(r)=14.55
Vu=-2.63		Vu=8.21	Vu=2.38		Vu=22.72

VT1128/NE+42.35

B=0.15 H=0.50 L=2.10			B=0.15 H=0.50 L=5.11			B=0.15 H=0.80 L=3.77		
Mu=-0.28 As =3.98 As(r)=2.28		Mu=-5.86 As =6.34 As(r)=3.46	Mu=-7.92 As =6.34 As(r)=4.72		Mu=-9.83 As =8.12 As(r)=5.91	Mu=-20.53 As =8.12 As(r)=7.39		Mu=-4.33 As =3.98 As(r)=3.76
Mu=0.00 As =2.58 As(r)=2.28	Mu=0.59 As =2.58 As(r)=2.28	Mu=1.17 As =2.58 As(r)=2.28	Mu=2.64 As =2.58 As(r)=2.28	Mu=2.55 As =2.58 As(r)=2.28	Mu=3.28 As =2.58 As(r)=2.28	Mu=6.84 As =6.56 As(r)=3.76	Mu=4.11 As =2.58 As(r)=3.76	Mu=4.11 As =3.98 As(r)=3.76
Vu=-2.16		Vu=5.82	Vu=-7.40		Vu=8.05	Vu=-10.04		Vu=2.56

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VT1129/NE+42.35

B=0.15 H=0.50 L=2.10			B=0.15 H=0.50 L=5.25			B=0.15 H=0.80 L=3.63		
Mu=-0.00 As =2.58 As(r)=2.28		Mu=-6.92 As =4.94 As(r)=4.10	Mu=-8.23 As =4.94 As(r)=4.91		Mu=-8.86 As =6.42 As(r)=5.30	Mu=-12.72 As =6.42 As(r)=4.52		Mu=-3.27 As =3.98 As(r)=3.76
Mu=1.24 As =2.58 As(r)=2.28	Mu=0.02 As =2.58 As(r)=2.28	Mu=1.38 As =2.58 As(r)=2.28	Mu=2.74 As =2.58 As(r)=2.28	Mu=3.31 As =2.58 As(r)=2.28	Mu=2.95 As =2.58 As(r)=2.28	Mu=4.24 As =6.56 As(r)=3.76	Mu=2.54 As =2.58 As(r)=3.76	Mu=2.54 As =3.98 As(r)=3.76
Vu=-1.44		Vu=6.54	Vu=-7.77		Vu=7.97	Vu=-8.32		Vu=3.78

VT1130/NE+42.35

B=0.15 H=0.50 L=2.10			B=0.15 H=0.50 L=5.25			B=0.15 H=0.80 L=3.63		
Mu=-0.00 As =2.58 As(r)=2.28		Mu=-4.29 As =4.94 As(r)=2.51	Mu=-7.23 As =4.94 As(r)=4.29		Mu=-9.73 As =6.42 As(r)=5.85	Mu=-12.80 As =6.42 As(r)=4.55		Mu=-2.56 As =3.98 As(r)=3.76
Mu=2.61 As =2.58 As(r)=2.28	Mu=0.06 As =2.58 As(r)=2.28	Mu=0.86 As =2.58 As(r)=2.28	Mu=3.08 As =2.58 As(r)=2.28	Mu=3.08 As =2.58 As(r)=2.28	Mu=3.24 As =2.58 As(r)=2.28	Mu=4.27 As =6.56 As(r)=3.76	Mu=2.56 As =2.58 As(r)=3.76	Mu=2.56 As =3.98 As(r)=3.76
Vu=2.12		Vu=6.32	Vu=-7.35		Vu=8.19	Vu=-8.87		Vu=3.26

VT1131/NE+42.35

B=0.15 H=0.50 L=5.12			B=0.15 H=0.80 L=3.63		
Mu=-3.03 As =2.58 As(r)=2.28		Mu=-7.23 As =6.42 As(r)=4.29	Mu=-14.68 As =6.42 As(r)=5.23		Mu=-2.94 As =3.98 As(r)=3.76
Mu=1.45 As =2.58 As(r)=2.28	Mu=1.45 As =2.58 As(r)=2.28	Mu=2.41 As =2.58 As(r)=2.28	Mu=4.89 As =6.56 As(r)=3.76	Mu=2.94 As =2.58 As(r)=3.76	Mu=2.94 As =3.98 As(r)=3.76
Vu=-4.14		Vu=6.26	Vu=-9.39		Vu=2.78

VT1132/NE+42.35

B=0.15 H=0.80 L=1.61			B=0.15 H=0.80 L=3.48		
Mu=-0.00 As =5.68 As(r)=3.76		Mu=-23.69 As =8.12 As(r)=8.57	Mu=-19.93 As =8.12 As(r)=7.16		Mu=-0.29 As =5.68 As(r)=3.76
Mu=1.83 As =3.98 As(r)=3.76	Mu=0.00 As =3.98 As(r)=3.76	Mu=4.74 As =3.98 As(r)=3.76	Mu=3.99 As =3.98 As(r)=3.76	Mu=0.02 As =3.98 As(r)=3.76	Mu=0.00 As =3.98 As(r)=3.76
Vu=1.88		Vu=11.87	Vu=-10.78		Vu=1.41

VT1134/NE+42.35

B=0.15 H=0.80 L=3.14			B=0.15 H=0.80 L=3.16		
Mu=-0.00 As =3.98 As(r)=3.76		Mu=-19.71 As =7.75 As(r)=7.08	Mu=-16.94 As =7.75 As(r)=6.06		Mu=-3.39 As =3.98 As(r)=3.76
Mu=2.13 As =3.98 As(r)=3.76	Mu=0.00 As =3.98 As(r)=3.76	Mu=3.94 As =3.98 As(r)=3.76	Mu=5.65 As =3.98 As(r)=3.76	Mu=3.39 As =3.98 As(r)=3.76	Mu=3.39 As =3.98 As(r)=3.76
Vu=1.39		Vu=10.95	Vu=-9.08		Vu=1.82

VT1135/NE+42.35

B=0.15 H=0.80 L=3.01			B=0.15 H=0.80 L=0.73			B=0.15 H=0.80 L=2.56		
Mu=-0.00 As =3.98 As(r)=3.76		Mu=-14.34 As =6.42 As(r)=5.11	Mu=-11.90 As =6.42 As(r)=4.38		Mu=-18.39 As =6.42 As(r)=6.59	Mu=-16.44 As =6.42 As(r)=5.88		Mu=-6.64 As =3.98 As(r)=3.76
Mu=1.22 As =3.98 As(r)=3.76	Mu=0.00 As =3.98 As(r)=3.76	Mu=2.87 As =3.98 As(r)=3.76	Mu=3.97 As =3.98 As(r)=3.76	Mu=3.68 As =3.98 As(r)=3.76	Mu=6.13 As =3.98 As(r)=3.76	Mu=5.48 As =3.98 As(r)=3.76	Mu=3.29 As =3.98 As(r)=3.76	Mu=3.29 As =3.98 As(r)=3.76
Vu=-1.00		Vu=9.24	Vu=3.44		Vu=6.89	Vu=-7.72		Vu=1.60

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VT1136/NE+42.35

B=0.15 H=0.80 L=2.90			B=0.15 H=0.80 L=1.31			B=0.15 H=0.80 L=1.66		
Mu=-0.00 As =3.98 As(r)=3.76		Mu=-10.21 As =3.98 As(r)=3.76	Mu=-6.34 As =3.98 As(r)=3.76		Mu=-19.72 As =7.75 As(r)=7.09	Mu=-11.68 As =7.75 As(r)=4.21		Mu=-19.97 As =7.75 As(r)=7.18
Mu=1.13 As =3.98 As(r)=3.76	Mu=0.00 As =3.98 As(r)=3.76	Mu=2.04 As =3.98 As(r)=3.76	Mu=3.94 As =3.98 As(r)=3.76	Mu=3.94 As =3.98 As(r)=3.76	Mu=6.57 As =3.98 As(r)=3.76	Mu=3.99 As =3.98 As(r)=3.76	Mu=3.99 As =3.98 As(r)=3.76	Mu=6.66 As =3.98 As(r)=3.76
Vu=-1.98		Vu=7.90	Vu=4.27		Vu=9.57	Vu=1.02		Vu=6.97

VT1137/NE+42.35

B=0.15 H=0.80 L=2.77			B=0.15 H=0.80 L=2.00		
Mu=-0.00 As =4.83 As(r)=3.76		Mu=-9.28 As =4.83 As(r)=3.76	Mu=-5.51 As =4.83 As(r)=3.76		Mu=-23.37 As =8.60 As(r)=8.45
Mu=1.22 As =4.83 As(r)=3.76	Mu=0.00 As =4.83 As(r)=3.76	Mu=1.86 As =4.83 As(r)=3.76	Mu=4.67 As =4.83 As(r)=3.76	Mu=4.67 As =4.83 As(r)=3.76	Mu=7.79 As =4.83 As(r)=3.76
Vu=-1.91		Vu=7.60	Vu=3.28		Vu=10.43

VT1139/NE+42.35

B=0.15 H=0.80 L=2.59			B=0.15 H=0.80 L=1.57		
Mu=-0.59 As =5.68 As(r)=3.76		Mu=-10.68 As =5.68 As(r)=3.76	Mu=-6.04 As =5.68 As(r)=3.76		Mu=-30.21 As =11.36 As(r)=11.06
Mu=0.52 As =5.68 As(r)=3.76	Mu=0.00 As =5.68 As(r)=3.76	Mu=2.14 As =5.68 As(r)=3.76	Mu=6.04 As =5.68 As(r)=3.76	Mu=6.04 As =5.68 As(r)=3.76	Mu=10.07 As =5.68 As(r)=3.76
Vu=-1.27		Vu=7.85	Vu=10.26		Vu=15.90

VT1140/NE+42.35

B=0.15 H=0.80 L=2.38			B=0.15 H=0.80 L=0.46		
Mu=-2.94 As =5.68 As(r)=3.76		Mu=-17.66 As =8.12 As(r)=6.32	Mu=-15.63 As =8.12 As(r)=5.78		Mu=-22.06 As =8.12 As(r)=7.96
Mu=0.00 As =3.98 As(r)=3.76	Mu=0.00 As =3.98 As(r)=3.76	Mu=3.53 As =3.98 As(r)=3.76	Mu=5.21 As =3.98 As(r)=3.76	Mu=4.41 As =3.98 As(r)=3.76	Mu=7.35 As =3.98 As(r)=3.76
Vu=1.36		Vu=8.99	Vu=5.90		Vu=8.37

VT1141/NE+42.35

B=0.15 H=0.50 L=5.29			B=0.15 H=0.80 L=3.63		
Mu=-6.38 As =3.98 As(r)=3.77		Mu=-9.70 As =5.68 As(r)=5.83	Mu=-14.06 As =5.68 As(r)=5.00		Mu=-2.81 As =5.68 As(r)=3.76
Mu=2.13 As =2.58 As(r)=2.28	Mu=4.11 As =2.58 As(r)=2.41	Mu=3.23 As =2.58 As(r)=2.28	Mu=4.69 As =6.56 As(r)=3.76	Mu=2.81 As =2.58 As(r)=3.76	Mu=2.81 As =3.98 As(r)=3.76
Vu=-7.42		Vu=8.51	Vu=-8.98		Vu=3.19

VT1143/NE+42.35

B=0.15 H=0.50 L=5.10			B=0.15 H=0.80 L=3.81		
Mu=-5.60 As =3.98 As(r)=3.30		Mu=-10.61 As =6.42 As(r)=6.40	Mu=-14.11 As =6.42 As(r)=5.02		Mu=-3.61 As =3.98 As(r)=3.76
Mu=2.12 As =2.58 As(r)=2.28	Mu=3.56 As =2.58 As(r)=2.28	Mu=3.54 As =2.58 As(r)=2.28	Mu=4.70 As =6.56 As(r)=3.76	Mu=2.82 As =2.58 As(r)=3.76	Mu=2.82 As =3.98 As(r)=3.76
Vu=-6.97		Vu=8.65	Vu=-8.64		Vu=3.69

MEMORIAS VIGUETAS PISO 10 NE+42.35m

VT1144/NE+42.35

B=0.15 H=0.50 L=4.93			B=0.15 H=0.80 L=3.98		
Mu=-2.67 As =2.58 As(r)=2.28		Mu=-13.36 As =8.12 As(r)=8.17	Mu=-22.82 As =8.12 As(r)=8.24		Mu=-0.97 As =5.68 As(r)=3.76
Mu=2.67 As =2.58 As(r)=2.28	Mu=3.77 As =2.58 As(r)=2.28	Mu=4.45 As =2.58 As(r)=2.61	Mu=4.56 As =6.56 As(r)=3.76	Mu=0.00 As =2.58 As(r)=3.76	Mu=0.00 As =3.98 As(r)=3.76
Vu=-5.81		Vu=9.48	Vu=-11.36		Vu=1.34

VT1145/NE+42.35

B=0.15 H=0.50 L=4.79			B=0.15 H=0.80 L=4.13		
Mu=-0.98 As =3.98 As(r)=2.28		Mu=-14.43 As =13.12 As(r)=8.87	Mu=-33.42 As =13.12 As(r)=12.30		Mu=-0.00 As =5.68 As(r)=3.76
Mu=0.00 As =2.58 As(r)=2.28	Mu=3.02 As =2.58 As(r)=2.28	Mu=2.89 As =2.58 As(r)=2.28	Mu=6.68 As =6.56 As(r)=3.76	Mu=0.00 As =2.58 As(r)=3.76	Mu=0.29 As =3.98 As(r)=3.76
Vu=-5.14		Vu=9.83	Vu=-14.04		Vu=-2.01

VT1146/NE+42.35

B=0.15 H=0.50 L=4.79			B=0.15 H=0.50 L=4.17		
Mu=-2.75 As =2.58 As(r)=2.28		Mu=-13.75 As =9.31 As(r)=8.43	Mu=-14.61 As =9.31 As(r)=8.99		Mu=-0.63 As =2.58 As(r)=2.28
Mu=2.75 As =2.58 As(r)=2.28	Mu=3.83 As =2.58 As(r)=2.28	Mu=4.58 As =2.58 As(r)=2.69	Mu=2.92 As =2.58 As(r)=2.28	Mu=1.21 As =2.58 As(r)=2.28	Mu=0.00 As =2.58 As(r)=2.28
Vu=-5.14		Vu=9.63	Vu=-9.41		Vu=3.29

VT1147/NE+42.35

B=0.15 H=0.80 L=4.13		
Mu=-15.28 As =5.68 As(r)=5.45		Mu=-4.17 As =5.68 As(r)=3.76
Mu=5.09 As =3.98 As(r)=3.76	Mu=3.06 As =3.98 As(r)=3.76	Mu=3.06 As =3.98 As(r)=3.76
Vu=-8.69		Vu=3.29

VT1148/NE+42.35

B=0.20 H=0.70 L=4.78			B=0.20 H=0.70 L=1.73		
Mu=-6.99 As =4.83 As(r)=4.36		Mu=-7.86 As =4.83 As(r)=4.36	Mu=-9.15 As =4.83 As(r)=4.36		Mu=-0.00 As =4.83 As(r)=4.36
Mu=2.33 As =4.83 As(r)=4.36	Mu=5.46 As =4.83 As(r)=4.36	Mu=2.62 As =4.83 As(r)=4.36	Mu=1.83 As =4.83 As(r)=4.36	Mu=1.92 As =4.83 As(r)=4.36	Mu=1.00 As =4.83 As(r)=4.36
Vu=-8.26		Vu=8.55	Vu=-8.39		Vu=3.50

VT1150/NE+42.35

B=0.15 H=0.50 L=3.02		
Mu=-6.60 As =4.83 As(r)=3.91		Mu=-8.26 As =4.83 As(r)=4.93
Mu=2.20 As =3.28 As(r)=2.28	Mu=4.91 As =3.28 As(r)=2.88	Mu=2.75 As =3.28 As(r)=2.28
Vu=-7.76		Vu=8.30

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VT1151/NE+42.35

B=0.20 H=0.80 L=5.03			B=0.20 H=0.80 L=1.82		
Mu=-3.76 As =5.68 As(r)=5.02		Mu=-18.79 As =6.97 As(r)=6.69	Mu=-12.77 As =6.86 As(r)=5.02		Mu=-5.73 As =5.68 As(r)=5.02
Mu=3.76 As =5.68 As(r)=5.02	Mu=7.24 As =5.68 As(r)=5.02	Mu=6.26 As =5.68 As(r)=5.02	Mu=4.26 As =5.68 As(r)=5.02	Mu=2.55 As =5.68 As(r)=5.02	Mu=2.55 As =5.68 As(r)=5.02
Vu=-7.25		Vu=13.02	Vu=-5.67		Vu=2.75

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VT1200/NE+46.55

B=0.20 H=0.80 L=6.95			B=0.20 H=0.80 L=13.30			B=0.20 H=0.80 L=3.33		
Mu=-0.37 As =5.68 As(r)=5.02		Mu=-44.10 As =19.86 As(r)=16.22	Mu=-49.96 As =19.86 As(r)=18.53		Mu=-19.32 As =6.97 As(r)=6.88	Mu=-17.28 As =6.97 As(r)=6.14		Mu=-4.88 As =5.68 As(r)=5.02
Mu=0.00 As =5.68 As(r)=5.02	Mu=0.00 As =5.68 As(r)=5.02	Mu=8.82 As =5.68 As(r)=5.02	Mu=16.65 As =5.68 As(r)=5.91	Mu=15.91 As =5.68 As(r)=5.64	Mu=9.99 As =5.68 As(r)=5.02	Mu=3.46 As =5.68 As(r)=5.02	Mu=0.00 As =5.68 As(r)=5.02	Mu=0.00 As =5.68 As(r)=5.02
Vu=2.30		Vu=9.69	Vu=-12.86		Vu=10.10	Vu=-5.62		Vu=-2.35

VT1201/NE+46.55

B=0.20 H=0.80 L=4.37		
Mu=-0.71 As =5.68 As(r)=5.02		Mu=-1.26 As =5.68 As(r)=5.02
Mu=0.25 As =5.68 As(r)=5.02	Mu=0.25 As =5.68 As(r)=5.02	Mu=0.42 As =5.68 As(r)=5.02
Vu=-1.04		Vu=1.34

VT1208/NE+46.55

B=0.20 H=0.80 L=6.20			B=0.20 H=0.80 L=13.30			B=0.20 H=0.80 L=11.06		
Mu=-4.87 As =5.68 As(r)=5.02		Mu=-54.46 As =19.86 As(r)=20.33	Mu=-45.77 As =19.86 As(r)=16.88		Mu=-37.96 As =15.58 As(r)=13.85	Mu=-38.18 As =15.58 As(r)=13.93		Mu=-0.00 As =5.68 As(r)=5.02
Mu=0.00 As =5.68 As(r)=5.02	Mu=0.00 As =5.68 As(r)=5.02	Mu=10.89 As =5.68 As(r)=5.02	Mu=15.26 As =5.68 As(r)=5.41	Mu=16.20 As =5.68 As(r)=7.04	Mu=12.65 As =5.68 As(r)=5.02	Mu=7.64 As =5.68 As(r)=5.02	Mu=3.47 As =5.68 As(r)=5.02	Mu=7.61 As =5.68 As(r)=5.02
Vu=5.17		Vu=12.53	Vu=-14.90		Vu=17.75	Vu=-13.23		Vu=2.33

VT1209/NE+46.55

B=0.20 H=0.80 L=13.30			B=0.20 H=0.80 L=13.30			B=0.20 H=0.80 L=13.30		
Mu=-32.15 As =13.12 As(r)=11.64		Mu=-38.67 As =15.07 As(r)=14.12	Mu=-41.07 As =15.07 As(r)=15.05		Mu=-56.03 As =21.76 As(r)=20.96	Mu=-40.07 As =21.76 As(r)=14.66		Mu=-15.86 As =5.68 As(r)=5.63
Mu=10.72 As =5.68 As(r)=5.51	Mu=25.56 As =10.32 As(r)=9.18	Mu=12.89 As =5.68 As(r)=5.51	Mu=13.69 As =5.68 As(r)=5.02	Mu=29.60 As =10.32 As(r)=10.85	Mu=18.68 As =7.74 As(r)=6.65	Mu=13.36 As =7.74 As(r)=5.02	Mu=12.94 As =10.32 As(r)=5.02	Mu=8.01 As =5.68 As(r)=5.02
Vu=-15.77		Vu=14.66	Vu=-14.82		Vu=23.74	Vu=-14.22		Vu=7.21

B=0.20 H=0.80 L=3.35			B=0.20 H=0.80 L=0.40		
Mu=-12.91 As =5.68 As(r)=5.02		Mu=-3.13 As =5.68 As(r)=5.02	Mu=-12.91 As =5.68 As(r)=5.02		Mu=-3.13 As =5.68 As(r)=5.02
Mu=4.30 As =5.68 As(r)=5.02	Mu=2.58 As =10.32 As(r)=5.02	Mu=2.58 As =5.68 As(r)=5.02	Mu=2.58 As =5.68 As(r)=5.02	Mu=0.00 As =8.19 As(r)=5.02	Mu=0.00 As =5.68 As(r)=5.02
Vu=-6.53		Vu=1.07	Vu=-6.53		Vu=1.07

VT1216/NE+46.55

B=0.20 H=0.80 L=2.15			B=0.20 H=0.80 L=4.87			B=0.20 H=0.80 L=1.77		
Mu=-0.20 As =5.68 As(r)=5.02		Mu=-5.60 As =5.68 As(r)=5.02	Mu=-5.46 As =5.68 As(r)=5.02		Mu=-13.00 As =5.68 As(r)=5.02	Mu=-3.23 As =5.68 As(r)=5.02		Mu=-0.55 As =5.68 As(r)=5.02
Mu=0.06 As =5.68 As(r)=5.02	Mu=0.00 As =5.68 As(r)=5.02	Mu=1.12 As =5.68 As(r)=5.02	Mu=2.60 As =5.68 As(r)=5.02	Mu=2.98 As =5.68 As(r)=5.02	Mu=4.33 As =5.68 As(r)=5.02	Mu=0.65 As =5.68 As(r)=5.02	Mu=0.00 As =5.68 As(r)=5.02	Mu=0.00 As =5.68 As(r)=5.02
Vu=0.67		Vu=3.01	Vu=-6.36		Vu=8.76	Vu=-3.63		Vu=-0.87

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VT1217/NE+46.55

B=0.20 H=0.80 L=4.42		
Mu=-5.03 As =5.68 As(r)=5.02		Mu=-2.01 As =5.68 As(r)=5.02
Mu=1.68 As =5.68 As(r)=5.02	Mu=1.01 As =5.68 As(r)=5.02	Mu=1.01 As =5.68 As(r)=5.02
Vu=-4.42		Vu=2.11

VT1218/NE+46.55

B=0.15 H=0.50 L=3.39		
Mu=-8.58 As =5.68 As(r)=5.13		Mu=-10.95 As =7.74 As(r)=6.62
Mu=2.86 As =2.58 As(r)=2.28	Mu=4.28 As =2.58 As(r)=2.51	Mu=3.65 As =2.58 As(r)=2.28
Vu=-8.69		Vu=9.46

VT1219/NE+46.55

B=0.20 H=0.70 L=2.10			B=0.20 H=0.70 L=4.75			B=0.20 H=0.70 L=4.13		
Mu=-0.28 As =5.68 As(r)=4.36		Mu=-10.20 As =5.68 As(r)=4.36	Mu=-8.63 As =5.68 As(r)=4.36		Mu=-15.30 As =8.10 As(r)=6.28	Mu=-14.65 As =8.10 As(r)=6.01		Mu=-0.22 As =5.68 As(r)=4.36
Mu=0.00 As =5.68 As(r)=4.36	Mu=0.00 As =5.68 As(r)=4.36	Mu=2.04 As =5.68 As(r)=4.36	Mu=3.06 As =5.68 As(r)=4.36	Mu=3.06 As =5.68 As(r)=4.36	Mu=5.10 As =5.68 As(r)=4.36	Mu=2.93 As =5.68 As(r)=4.36	Mu=1.16 As =5.68 As(r)=4.36	Mu=0.00 As =5.68 As(r)=4.36
Vu=-1.38		Vu=7.92	Vu=-8.36		Vu=10.52	Vu=-10.32		Vu=3.13

VT1220/NE+46.55

B=0.15 H=0.50 L=2.10			B=0.15 H=0.50 L=4.75			B=0.15 H=0.80 L=4.13		
Mu=-0.29 As =5.68 As(r)=2.28		Mu=-14.79 As =9.31 As(r)=9.11	Mu=-15.05 As =9.31 As(r)=9.29		Mu=-18.72 As =13.12 As(r)=11.78	Mu=-16.32 As =13.12 As(r)=5.83		Mu=-0.30 As =3.98 As(r)=3.76
Mu=0.00 As =3.98 As(r)=2.28	Mu=0.00 As =3.98 As(r)=2.28	Mu=2.96 As =3.98 As(r)=2.28	Mu=5.02 As =3.98 As(r)=2.95	Mu=4.40 As =3.98 As(r)=2.58	Mu=6.24 As =3.98 As(r)=3.69	Mu=3.26 As =7.96 As(r)=3.76	Mu=1.01 As =3.98 As(r)=3.76	Mu=0.00 As =3.98 As(r)=3.76
Vu=0.74		Vu=9.42	Vu=-13.34		Vu=14.54	Vu=-10.79		Vu=3.03

VT1221/NE+46.55

B=0.15 H=0.50 L=4.75			B=0.15 H=0.80 L=4.13		
Mu=-15.05 As =9.31 As(r)=9.29		Mu=-18.72 As =13.12 As(r)=11.78	Mu=-16.32 As =13.12 As(r)=5.83		Mu=-0.30 As =3.98 As(r)=3.76
Mu=5.02 As =3.98 As(r)=2.95	Mu=4.40 As =3.98 As(r)=2.58	Mu=6.24 As =3.98 As(r)=3.69	Mu=3.26 As =7.96 As(r)=3.76	Mu=1.01 As =3.98 As(r)=3.76	Mu=0.00 As =3.98 As(r)=3.76
Vu=-13.34		Vu=14.54	Vu=-10.79		Vu=3.03

VT1222/NE+46.55

B=0.15 H=0.50 L=2.10			B=0.15 H=0.50 L=4.75			B=0.15 H=0.80 L=4.13		
Mu=-0.85 As =3.98 As(r)=2.28		Mu=-3.58 As =3.98 As(r)=2.28	Mu=-3.32 As =3.98 As(r)=2.28		Mu=-16.62 As =11.51 As(r)=10.34	Mu=-30.60 As =11.51 As(r)=11.21		Mu=-0.26 As =3.98 As(r)=3.76
Mu=0.00 As =3.98 As(r)=2.28	Mu=1.20 As =3.98 As(r)=2.28	Mu=0.72 As =3.98 As(r)=2.28	Mu=3.32 As =3.98 As(r)=2.28	Mu=3.32 As =3.98 As(r)=2.28	Mu=5.54 As =3.98 As(r)=3.26	Mu=6.12 As =7.96 As(r)=3.76	Mu=0.00 As =3.98 As(r)=3.76	Mu=0.00 As =3.98 As(r)=3.76
Vu=-3.58		Vu=5.37	Vu=-5.68		Vu=10.77	Vu=-14.31		Vu=1.22

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VT1223/NE+46.55

B=0.15 H=0.50 L=2.10			B=0.15 H=0.50 L=4.90			B=0.15 H=0.80 L=3.97		
Mu=-0.36 As =3.98 As(r)=2.28		Mu=-7.49 As =6.34 As(r)=4.45	Mu=-10.13 As =6.34 As(r)=6.10		Mu=-9.49 As =6.42 As(r)=5.69	Mu=-15.26 As =6.42 As(r)=5.44		Mu=-3.81 As =3.98 As(r)=3.76
Mu=0.00 As =2.58 As(r)=2.28	Mu=0.37 As =2.58 As(r)=2.28	Mu=1.50 As =2.58 As(r)=2.28	Mu=3.38 As =2.58 As(r)=2.28	Mu=3.85 As =2.58 As(r)=2.28	Mu=3.16 As =2.58 As(r)=2.28	Mu=5.09 As =6.56 As(r)=3.76	Mu=3.05 As =2.58 As(r)=3.76	Mu=3.05 As =3.98 As(r)=3.76
Vu=-2.13		Vu=6.81	Vu=-9.06		Vu=8.85	Vu=-9.70		Vu=4.16

VT1224/NE+46.55

B=0.15 H=0.50 L=2.10			B=0.15 H=0.50 L=4.99			B=0.15 H=0.80 L=3.89		
Mu=-0.55 As =2.58 As(r)=2.28		Mu=-4.58 As =2.58 As(r)=2.69	Mu=-4.73 As =2.58 As(r)=2.78		Mu=-14.50 As =9.45 As(r)=8.92	Mu=-24.52 As =9.45 As(r)=8.88		Mu=-1.04 As =5.68 As(r)=3.76
Mu=0.00 As =2.58 As(r)=2.28	Mu=0.92 As =2.58 As(r)=2.28	Mu=0.92 As =2.58 As(r)=2.28	Mu=2.90 As =2.58 As(r)=2.28	Mu=2.90 As =2.58 As(r)=2.28	Mu=4.83 As =2.58 As(r)=2.84	Mu=4.90 As =6.56 As(r)=3.76	Mu=0.00 As =2.58 As(r)=3.76	Mu=0.00 As =3.98 As(r)=3.76
Vu=-3.16		Vu=5.80	Vu=-6.70		Vu=10.11	Vu=-12.76		Vu=2.36

VT1225/NE+46.55

B=0.15 H=0.50 L=2.10			B=0.15 H=0.50 L=5.11			B=0.15 H=0.80 L=3.77		
Mu=-0.06 As =3.98 As(r)=2.28		Mu=-6.55 As =6.34 As(r)=3.88	Mu=-7.92 As =6.34 As(r)=4.72		Mu=-11.30 As =8.12 As(r)=6.84	Mu=-17.68 As =8.12 As(r)=6.33		Mu=-3.54 As =5.68 As(r)=3.76
Mu=0.84 As =2.58 As(r)=2.28	Mu=0.11 As =2.58 As(r)=2.28	Mu=1.31 As =2.58 As(r)=2.28	Mu=3.21 As =2.58 As(r)=2.28	Mu=3.21 As =2.58 As(r)=2.28	Mu=3.77 As =2.58 As(r)=2.28	Mu=5.89 As =6.56 As(r)=3.76	Mu=3.54 As =2.58 As(r)=3.76	Mu=3.54 As =3.98 As(r)=3.76
Vu=-2.35		Vu=6.60	Vu=-8.10		Vu=9.24	Vu=-10.61		Vu=3.90

VT1226/NE+46.55

B=0.15 H=0.50 L=2.10			B=0.15 H=0.50 L=5.25			B=0.15 H=0.80 L=3.63		
Mu=-0.00 As =3.98 As(r)=2.28		Mu=-6.74 As =6.34 As(r)=3.99	Mu=-9.17 As =6.34 As(r)=5.49		Mu=-9.59 As =6.42 As(r)=5.76	Mu=-12.44 As =6.42 As(r)=4.42		Mu=-3.01 As =3.98 As(r)=3.76
Mu=1.02 As =2.58 As(r)=2.28	Mu=1.35 As =2.58 As(r)=2.28	Mu=1.35 As =2.58 As(r)=2.28	Mu=3.06 As =2.58 As(r)=2.28	Mu=3.93 As =2.58 As(r)=2.30	Mu=3.20 As =2.58 As(r)=2.28	Mu=4.15 As =6.56 As(r)=3.76	Mu=2.49 As =2.58 As(r)=3.76	Mu=2.49 As =3.98 As(r)=3.76
Vu=-1.94		Vu=7.02	Vu=-8.76		Vu=8.90	Vu=-9.23		Vu=4.70

VT1227/NE+46.55

B=0.15 H=0.50 L=1.89			B=0.15 H=0.50 L=5.25			B=0.15 H=0.80 L=3.63		
Mu=-0.00 As =3.98 As(r)=2.28		Mu=-3.14 As =6.34 As(r)=2.28	Mu=-8.32 As =6.34 As(r)=4.97		Mu=-10.06 As =6.42 As(r)=6.05	Mu=-12.09 As =6.42 As(r)=4.29		Mu=-2.42 As =3.98 As(r)=3.76
Mu=1.51 As =2.58 As(r)=2.28	Mu=0.20 As =2.58 As(r)=2.28	Mu=0.63 As =2.58 As(r)=2.28	Mu=2.77 As =2.58 As(r)=2.28	Mu=3.79 As =2.58 As(r)=2.28	Mu=3.35 As =2.58 As(r)=2.28	Mu=4.03 As =6.56 As(r)=3.76	Mu=2.42 As =2.58 As(r)=3.76	Mu=2.42 As =3.98 As(r)=3.76
Vu=0.66		Vu=5.23	Vu=-8.43		Vu=9.02	Vu=-9.56		Vu=4.41

VT1228/NE+46.55

B=0.15 H=0.50 L=4.83			B=0.15 H=0.80 L=3.63		
Mu=-3.88 As =2.58 As(r)=2.28		Mu=-8.71 As =5.68 As(r)=5.21	Mu=-14.67 As =5.68 As(r)=5.23		Mu=-2.93 As =3.98 As(r)=3.76
Mu=1.74 As =2.58 As(r)=2.28	Mu=2.13 As =2.58 As(r)=2.28	Mu=2.90 As =2.58 As(r)=2.28	Mu=4.89 As =6.56 As(r)=3.76	Mu=2.93 As =2.58 As(r)=3.76	Mu=2.93 As =3.98 As(r)=3.76
Vu=-5.97		Vu=8.00	Vu=-10.12		Vu=3.88

MEMORIAS VIGUETAS PISO 11 NE+46.55m

VT1229/NE+46.55

B=0.20 H=0.80 L=2.48			B=0.20 H=0.80 L=6.02		
Mu=-4.86 As =5.68 As(r)=5.02		Mu=-0.97 As =5.68 As(r)=5.02	Mu=-3.35 As =5.68 As(r)=5.02		Mu=-16.77 As =5.68 As(r)=5.96
Mu=1.62 As =5.68 As(r)=5.02	Mu=0.97 As =5.68 As(r)=5.02	Mu=0.97 As =5.68 As(r)=5.02	Mu=7.26 As =5.68 As(r)=5.02	Mu=5.59 As =5.68 As(r)=5.02	Mu=5.59 As =5.68 As(r)=5.02
Vu=-2.28		Vu=-0.91	Vu=-2.54		Vu=7.60

VT1231/NE+46.55

B=0.20 H=0.80 L=5.85		
Mu=-0.17 As =5.68 As(r)=5.02		Mu=-21.09 As =8.12 As(r)=7.53
Mu=1.05 As =5.68 As(r)=5.02	Mu=4.33 As =5.68 As(r)=5.02	Mu=4.22 As =5.68 As(r)=5.02
Vu=-4.17		Vu=10.80

VT1232/NE+46.55

B=0.15 H=0.50 L=4.34		
Mu=-2.07 As =2.58 As(r)=2.28		Mu=-1.52 As =2.58 As(r)=2.28
Mu=0.69 As =2.58 As(r)=2.28	Mu=2.58 As =2.58 As(r)=2.28	Mu=0.52 As =2.58 As(r)=2.28
Vu=-4.93		Vu=4.63

VT1233/NE+46.55

B=0.15 H=0.50 L=5.30			B=0.15 H=0.80 L=1.38		
Mu=-7.12 As =4.83 As(r)=4.23		Mu=-8.20 As =4.83 As(r)=4.89	Mu=-5.39 As =4.83 As(r)=3.76		Mu=-1.28 As =4.83 As(r)=3.76
Mu=2.37 As =2.58 As(r)=2.28	Mu=4.49 As =2.58 As(r)=2.63	Mu=2.73 As =2.58 As(r)=2.28	Mu=1.08 As =6.34 As(r)=3.76	Mu=0.00 As =2.58 As(r)=3.76	Mu=0.00 As =3.98 As(r)=3.76
Vu=-7.79		Vu=8.14	Vu=-4.31		Vu=-2.27

VT1234/NE+46.55

B=0.15 H=0.50 L=5.30			B=0.15 H=0.80 L=3.63		
Mu=-5.83 As =3.98 As(r)=3.44		Mu=-10.01 As =5.68 As(r)=6.02	Mu=-13.08 As =5.68 As(r)=4.65		Mu=-0.54 As =3.98 As(r)=3.76
Mu=2.00 As =2.58 As(r)=2.28	Mu=4.23 As =2.58 As(r)=2.48	Mu=3.34 As =2.58 As(r)=2.28	Mu=2.62 As =6.56 As(r)=3.76	Mu=0.53 As =2.58 As(r)=3.76	Mu=0.00 As =3.98 As(r)=3.76
Vu=-7.28		Vu=8.65	Vu=-8.41		Vu=2.41

VT1235/NE+46.55

B=0.15 H=0.50 L=5.10			B=0.15 H=0.80 L=3.82		
Mu=-5.61 As =3.98 As(r)=3.31		Mu=-10.51 As =6.42 As(r)=6.34	Mu=-14.16 As =6.42 As(r)=5.04		Mu=-3.21 As =3.98 As(r)=3.76
Mu=2.10 As =2.58 As(r)=2.28	Mu=3.61 As =2.58 As(r)=2.28	Mu=3.50 As =2.58 As(r)=2.28	Mu=4.72 As =6.56 As(r)=3.76	Mu=2.83 As =2.58 As(r)=3.76	Mu=2.83 As =3.98 As(r)=3.76
Vu=-6.99		Vu=8.63	Vu=-8.07		Vu=2.91

MEMORIAS VIGUETAS PISO 11 NE+46.55m

VT1236/NE+46.55

B=0.15 H=0.50 L=4.93			B=0.15 H=0.80 L=3.99		
Mu=-2.64 As =2.58 As(r)=2.28		Mu=-13.21 As =8.12 As(r)=8.07	Mu=-23.08 As =8.12 As(r)=8.34		Mu=-0.81 As =3.98 As(r)=3.76
Mu=2.64 As =2.58 As(r)=2.28	Mu=3.85 As =2.58 As(r)=2.28	Mu=4.40 As =2.58 As(r)=2.58	Mu=4.62 As =6.56 As(r)=3.76	Mu=0.00 As =2.58 As(r)=3.76	Mu=0.00 As =3.98 As(r)=3.76
Vu=-5.84		Vu=9.46	Vu=-10.76		Vu=0.55

VT1237/NE+46.55

B=0.15 H=0.50 L=4.80			B=0.15 H=0.80 L=4.13		
Mu=-1.00 As =3.98 As(r)=2.28		Mu=-14.14 As =13.12 As(r)=8.68	Mu=-33.07 As =13.12 As(r)=12.17		Mu=-0.00 As =3.98 As(r)=3.76
Mu=0.00 As =2.58 As(r)=2.28	Mu=3.16 As =2.58 As(r)=2.34	Mu=2.83 As =2.58 As(r)=2.28	Mu=6.61 As =6.56 As(r)=3.76	Mu=0.00 As =2.58 As(r)=3.76	Mu=0.29 As =3.98 As(r)=3.76
Vu=-5.19		Vu=9.78	Vu=-13.25		Vu=-2.39

VT1238/NE+46.55

B=0.15 H=0.50 L=4.80		
Mu=-2.69 As =2.58 As(r)=2.28		Mu=-13.45 As =8.04 As(r)=8.23
Mu=2.69 As =3.28 As(r)=2.28	Mu=3.92 As =3.28 As(r)=2.29	Mu=4.48 As =3.28 As(r)=2.63
Vu=-5.20		Vu=9.57

VT1239/NE+46.55

B=0.15 H=0.50 L=4.80			B=0.15 H=0.80 L=4.13		
Mu=-2.55 As =3.98 As(r)=2.28		Mu=-12.04 As =13.12 As(r)=7.32	Mu=-34.36 As =13.12 As(r)=12.67		Mu=-0.18 As =7.74 As(r)=3.76
Mu=2.41 As =2.58 As(r)=2.28	Mu=3.61 As =2.58 As(r)=2.28	Mu=4.01 As =2.58 As(r)=2.35	Mu=6.87 As =6.56 As(r)=3.76	Mu=0.00 As =2.58 As(r)=3.76	Mu=0.00 As =3.98 As(r)=3.76
Vu=-5.70		Vu=9.06	Vu=-13.40		Vu=-2.35

VT1240/NE+46.55

B=0.15 H=0.80 L=4.13		
Mu=-27.12 As =11.06 As(r)=9.87		Mu=-4.04 As =5.68 As(r)=3.76
Mu=5.42 As =3.98 As(r)=3.76	Mu=0.00 As =3.98 As(r)=3.76	Mu=0.00 As =3.98 As(r)=3.76
Vu=-10.97		Vu=0.86

VT1241/NE+46.55

B=0.15 H=0.80 L=4.08		
Mu=-14.21 As =5.68 As(r)=5.06		Mu=-3.85 As =5.68 As(r)=3.76
Mu=4.74 As =3.98 As(r)=3.76	Mu=2.84 As =3.98 As(r)=3.76	Mu=2.84 As =3.98 As(r)=3.76
Vu=-7.85		Vu=2.82

MEMORIAS VIGUETAS PISO 11 NE+46.55m

VT1242/NE+46.55

B=0.20 H=0.70 L=4.85			B=0.20 H=0.70 L=1.68		
Mu=-6.98 As =4.83 As(r)=4.36		Mu=-7.72 As =4.83 As(r)=4.36	Mu=-8.56 As =4.83 As(r)=4.36		Mu=-0.00 As =4.83 As(r)=4.36
Mu=2.33 As =4.83 As(r)=4.36	Mu=5.54 As =4.83 As(r)=4.36	Mu=2.57 As =4.83 As(r)=4.36	Mu=1.71 As =4.83 As(r)=4.36	Mu=1.71 As =4.83 As(r)=4.36	Mu=1.05 As =4.83 As(r)=4.36
Vu=-8.28		Vu=8.53	Vu=-7.64		Vu=2.94

VT1244/NE+46.55

B=0.15 H=0.50 L=3.04		
Mu=-6.59 As =4.83 As(r)=3.90		Mu=-8.23 As =4.83 As(r)=4.91
Mu=2.20 As =3.28 As(r)=2.28	Mu=4.93 As =3.28 As(r)=2.90	Mu=2.74 As =3.28 As(r)=2.28
Vu=-7.76		Vu=8.30

VT1245/NE+46.55

B=0.20 H=0.80 L=5.10			B=0.20 H=0.80 L=1.77		
Mu=-3.72 As =5.68 As(r)=5.02		Mu=-18.59 As =8.12 As(r)=6.62	Mu=-12.64 As =8.12 As(r)=5.02		Mu=-5.77 As =5.68 As(r)=5.02
Mu=3.72 As =5.68 As(r)=5.02	Mu=7.36 As =5.68 As(r)=5.02	Mu=6.20 As =5.68 As(r)=5.02	Mu=4.21 As =5.68 As(r)=5.02	Mu=2.53 As =5.68 As(r)=5.02	Mu=2.53 As =5.68 As(r)=5.02
Vu=-7.28		Vu=13.00	Vu=-5.65		Vu=2.77

VT1246/NE+46.55

B=0.15 H=0.50 L=1.60			B=0.15 H=0.80 L=1.47		
Mu=-0.33 As =3.98 As(r)=2.28		Mu=-4.66 As =7.75 As(r)=2.73	Mu=-22.50 As =7.75 As(r)=8.12		Mu=-4.50 As =3.98 As(r)=3.76
Mu=0.00 As =2.58 As(r)=2.28	Mu=0.00 As =2.58 As(r)=2.28	Mu=0.93 As =2.58 As(r)=2.28	Mu=7.50 As =6.56 As(r)=3.76	Mu=4.50 As =2.58 As(r)=3.76	Mu=4.50 As =3.98 As(r)=3.76
Vu=-0.54		Vu=5.07	Vu=-11.33		Vu=2.71

MEMORIAS VIGUETAS PISO 11 NE+46.55m

VT1202/NE+46.55m

B=0.15 H=0.80 L=6.32		
Mu=-0.00 As =3.98 As(r)=3.76		Mu=-0.00 As =3.98 As(r)=3.76
Mu=0.39 As =3.98 As(r)=3.76	Mu=8.52 As =3.98 As(r)=3.76	Mu=0.39 As =3.98 As(r)=3.76
Vu=5.15		Vu=-5.15

VT1203/NE+46.55m

B=0.15 H=0.80 L=1.30			B=0.15 H=0.80 L=1.30		
Mu=-0.00 As =2.99 As(r)=3.76		Mu=-0.24 As =3.98 As(r)=3.76	Mu=-0.24 As =3.98 As(r)=3.76		Mu=-0.00 As =3.98 As(r)=3.76
Mu=0.06 As =2.99 As(r)=3.76	Mu=0.26 As =3.98 As(r)=3.76	Mu=0.05 As =3.98 As(r)=3.76	Mu=0.05 As =3.98 As(r)=3.76	Mu=0.26 As =3.98 As(r)=3.76	Mu=0.06 As =3.98 As(r)=3.76
Vu=0.83		Vu=-1.29	Vu=1.29		Vu=-0.83

VT1204/NE+46.55m

B=0.15 H=0.80 L=1.30			B=0.15 H=0.80 L=1.30		
Mu=-0.00 As =3.98 As(r)=3.76		Mu=-0.20 As =3.98 As(r)=3.76	Mu=-0.22 As =3.98 As(r)=3.76		Mu=-0.00 As =3.98 As(r)=3.76
Mu=0.14 As =3.98 As(r)=3.76	Mu=0.24 As =3.98 As(r)=3.76	Mu=0.04 As =3.98 As(r)=3.76	Mu=0.04 As =3.98 As(r)=3.76	Mu=0.19 As =3.98 As(r)=3.76	Mu=0.05 As =3.98 As(r)=3.76
Vu=0.58		Vu=-1.11	Vu=1.05		Vu=-0.64

VT1205/NE+46.55m

B=0.15 H=0.80 L=1.30			B=0.15 H=0.80 L=1.30		
Mu=-0.00 As =2.99 As(r)=3.76		Mu=-0.19 As =3.98 As(r)=3.76	Mu=-0.19 As =3.98 As(r)=3.76		Mu=-0.00 As =3.98 As(r)=3.76
Mu=0.05 As =2.99 As(r)=3.76	Mu=0.20 As =3.98 As(r)=3.76	Mu=0.04 As =3.98 As(r)=3.76	Mu=0.04 As =3.98 As(r)=3.76	Mu=0.20 As =3.98 As(r)=3.76	Mu=0.05 As =3.98 As(r)=3.76
Vu=0.66		Vu=-1.03	Vu=1.03		Vu=-0.66

VT1206/NE+46.55m

B=0.15 H=0.80 L=2.02			B=0.15 H=0.80 L=4.22		
Mu=-0.00 As =3.98 As(r)=3.76		Mu=-2.16 As =3.98 As(r)=3.76	Mu=-1.99 As =3.98 As(r)=3.76		Mu=-0.00 As =3.98 As(r)=3.76
Mu=0.04 As =3.98 As(r)=3.76	Mu=0.00 As =3.98 As(r)=3.76	Mu=0.43 As =3.98 As(r)=3.76	Mu=0.40 As =3.98 As(r)=3.76	Mu=1.98 As =3.98 As(r)=3.76	Mu=0.17 As =3.98 As(r)=3.76
Vu=0.23		Vu=-2.39	Vu=3.25		Vu=-2.23

MEMORIAS VIGUETAS PISO 11 NE+46.55m

VT1207/NE+46.55m

B=0.20 H=0.70 L=3.13		
Mu=-0.00 As =4.83 As(r)=4.36		Mu=-0.00 As =4.83 As(r)=4.36
Mu=0.58 As =4.83 As(r)=4.36	Mu=1.99 As =4.83 As(r)=4.36	Mu=0.21 As =4.83 As(r)=4.36
Vu=1.92		Vu=-2.15

VT1223/NE+46.55m

B=0.15 H=0.80 L=2.26		
Mu=-0.00 As =3.98 As(r)=3.76		Mu=-0.00 As =3.98 As(r)=3.76
Mu=0.18 As =3.98 As(r)=3.76	Mu=1.22 As =3.98 As(r)=3.76	Mu=0.18 As =3.98 As(r)=3.76
Vu=1.84		Vu=-1.84

VT1238/NE+46.55m

B=0.20 H=0.80 L=2.35		
Mu=-0.00 As =5.68 As(r)=5.02		Mu=-0.00 As =5.68 As(r)=5.02
Mu=0.15 As =5.68 As(r)=5.02	Mu=1.05 As =5.68 As(r)=5.02	Mu=0.15 As =5.68 As(r)=5.02
Vu=1.53		Vu=-1.53

MEMORIAS VIGUETAS PISO 12 NE+50.75m

VT1306/NE+50.75

B=0.20 H=0.80 L=0.32			B=0.20 H=0.80 L=13.30			B=0.20 H=0.80 L=13.30		
Mu=-8.49 As =10.32 As(r)=5.02		Mu=-6.58 As =10.32 As(r)=5.02	Mu=-26.89 As =10.32 As(r)=9.67		Mu=-44.06 As =17.53 As(r)=16.21	Mu=-43.97 As =17.53 As(r)=16.17		Mu=-38.14 As =15.07 As(r)=13.92
Mu=1.70 As =5.68 As(r)=5.02	Mu=1.70 As =4.26 As(r)=5.02	Mu=2.19 As =5.68 As(r)=5.02	Mu=8.96 As =5.68 As(r)=5.02	Mu=23.77 As =9.03 As(r)=8.51	Mu=14.69 As =5.68 As(r)=5.20	Mu=14.66 As =5.68 As(r)=5.19	Mu=23.30 As =9.03 As(r)=8.34	Mu=12.71 As =5.68 As(r)=5.02
Vu=-6.16		Vu=-6.01	Vu=-13.71		Vu=17.47	Vu=-17.30		Vu=16.36

B=0.20 H=0.80 L=13.30			B=0.20 H=0.80 L=3.30			B=0.20 H=0.80 L=0.39		
Mu=-30.44 As =15.07 As(r)=11.00		Mu=-15.27 As =5.68 As(r)=5.41	Mu=-12.73 As =5.68 As(r)=5.02		Mu=-4.73 As =5.68 As(r)=5.02	Mu=-12.73 As =5.68 As(r)=5.02		Mu=-4.73 As =5.68 As(r)=5.02
Mu=10.15 As =5.68 As(r)=5.02	Mu=9.00 As =9.03 As(r)=5.02	Mu=6.09 As =5.68 As(r)=5.02	Mu=4.24 As =5.68 As(r)=5.02	Mu=2.55 As =7.74 As(r)=5.02	Mu=2.55 As =5.68 As(r)=5.02	Mu=2.55 As =5.68 As(r)=5.02	Mu=0.00 As =12.85 As(r)=5.02	Mu=0.00 As =5.68 As(r)=5.02
Vu=-12.39		Vu=7.35	Vu=-6.51		Vu=-3.36	Vu=-6.51		Vu=-3.36

VT1307/NE+50.75

B=0.20 H=0.80 L=5.85			B=0.20 H=0.80 L=4.00		
Mu=-0.00 As =5.68 As(r)=5.02		Mu=-21.66 As =7.74 As(r)=7.74	Mu=-12.03 As =7.74 As(r)=5.02		Mu=-15.92 As =7.74 As(r)=5.65
Mu=4.18 As =5.68 As(r)=5.02	Mu=2.88 As =5.68 As(r)=5.02	Mu=4.33 As =5.68 As(r)=5.02	Mu=4.01 As =5.68 As(r)=5.02	Mu=3.93 As =5.68 As(r)=5.02	Mu=5.31 As =5.68 As(r)=5.02
Vu=-3.99		Vu=10.72	Vu=-1.37		Vu=2.42

VT1308/NE+50.75

B=0.15 H=0.50 L=4.19		
Mu=-1.40 As =2.58 As(r)=2.28		Mu=-1.23 As =2.58 As(r)=2.28
Mu=0.47 As =2.58 As(r)=2.28	Mu=1.99 As =2.58 As(r)=2.28	Mu=0.41 As =2.58 As(r)=2.28
Vu=-3.65		Vu=3.56

VT1309/NE+50.75

B=0.15 H=0.50 L=5.30			B=0.15 H=0.80 L=1.39		
Mu=-5.15 As =3.98 As(r)=3.03		Mu=-6.70 As =3.98 As(r)=3.97	Mu=-7.80 As =3.98 As(r)=3.76		Mu=-4.56 As =3.98 As(r)=3.76
Mu=1.72 As =2.58 As(r)=2.28	Mu=3.25 As =2.58 As(r)=2.28	Mu=2.23 As =2.58 As(r)=2.28	Mu=1.56 As =6.56 As(r)=3.76	Mu=0.00 As =2.58 As(r)=3.76	Mu=0.00 As =3.98 As(r)=3.76
Vu=-5.76		Vu=6.27	Vu=-3.21		Vu=-2.22

VT1310/NE+50.75

B=0.15 H=0.50 L=5.30			B=0.40 H=0.80 L=5.55		
Mu=-4.54 As =2.58 As(r)=2.66		Mu=-8.18 As =5.68 As(r)=4.88	Mu=-15.70 As =11.36 As(r)=10.03		Mu=-3.14 As =0.00 As(r)=10.03
Mu=1.64 As =2.58 As(r)=2.28	Mu=2.81 As =2.58 As(r)=2.28	Mu=2.73 As =2.58 As(r)=2.28	Mu=5.23 As =13.04 As(r)=10.03	Mu=3.14 As =2.58 As(r)=10.03	Mu=3.14 As =0.00 As(r)=10.03
Vu=-5.42		Vu=6.61	Vu=-7.80		Vu=1.69

MEMORIAS VIGUETAS PISO 12 NE+50.75m

VT1311/NE+50.75

B=0.15 H=0.50 L=5.30			B=0.15 H=0.80 L=3.63		
Mu=-4.29 As =2.58 As(r)=2.51		Mu=-8.27 As =6.42 As(r)=4.93	Mu=-13.74 As =6.42 As(r)=4.89		Mu=-0.63 As =3.98 As(r)=3.76
Mu=1.65 As =2.58 As(r)=2.28	Mu=2.89 As =2.58 As(r)=2.28	Mu=2.76 As =2.58 As(r)=2.28	Mu=2.75 As =6.56 As(r)=3.76	Mu=0.00 As =2.58 As(r)=3.76	Mu=0.00 As =3.98 As(r)=3.76
Vu=-5.36		Vu=6.67	Vu=-7.88		Vu=1.60

VT1312/NE+50.75

B=0.15 H=0.50 L=5.11			B=0.15 H=0.80 L=3.82		
Mu=-4.12 As =2.58 As(r)=2.41		Mu=-8.36 As =6.42 As(r)=4.99	Mu=-12.80 As =6.42 As(r)=4.55		Mu=-2.61 As =3.98 As(r)=3.76
Mu=1.67 As =2.58 As(r)=2.28	Mu=2.60 As =2.58 As(r)=2.28	Mu=2.79 As =2.58 As(r)=2.28	Mu=4.27 As =6.56 As(r)=3.76	Mu=2.56 As =2.58 As(r)=3.76	Mu=2.56 As =3.98 As(r)=3.76
Vu=-5.18		Vu=6.60	Vu=-7.22		Vu=2.41

VT1313/NE+50.75

B=0.15 H=0.50 L=4.93			B=0.15 H=0.80 L=3.99		
Mu=-2.13 As =2.58 As(r)=2.28		Mu=-10.65 As =8.12 As(r)=6.43	Mu=-20.61 As =8.12 As(r)=7.42		Mu=-0.61 As =3.98 As(r)=3.76
Mu=2.13 As =2.58 As(r)=2.28	Mu=2.78 As =2.58 As(r)=2.28	Mu=3.55 As =2.58 As(r)=2.28	Mu=4.12 As =6.56 As(r)=3.76	Mu=0.00 As =2.58 As(r)=3.76	Mu=0.00 As =3.98 As(r)=3.76
Vu=-4.25		Vu=7.30	Vu=-9.54		Vu=0.37

VT1314/NE+50.75

B=0.15 H=0.50 L=4.80			B=0.15 H=0.80 L=4.13		
Mu=-0.58 As =2.58 As(r)=2.28		Mu=-11.28 As =11.06 As(r)=6.83	Mu=-28.43 As =11.06 As(r)=10.37		Mu=-0.28 As =5.68 As(r)=3.76
Mu=0.00 As =2.58 As(r)=2.28	Mu=2.26 As =2.58 As(r)=2.28	Mu=2.26 As =2.58 As(r)=2.28	Mu=5.69 As =6.56 As(r)=3.76	Mu=0.00 As =2.58 As(r)=3.76	Mu=0.00 As =3.98 As(r)=3.76
Vu=-3.78		Vu=7.52	Vu=-11.37		Vu=-1.77

VT1315/NE+50.75

B=0.15 H=0.50 L=4.80			B=0.15 H=0.80 L=4.13		
Mu=-0.58 As =2.58 As(r)=2.28		Mu=-10.97 As =11.06 As(r)=6.63	Mu=-30.22 As =11.06 As(r)=11.06		Mu=-0.59 As =5.68 As(r)=3.76
Mu=0.00 As =2.58 As(r)=2.28	Mu=2.19 As =2.58 As(r)=2.28	Mu=2.19 As =2.58 As(r)=2.28	Mu=6.04 As =6.56 As(r)=3.76	Mu=0.00 As =2.58 As(r)=3.76	Mu=0.00 As =3.98 As(r)=3.76
Vu=-3.73		Vu=7.41	Vu=-11.67		Vu=-1.93

VT1316/NE+50.75

B=0.15 H=0.80 L=4.13		
Mu=-12.61 As =4.83 As(r)=4.48		Mu=-3.51 As =4.83 As(r)=3.76
Mu=4.20 As =3.98 As(r)=3.76	Mu=2.52 As =3.98 As(r)=3.76	Mu=2.52 As =3.98 As(r)=3.76
Vu=-6.88		Vu=2.46

MEMORIAS VIGUETAS PISO 12 NE+50.75m

VT1317/NE+50.75

B=0.20 H=0.70 L=4.80			B=0.20 H=0.70 L=1.73		
Mu=-5.52 As =4.83 As(r)=4.36		Mu=-6.02 As =4.83 As(r)=4.36	Mu=-7.56 As =4.83 As(r)=4.36		Mu=-0.00 As =4.83 As(r)=4.36
Mu=1.84 As =4.83 As(r)=4.36	Mu=4.11 As =4.83 As(r)=4.36	Mu=2.01 As =4.83 As(r)=4.36	Mu=1.51 As =4.83 As(r)=4.36	Mu=1.51 As =4.83 As(r)=4.36	Mu=0.98 As =4.83 As(r)=4.36
Vu=-6.36		Vu=6.53	Vu=-6.69		Vu=2.59

VT1319/NE+50.75

B=0.15 H=0.50 L=3.04		
Mu=-5.52 As =3.98 As(r)=3.25		Mu=-6.02 As =3.98 As(r)=3.55
Mu=1.84 As =2.58 As(r)=2.28	Mu=4.11 As =2.58 As(r)=2.41	Mu=2.01 As =2.58 As(r)=2.28
Vu=-6.36		Vu=6.53

VT1320/NE+50.75

B=0.20 H=0.80 L=5.04			B=0.20 H=0.80 L=1.84		
Mu=-3.44 As =5.68 As(r)=5.02		Mu=-17.18 As =5.68 As(r)=6.10	Mu=-11.47 As =5.68 As(r)=5.02		Mu=-5.13 As =5.68 As(r)=5.02
Mu=3.44 As =5.68 As(r)=5.02	Mu=6.00 As =5.68 As(r)=5.02	Mu=5.73 As =5.97 As(r)=5.02	Mu=3.82 As =5.97 As(r)=5.02	Mu=2.29 As =5.68 As(r)=5.02	Mu=2.29 As =5.97 As(r)=5.02
Vu=-6.44		Vu=11.36	Vu=-5.67		Vu=2.75

MEMORIAS VIGUETAS PISO 12 NE+50.75m

VT1300/NE+50.75m

B=0.15 H=0.80 L=1.30			B=0.15 H=0.80 L=1.30		
Mu=-0.00 As =2.99 As(r)=3.76		Mu=-0.16 As =3.98 As(r)=3.76	Mu=-0.16 As =3.98 As(r)=3.76		Mu=-0.00 As =3.98 As(r)=3.76
Mu=0.04 As =2.99 As(r)=3.76	Mu=0.17 As =3.98 As(r)=3.76	Mu=0.03 As =3.98 As(r)=3.76	Mu=0.03 As =3.98 As(r)=3.76	Mu=0.17 As =3.98 As(r)=3.76	Mu=0.04 As =3.98 As(r)=3.76
Vu=0.55		Vu=-0.86	Vu=0.86		Vu=-0.55

VT1301/NE+50.75m

B=0.15 H=0.80 L=1.30			B=0.15 H=0.80 L=1.30		
Mu=-0.00 As =2.99 As(r)=3.76		Mu=-0.16 As =3.98 As(r)=3.76	Mu=-0.16 As =3.98 As(r)=3.76		Mu=-0.00 As =3.98 As(r)=3.76
Mu=0.04 As =2.99 As(r)=3.76	Mu=0.17 As =3.98 As(r)=3.76	Mu=0.03 As =3.98 As(r)=3.76	Mu=0.03 As =3.98 As(r)=3.76	Mu=0.17 As =3.98 As(r)=3.76	Mu=0.04 As =3.98 As(r)=3.76
Vu=0.55		Vu=-0.86	Vu=0.86		Vu=-0.55

VT1302/NE+50.75m

B=0.15 H=0.80 L=2.02			B=0.15 H=0.80 L=4.22		
Mu=-0.00 As =3.98 As(r)=3.76		Mu=-1.81 As =3.98 As(r)=3.76	Mu=-1.67 As =3.98 As(r)=3.76		Mu=-0.00 As =3.98 As(r)=3.76
Mu=0.03 As =3.98 As(r)=3.76	Mu=0.00 As =3.98 As(r)=3.76	Mu=0.36 As =3.98 As(r)=3.76	Mu=0.33 As =3.98 As(r)=3.76	Mu=1.66 As =3.98 As(r)=3.76	Mu=0.14 As =3.98 As(r)=3.76
Vu=0.20		Vu=-2.00	Vu=2.73		Vu=-1.87

VT1303/NE+50.75m

B=0.20 H=0.70 L=3.13		
Mu=-0.00 As =4.83 As(r)=4.36		Mu=-0.00 As =4.83 As(r)=4.36
Mu=0.43 As =4.83 As(r)=4.36	Mu=1.48 As =4.83 As(r)=4.36	Mu=0.16 As =4.83 As(r)=4.36
Vu=1.43		Vu=-1.60

VT1315/NE+50.75m

B=0.20 H=0.80 L=2.35		
Mu=-0.00 As =5.68 As(r)=5.02		Mu=-0.00 As =5.68 As(r)=5.02
Mu=0.11 As =5.68 As(r)=5.02	Mu=0.78 As =5.68 As(r)=5.02	Mu=0.11 As =5.68 As(r)=5.02
Vu=1.14		Vu=-1.14

MEMORIAS VIGUETAS PISO 13 NE+56.59m

VT1400/NE+56.45

B=0.20 H=0.80 L=5.57			B=0.20 H=0.80 L=13.30			B=0.20 H=0.80 L=13.30		
Mu=-0.23		Mu=-28.56	Mu=-29.82		Mu=-25.08	Mu=-27.82		Mu=-30.27
As=501.60		As=1029.29	As=1076.45		As=899.88	As=1001.68		As=1093.33
Mu=0.09	Mu=0.00	Mu=5.71	Mu=9.94	Mu=16.91	Mu=8.36	Mu=9.27	Mu=17.29	Mu=10.09
As=501.60	As=501.60	As=501.60	As=501.60	As=600.52	As=501.60	As=501.60	As=614.30	As=501.60
Vu=1.47		Vu=7.36	Vu=-9.21		Vu=9.05	Vu=-8.67		Vu=9.00

B=0.20 H=0.80 L=13.30			B=0.20 H=0.80 L=3.30			B=0.20 H=0.80 L=5.99		
Mu=-29.08		Mu=-23.41	Mu=-22.64		Mu=-24.56	Mu=-29.52		Mu=-0.53
As=1048.74		As=838.19	As=809.84		As=880.64	As=1065.21		As=501.60
Mu=9.69	Mu=16.20	Mu=7.80	Mu=7.55	Mu=4.91	Mu=8.19	Mu=5.90	Mu=0.00	Mu=0.16
As=501.60	As=581.03	As=501.60	As=501.60	As=501.60	As=501.60	As=501.60	As=501.60	As=501.60
Vu=-11.84		Vu=9.14	Vu=-6.53		Vu=7.03	Vu=-5.64		Vu=-2.87

VT1402/NE+55.15

B=0.20 H=0.80 L=0.31			B=0.20 H=0.80 L=13.30			B=0.20 H=0.80 L=13.30		
Mu=-5.23		Mu=-5.64	Mu=-32.17		Mu=-48.24	Mu=-47.78		Mu=-42.26
As=501.60		As=501.60	As=1164.82		As=1784.87	As=1766.72		As=1550.82
Mu=0.00	Mu=0.00	Mu=1.13	Mu=10.72	Mu=26.88	Mu=16.08	Mu=15.93	Mu=24.81	Mu=14.09
As=501.60	As=501.60	As=501.60	As=503.89	As=966.52	As=570.53	As=564.98	As=889.81	As=664.62
Vu=1.84		Vu=2.15	Vu=-16.62		Vu=19.63	Vu=-19.34		Vu=18.38

B=0.20 H=0.80 L=13.30			B=0.20 H=0.80 L=3.30			B=0.20 H=0.80 L=0.50		
Mu=-34.55		Mu=-6.91	Mu=-4.13		Mu=-20.67	Mu=-11.99		Mu=-2.93
As=1254.90		As=501.60	As=501.60		As=737.55	As=564.27		As=501.60
Mu=11.52	Mu=11.45	Mu=6.91	Mu=4.13	Mu=4.13	Mu=6.89	Mu=2.40	Mu=0.00	Mu=0.00
As=541.68	As=539.46	As=501.60	As=501.60	As=501.60	As=501.60	As=501.60	As=501.60	As=501.60
Vu=-13.53		Vu=5.82	Vu=7.57		Vu=10.24	Vu=-6.27		Vu=-1.41

VT1403/NE+56.45

B=0.20 H=0.80 L=1.22			B=0.20 H=0.80 L=4.51			B=0.20 H=0.80 L=1.39		
Mu=-0.03		Mu=-0.18	Mu=-0.96		Mu=-0.96	Mu=-4.16		Mu=-20.79
As=501.60		As=501.60	As=501.60		As=501.60	As=501.60		As=741.94
Mu=0.03	Mu=0.56	Mu=0.55	Mu=1.64	Mu=4.75	Mu=3.19	Mu=4.98	Mu=4.16	Mu=6.93
As=501.60	As=501.60	As=501.60	As=501.60	As=501.60	As=501.60	As=501.60	As=501.60	As=501.60
Vu=-1.27		Vu=0.97	Vu=-3.29		Vu=2.87	Vu=7.44		Vu=10.96

B=0.20 H=0.80 L=4.02		
Mu=-12.42		Mu=-9.16
As=584.81		As=501.60
Mu=4.14	Mu=2.50	Mu=2.50
As=501.60	As=501.60	As=501.60
Vu=-1.79		Vu=1.84

MEMORIAS VIGUETAS PISO 13 NE+56.59m

VT1404/NE+56.45

B=0.15 H=0.80 L=1.10			B=0.15 H=0.80 L=2.89		
Mu=-0.27		Mu=-0.47	Mu=-1.36		Mu=-0.00
As=376.20		As=376.20	As=376.20		As=376.20
Mu=0.12	Mu=0.58	Mu=0.29	Mu=0.29	Mu=6.08	Mu=2.11
As=376.20	As=376.20	As=376.20	As=376.20	As=376.20	As=376.20
Vu=-2.27		Vu=1.78	Vu=-6.63		Vu=5.37

VT1405/NE+56.45

B=0.15 H=0.80 L=1.10			B=0.15 H=0.80 L=5.35			B=0.15 H=0.80 L=1.64		
Mu=-0.26		Mu=-5.06	Mu=-8.41		Mu=-11.40	Mu=-8.02		Mu=-0.62
As=376.20		As=376.20	As=395.42		As=404.05	As=376.85		As=376.20
Mu=0.06	Mu=0.00	Mu=1.01	Mu=2.80	Mu=6.86	Mu=3.80	Mu=1.60	Mu=0.08	Mu=0.63
As=376.20	As=376.20	As=376.20	As=376.20	As=376.20	As=376.20	As=376.20	As=376.20	As=376.20
Vu=2.24		Vu=5.53	Vu=-9.64		Vu=10.20	Vu=-8.04		Vu=-4.29

VT1406/NE+56.45

B=0.15 H=0.80 L=1.10			B=0.15 H=0.80 L=5.35			B=0.15 H=0.80 L=3.65		
Mu=-0.15		Mu=-5.64	Mu=-6.97		Mu=-15.02	Mu=-16.22		Mu=-0.22
As=376.20		As=376.20	As=376.20		As=535.52	As=579.46		As=376.20
Mu=0.17	Mu=0.00	Mu=1.13	Mu=3.00	Mu=5.59	Mu=5.01	Mu=3.24	Mu=0.38	Mu=1.71
As=376.20	As=376.20	As=376.20	As=376.20	As=376.20	As=376.20	As=376.20	As=376.20	As=376.20
Vu=2.81		Vu=6.26	Vu=-8.71		Vu=11.34	Vu=-10.63		Vu=3.39

VT1407/NE+56.45

B=0.15 H=0.80 L=1.11			B=0.15 H=0.80 L=5.14			B=0.15 H=0.80 L=3.84		
Mu=-0.50		Mu=-6.19	Mu=-8.79		Mu=-21.83	Mu=-18.74		Mu=-1.75
As=376.20		As=376.20	As=413.54		As=787.30	As=672.32		As=376.20
Mu=0.14	Mu=0.86	Mu=1.64	Mu=4.37	Mu=4.37	Mu=7.28	Mu=3.75	Mu=0.85	Mu=0.00
As=376.20	As=376.20	As=376.20	As=376.20	As=376.20	As=376.20	As=376.20	As=376.20	As=376.20
Vu=3.18		Vu=6.46	Vu=-8.16		Vu=11.66	Vu=-10.86		Vu=3.32

VT1408/NE+56.45

B=0.15 H=0.80 L=1.10			B=0.15 H=0.80 L=4.98			B=0.15 H=0.80 L=4.00		
Mu=-0.45		Mu=-1.81	Mu=-7.36		Mu=-36.81	Mu=-33.67		Mu=-1.09
As=376.20		As=376.20	As=376.20		As=1363.56	As=1240.04		As=376.20
Mu=0.46	Mu=1.50	Mu=1.55	Mu=7.75	Mu=7.36	Mu=12.27	Mu=6.73	Mu=1.86	Mu=1.86
As=376.20	As=376.20	As=376.20	As=376.20	As=376.20	As=435.50	As=376.20	As=376.20	As=376.20
Vu=-2.51		Vu=2.61	Vu=-7.49		Vu=15.16	Vu=-13.74		Vu=3.30

VT1409/NE+56.45

B=0.15 H=0.80 L=1.11			B=0.15 H=0.80 L=4.84			B=0.15 H=0.80 L=4.15		
Mu=-0.28		Mu=-0.25	Mu=-8.07		Mu=-40.33	Mu=-37.53		Mu=-0.20
As=376.20		As=376.20	As=379.03		As=1503.89	As=1392.10		As=376.20
Mu=0.71	Mu=1.22	Mu=0.84	Mu=8.88	Mu=8.07	Mu=13.44	Mu=7.51	Mu=0.00	Mu=0.87
As=376.20	As=376.20	As=376.20	As=417.83	As=379.03	As=478.06	As=376.20	As=376.20	As=376.20
Vu=-2.44		Vu=1.73	Vu=-5.60		Vu=15.95	Vu=-15.74		Vu=-2.56

MEMORIAS VIGUETAS PISO 13 NE+56.59m

VT1410/NE+56.45

B=0.15 H=0.80 L=1.11			B=0.15 H=0.80 L=4.84			B=0.15 H=0.80 L=4.15		
Mu=-0.06		Mu=-0.82	Mu=-6.99		Mu=-34.93	Mu=-40.47		Mu=-0.04
As=376.20		As=376.20	As=376.20		As=1289.42	As=1509.51		As=376.20
Mu=0.49	Mu=1.13	Mu=1.09	Mu=6.99	Mu=6.99	Mu=11.64	Mu=8.09	Mu=0.00	Mu=0.54
As=376.20	As=376.20	As=376.20	As=376.20	As=376.20	As=412.83	As=380.37	As=376.20	As=376.20
Vu=-2.44		Vu=2.35	Vu=-4.02		Vu=15.40	Vu=-16.34		Vu=-2.37

VT1411/NE+56.45

B=0.15 H=0.80 L=1.11			B=0.15 H=0.80 L=4.84			B=0.15 H=0.80 L=1.85		
Mu=-0.04		Mu=-7.70	Mu=-8.39		Mu=-8.88	Mu=-10.59		Mu=-0.00
As=376.20		As=376.20	As=394.47		As=417.83	As=499.67		As=376.20
Mu=0.45	Mu=0.00	Mu=1.54	Mu=2.80	Mu=6.85	Mu=2.96	Mu=2.12	Mu=2.37	Mu=1.70
As=376.20	As=376.20	As=376.20	As=376.20	As=376.20	As=376.20	As=376.20	As=376.20	As=376.20
Vu=4.30		Vu=8.26	Vu=-9.84		Vu=9.99	Vu=-9.61		Vu=4.00

VT1412/NE+55.15

B=0.20 H=0.80 L=2.26		
Mu=-15.75		Mu=-4.68
As=558.60		As=501.60
Mu=3.15	Mu=0.00	Mu=0.00
As=501.60	As=501.60	As=501.60
Vu=-5.36		Vu=-1.24

VT1413/NE+56.45

B=0.15 H=0.80 L=1.12			B=0.15 H=0.80 L=4.84		
Mu=-0.34		Mu=-1.54	Mu=-3.85		Mu=-9.37
As=376.20		As=376.20	As=376.20		As=441.23
Mu=0.31	Mu=0.31	Mu=0.51	Mu=1.87	Mu=9.26	Mu=3.12
As=376.20	As=376.20	As=376.20	As=376.20	As=435.98	As=376.20
Vu=-1.31		Vu=2.77	Vu=-9.05		Vu=10.90

VT1414/NE+56.45

B=0.20 H=0.80 L=1.18			B=0.20 H=0.80 L=5.08			B=0.20 H=0.80 L=1.94		
Mu=-0.10		Mu=-0.07	Mu=-3.68		Mu=-18.39	Mu=-15.75		Mu=-4.68
As=501.60		As=501.60	As=501.60		As=654.35	As=558.60		As=501.60
Mu=0.00	Mu=1.07	Mu=0.94	Mu=3.68	Mu=7.13	Mu=6.13	Mu=3.15	Mu=0.00	Mu=0.00
As=501.60	As=501.60	As=501.60	As=501.60	As=501.60	As=501.60	As=501.60	As=501.60	As=501.60
Vu=-2.66		Vu=1.42	Vu=-6.36		Vu=12.36	Vu=-5.36		Vu=-1.24

MEMORIAS VIGUETAS PISO 12 NE+50.75m

VT1300/NE+50.75m

B=0.15 H=0.80 L=1.30			B=0.15 H=0.80 L=1.30		
Mu=-0.00		Mu=-0.16	Mu=-0.16		Mu=-0.00
As=376.20		As=376.20	As=376.20		As=376.20
Mu=0.04	Mu=0.17	Mu=0.03	Mu=0.03	Mu=0.17	Mu=0.04
As=376.20	As=376.20	As=376.20	As=376.20	As=376.20	As=376.20
Vu=0.55		Vu=-0.86	Vu=0.86		Vu=-0.55

VT1301/NE+50.75m

B=0.15 H=0.80 L=1.30			B=0.15 H=0.80 L=1.30		
Mu=-0.00		Mu=-0.16	Mu=-0.16		Mu=-0.00
As=376.20		As=376.20	As=376.20		As=376.20
Mu=0.04	Mu=0.17	Mu=0.03	Mu=0.03	Mu=0.17	Mu=0.04
As=376.20	As=376.20	As=376.20	As=376.20	As=376.20	As=376.20
Vu=0.55		Vu=-0.86	Vu=0.86		Vu=-0.55

VT1302/NE+50.75m

B=0.15 H=0.80 L=2.02			B=0.15 H=0.80 L=4.22		
Mu=-0.00		Mu=-1.81	Mu=-1.67		Mu=-0.00
As=376.20		As=376.20	As=376.20		As=376.20
Mu=0.03	Mu=0.00	Mu=0.36	Mu=0.33	Mu=1.66	Mu=0.14
As=376.20	As=376.20	As=376.20	As=376.20	As=376.20	As=376.20
Vu=0.20		Vu=-2.00	Vu=2.73		Vu=-1.87

VT1303/NE+50.75m

B=0.20 H=0.50 L=3.21		
Mu=-0.00		Mu=-0.00
As=303.60		As=303.60
Mu=0.16	Mu=1.41	Mu=0.16
As=303.60	As=303.60	As=303.60
Vu=1.56		Vu=-1.56

VT1305/NE+50.75m

B=0.20 H=0.80 L=3.20		
Mu=-0.00		Mu=-0.00
As=501.60		As=501.60
Mu=0.44	Mu=1.54	Mu=0.16
As=501.60	As=501.60	As=501.60
Vu=1.47		Vu=-1.64

MEMORIAS VIGUETAS PISO 12 NE+50.75m

VT1321/NE+50.75m

B=0.15 H=0.80 L=13.20			B=0.15 H=0.80 L=13.25			B=0.15 H=0.80 L=13.25		
Mu=-0.00		Mu=-18.28	Mu=-18.73		Mu=-19.04	Mu=-18.66		Mu=-0.00
As=376.20		As=655.16	As=671.91		As=683.41	As=669.40		As=376.20
Mu=1.70	Mu=15.45	Mu=3.66	Mu=6.24	Mu=5.04	Mu=6.35	Mu=3.73	Mu=15.44	Mu=1.71
As=387.92	As=589.83	As=376.20	As=376.20	As=376.20	As=376.20	As=376.20	As=590.55	As=389.22
Vu=5.68		Vu=-8.71	Vu=7.20		Vu=-7.24	Vu=8.76		Vu=-5.68

VT1304/NE+50.75m

B=0.20 H=0.50 L=2.28		
Mu=-0.00		Mu=-0.00
As=303.60		As=303.60
Mu=0.11	Mu=0.74	Mu=0.11
As=303.60	As=303.60	As=303.60
Vu=1.11		Vu=-1.11

VT1318/NE+50.75m

B=0.20 H=0.80 L=2.31		
Mu=-0.00		Mu=-0.00
As=501.60		As=501.60
Mu=0.13	Mu=0.85	Mu=0.13
As=501.60	As=501.60	As=501.60
Vu=1.26		Vu=-1.26

Reactions

Node	L/C	Horizontal FX (Mton)	Vertical FY (Mton)	Horizontal FZ (Mton)	Moment MX (MTon-m)	MY (MTon-m)	MZ (MTon-m)
1	36:CIM	-372.100	1.44E+3	576.702	-113.768	0.334	-70.308
	37:CIMX1	-167.019	1.36E+3	649.111	-74.108	10.647	-40.369
	38:CIMX2	-436.000	974.797	284.588	-111.424	-10.503	-73.834
	39:CIMX3	-253.390	1.52E+3	686.198	-94.497	8.215	-54.433
	40:CIMX4	-455.515	1.22E+3	412.279	-122.537	-7.679	-79.580
	41:CIMZ1	-240.236	1.73E+3	547.430	-17.632	5.852	-12.829
	42:CIMZ2	-362.783	606.116	386.269	-167.900	-5.708	-101.374
	43:CIMZ3	-308.409	1.79E+3	609.790	-52.058	4.612	-33.738
	44:CIMZ4	-455.515	1.22E+3	412.279	-122.537	-7.679	-79.580
2	36:CIM	305.689	1.14E+3	-476.354	2.776	0.758	4.554
	37:CIMX1	358.216	1.7E+3	-206.907	22.714	4.865	17.131
	38:CIMX2	136.746	143.584	-565.082	-19.031	-3.380	-9.832
	39:CIMX3	374.349	1.67E+3	-319.189	18.227	3.852	14.458
	40:CIMX4	207.926	502.834	-588.339	-13.142	-2.344	-5.803
	41:CIMZ1	328.774	1.23E+3	-260.403	22.368	2.104	22.723
	42:CIMZ2	166.188	615.246	-511.586	-18.684	-0.619	-15.424
	43:CIMZ3	352.225	1.32E+3	-359.389	17.967	1.777	18.660
	44:CIMZ4	207.926	502.834	-588.339	-13.142	-2.344	-5.803
5	36:CIM	-311.698	1.25E+3	478.897	-85.099	-2.302	-49.523
	37:CIMX1	-192.844	1.53E+3	460.925	5.290	4.286	-3.207
	38:CIMX2	-306.704	475.172	306.738	-143.612	-7.897	-77.570
	39:CIMX3	-253.437	1.59E+3	513.062	-25.169	2.400	-19.300
	40:CIMX4	-338.997	791.044	397.199	-137.060	-6.755	-75.179
	41:CIMZ1	-217.380	1.32E+3	422.623	-22.538	6.076	3.831
	42:CIMZ2	-282.168	687.236	345.040	-115.784	-9.686	-84.608
	43:CIMZ3	-271.875	1.43E+3	484.280	-46.080	3.745	-14.011
	44:CIMZ4	-338.997	791.044	397.199	-137.060	-6.755	-75.179
6	36:CIM	265.402	1.09E+3	-416.097	16.625	1.574	16.489
	37:CIMX1	227.419	1.14E+3	-285.745	55.621	7.182	26.769
	38:CIMX2	194.153	594.412	-375.160	-29.583	-4.724	-0.824
	39:CIMX3	264.247	1.24E+3	-361.091	47.737	5.961	25.978
	40:CIMX4	239.249	830.696	-428.281	-16.289	-2.985	5.243
	41:CIMZ1	262.599	1.48E+3	-217.183	37.499	9.282	67.545
	42:CIMZ2	158.973	254.989	-443.721	-11.461	-6.824	-41.601
	43:CIMZ3	290.682	1.5E+3	-309.571	34.119	7.539	56.619
	44:CIMZ4	239.249	830.696	-428.281	-16.289	-2.985	5.243
7	36:CIM	4.243	789.224	-7.560	-11.217	0.102	-5.122
	37:CIMX1	3.582	659.394	-4.313	-3.070	0.472	3.427
	38:CIMX2	1.869	553.574	-5.868	-11.930	-0.306	-9.652
	39:CIMX3	4.507	783.298	-6.358	-6.959	0.389	0.294
	40:CIMX4	3.220	703.780	-7.527	-13.617	-0.195	-9.534
	41:CIMZ1	3.080	698.213	-2.499	5.969	0.311	-0.794
	42:CIMZ2	2.370	514.756	-7.682	-20.969	-0.145	-5.431
	43:CIMZ3	4.130	812.468	-4.995	-0.167	0.268	-2.878
	44:CIMZ4	3.220	703.780	-7.527	-13.617	-0.195	-9.534
8	36:CIM	2.837	387.668	-3.453	-5.448	0.167	-3.756
	37:CIMX1	4.548	333.904	-1.197	1.236	0.568	6.224
	38:CIMX2	-0.789	246.888	-3.652	-8.682	-0.315	-11.005
	39:CIMX3	4.603	396.044	-2.273	-1.290	0.489	3.059
	40:CIMX4	0.592	330.656	-4.118	-8.743	-0.175	-9.888
	41:CIMZ1	3.358	378.904	2.487	12.626	0.321	0.577
	42:CIMZ2	0.401	201.888	-7.336	-20.072	-0.067	-5.357
	43:CIMZ3	3.709	429.859	0.495	7.269	0.303	-1.185

Reactions Cont...

Node	L/C	Horizontal FX (Mton)	Vertical FY (Mton)	Horizontal FZ (Mton)	Moment MX (MTon-m)	MY (MTon-m)	MZ (MTon-m)
	44:CIMZ4	0.592	330.656	-4.118	-8.743	-0.175	-9.888
9	36:CIM	-0.369	342.456	-6.638	-9.698	-0.030	0.588
	37:CIMX1	3.139	305.892	-3.419	-2.645	0.356	8.742
	38:CIMX2	-3.418	211.032	-5.938	-10.842	-0.384	-8.154
	39:CIMX3	2.152	357.099	-5.202	-5.880	0.252	6.862
	40:CIMX4	-2.775	285.817	-7.095	-12.039	-0.304	-5.834
	41:CIMZ1	0.915	361.387	-0.123	9.229	0.250	2.746
	42:CIMZ2	-1.195	155.537	-9.235	-22.717	-0.277	-2.158
	43:CIMZ3	0.481	398.801	-2.724	3.043	0.172	2.357
	44:CIMZ4	-2.775	285.817	-7.095	-12.039	-0.304	-5.834
10	36:CIM	313.641	1.58E+3	625.893	-106.670	8.426	35.420
	37:CIMX1	256.091	1.42E+3	532.796	-45.714	14.945	44.220
	38:CIMX2	240.423	1.1E+3	462.899	-127.069	-3.097	17.264
	39:CIMX3	303.182	1.62E+3	620.144	-71.033	14.579	44.378
	40:CIMX4	291.408	1.38E+3	567.620	-132.167	1.021	24.122
	41:CIMZ1	261.285	1.8E+3	528.617	8.447	8.669	83.151
	42:CIMZ2	235.229	717.196	467.078	-181.231	3.178	-21.666
	43:CIMZ3	307.085	1.91E+3	617.004	-30.334	9.864	73.633
	44:CIMZ4	291.408	1.38E+3	567.620	-132.167	1.021	24.122
11	36:CIM	-292.212	1.4E+3	-621.811	-11.627	-9.666	-19.507
	37:CIMX1	-210.285	1.31E+3	-471.027	21.500	1.660	11.608
	38:CIMX2	-249.072	903.141	-503.854	-38.418	-16.198	-40.720
	39:CIMX3	-262.006	1.48E+3	-575.885	11.677	-2.357	1.391
	40:CIMX4	-291.152	1.17E+3	-600.553	-33.348	-15.777	-37.930
	41:CIMZ1	-210.467	1.68E+3	-441.601	32.700	-4.580	21.928
	42:CIMZ2	-248.890	540.518	-533.281	-49.618	-9.958	-51.040
	43:CIMZ3	-262.142	1.76E+3	-553.773	20.093	-7.046	9.147
	44:CIMZ4	-291.152	1.17E+3	-600.553	-33.348	-15.777	-37.930
12	36:CIM	323.193	1.77E+3	709.472	-130.833	-7.146	69.220
	37:CIMX1	271.692	1.63E+3	581.622	-63.677	3.492	68.489
	38:CIMX2	233.889	1.13E+3	525.185	-141.393	-13.097	38.412
	39:CIMX3	319.796	1.86E+3	691.660	-94.559	-0.328	76.578
	40:CIMX4	291.389	1.49E+3	649.250	-152.959	-12.793	53.977
	41:CIMZ1	281.655	2E+3	628.837	-15.052	0.490	105.991
	42:CIMZ2	223.926	760.918	477.970	-190.017	-10.096	0.911
	43:CIMZ3	327.282	2.14E+3	727.139	-58.021	-2.583	104.758
	44:CIMZ4	291.389	1.49E+3	649.250	-152.959	-12.793	53.977
13	36:CIM	-319.236	1.62E+3	-686.829	29.534	1.035	-14.947
	37:CIMX1	-225.427	1.47E+3	-510.367	55.403	9.946	19.786
	38:CIMX2	-268.266	1.04E+3	-551.109	-10.177	-8.451	-41.923
	39:CIMX3	-285.043	1.69E+3	-632.498	52.443	7.876	9.208
	40:CIMX4	-317.234	1.37E+3	-663.114	3.164	-5.949	-37.163
	41:CIMZ1	-227.332	1.82E+3	-470.751	65.166	5.893	27.470
	42:CIMZ2	-266.362	694.618	-590.724	-19.940	-4.398	-49.607
	43:CIMZ3	-286.474	1.95E+3	-602.730	59.780	4.830	14.982
	44:CIMZ4	-317.234	1.37E+3	-663.114	3.164	-5.949	-37.163
14	36:CIM	256.568	1.42E+3	579.942	-84.738	-4.688	59.268
	37:CIMX1	324.570	1.89E+3	694.611	20.944	6.077	70.753
	38:CIMX2	87.341	364.617	229.553	-161.786	-12.527	21.649
	39:CIMX3	333.047	1.92E+3	725.209	-12.503	2.668	74.451
	40:CIMX4	154.783	769.828	375.744	-149.815	-11.312	37.552
	41:CIMZ1	260.039	1.47E+3	565.142	-4.536	2.325	84.484
	42:CIMZ2	151.872	786.725	359.021	-136.305	-8.775	7.918

Reactions Cont...

Node	L/C	Horizontal FX (Mton)	Vertical FY (Mton)	Horizontal FZ (Mton)	Moment MX (MTon˜m)	MY (MTon˜m)	MZ (MTon˜m)
	43:CIMZ3	284.556	1.6E+3	627.921	-31.650	-0.152	84.769
	44:CIMZ4	154.783	769.828	375.744	-149.815	-11.312	37.552
15	36:CIM	162.165	804.851	357.749	-66.631	-3.250	33.896
	37:CIMX1	270.575	1.23E+3	586.776	-11.236	0.633	54.961
	38:CIMX2	5.247	132.167	20.401	-101.148	-5.715	1.841
	39:CIMX3	255.791	1.19E+3	557.009	-30.239	-0.687	52.481
	40:CIMX4	56.412	361.663	131.409	-97.803	-5.458	12.564
	41:CIMZ1	180.701	1.09E+3	395.799	-2.810	1.026	58.870
	42:CIMZ2	95.122	270.525	211.379	-109.574	-6.108	-2.069
	43:CIMZ3	188.255	1.08E+3	413.499	-23.907	-0.392	55.419
	44:CIMZ4	56.412	361.663	131.409	-97.803	-5.458	12.564
16	36:CIM	-264.075	1.28E+3	-557.454	20.070	3.208	-2.636
	37:CIMX1	-127.171	1.47E+3	-222.844	42.200	11.300	31.518
	38:CIMX2	-289.431	569.189	-659.172	-10.360	-6.930	-37.571
	39:CIMX3	-189.167	1.55E+3	-364.404	38.780	9.801	23.224
	40:CIMX4	-311.096	874.547	-692.281	-0.716	-3.898	-28.692
	41:CIMZ1	-104.037	2E+3	-191.392	58.311	7.788	37.523
	42:CIMZ2	-312.565	44.927	-690.624	-26.472	-3.418	-43.576
	43:CIMZ3	-171.783	1.95E+3	-340.769	50.887	7.162	27.737
	44:CIMZ4	-311.096	874.547	-692.281	-0.716	-3.898	-28.692
17	36:CIM	-137.534	672.514	-294.718	2.719	0.696	-1.361
	37:CIMX1	39.531	1.5E+3	88.362	15.790	1.780	4.206
	38:CIMX2	-272.780	-350.358	-588.796	-11.064	-0.796	-6.716
	39:CIMX3	-14.964	1.34E+3	-29.169	12.720	1.613	2.769
	40:CIMX4	-249.649	-46.414	-538.016	-7.460	-0.323	-5.438
	41:CIMZ1	-37.006	1.35E+3	-73.708	24.228	2.266	13.086
	42:CIMZ2	-196.243	-206.068	-426.727	-19.502	-1.282	-15.596
	43:CIMZ3	-72.478	1.23E+3	-150.956	19.060	1.978	9.442
	44:CIMZ4	-249.649	-46.414	-538.016	-7.460	-0.323	-5.438
18	36:CIM	29.635	366.917	60.227	-107.523	1.081	49.061
	37:CIMX1	54.687	740.205	117.300	30.284	1.928	94.956
	38:CIMX2	-5.056	-133.837	-16.714	-207.477	-0.010	-14.226
	39:CIMX3	50.877	679.381	108.096	-13.459	1.779	87.909
	40:CIMX4	5.984	22.586	7.392	-192.123	0.322	5.865
	41:CIMZ1	35.352	476.192	73.495	-51.587	1.230	57.311
	42:CIMZ2	14.280	130.176	27.091	-125.605	0.688	23.419
	43:CIMZ3	36.347	480.990	75.179	-74.981	1.254	59.621
	44:CIMZ4	5.984	22.586	7.392	-192.123	0.322	5.865
19	36:CIM	72.927	1.05E+3	-83.523	99.726	0.472	-85.370
	37:CIMX1	172.948	1.82E+3	-63.506	198.381	0.718	13.304
	38:CIMX2	-45.159	-81.600	-76.575	-34.348	0.037	-154.331
	39:CIMX3	152.616	1.72E+3	-75.242	182.740	0.704	-18.672
	40:CIMX4	-11.279	293.239	-85.063	7.857	0.193	-144.640
	41:CIMZ1	93.884	1.26E+3	-63.130	122.583	1.061	-44.256
	42:CIMZ2	33.904	476.678	-76.950	41.450	-0.306	-96.771
	43:CIMZ3	93.205	1.3E+3	-74.960	125.782	0.962	-61.925
	44:CIMZ4	-11.279	293.239	-85.063	7.857	0.193	-144.640
20	36:CIM	-164.064	464.617	74.809	-25.540	-0.710	-51.498
	37:CIMX1	-110.476	479.972	75.122	-15.336	0.474	-36.860
	38:CIMX2	-160.674	294.955	48.515	-27.350	-1.617	-49.326
	39:CIMX3	-138.081	514.844	81.559	-19.977	0.110	-44.713
	40:CIMX4	-175.802	375.814	61.564	-29.005	-1.461	-54.081
	41:CIMZ1	-113.896	441.413	72.362	-15.476	-0.278	-36.400

Reactions Cont...

Node	L/C	Horizontal FX (Mton)	Vertical FY (Mton)	Horizontal FZ (Mton)	Moment MX (MTon-m)	MY (MTon-m)	MZ (MTon-m)
	42:CIMZ2	-157.253	333.514	51.275	-27.210	-0.865	-49.786
	43:CIMZ3	-140.651	485.869	79.485	-20.082	-0.455	-44.367
	44:CIMZ4	-175.802	375.814	61.564	-29.005	-1.461	-54.081
21	36:CIM	6.970	419.591	-3.020	-4.486	-0.030	-6.547
	37:CIMX1	6.010	424.012	2.116	0.038	1.695	7.630
	38:CIMX2	4.943	252.731	-6.624	-6.733	-1.780	-17.648
	39:CIMX3	6.998	463.641	0.455	-1.657	1.272	3.335
	40:CIMX4	6.196	334.932	-6.113	-6.745	-1.339	-15.661
	41:CIMZ1	7.207	368.050	3.209	-1.403	3.286	0.324
	42:CIMZ2	3.746	308.693	-7.717	-5.292	-3.371	-10.342
	43:CIMZ3	7.897	421.588	1.276	-2.740	2.468	-2.156
	44:CIMZ4	6.196	334.932	-6.113	-6.745	-1.339	-15.661
22	36:CIM	7.817	263.234	-5.753	-7.916	-0.074	-9.582
	37:CIMX1	6.845	252.197	-1.357	-2.878	0.739	-1.232
	38:CIMX2	4.762	175.934	-5.319	-6.377	-0.832	-12.734
	39:CIMX3	8.096	279.596	-3.660	-5.780	0.523	-4.611
	40:CIMX4	6.531	222.288	-6.638	-8.409	-0.657	-13.254
	41:CIMZ1	9.301	369.514	-0.858	-3.879	1.569	0.005
	42:CIMZ2	2.306	58.617	-5.818	-5.376	-1.661	-13.970
	43:CIMZ3	9.941	367.753	-3.286	-6.532	1.146	-3.681
	44:CIMZ4	6.531	222.288	-6.638	-8.409	-0.657	-13.254
23	36:CIM	8.871	805.842	-405.997	30.344	-5.897	-12.025
	37:CIMX1	8.892	701.362	-279.660	44.708	-1.780	-5.455
	38:CIMX2	2.744	609.281	-367.160	15.490	-5.740	-10.008
	39:CIMX3	10.418	802.808	-352.475	41.260	-3.875	-9.241
	40:CIMX4	5.798	733.615	-418.226	19.304	-6.851	-12.662
	41:CIMZ1	12.003	790.954	-181.086	77.123	0.637	-0.679
	42:CIMZ2	-0.367	519.689	-465.735	-16.925	-8.157	-14.783
	43:CIMZ3	12.756	870.132	-278.401	65.619	-2.058	-5.653
	44:CIMZ4	5.798	733.615	-418.226	19.304	-6.851	-12.662
24	36:CIM	6.215	1.09E+3	352.373	-202.388	5.189	-6.691
	37:CIMX1	8.198	1.22E+3	345.619	-114.848	4.893	-3.465
	38:CIMX2	-0.226	553.593	214.678	-224.786	1.810	-4.576
	39:CIMX3	8.823	1.29E+3	383.514	-152.939	5.888	-5.606
	40:CIMX4	2.493	784.807	285.119	-235.551	3.571	-6.441
	41:CIMZ1	7.439	1.68E+3	341.640	-20.441	5.286	-2.226
	42:CIMZ2	0.533	97.780	218.657	-319.193	1.416	-5.816
	43:CIMZ3	8.253	1.63E+3	380.524	-81.997	6.183	-4.675
	44:CIMZ4	2.493	784.807	285.119	-235.551	3.571	-6.441
25	36:CIM	1.751	815.901	-405.967	41.026	-1.111	-1.646
	37:CIMX1	6.585	791.122	-299.284	55.233	3.124	1.978
	38:CIMX2	-4.395	512.183	-335.317	20.804	-4.551	-3.663
	39:CIMX3	5.713	879.642	-370.262	53.210	1.872	0.674
	40:CIMX4	-2.539	670.035	-397.339	27.338	-3.895	-3.564
	41:CIMZ1	4.648	1.08E+3	-291.541	95.470	1.660	1.822
	42:CIMZ2	-2.458	227.579	-343.061	-19.433	-3.087	-3.507
	43:CIMZ3	4.257	1.09E+3	-364.443	83.446	0.772	0.557
	44:CIMZ4	-2.539	670.035	-397.339	27.338	-3.895	-3.564
26	36:CIM	1.283	1.06E+3	328.112	-197.327	0.998	-0.713
	37:CIMX1	5.943	1.01E+3	278.559	-146.984	2.773	1.057
	38:CIMX2	-4.243	693.937	234.964	-180.992	-1.581	-1.750
	39:CIMX3	5.002	1.12E+3	326.654	-176.214	2.533	0.433
	40:CIMX4	-2.652	885.935	293.895	-201.770	-0.738	-1.676

Reactions Cont...

Node	L/C	Horizontal FX (Mton)	Vertical FY (Mton)	Horizontal FZ (Mton)	Moment MX (MTon-m)	MY (MTon-m)	MZ (MTon-m)
	41:CIMZ1	3.440	1.31E+3	269.444	-104.550	1.871	0.324
	42:CIMZ2	-1.739	393.496	244.079	-223.427	-0.679	-1.017
	43:CIMZ3	3.121	1.35E+3	319.805	-144.327	1.855	-0.118
	44:CIMZ4	-2.652	885.935	293.895	-201.770	-0.738	-1.676
27	36:CIM	-0.416	842.811	-410.722	53.480	0.290	1.051
	37:CIMX1	6.182	804.470	-313.381	63.609	4.772	5.023
	38:CIMX2	-6.814	550.571	-333.898	29.291	-4.352	-3.342
	39:CIMX3	4.492	896.884	-381.243	64.617	3.698	4.142
	40:CIMX4	-5.274	706.093	-396.660	38.829	-3.158	-2.144
	41:CIMZ1	2.943	1.12E+3	-283.942	104.346	2.433	3.041
	42:CIMZ2	-3.575	235.230	-363.337	-11.446	-2.013	-1.359
	43:CIMZ3	2.058	1.13E+3	-359.121	95.229	1.940	2.652
	44:CIMZ4	-5.274	706.093	-396.660	38.829	-3.158	-2.144
28	36:CIM	-0.351	1.09E+3	324.276	-210.506	-0.500	0.961
	37:CIMX1	5.268	1.01E+3	264.816	-157.825	2.180	2.598
	38:CIMX2	-5.792	749.997	251.526	-190.850	-2.990	-1.063
	39:CIMX3	3.827	1.13E+3	312.743	-189.056	1.466	2.288
	40:CIMX4	-4.484	936.798	302.756	-213.872	-2.419	-0.463
	41:CIMZ1	2.232	1.34E+3	272.590	-119.442	0.785	1.602
	42:CIMZ2	-2.756	421.444	243.751	-229.232	-1.596	-0.068
	43:CIMZ3	1.546	1.38E+3	318.585	-160.213	0.418	1.540
	44:CIMZ4	-4.484	936.798	302.756	-213.872	-2.419	-0.463
29	36:CIM	0.089	840.764	-401.407	60.445	0.015	0.204
	37:CIMX1	6.116	804.606	-300.908	68.765	3.888	2.978
	38:CIMX2	-5.680	554.312	-334.998	35.289	-4.053	-3.016
	39:CIMX3	4.553	894.479	-367.735	70.918	2.975	2.401
	40:CIMX4	-4.311	706.397	-393.352	45.762	-2.993	-2.104
	41:CIMZ1	2.980	1.11E+3	-276.113	106.402	1.807	1.382
	42:CIMZ2	-2.543	245.324	-359.792	-2.348	-1.972	-1.420
	43:CIMZ3	2.196	1.13E+3	-349.103	99.200	1.411	1.201
	44:CIMZ4	-4.311	706.397	-393.352	45.762	-2.993	-2.104
30	36:CIM	0.065	1.06E+3	308.840	-203.446	0.018	0.332
	37:CIMX1	5.188	1E+3	270.190	-151.501	2.255	1.109
	38:CIMX2	-4.907	717.864	224.480	-188.148	-2.081	-0.725
	39:CIMX3	3.877	1.11E+3	310.638	-181.271	1.664	0.986
	40:CIMX4	-3.709	900.175	276.290	-208.810	-1.594	-0.392
	41:CIMZ1	2.357	1.35E+3	276.560	-111.973	0.982	0.942
	42:CIMZ2	-2.075	366.629	218.109	-227.676	-0.807	-0.558
	43:CIMZ3	1.749	1.38E+3	315.425	-151.568	0.707	0.861
	44:CIMZ4	-3.709	900.175	276.290	-208.810	-1.594	-0.392
31	36:CIM	-5.123	862.627	-401.266	62.943	3.664	7.261
	37:CIMX1	0.524	809.692	-300.075	70.064	5.269	6.076
	38:CIMX2	-7.621	595.728	-340.063	38.465	-0.365	4.147
	39:CIMX3	-1.669	903.039	-365.942	72.646	5.478	7.448
	40:CIMX4	-7.790	742.256	-395.991	48.901	1.244	5.999
	41:CIMZ1	-1.776	964.180	-275.816	95.443	3.709	6.230
	42:CIMZ2	-5.321	441.240	-364.323	13.086	1.194	3.993
	43:CIMZ3	-3.398	1.02E+3	-347.712	91.717	4.306	7.564
	44:CIMZ4	-7.790	742.256	-395.991	48.901	1.244	5.999
32	36:CIM	-3.656	1.09E+3	336.776	-208.108	-3.174	4.691
	37:CIMX1	1.260	1.18E+3	348.532	-129.446	-1.491	5.192
	38:CIMX2	-6.070	599.538	192.935	-217.975	-2.866	0.975
	39:CIMX3	-0.589	1.26E+3	378.727	-166.247	-2.408	5.874

Reactions Cont...

Node	L/C	Horizontal FX (Mton)	Vertical FY (Mton)	Horizontal FZ (Mton)	Moment MX (MTon-m)	MY (MTon-m)	MZ (MTon-m)
	40:CIMX4	-6.097	823.840	261.804	-232.771	-3.441	2.705
	41:CIMZ1	-0.874	1.71E+3	404.607	-49.362	-1.811	4.613
	42:CIMZ2	-3.936	71.181	136.860	-298.059	-2.545	1.553
	43:CIMZ3	-2.192	1.66E+3	420.864	-106.068	-2.649	5.439
	44:CIMZ4	-6.097	823.840	261.804	-232.771	-3.441	2.705
34	36:CIM	-0.052	356.919	-3.003	-3.791	-0.891	-3.052
	37:CIMX1	5.983	583.696	1.696	11.948	1.089	9.646
	38:CIMX2	-6.095	11.253	-5.723	-16.771	-2.266	-13.190
	39:CIMX3	4.485	557.138	0.032	7.344	0.445	5.848
	40:CIMX4	-4.591	126.978	-5.543	-14.237	-2.076	-11.312
	41:CIMZ1	2.350	1.06E+3	5.883	35.274	0.056	5.130
	42:CIMZ2	-2.463	-469.915	-9.910	-40.097	-1.234	-8.674
	43:CIMZ3	1.756	918.709	3.178	24.872	-0.331	2.454
	44:CIMZ4	-4.591	126.978	-5.543	-14.237	-2.076	-11.312
37	36:CIM	-2.815	73.446	29.650	33.760	-9.664	2.687
	37:CIMX1	29.058	51.351	19.200	23.631	-5.097	9.288
	38:CIMX2	-36.162	43.469	14.428	14.971	-5.683	-5.198
	39:CIMX3	21.506	69.898	28.234	33.399	-8.375	7.969
	40:CIMX4	-27.504	63.976	24.648	26.892	-8.815	-2.916
	41:CIMZ1	42.968	58.339	22.669	30.124	-4.445	11.979
	42:CIMZ2	-50.071	36.481	10.960	8.478	-6.335	-7.890
	43:CIMZ3	31.958	75.150	30.840	38.278	-7.885	9.992
	44:CIMZ4	-27.504	63.976	24.648	26.892	-8.815	-2.916
38	36:CIM	-11.753	91.229	38.065	41.470	-0.120	2.736
	37:CIMX1	38.646	62.366	23.760	27.987	0.127	13.351
	38:CIMX2	-56.621	54.401	19.189	19.094	-0.254	-9.153
	39:CIMX3	24.732	86.010	35.635	40.328	0.037	11.032
	40:CIMX4	-46.856	80.025	32.200	33.646	-0.249	-5.878
	41:CIMZ1	33.458	62.398	28.256	36.681	0.123	12.008
	42:CIMZ2	-51.434	54.369	14.694	10.400	-0.250	-7.810
	43:CIMZ3	20.834	86.034	39.013	46.862	0.034	10.023
	44:CIMZ4	-46.856	80.025	32.200	33.646	-0.249	-5.878
39	36:CIM	-6.190	89.877	38.158	41.472	-0.018	1.456
	37:CIMX1	50.907	58.764	23.445	27.347	0.102	14.541
	38:CIMX2	-61.558	56.413	19.580	19.659	-0.119	-12.040
	39:CIMX3	36.281	82.688	35.449	39.868	0.068	11.392
	40:CIMX4	-48.229	80.922	32.545	34.091	-0.098	-8.583
	41:CIMZ1	29.524	59.118	28.269	36.965	0.064	9.486
	42:CIMZ2	-40.175	56.059	14.757	10.042	-0.081	-6.985
	43:CIMZ3	20.214	82.954	39.074	47.095	0.039	7.593
	44:CIMZ4	-48.229	80.922	32.545	34.091	-0.098	-8.583
40	36:CIM	-0.715	91.052	38.007	41.232	0.082	0.201
	37:CIMX1	56.484	59.303	23.417	27.333	0.164	14.036
	38:CIMX2	-59.433	57.533	19.377	19.269	-0.069	-13.303
	39:CIMX3	42.648	83.559	35.372	39.779	0.161	10.514
	40:CIMX4	-44.458	82.228	32.337	33.720	-0.015	-10.030
	41:CIMZ1	30.488	60.816	28.386	37.276	0.166	7.880
	42:CIMZ2	-33.437	56.021	14.408	9.325	-0.071	-7.146
	43:CIMZ3	23.113	84.695	39.106	47.251	0.162	5.888
	44:CIMZ4	-44.458	82.228	32.337	33.720	-0.015	-10.030
41	36:CIM	-5.414	76.593	32.381	36.289	6.771	-0.390
	37:CIMX1	46.772	51.534	20.672	25.391	3.856	10.950
	38:CIMX2	-54.225	47.454	15.996	15.835	3.496	-11.233

Reactions Cont...

Node	L/C	Horizontal FX (Mton)	Vertical FY (Mton)	Horizontal FZ (Mton)	Moment MX (MTon-m)	MY (MTon-m)	MZ (MTon-m)
	39:CIMX3	32.954	71.351	30.626	35.961	6.132	8.007
	40:CIMX4	-42.939	68.285	27.112	28.779	5.862	-8.662
	41:CIMZ1	20.879	50.683	25.522	35.288	4.277	5.240
	42:CIMZ2	-28.333	48.304	11.147	5.938	3.075	-5.522
	43:CIMZ3	13.498	70.712	34.270	43.397	6.449	3.716
	44:CIMZ4	-42.939	68.285	27.112	28.779	5.862	-8.662
44	36:CIM	6.191	28.856	1.148	-49.156	-1.440	-2.762
	37:CIMX1	21.080	44.908	20.579	-19.964	5.642	6.310
	38:CIMX2	-13.258	-4.836	-21.267	-59.285	-3.940	-10.515
	39:CIMX3	18.522	45.341	16.498	-31.999	2.733	3.725
	40:CIMX4	-7.280	7.962	-14.948	-61.547	-4.468	-8.919
	41:CIMZ1	37.978	113.597	78.523	21.130	7.859	9.841
	42:CIMZ2	-30.156	-73.524	-79.211	-100.379	-6.157	-14.047
	43:CIMZ3	31.220	96.957	60.039	-1.120	4.398	6.378
	44:CIMZ4	-7.280	7.962	-14.948	-61.547	-4.468	-8.919
45	36:CIM	27.735	169.138	-20.592	-8.983	2.997	1.914
	37:CIMX1	191.467	156.643	66.134	10.725	3.750	40.324
	38:CIMX2	-154.147	108.866	-95.428	-24.278	0.883	-36.467
	39:CIMX3	155.321	177.993	41.597	4.720	3.904	30.769
	40:CIMX4	-104.389	142.091	-79.808	-21.583	1.749	-26.934
	41:CIMZ1	129.041	207.909	38.028	12.155	4.136	25.183
	42:CIMZ2	-91.721	57.601	-67.322	-25.707	0.497	-21.327
	43:CIMZ3	108.412	216.516	20.477	5.794	4.194	19.393
	44:CIMZ4	-104.389	142.091	-79.808	-21.583	1.749	-26.934
46	36:CIM	-1.181	239.589	-9.620	-10.178	0.995	4.694
	37:CIMX1	244.592	205.135	109.370	17.017	1.458	59.895
	38:CIMX2	-249.764	162.614	-122.432	-32.355	-0.370	-51.934
	39:CIMX3	184.208	241.636	78.245	9.000	1.569	46.532
	40:CIMX4	-187.273	209.684	-95.941	-28.101	0.195	-37.501
	41:CIMZ1	161.314	248.441	70.503	15.833	0.918	36.988
	42:CIMZ2	-166.487	119.308	-83.564	-31.171	0.170	-29.027
	43:CIMZ3	121.630	274.179	49.039	8.110	1.163	29.319
	44:CIMZ4	-187.273	209.684	-95.941	-28.101	0.195	-37.501
47	36:CIM	-0.076	233.377	-15.410	-6.589	-2.464	3.024
	37:CIMX1	237.475	253.441	113.768	23.572	-0.767	56.676
	38:CIMX2	-234.851	113.377	-139.107	-33.834	-2.604	-51.965
	39:CIMX3	177.734	273.510	80.285	15.345	-1.579	43.676
	40:CIMX4	-177.193	168.260	-109.736	-27.793	-2.960	-37.962
	41:CIMZ1	173.581	379.604	86.586	21.437	-1.227	33.839
	42:CIMZ2	-170.958	-12.785	-111.925	-31.699	-2.144	-29.128
	43:CIMZ3	129.722	368.315	59.860	13.740	-1.925	26.515
	44:CIMZ4	-177.193	168.260	-109.736	-27.793	-2.960	-37.962
48	36:CIM	12.839	332.236	-7.163	-11.147	2.363	2.264
	37:CIMX1	140.638	753.915	66.104	7.707	6.408	56.305
	38:CIMX2	-116.478	-191.657	-79.338	-26.428	-2.519	-52.327
	39:CIMX3	109.254	674.732	47.619	2.124	5.613	43.011
	40:CIMX4	-83.955	-35.814	-61.673	-23.526	-1.096	-38.620
	41:CIMZ1	136.641	721.818	65.316	26.037	8.631	24.532
	42:CIMZ2	-112.481	-159.560	-78.549	-44.758	-4.742	-20.554
	43:CIMZ3	106.250	650.612	47.027	15.898	7.283	19.135
	44:CIMZ4	-83.955	-35.814	-61.673	-23.526	-1.096	-38.620
52	36:CIM	-4.426	116.532	-15.003	-2.738	0.935	1.171
	37:CIMX1	99.226	156.201	53.707	11.378	1.059	24.086

Reactions Cont...

Node	L/C	Horizontal FX (Mton)	Vertical FY (Mton)	Horizontal FZ (Mton)	Moment MX (MTon-m)	MY (MTon-m)	MZ (MTon-m)
	38:CIMX2	-105.106	25.733	-76.086	-14.986	0.290	-22.360
	39:CIMX3	72.718	159.161	34.717	7.401	1.159	18.545
	40:CIMX4	-80.826	61.121	-62.816	-12.410	0.581	-16.357
	41:CIMZ1	149.320	229.483	103.284	23.518	0.974	32.014
	42:CIMZ2	-155.199	-47.549	-125.664	-27.125	0.374	-30.289
	43:CIMZ3	110.360	214.228	71.971	16.523	1.095	24.502
	44:CIMZ4	-80.826	61.121	-62.816	-12.410	0.581	-16.357
53	36:CIM	-39.593	170.513	-36.264	-7.191	-0.910	-1.051
	37:CIMX1	63.402	171.510	50.794	10.153	1.011	23.560
	38:CIMX2	-124.944	99.377	-107.042	-21.235	-2.515	-25.182
	39:CIMX3	33.379	188.848	25.073	5.014	0.454	17.322
	40:CIMX4	-108.153	134.643	-93.532	-18.572	-2.195	-19.304
	41:CIMZ1	153.063	164.925	126.558	29.198	-0.141	30.928
	42:CIMZ2	-214.605	105.962	-182.807	-40.279	-1.362	-32.550
	43:CIMZ3	100.754	183.900	82.006	19.325	-0.412	22.859
	44:CIMZ4	-108.153	134.643	-93.532	-18.572	-2.195	-19.304
54	36:CIM	23.518	245.373	13.311	-12.170	2.668	-5.378
	37:CIMX1	152.327	302.955	104.722	0.552	2.392	28.274
	38:CIMX2	-115.322	89.944	-84.473	-20.666	1.618	-37.145
	39:CIMX3	122.825	313.176	83.600	-3.670	2.793	19.437
	40:CIMX4	-78.298	153.109	-58.570	-19.614	2.212	-29.722
	41:CIMZ1	141.288	278.933	102.329	15.009	3.364	20.694
	42:CIMZ2	-104.283	113.966	-82.079	-35.124	0.646	-29.565
	43:CIMZ3	114.530	295.124	81.801	7.194	3.524	13.741
	44:CIMZ4	-78.298	153.109	-58.570	-19.614	2.212	-29.722
119	36:CIM	0.709	109.142	-28.620	-3.586	-0.998	-0.093
	37:CIMX1	131.620	188.777	6.006	3.759	-0.435	31.573
	38:CIMX2	-131.189	-18.517	-48.944	-7.982	-1.002	-31.396
	39:CIMX3	99.329	181.024	-6.186	1.194	-0.716	23.612
	40:CIMX4	-98.158	25.254	-47.478	-7.629	-1.141	-23.706
	41:CIMZ1	39.647	414.047	80.739	20.765	-0.652	10.242
	42:CIMZ2	-39.217	-243.787	-123.678	-24.987	-0.785	-10.065
	43:CIMZ3	30.216	350.302	49.972	13.972	-0.879	7.582
	44:CIMZ4	-98.158	25.254	-47.478	-7.629	-1.141	-23.706
127	36:CIM	1.934	245.053	-4.938	-7.069	0.012	-2.324
	37:CIMX1	2.201	183.522	-1.392	-0.718	0.049	2.142
	38:CIMX2	0.355	145.373	-5.231	-8.742	-0.036	-5.070
	39:CIMX3	2.463	239.235	-3.089	-3.469	0.042	0.601
	40:CIMX4	1.076	210.568	-5.974	-9.499	-0.021	-4.819
	41:CIMZ1	2.088	173.239	-0.282	3.206	0.045	0.010
	42:CIMZ2	0.468	155.656	-6.341	-12.666	-0.033	-2.938
	43:CIMZ3	2.378	231.508	-2.255	-0.521	0.040	-1.002
	44:CIMZ4	1.076	210.568	-5.974	-9.499	-0.021	-4.819
129	36:CIM	-0.236	340.875	6.645	8.671	0.013	0.528
	37:CIMX1	-0.236	236.351	5.068	7.770	0.088	3.139
	38:CIMX2	-0.552	230.636	3.465	3.348	-0.069	-1.723
	39:CIMX3	-0.156	316.177	6.653	9.555	0.071	2.400
	40:CIMX4	-0.394	311.882	5.448	6.232	-0.047	-1.254
	41:CIMZ1	-0.125	240.331	7.254	13.652	0.060	1.636
	42:CIMZ2	-0.662	226.657	1.279	-2.534	-0.041	-0.220
	43:CIMZ3	-0.073	319.167	8.295	13.975	0.050	1.271
	44:CIMZ4	-0.394	311.882	5.448	6.232	-0.047	-1.254
131	36:CIM	0.491	246.074	1.061	1.026	-0.016	-0.462

Reactions Cont...

Node	L/C	Horizontal FX (Mton)	Vertical FY (Mton)	Horizontal FZ (Mton)	Moment MX (MTon-m)	MY (MTon-m)	MZ (MTon-m)
	37:CIMX1	0.673	176.904	2.016	3.603	0.041	1.994
	38:CIMX2	0.360	162.919	-0.441	-2.047	-0.060	-3.076
	39:CIMX3	0.615	232.288	1.916	3.087	0.024	1.424
	40:CIMX4	0.379	221.779	0.069	-1.159	-0.052	-2.387
	41:CIMZ1	0.718	176.054	4.960	10.640	0.033	0.513
	42:CIMZ2	0.315	163.769	-3.384	-9.084	-0.053	-1.595
	43:CIMZ3	0.648	231.649	4.128	8.375	0.018	0.310
	44:CIMZ4	0.379	221.779	0.069	-1.159	-0.052	-2.387
752	36:CIM	6.662	60.927	24.368	28.637	2.937	-1.198
	37:CIMX1	43.512	50.762	16.844	21.758	1.337	7.367
	38:CIMX2	-32.736	33.440	12.438	12.698	0.599	-8.855
	39:CIMX3	34.992	62.729	23.591	29.189	2.722	5.010
	40:CIMX4	-22.304	49.712	20.280	22.381	2.167	-7.179
	41:CIMZ1	20.710	48.573	20.964	30.243	1.892	2.512
	42:CIMZ2	-9.934	35.629	8.318	4.213	0.043	-4.000
	43:CIMZ3	17.858	61.084	26.687	35.565	3.140	1.362
	44:CIMZ4	-22.304	49.712	20.280	22.381	2.167	-7.179
5414	36:CIM	105.294	307.648	-41.835	7.908	0.366	22.838
	37:CIMX1	202.626	700.297	11.253	21.076	0.419	55.905
	38:CIMX2	-28.802	-194.083	-80.141	-7.905	0.100	-18.358
	39:CIMX3	187.651	630.051	-5.649	18.466	0.459	49.724
	40:CIMX4	13.746	-42.026	-74.326	-3.311	0.220	-6.081
	41:CIMZ1	142.780	449.773	-12.422	11.470	0.635	34.907
	42:CIMZ2	31.044	56.440	-56.466	1.701	-0.116	2.640
	43:CIMZ3	142.680	441.796	-23.439	11.248	0.622	33.945
	44:CIMZ4	13.746	-42.026	-74.326	-3.311	0.220	-6.081
5521	36:CIM	-143.385	1.04E+3	-310.801	143.499	-0.828	-68.916
	37:CIMX1	7.268	2.01E+3	5.015	278.899	2.352	3.113
	38:CIMX2	-249.319	-224.627	-531.069	-33.120	-4.254	-121.718
	39:CIMX3	-41.390	1.84E+3	-97.439	255.579	1.623	-19.611
	40:CIMX4	-234.201	166.843	-500.277	21.114	-3.341	-113.415
	41:CIMZ1	-82.924	1.61E+3	-181.557	237.721	2.155	0.409
	42:CIMZ2	-159.127	172.736	-344.497	8.058	-4.057	-119.014
	43:CIMZ3	-109.165	1.55E+3	-237.638	224.636	1.475	-21.643
	44:CIMZ4	-234.201	166.843	-500.277	21.114	-3.341	-113.415
5565	36:CIM	149.002	840.092	323.523	-68.323	-0.859	34.475
	37:CIMX1	198.029	1.1E+3	435.986	-17.620	3.737	56.863
	38:CIMX2	54.987	317.918	111.704	-100.032	-4.624	1.467
	39:CIMX3	197.123	1.1E+3	432.944	-34.985	2.387	53.961
	40:CIMX4	89.634	512.381	189.263	-96.913	-3.896	12.334
	41:CIMZ1	185.455	1.42E+3	406.875	36.492	2.530	79.126
	42:CIMZ2	67.560	-0.969	140.816	-154.144	-3.417	-20.796
	43:CIMZ3	187.674	1.34E+3	411.068	5.677	1.480	70.690
	44:CIMZ4	89.634	512.381	189.263	-96.913	-3.896	12.334
5581	36:CIM	-14.781	343.814	-82.812	92.633	14.024	15.722
	37:CIMX1	-8.828	362.782	-45.986	102.052	9.733	14.636
	38:CIMX2	-10.108	198.270	-80.778	52.290	8.400	5.186
	39:CIMX3	-12.972	389.803	-64.882	107.465	13.285	17.820
	40:CIMX4	-13.934	266.181	-91.026	70.071	12.284	10.718
	41:CIMZ1	-9.131	437.787	-36.135	135.433	10.423	14.722
	42:CIMZ2	-9.806	123.266	-90.629	18.909	7.710	5.099
	43:CIMZ3	-13.199	446.165	-57.480	132.549	13.804	17.885
	44:CIMZ4	-13.934	266.181	-91.026	70.071	12.284	10.718

Reactions Cont...

Node	L/C	Horizontal FX (Mton)	Vertical FY (Mton)	Horizontal FZ (Mton)	Moment MX (MTon-m)	MY (MTon-m)	MZ (MTon-m)
5587	36:CIM	2.306	340.066	72.762	-104.612	6.621	6.115
	37:CIMX1	3.944	477.389	86.757	-23.198	7.370	10.301
	38:CIMX2	-0.317	87.914	29.617	-154.403	1.726	-3.138
	39:CIMX3	3.784	472.047	90.587	-51.363	8.223	10.531
	40:CIMX4	0.582	179.378	47.650	-149.956	3.982	0.432
	41:CIMZ1	7.119	818.213	134.240	81.899	10.248	11.667
	42:CIMZ2	-3.491	-252.909	-17.866	-259.501	-1.152	-4.504
	43:CIMZ3	6.169	728.157	126.268	27.612	10.386	11.557
	44:CIMZ4	0.582	179.378	47.650	-149.956	3.982	0.432
5797	36:CIM	269.383	756.819	166.241	-48.832	2.546	67.601
	37:CIMX1	365.378	819.339	231.803	-34.345	3.155	68.929
	38:CIMX2	64.537	399.899	33.808	-44.210	0.647	40.640
	39:CIMX3	368.809	877.612	232.273	-42.737	3.327	75.026
	40:CIMX4	142.744	562.425	83.491	-50.150	1.443	53.768
	41:CIMZ1	342.150	766.963	218.707	-34.743	3.664	66.040
	42:CIMZ2	87.765	452.275	46.904	-43.812	0.139	43.529
	43:CIMZ3	351.355	838.254	222.433	-43.036	3.709	72.855
	44:CIMZ4	142.744	562.425	83.491	-50.150	1.443	53.768
5798	36:CIM	-293.856	681.500	-193.328	0.918	-1.581	-7.748
	37:CIMX1	-172.097	905.863	-113.262	12.641	-0.852	9.223
	38:CIMX2	-303.289	193.068	-198.285	-10.054	-1.199	-21.309
	39:CIMX3	-230.524	916.304	-151.994	9.539	-1.311	4.150
	40:CIMX4	-329.107	380.678	-215.885	-7.515	-1.573	-18.793
	41:CIMZ1	-186.695	876.431	-122.437	10.153	-0.912	10.750
	42:CIMZ2	-288.691	222.500	-189.110	-7.567	-1.139	-22.836
	43:CIMZ3	-241.493	894.188	-158.889	7.669	-1.356	5.298
	44:CIMZ4	-329.107	380.678	-215.885	-7.515	-1.573	-18.793
5929	36:CIM	7.405	33.452	7.607	1.802	-3.588	-0.571
	37:CIMX1	177.221	372.213	52.207	19.200	0.038	33.050
	38:CIMX2	-168.127	-322.727	-37.426	-16.076	-4.452	-30.799
	39:CIMX3	136.445	292.379	41.230	14.996	-1.556	23.842
	40:CIMX4	-123.064	-229.830	-26.124	-11.512	-4.930	-24.137
	41:CIMZ1	80.708	164.635	118.161	24.582	-0.563	21.148
	42:CIMZ2	-71.614	-115.149	-103.380	-21.459	-3.851	-18.898
	43:CIMZ3	63.921	136.396	90.790	19.040	-2.007	14.899
	44:CIMZ4	-123.064	-229.830	-26.124	-11.512	-4.930	-24.137
5930	36:CIM	9.639	79.059	7.206	1.932	0.615	-10.762
	37:CIMX1	16.784	215.613	155.512	20.179	1.073	13.087
	38:CIMX2	-4.363	-90.856	-143.269	-16.632	-0.774	-26.718
	39:CIMX3	16.727	190.036	119.194	15.723	1.193	5.180
	40:CIMX4	0.836	-40.259	-105.324	-11.938	-0.195	-24.731
	41:CIMZ1	11.865	175.663	112.652	14.867	1.086	3.176
	42:CIMZ2	0.556	-50.906	-100.409	-11.320	-0.787	-16.807
	43:CIMZ3	13.031	160.016	86.987	11.731	1.203	-2.267
	44:CIMZ4	0.836	-40.259	-105.324	-11.938	-0.195	-24.731
6068	36:CIM	2.470	70.058	17.124	10.431	-3.422	-6.023
	37:CIMX1	10.085	62.552	46.160	12.223	1.568	7.036
	38:CIMX2	-6.225	53.900	-18.934	5.903	-7.088	-16.564
	39:CIMX3	8.463	70.351	40.703	12.464	-0.004	3.159
	40:CIMX4	-3.793	63.849	-8.211	7.715	-6.509	-14.575
	41:CIMZ1	5.828	61.319	62.137	21.451	2.951	-0.211
	42:CIMZ2	-1.968	55.133	-34.912	-3.325	-8.470	-9.317
	43:CIMZ3	5.264	69.424	52.710	19.398	1.035	-2.287

Reactions Cont...

Node	L/C	Horizontal FX (Mton)	Vertical FY (Mton)	Horizontal FZ (Mton)	Moment MX (MTon-m)	MY (MTon-m)	MZ (MTon-m)
	44:CIMZ4	-3.793	63.849	-8.211	7.715	-6.509	-14.575
6069	36:CIM	7.152	65.613	-0.937	39.272	-3.392	-10.161
	37:CIMX1	10.708	72.701	33.792	50.644	-0.878	3.036
	38:CIMX2	0.615	31.451	-29.758	12.090	-4.420	-19.039
	39:CIMX3	10.571	77.727	23.678	51.782	-1.876	-1.327
	40:CIMX4	2.987	46.731	-24.075	22.810	-4.537	-17.915
	41:CIMZ1	11.413	84.982	126.456	100.058	1.631	3.057
	42:CIMZ2	-0.090	19.170	-122.421	-37.323	-6.930	-19.060
	43:CIMZ3	11.101	86.956	93.310	88.913	0.010	-1.311
	44:CIMZ4	2.987	46.731	-24.075	22.810	-4.537	-17.915
6072	36:CIM	48.315	114.527	7.632	4.177	-3.225	3.718
	37:CIMX1	172.543	291.528	28.477	8.439	2.719	21.262
	38:CIMX2	-96.499	-109.532	-14.517	0.957	-8.069	-13.726
	39:CIMX3	146.827	259.332	23.623	7.118	0.965	16.876
	40:CIMX4	-55.343	-42.042	-8.685	1.496	-7.141	-9.415
	41:CIMZ1	86.400	163.033	72.922	19.487	0.593	16.742
	42:CIMZ2	-10.356	18.964	-58.962	-10.090	-5.943	-9.205
	43:CIMZ3	82.095	162.775	57.020	15.420	-0.632	13.479
	44:CIMZ4	-55.343	-42.042	-8.685	1.496	-7.141	-9.415
6356	36:CIM	0.944	44.979	10.391	11.680	3.838	-0.624
	37:CIMX1	25.876	37.744	7.858	10.163	2.784	4.951
	38:CIMX2	-25.653	29.036	5.581	5.083	2.170	-5.501
	39:CIMX3	20.096	45.354	10.329	12.575	3.729	3.390
	40:CIMX4	-18.624	38.810	8.618	8.757	3.267	-4.464
	41:CIMZ1	11.817	36.716	8.923	12.958	3.317	1.852
	42:CIMZ2	-11.594	30.063	4.516	2.288	1.637	-2.403
	43:CIMZ3	9.532	44.581	11.129	14.675	4.129	1.062
	44:CIMZ4	-18.624	38.810	8.618	8.757	3.267	-4.464
6357	36:CIM	-44.179	112.017	12.817	-10.015	-0.237	-2.919
	37:CIMX1	163.160	212.197	109.418	-2.441	1.890	9.274
	38:CIMX2	-238.767	-34.960	-84.188	-11.836	-3.046	-16.058
	39:CIMX3	108.428	199.030	85.509	-5.766	1.533	6.480
	40:CIMX4	-193.598	13.305	-59.976	-12.825	-2.177	-12.555
	41:CIMZ1	33.144	163.787	46.560	-0.775	2.453	6.561
	42:CIMZ2	-108.751	13.451	-21.330	-13.502	-3.609	-13.346
	43:CIMZ3	10.728	162.652	38.274	-4.514	1.956	4.442
	44:CIMZ4	-193.598	13.305	-59.976	-12.825	-2.177	-12.555
6365	36:CIM	-0.259	32.053	0.485	0.683	-0.014	0.356
	37:CIMX1	0.324	28.715	0.617	1.101	0.042	1.376
	38:CIMX2	-0.793	19.379	0.122	-0.061	-0.065	-0.726
	39:CIMX3	0.167	33.559	0.642	1.079	0.027	1.138
	40:CIMX4	-0.672	26.544	0.271	0.206	-0.053	-0.442
	41:CIMZ1	-0.039	25.934	1.015	1.918	0.014	0.672
	42:CIMZ2	-0.430	22.161	-0.276	-0.878	-0.037	-0.021
	43:CIMZ3	-0.106	31.469	0.942	1.693	0.006	0.609
	44:CIMZ4	-0.672	26.544	0.271	0.206	-0.053	-0.442
6366	36:CIM	-0.371	49.273	-0.636	-0.887	-0.016	0.505
	37:CIMX1	-0.067	36.390	-0.099	0.073	0.016	0.687
	38:CIMX2	-0.421	34.256	-0.677	-1.154	-0.037	-0.022
	39:CIMX3	-0.206	46.587	-0.357	-0.340	0.005	0.728
	40:CIMX4	-0.472	44.984	-0.792	-1.262	-0.035	0.196
	41:CIMZ1	-0.168	36.713	0.248	0.793	0.028	0.624
	42:CIMZ2	-0.319	33.933	-1.025	-1.874	-0.048	0.041

Reactions Cont...

Node	L/C	Horizontal FX (Mton)	Vertical FY (Mton)	Horizontal FZ (Mton)	Moment MX (MTon-m)	MY (MTon-m)	MZ (MTon-m)
	43:CIMZ3	-0.282	46.830	-0.096	0.202	0.014	0.681
	44:CIMZ4	-0.472	44.984	-0.792	-1.262	-0.035	0.196
6389	36:CIM	-0.638	16.568	0.128	0.187	-0.003	0.883
	37:CIMX1	-0.025	15.414	0.479	0.906	0.024	1.631
	38:CIMX2	-0.980	10.346	-0.262	-0.590	-0.030	-0.238
	39:CIMX3	-0.245	17.550	0.401	0.742	0.017	1.539
	40:CIMX4	-0.963	13.742	-0.155	-0.383	-0.023	0.134
	41:CIMZ1	-0.190	19.557	1.001	1.898	0.006	1.072
	42:CIMZ2	-0.814	6.202	-0.784	-1.583	-0.012	0.322
	43:CIMZ3	-0.370	20.664	0.794	1.487	0.004	1.118
	44:CIMZ4	-0.963	13.742	-0.155	-0.383	-0.023	0.134
6475	36:CIM	-0.039	12.770	2.436	-6.574	-0.422	-1.751
	37:CIMX1	5.263	20.991	5.171	-3.093	-0.011	-0.807
	38:CIMX2	-5.634	-1.775	-1.791	-6.456	-0.618	-2.038
	39:CIMX3	4.019	20.533	4.866	-4.861	-0.167	-1.206
	40:CIMX4	-4.170	3.426	-0.366	-7.388	-0.623	-2.131
	41:CIMZ1	3.961	28.230	11.057	-2.626	-0.153	-0.061
	42:CIMZ2	-4.332	-9.014	-7.677	-6.924	-0.477	-2.784
	43:CIMZ3	3.040	25.973	9.289	-4.510	-0.274	-0.645
	44:CIMZ4	-4.170	3.426	-0.366	-7.388	-0.623	-2.131
6477	36:CIM	-3.427	35.578	-11.001	16.334	3.845	2.461
	37:CIMX1	26.563	53.804	5.393	17.269	4.459	9.785
	38:CIMX2	-29.056	-6.545	-21.412	5.415	1.125	-7.442
	39:CIMX3	18.015	55.266	-0.182	19.540	4.835	8.611
	40:CIMX4	-23.780	9.916	-20.324	10.632	2.329	-4.334
	41:CIMZ1	12.822	37.567	11.430	13.456	3.368	6.587
	42:CIMZ2	-15.315	9.692	-27.448	9.228	2.217	-4.245
	43:CIMZ3	7.690	43.064	4.355	16.675	4.014	6.208
	44:CIMZ4	-23.780	9.916	-20.324	10.632	2.329	-4.334
6481	36:CIM	-0.179	14.250	1.748	3.018	1.091	1.527
	37:CIMX1	7.649	11.619	1.337	2.473	0.762	2.782
	38:CIMX2	-8.033	9.641	0.791	1.210	0.564	-0.510
	39:CIMX3	5.710	14.088	1.782	3.198	1.059	2.666
	40:CIMX4	-6.075	12.602	1.372	2.249	0.910	0.193
	41:CIMZ1	4.842	13.063	1.487	3.026	0.713	2.732
	42:CIMZ2	-5.226	8.196	0.641	0.657	0.613	-0.460
	43:CIMZ3	3.601	15.174	1.895	3.613	1.022	2.629
	44:CIMZ4	-6.075	12.602	1.372	2.249	0.910	0.193
6483	36:CIM	-8.673	42.689	-3.548	-19.739	-3.092	15.477
	37:CIMX1	-3.877	33.172	5.968	-7.029	-1.103	14.733
	38:CIMX2	-7.727	26.028	-11.073	-20.510	-3.012	5.997
	39:CIMX3	-6.509	42.101	3.104	-13.181	-2.116	17.481
	40:CIMX4	-9.402	36.732	-9.702	-23.311	-3.550	10.917
	41:CIMZ1	-5.137	32.188	18.960	-9.886	-1.093	11.824
	42:CIMZ2	-6.467	27.012	-24.065	-17.653	-3.022	8.906
	43:CIMZ3	-7.456	41.362	12.867	-15.328	-2.108	15.295
	44:CIMZ4	-9.402	36.732	-9.702	-23.311	-3.550	10.917
6489	36:CIM	-6.806	24.770	6.019	-0.856	-6.060	9.252
	37:CIMX1	-3.485	19.435	10.133	1.185	-3.584	8.624
	38:CIMX2	-5.667	15.792	-1.706	-1.911	-4.663	3.753
	39:CIMX3	-5.428	24.350	10.016	0.431	-5.171	10.316
	40:CIMX4	-7.068	21.612	1.120	-1.896	-5.981	6.656
	41:CIMZ1	-4.207	22.449	19.481	2.852	-3.837	7.016

Reactions Cont...

Node	L/C	Horizontal FX (Mton)	Vertical FY (Mton)	Horizontal FZ (Mton)	Moment MX (MTon-m)	MY (MTon-m)	MZ (MTon-m)
	42:CIMZ2	-4.945	12.779	-11.054	-3.577	-4.410	5.361
	43:CIMZ3	-5.971	26.614	17.041	1.683	-5.360	9.108
	44:CIMZ4	-7.068	21.612	1.120	-1.896	-5.981	6.656
6491	36:CIM	-0.139	46.519	0.676	0.938	0.001	0.183
	37:CIMX1	-0.022	32.477	0.540	0.800	0.011	0.246
	38:CIMX2	-0.150	30.383	0.403	0.515	-0.008	-0.021
	39:CIMX3	-0.077	43.533	0.676	0.975	0.008	0.266
	40:CIMX4	-0.173	41.960	0.573	0.760	-0.006	0.065
	41:CIMZ1	-0.064	31.838	0.660	1.033	0.013	0.162
	42:CIMZ2	-0.108	31.021	0.283	0.282	-0.010	0.064
	43:CIMZ3	-0.109	43.054	0.766	1.150	0.010	0.202
	44:CIMZ4	-0.173	41.960	0.573	0.760	-0.006	0.065
6493	36:CIM	-0.076	33.564	0.546	0.756	0.001	0.094
	37:CIMX1	0.019	22.905	0.421	0.613	0.010	0.213
	38:CIMX2	-0.127	22.653	0.342	0.447	-0.007	-0.078
	39:CIMX3	-0.016	30.962	0.535	0.762	0.008	0.197
	40:CIMX4	-0.125	30.773	0.475	0.637	-0.005	-0.022
	41:CIMZ1	-0.027	22.969	0.489	0.746	0.013	0.122
	42:CIMZ2	-0.082	22.588	0.275	0.314	-0.011	0.013
	43:CIMZ3	-0.050	31.011	0.585	0.862	0.011	0.129
	44:CIMZ4	-0.125	30.773	0.475	0.637	-0.005	-0.022
6496	36:CIM	0.508	40.366	-0.549	-0.761	0.000	-0.715
	37:CIMX1	0.375	29.878	-0.132	-0.077	0.011	-0.329
	38:CIMX2	0.264	27.566	-0.558	-0.873	-0.011	-0.572
	39:CIMX3	0.503	38.324	-0.338	-0.390	0.009	-0.558
	40:CIMX4	0.419	36.586	-0.658	-0.988	-0.008	-0.740
	41:CIMZ1	0.388	29.426	-0.006	0.176	0.013	-0.329
	42:CIMZ2	0.251	28.018	-0.684	-1.126	-0.013	-0.572
	43:CIMZ3	0.512	37.984	-0.243	-0.200	0.010	-0.558
	44:CIMZ4	0.419	36.586	-0.658	-0.988	-0.008	-0.740
6497	36:CIM	3.745	85.131	-2.739	-3.649	0.004	-5.221
	37:CIMX1	2.780	61.734	-1.285	-1.899	0.061	-3.387
	38:CIMX2	2.179	55.338	-2.358	-2.926	-0.061	-3.534
	39:CIMX3	3.655	80.886	-2.106	-2.954	0.049	-4.726
	40:CIMX4	3.203	76.079	-2.913	-3.726	-0.043	-4.836
	41:CIMZ1	2.629	61.031	-1.271	-2.187	0.104	-3.375
	42:CIMZ2	2.330	56.041	-2.372	-2.638	-0.104	-3.546
	43:CIMZ3	3.541	80.357	-2.096	-3.170	0.082	-4.717
	44:CIMZ4	3.203	76.079	-2.913	-3.726	-0.043	-4.836
6498	36:CIM	3.168	57.234	-1.502	-1.995	0.013	-4.407
	37:CIMX1	2.526	44.744	-0.834	-0.996	0.039	-2.673
	38:CIMX2	1.742	35.464	-1.136	-1.596	-0.021	-3.270
	39:CIMX3	3.204	56.438	-1.259	-1.595	0.034	-3.824
	40:CIMX4	2.615	49.465	-1.486	-2.046	-0.010	-4.272
	41:CIMZ1	2.296	46.346	-0.660	-1.000	0.076	-2.764
	42:CIMZ2	1.972	33.863	-1.311	-1.592	-0.057	-3.179
	43:CIMZ3	3.031	57.642	-1.128	-1.598	0.062	-3.892
	44:CIMZ4	2.615	49.465	-1.486	-2.046	-0.010	-4.272
6522	36:CIM	1.323	24.771	4.667	6.183	2.240	-1.560
	37:CIMX1	14.053	18.976	3.441	5.100	1.469	1.325
	38:CIMX2	-12.954	17.265	2.329	2.563	1.351	-3.410
	39:CIMX3	11.277	23.751	4.639	6.549	2.077	0.348
	40:CIMX4	-9.017	22.466	3.803	4.642	1.988	-3.210

Reactions Cont...

Node	L/C	Horizontal FX (Mton)	Vertical FY (Mton)	Horizontal FZ (Mton)	Moment MX (MTon-m)	MY (MTon-m)	MZ (MTon-m)
	41:CIMZ1	10.189	18.848	3.684	5.976	1.576	0.526
	42:CIMZ2	-9.090	17.393	2.085	1.688	1.243	-2.611
	43:CIMZ3	8.373	23.655	4.822	7.206	2.158	-0.252
	44:CIMZ4	-9.017	22.466	3.803	4.642	1.988	-3.210

DISEÑO DE CIMENTACIÓN COMBINADA

Proyecto: **UNAL-SGC**

f'c (Kg/cm^2) = 280

NUDO	P (t)	TIPO
23	900.9	SISMO
24	1748.2	SISMO
Σ	**2649.1**	**SISMO**

Tipo	Cant	B (cm)	H (cm)	L (m)	Vol (m^3)	Capacidad	Eficien	0.25f'$_c$*A$_g$	Chequeo
3	3	50	280	55	231.00	2725.0	3%	2940.0	OK

NUDO	P (t)	TIPO
25	1124.9	SISMO
26	1386.2	SISMO
Σ	**2511.1**	**SISMO**

Tipo	Cant	B (cm)	H (cm)	L (m)	Vol (m^3)	Capacidad	Eficien	0.25f'$_c$*A$_g$	Chequeo
3	3	50	280	55	231.00	2725.0	9%	2940.0	OK

NUDO	P (t)	TIPO
27	1159.5	SISMO
28	1410.7	SISMO
Σ	**2570.2**	**SISMO**

Tipo	Cant	B (cm)	H (cm)	L (m)	Vol (m^3)	Capacidad	Eficien	0.25f'$_c$*A$_g$	Chequeo
3	3	50	280	55	231.00	2725.0	6%	2940.0	OK

NUDO	P (t)	TIPO
29	1147.2	SISMO
30	1401.6	SISMO
Σ	**2548.8**	**SISMO**

Tipo	Cant	B (cm)	L (cm)	L (m)	Vol (m^3)	Capacidad	Eficien	0.25f'$_c$*A$_g$	Chequeo
3	3	50	280	55	231.00	2725.0	7%	2940.0	OK

NUDO	P (t)	TIPO
31	1036.3	SISMO
32	1759.3	SISMO
Σ	**2795.5**	**SISMO**

Tipo	Cant	B (cm)	H (cm)	L (m)	Vol (m^3)	Capacidad	Eficien	0.25f'$_c$*A$_g$	Chequeo
3	3	50	280	55	231.00	2725.0	-3%	2940.0	OK

NUDO	P (t)	TIPO
34	1081.3	SISMO
5581	437.6	SISMO
5587	824.0	SISMO
Σ	**2342.9**	**SISMO**

Tipo	Cant	B (cm)	H (cm)	L (m)	Vol (m^3)	Capacidad	Eficien	0.25f'$_c$*A$_g$	Chequeo
3	3	50	280	55	231.00	2725.0	16%	2940.0	OK

NUDO	P (t)	TIPO
1	1424.7	VERTICAL
2	1129.7	VERTICAL
5797	764.2	VERTICAL
5798	682.6	VERTICAL
Σ	**4001.3**	**VERTICAL**

Tipo	Cant	B (cm)	H (cm)	L (m)	Vol (m^3)	Capacidad	Eficien	0.25f'$_c$*A$_g$	Chequeo
3	7	50	280	55	539.00	4628.2	16%	6860.0	OK

NUDO	P (t)	TIPO
5	1245.3	VERTICAL
6	1076.2	VERTICAL
Σ	**2321.5**	**VERTICAL**

Tipo	Cant	B (cm)	H (cm)	L (m)	Vol (m^3)	Capacidad	Eficien	0.25f'$_c$*A$_g$	Chequeo
3	4	50	280	55	308.00	2644.7	14%	3920.0	OK

NUDO	P (t)	TIPO
10	1555.5	VERTICAL
11	1359.5	VERTICAL
Σ	**2915.0**	**VERTICAL**

Tipo	Cant	B (cm)	H (cm)	L (m)	Vol (m^3)	Capacidad	Eficien	0.25f'$_c$*A$_g$	Chequeo
4	3	50	620	55	511.50	3338.6	15%	6510.0	OK

NUDO	P (t)	TIPO
12	1744.6	VERTICAL
13	1570.9	VERTICAL
Σ	**3315.5**	**VERTICAL**

Tipo	Cant	B (cm)	H (cm)	L (m)	Vol (m^3)	Capacidad	Eficien	0.25f'$_c$*A$_g$	Chequeo
4	3	50	620	55	511.50	3338.6	1%	6510.0	OK

NUDO	P (t)	TIPO
14	1575.0	SISMO
16	1952.0	SISMO
Σ	**3527.1**	**SISMO**

Tipo	Cant	B (cm)	H (cm)	L (m)	Vol (m^3)	Capacidad	Eficien	0.25f'$_c$*A$_g$	Chequeo
5	2	50	670	55	368.50	3681.4	4%	4690.0	OK

NUDO	P (t)	TIPO
15	1221.0	SISMO
17	1538.8	SISMO
5521	2107.0	SISMO
5565	1072.2	SISMO
Σ	**5939.1**	**SISMO**

Tipo	Cant	B (cm)	H (cm)	L (m)	Vol (m^3)	Capacidad	Eficien	0.25f'$_c$*A$_g$	Chequeo
6	3	50	700	55	577.50	5752.5	-3%	7350.0	OK

NUDO	P (t)	TIPO
18	796.4	SISMO
19	1901.4	SISMO
20	495.2	SISMO
5414	742.7	SISMO
Σ	**3935.7**	**SISMO**

Tipo	Cant	B (cm)	H (cm)	L (m)	Vol (m^3)	Capacidad	Eficien	0.25f'$_c$*A$_g$	Chequeo
4	3	50	620	55	511.50	4340.2	10%	6510.0	OK

NUDO	P (t)	TIPO
22	370.6	SISMO
6069	83.5	SISMO
Σ	**454.1**	**SISMO**

Tipo	Cant	D (cm)	B (cm)	H (cm)	L (m)	Vol (m^3)	Capacidad	Eficien	$0.25f'_c*A_g$	Chequeo
1	1		40	280	55	61.6	2934			
1	1	60			55	15.6	218.14			
						77.2	3152.1	594%	981.9	OK

NUDO	P (t)	TIPO
21	419.2	VERTICAL
6068	70.3	VERTICAL
Σ	**489.5**	**VERTICAL**

Tipo	Cant	D (cm)	B (cm)	H (cm)	L (m)	Vol (m^3)	Capacidad	Eficien	$0.25f'_c*A_g$	Chequeo
1	1		40	280	55	61.6	1983.5			
1	1	60			55	15.6	167.8			
						77.2	2151.3	340%	981.9	OK

NUDO	P (t)	TIPO
8	373.5	VERTICAL
52	121.3	VERTICAL
Σ	**494.8**	**VERTICAL**

Tipo	Cant	D (cm)	B (cm)	H (cm)	L (m)	Vol (m^3)	Capacidad	Eficien	$0.25f'_c*A_g$	Chequeo
1	1		40	280	55	61.6	1983.5			
1	1	60			55	15.6	167.8			
						77.2	2151.3	335%	981.9	OK

NUDO	P (t)	TIPO
9	360.3	SISMO
119	420.9	SISMO
Σ	**781.2**	**SISMO**

Tipo	Cant	D (cm)	B (cm)	H (cm)	L (m)	Vol (m^3)	Capacidad	Eficien	$0.25f'_c*A_g$	Chequeo
1	2		40	280	55	123.2	5868			
1	1	60			55	15.6	218.14			
						138.8	6086.1	679%	1765.9	OK

DISEÑO DE CIMENTACIÓN - PILOTAJE PREEXCAVADO

Proyecto: **UNAL-SGC**

f'_c (kg/cm^2) = 280

PUNTO STAAD	CARGA SERV (t)	TIPO DE CARGA	TIPO	CANT	DIÁM. (cm)	L (m)	CAPAC. (t)	EFIC (%)	VOLUMNEN (m^3)	0.25f'_c*A_g	Chequeo
7	765.62	VERTICAL	1	5	60	55	839.00	10%	77.75	197.92	OK
127	242.652	VERTICAL	1	2	60	55	335.60	38%	31.10	197.92	OK
129	327.433	VERTICAL	1	2	60	55	335.60	2%	31.10	197.92	OK
131	235.55	VERTICAL	1	2	60	55	335.60	42%	31.10	197.92	OK
5929	380.64	SISMO	1	2	60	55	436.28	15%	31.10	257.30	OK
5930	218.175	SISMO	1	1	60	55	218.14	0%	15.55	257.30	OK
6365	31.934	VERTICAL	1	1	60	33	88.80	178%	9.33	197.92	OK
6366	47.905	VERTICAL	1	1	60	33	88.80	85%	9.33	197.92	OK
6389	16.439	VERTICAL	1	1	60	33	88.80	440%	9.33	197.92	OK

Carga total (t) = 2266.35

Capacidad total (t)= 2766.62

Relación tabajo= 0.82

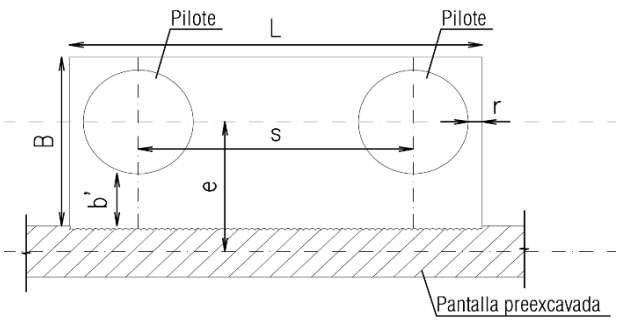
Cantidad pilotes= **17**

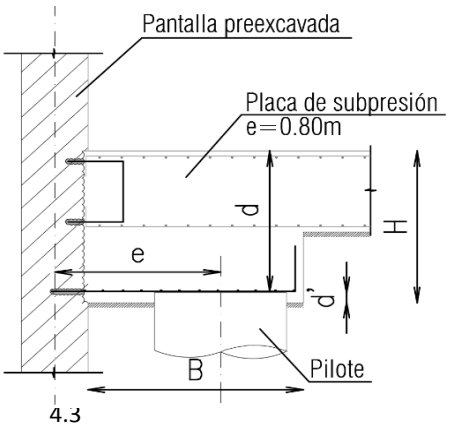
Volumnen total (m^3) = **245.70**

DISEÑO DE DADOS CONCÉNTRICOS AL APOYO

PROYECTO: **UNAL-SGC** CALCULÓ: DCC

DADO TIPO: D2 A D4





4.3

1. Geometría

ϕ_{pil} (cm)	P_{pil} (t)	FC
60	168	1.3

kg/cm² 28
kg/cm² 420
λ = 1

s (cm)	B (cm)	H (cm)	L (cm)	r (cm)	d' (cm)	d (cm)	e (cm)
180	205	120	245	2	10	190	180

2. Chequeo aplastamiento pilote 2.4

ϕ	A_1 (mm2)	A_2 (mm2)	$\sqrt{A_2/A_1}$
0.65	282743	3124200	3.3

$\phi 0.85 f'_c A_1 \sqrt{A_2/A_1}$= 874.8 t CUMPLE

3. Cortante como viga por metro

$V_{(d)}$ (t/m)	$V_{(u)}$ (t/m)	ϕ
137.25	178.43	0.75

Aporte del concreto

$$\phi V_c = \phi 0.17 \lambda \sqrt{f'_c} bd = \quad 128.2 \text{ t/m}$$

Aporte del las barras ancladas

d_{barra} (No)	s (m)	# ramas	A_s (mm/m)	F_u (MPa)
4	0.30	4	2196	550
8	0.15	1	3885	550

$\phi V_s = \phi(0.56 F_u) A_s =$ 0.0018 140.5 t/m

4. Diseño puntal - tensor

7 @.18

L_t (cm)	L_p (cm)	α (°)	Check	C (t)	T (t)
180	262	47	>25 CUMPLE	116	110

Resistencia efectiva del concreto ϕ = 0.75

En C β_n = 1.0 $f_{ce} = 0.85\beta_n f_c$ = 23800 KN/m2

Longitud en la zona nodal en C

β_s = 1.0
L1 = 0.35 m
L2 = 0.29 m

En A y B β_n = 0.8 $f_{ce} = 0.85\beta_n f_c$ = 19040 MPa

Longitud en la zona nodal en A y B

β_s = 0.6
L1 = 0.17 m
L2 = 0.13 m
L3 = 0.21 m

Resistencia nominal a compresión del puntal

$\phi F_{ns} = \phi(0.85\beta_n f_c)\beta_s L_3$ = 180 t > 150 t CUMPLE

Refuerzo tensor

A_s (cm^2)	Colocar	
45	9 #8 cada	15.2 cm

5.Cuantía mínima $\rho_{mín}$= 0.002

De repartición Colocar

$A_{s,mín} = \rho_{mín} H/2$= 12 cm2/m #6 cada 23.7 cm

Zonas a flexión Colocar

$A_{s,mín} = \rho_{mín} H$= 24 cm2/m #7 cada 16.1 cm

6.Cortante por fricción

Avf (mm²/m) = 6080 λ = 1.00
fy (MPa) = 420.00 μ = 1.00

$\phi V_n = \phi A_{vf} f_y \mu$ = **191.5 Ton/m** > **Vu** **Cumple**

7 .Chequeo de anclajes epóxicos

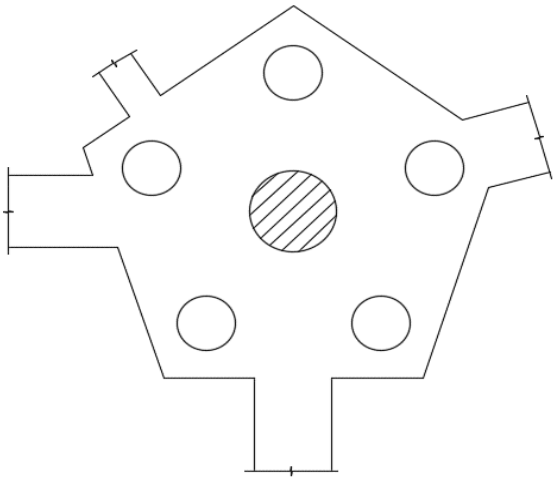
Ver memoria de cálculo HILTI *profis Anchor c*orrespondiente
Se requieren Refuerzo Adicional a tensión

V_{ua} (ton/m)	ΦV$_n$ (ton/m)	Check		S. Long.	S horiz.	
178.43	239.42	**Cumple**	Usar N° 4	cada 20	cada 24	**Según C-D.5.2.9**

DISEÑO DE DADOS CONCÉNTRICOS AL APOYO

PROYECT **UNAL-SGC** CALCULÓ: DCC

DADO TIPO: D5



5 Pilotes ϕ = 0.60 m

Recubrimiento = 0.07 m

P_{REAL} = 766 Ton (carga de la columna)

Pu = 766 x 1.3 = **995.8** Ton

DISEÑO POR EL METODO DE LAS BIELAS :

$$As_{inf} = \frac{Pu\sqrt{2}e}{5 f_y d \phi}$$

(en cada sentido)

donde :

e = 3 ϕ_{pilote} = 1.80 m

f_y = 4200 Kg/cm²

ϕ = 0.9 (coeficiente de reducción de resistencia)

d min. = 0.7e = 1.26 m

d = 1.43 m

H = 1.50 m (altura dado)

Entonces :

As_{inf} = 93.51 cm²

As_{sup} = .0018 (f_{pilote} + 2 Recub + e) H/2

As_{sup} = 26.19 cm²

As_{min} = 0.0018 (f_{pilote} + 2 Recub + e) H

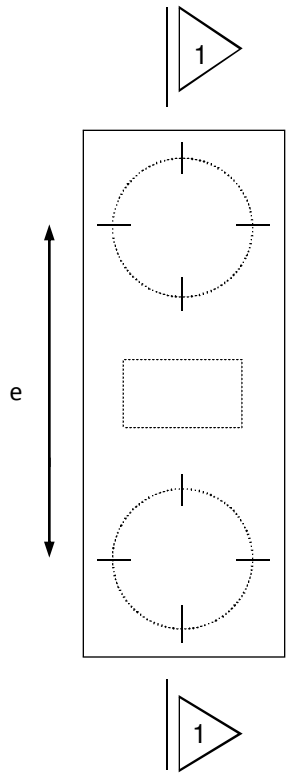
As_{min} = 52.38 cm²

DISEÑO DE DADOS CONCÉNTRICOS AL APOYO

Proyecto: **UNAL-SGC** CALCULÓ: DCC

DADO TIPO: D1

2 Pilotes ϕ= 0.60 m
Recubrimiento : 0.10 m



P_{REAL} = 168 Ton (carga de la columna)
Pu = 168 x 1.3 = **218** Ton

DISEÑO POR EL METODO DE LAS BIELAS :

$$As_{inf} = \frac{Pu\ (2\,e)}{8\ f_y\ d\ \phi}$$

donde :

e = 3 ϕ_{pilote} = **1.80** m
(según estudio de suelos)
kg/cm²
f_y = 4200 kg/cm²
ϕ = 0.75 (coeficiente de reducción de resistencia)

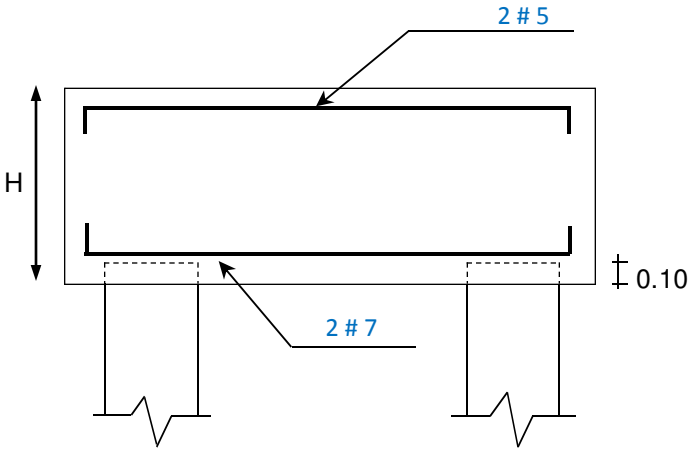
d_{min} = e/2 = 0.90 m
d = **1.10** m (definitivo)
H = **1.20** **m** (altura dado)
B = **0.90** **m** (ancho dado)
L = **2.70** **m**

Entonces :

As inf = **28.36** **cm²**
As mín = **19.44** **cm²**
As mín = **9.72** **cm²**

$As_{mín,inf}$ = 0.0018 (ϕ_{pilote} + 2 Recub.) H
$As_{mín,sup}$ = 0.0018 (ϕ_{pilote} + 2 Recub.) H/2

Detalle de Refuerzo:



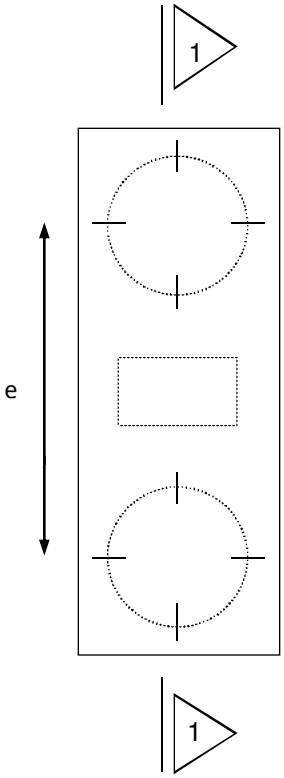
CORTE 1 - 1

DISEÑO DE DADOS CONCÉNTRICOS AL APOYO

Proyecto: **UNAL-SGC** CALCULÓ: DCC

DADO TIPO: D6, D9 Y D13

2 Pilotes ϕ= 0.50 m
Recubrimiento : 0.10 m



P_{REAL} = 674 Ton (carga de la columna)
Pu = 674 x 1.3 = **876** Ton

DISEÑO POR EL METODO DE LAS BIELAS :

$$As_{inf} = \frac{Pu\ (2\,e)}{8\ f_y\ d\ \phi}$$

donde :

e = 4.3 ϕ_{pilote} = **2.15** m
(según estudio de suelos)
kg/cm²
f_y = 4200 kg/cm²
ϕ = 0.75 (coeficiente de reducción de resistencia)

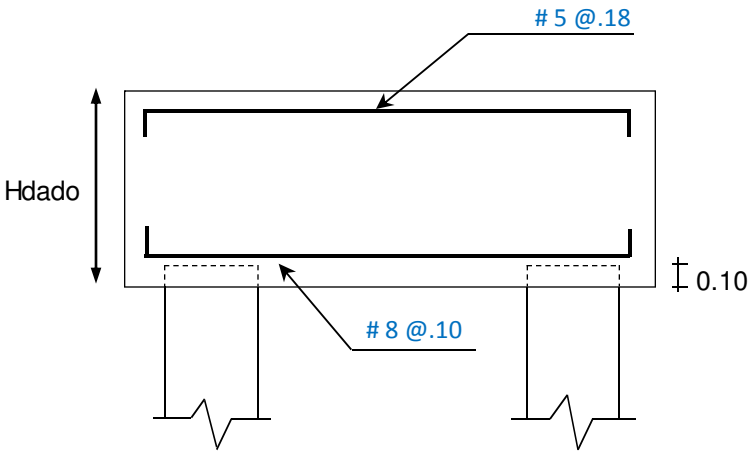
d_{min} = e/2 = 1.08 m
d = 2.40 m (definitivo)
H = 2.50 m (altura dado+muro)
H_{dado} = 1.20 m (altura dado)
B = 2.80 m (ancho dado)
L = 2.85 m

Entonces :

***As inf* =** **62.30** **cm²**
***As mín,inf* =** **21.60** **cm²/m**
***As mín,sup* =** **10.80** **cm²/m**

$As_{mín,inf} = 0.0018 \times H_{dado}$
$As_{mín,sup} = 0.0018 \times H_{dado}/2$

Detalle de Refuerzo:



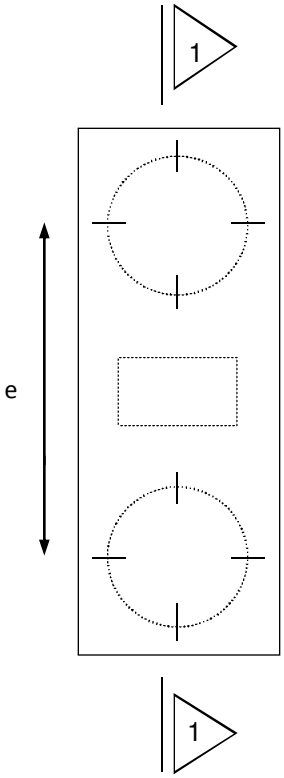
CORTE 1 - 1

DISEÑO DE DADOS CONCÉNTRICOS AL APOYO

Proyecto: **UNAL-SGC** CALCULÓ: DCC

DADO TIPO: D7

2 Pilotes ϕ= 0.50 m
Recubrimiento : 0.10 m



P_{REAL} = 1110 Ton (carga de la columna)
Pu = 1110 x 1.3 = **1443** Ton

DISEÑO POR EL METODO DE LAS BIELAS :

$$As_{inf} = \frac{Pu\ (2\,e)}{8\ f_y\ d\ \phi}$$

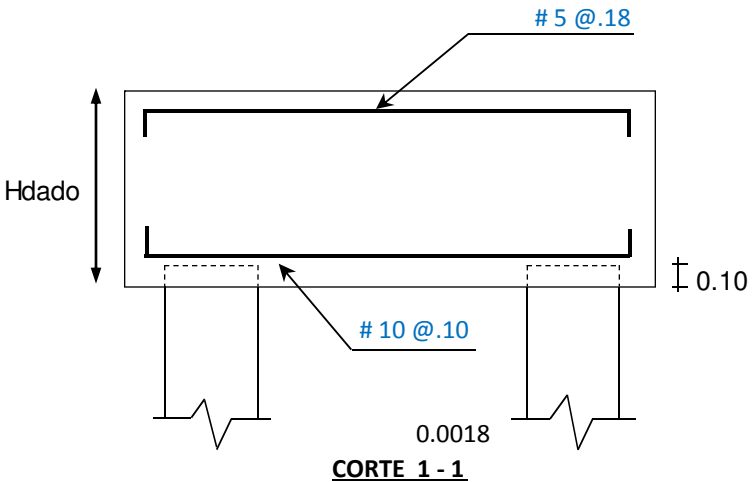
donde :
e = 6 ϕ_{pilote} = **3.00** m
(según estudio de suelos)
kg/cm²
f_y = 4200 kg/cm²
ϕ = 0.75 (coeficiente de reducción de resistencia)

d_{min} = e/2 = 1.50 m
d = 2.90 m (definitivo)
H = 3.00 m (altura dado+muro)
H_{dado} = 1.20 m (altura dado)
B = 6.20 m (ancho dado)
L = 3.70 m

Entonces :
***As inf* =** **118.47** **cm²**
***As mín* =** **21.60** **cm²/m**
***As mín* =** **10.80** **cm²/m**

$As_{mín,inf} = 0.0018 \times H_{dado}$
$As_{mín,sup} = 0.0018 \times H_{dado}/2$

Detalle de Refuerzo:

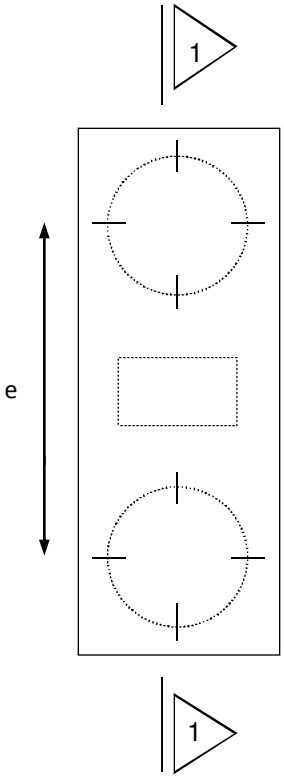


CORTE 1 - 1

DISEÑO DE DADOS CONCÉNTRICOS AL APOYO

Proyecto: **UNAL-SGC** CALCULÓ: DCC

DADO TIPO: D8



2 Pilotes ϕ= 0.50 m
Recubrimiento : 0.10 m

P_{REAL} = 1309 Ton (carga de la columna)
Pu = 1309 x 1.3 = **1702** Ton

DISEÑO POR EL METODO DE LAS BIELAS :

$$As_{inf} = \frac{Pu\ (2\,e)}{8\ f_y\ d\ \phi}$$

donde :

e = 7 ϕ_{pilote} = **3.50** m
(según estudio de suelos)
kg/cm²
f_y = 4200 kg/cm²
ϕ = 0.75 (coeficiente de reducción de resistencia)

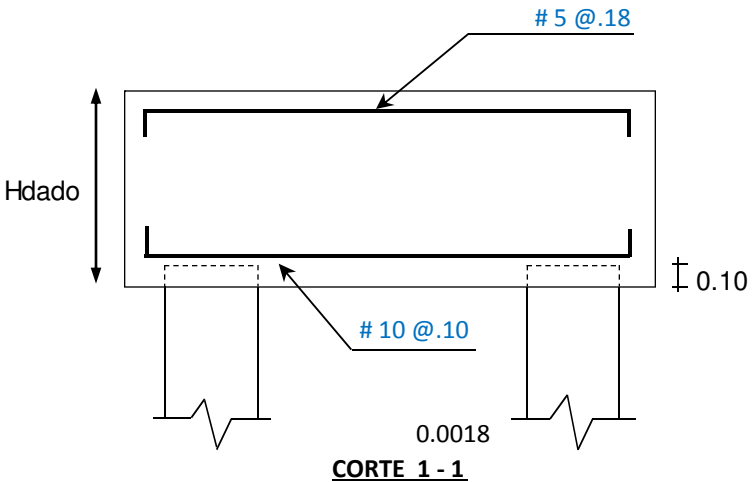
d_{min} = e/2 = 1.75 m
d = 3.40 m (definitivo)
H = 3.50 m (altura dado+muro)
H_{dado} = 1.20 m (altura dado)
B = 6.70 m (ancho dado)
L = 4.20 m

Entonces :

***As inf* = 139.03 cm²**
***As mín* = 21.60 cm²/m**
***As mín* = 10.80 cm²/m**

$As_{mín,inf} = 0.0018 \times H_{dado}$
$As_{mín,sup} = 0.0018 \times H_{dado}/2$

Detalle de Refuerzo:



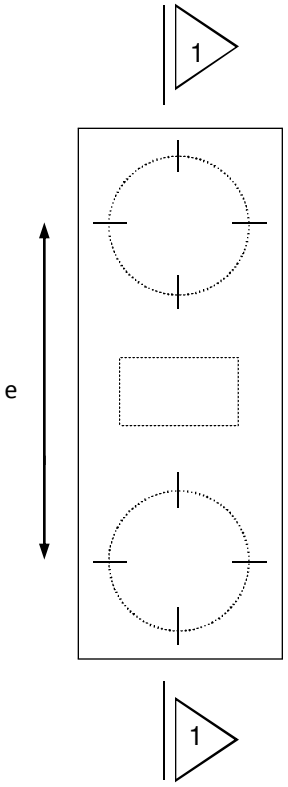
CORTE 1 - 1

DISEÑO DE DADOS CONCÉNTRICOS AL APOYO

Proyecto: **UNAL-SGC** CALCULÓ: DCC

DADO TIPO: D10

2 Pilotes ϕ= 0.50 m
Recubrimiento : 0.10 m



P_{REAL} = 610 t
Pu = 610 x 1.3 = **793 t**

1. DISEÑO POR EL METODO DE LAS BIELAS :

$$As_{inf} = \frac{Pu\ (2e)}{8\ f_y\ d\ \phi}$$

donde :
e = 6 ϕ_{pilote} = **3.00 m**

f_y = 4200 kg/cm²
f'$_c$ = 280 kg/cm²
ϕ = 0.75 (coeficiente de reducción de resistencia)

d_{min} = e/2 = 1.50 m
d = 2.90 m (total)
H = 3.00 m
d_{dado} = 1.40 m (dado)
H_{dado} = 1.50 m (altura dado)
B = 3.50 m (ancho dado)
L = 3.70 m

Entonces :
As $_{inf}$ = **65.11** **cm²**
As $_{mín,inf}$ = **27.00** **cm²/m**
As $_{mín,sup}$ = **13.50** **cm²/m**

$As_{mín,inf} = 0.0018 \times H_{dado}$
$As_{mín,sup} = 0.0018 \times H_{dado}/2$

2. CORTANTE COMO VIGA

ϕ	L_{vol} (m)	V_u (ton)	V_d (ton)
0.75	0.2	793	0

$$\phi V_c = \phi 0.17 \lambda \sqrt{f'_c} bd =$$ ***330.6 t*** **CUMPLE**

3. DISEÑO A FLEXIÓN

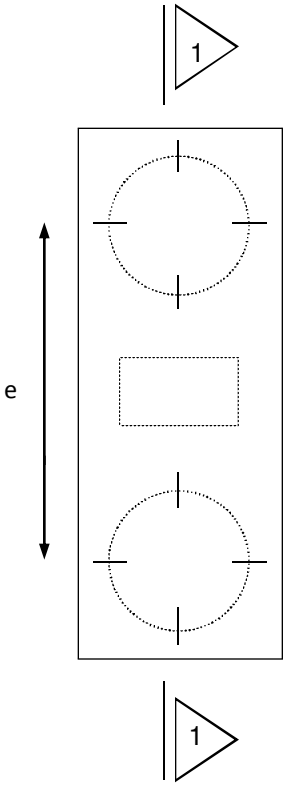
ϕ	M_u (ton-m)	m	k	ρ	A_s (cm²)
0.9	159	17.65	2.57	0.0006	94.50

Colocar **# 8** cada 18 cm

DISEÑO DE DADOS CONCÉNTRICOS AL APOYO

Proyecto: **UNAL-SGC** CALCULÓ: DCC

DADO TIPO: D11



2 Pilotes ϕ= 0.50 m
Recubrimiento : 0.10 m

P_{REAL} = 674 t
Pu = 674 x 1.3 = **876.2 t**

1. DISEÑO POR EL METODO DE LAS BIELAS :

$$As_{inf} = \frac{Pu\ (2e)}{8\ f_y\ d\ \phi}$$

donde :

e = 4.3 ϕ_{pilote} = **2.15 m**

f_y = 4200 kg/cm²
f'$_c$ = 280 kg/cm²
ϕ = 0.75 (coeficiente de reducción de resistencia)

d_{min} = e/2 = 1.08 m
d = 2.40 m (total)
H = 2.50 m
d_{dado} = 2.40 m (dado)
H_{dado} = 2.50 m (altura dado)
B = 2.80 m (ancho dado)
L = 2.85 m

Entonces :

As $_{inf}$ = **62.30** **cm²**

$As_{mín,inf} = 0.0018 \times H_{dado}$ ***As $_{mín,inf}$ =*** **45.00** **cm²/m**

$As_{mín,sup} = 0.0018 \times H_{dado}/2$ ***As $_{mín,sup}$ =*** **22.50** **cm²/m**

2. CORTANTE COMO VIGA

ϕ	L_{vol} (m)	V_u (ton)	V_d (ton)
0.75	0.75	876	0

$$\phi V_c = \phi 0.17 \lambda \sqrt{f'_c} bd =$$ ***453.4 t*** **CUMPLE**

3. DISEÑO A FLEXIÓN

ϕ	M_u (ton-m)	m	k	ρ	A_s (cm²)
0.9	657	17.65	4.53	0.0011	126.00

Colocar **# 10** cada 17 cm

DADO TIPO D12

1 Pilote f = 0.60 m

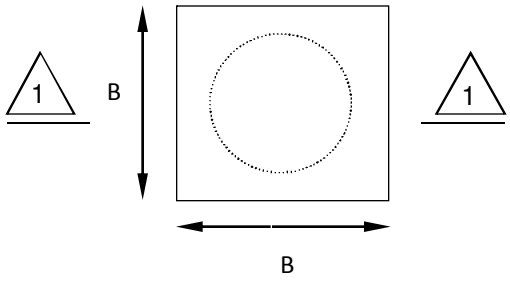
Recubrimiento = 0.10 m

P_{REAL} = 168 Ton (carga de la columna)

Pu = 168 x 1.3 = **218** Ton

B = 0.90 m

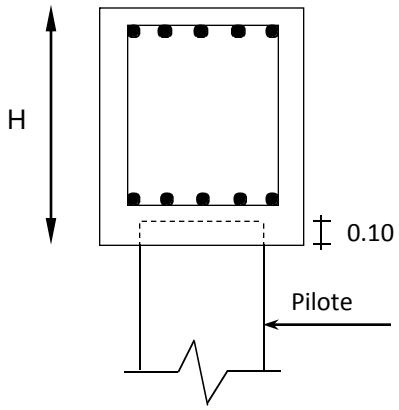
H = 1.20 m (altura dado)



As mín. = 0.0018 x B x H/2

As mín. = **9.72 cm²**

Detalle del Refuerzo:



CORTE 1 - 1

ANÁLISIS INTERACCIÓN SUELO-ESTRUCTURA
DISEÑO CIMENTACIÓN

Para el análisis y diseño de la cimentación se aron dos modelos bajo las siguientes consideraciones:

1. DESCRIPCIÓN MODELOS

MODELO 1:

Geometría

- Elementos tipo frame para vigas y viguetas.
- Elementos tipo frame para pilotes y la mayoría de los barretes, sobre los cuales se aplicó el coeficiente de balasto en cada dirección definido en el estudio de suelos, cada metro (1m).
- Elementos tipo plate para los barretes bajo las pantallas P6, P7 y P15, subdivididos con área máxima de 1.00x1.00m, sobre los cuales se aplicó el coeficiente de balasto en cada dirección definido en el estudio de suelos, cada metro (1m).
- Elementos tipo plate para dados, subdivididos con área máxima de 1.00x1.00m.
- Se despreció el efecto de la pantalla preexcavada y solo se modelaron los barretes perimetrales.

Cargas

Sobre dicho modelo se dispusieron las reacciones vertical y por momento en Y y Z, para los casos de carga muerta (peso propio + sobreimpuesta), viva, sismo en X y en Z, obtenidas del modelo con apoyos rígidos.

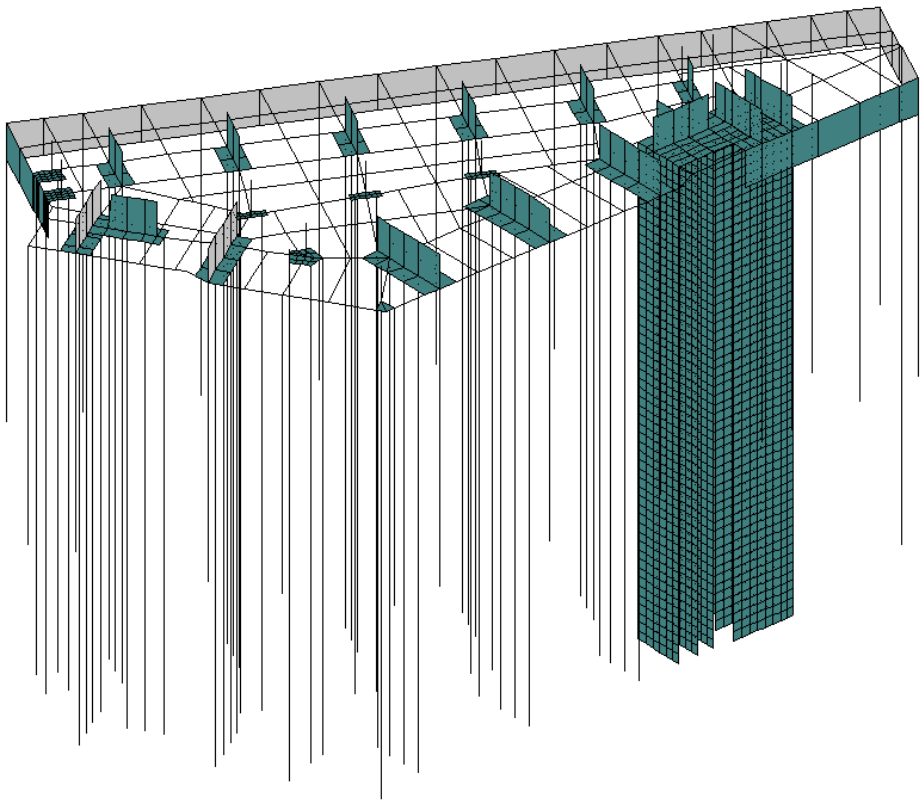


Figura 1: Esquema General del Modelo 1

MODELO 2:

Geometría

- Elementos tipo frame para vigas y viguetas.
- Elementos tipo plate para dados y placa de subpresión, subdivididos con área máxima de 1.00x1.00m.
- Apoyos rígidos articulados de segundo orden en pantallas, muros, pilotes y barretes.

Cargas

Sobre dicho modelo se tuvo en cuenta el peso propio de la placa y el empuje del agua por subpresión de 3 t/m^2 indicada en el estudio de suelos.

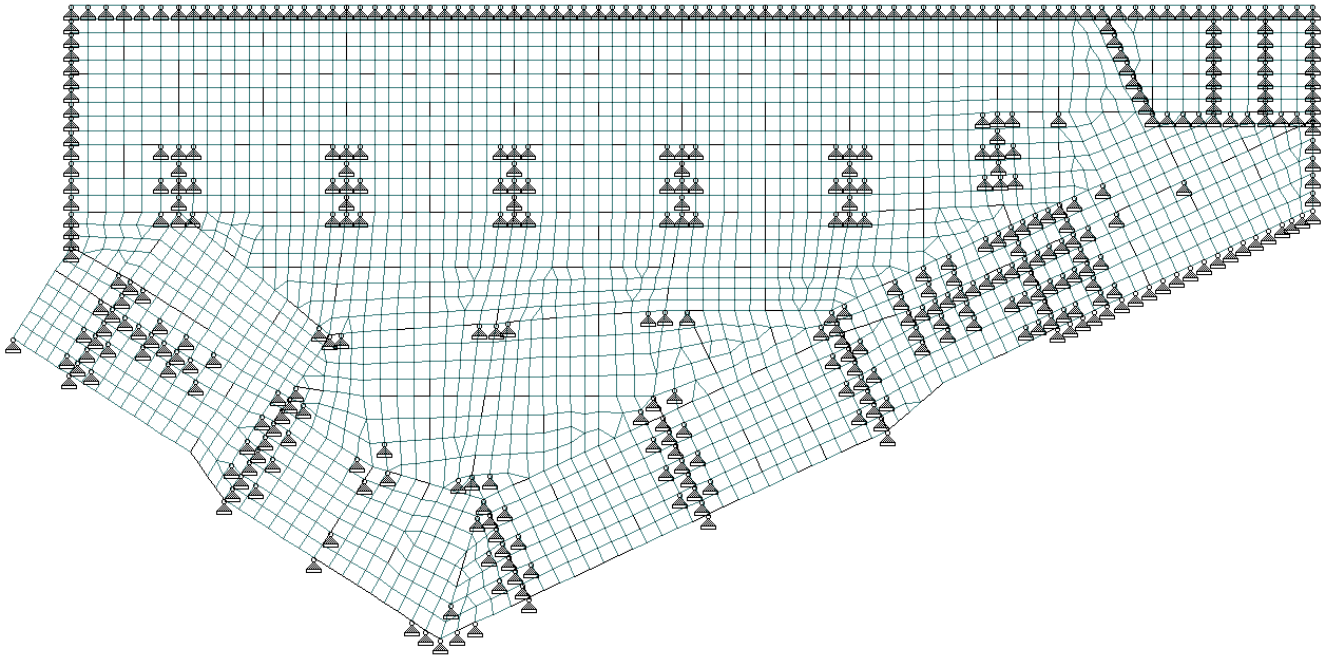


Figura 2: Esquema General del Modelo 2

2. ASENTAMIENTOS

Del modelo 1 se obtuvieron los asentamientos máximos esperados y se confrontaron con los obtenidos por parte del equipo de geotecnia.

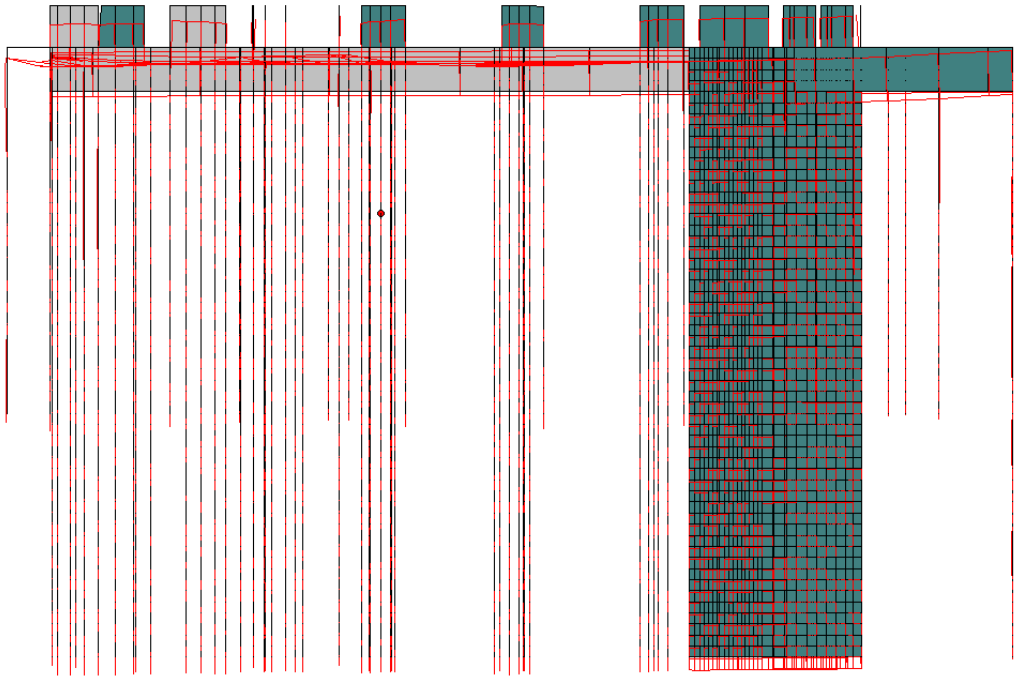


Figura 3: Deformada Modelo 1

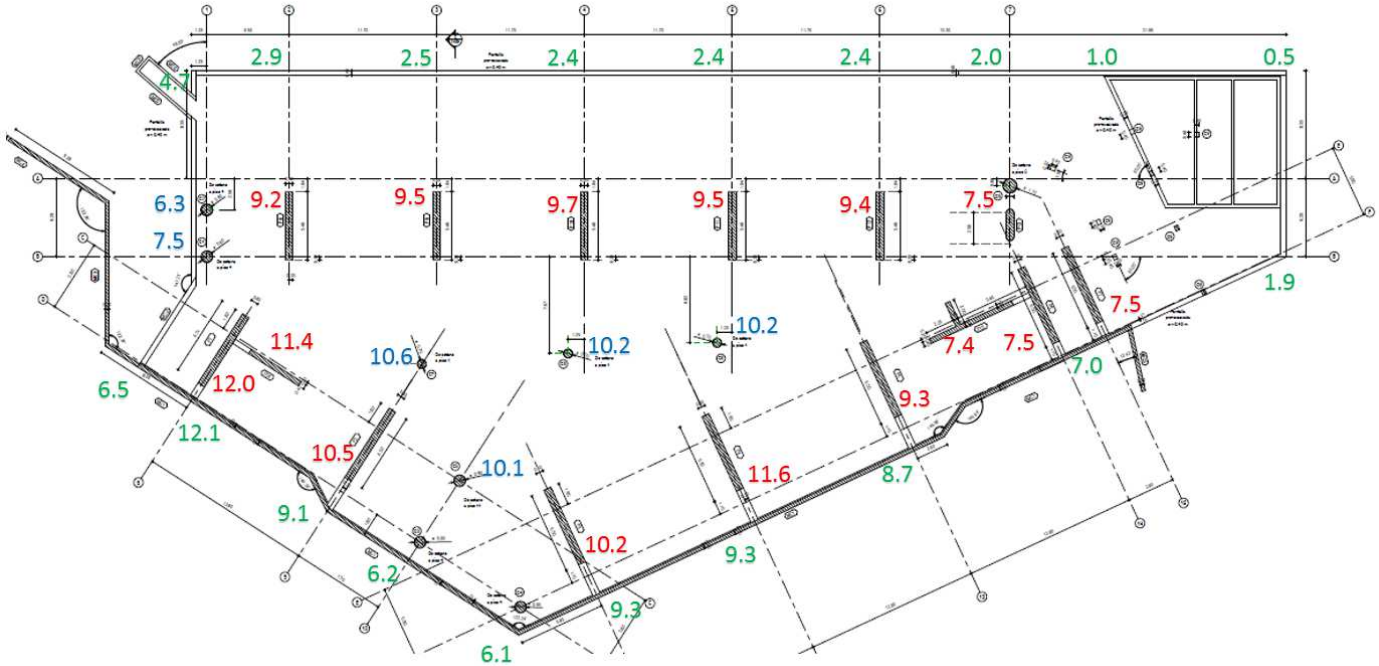


Figura 4: Asentamientos Modelo 1

Los asentamientos obtenidos del modelo de análisis coinciden con los esperados según el estudio de suelos.

3. DISEÑO

Para el diseño de los elementos (vigas y viguetas), se obtuvo la envolvente de los dos modelos.

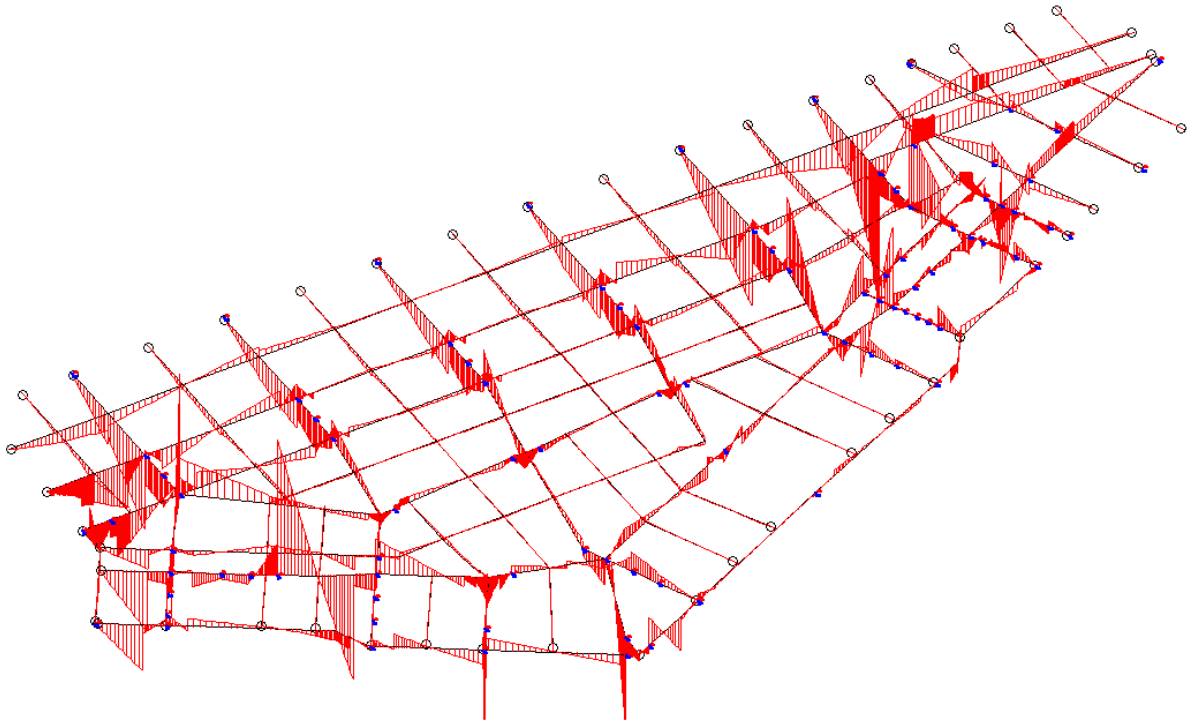


Figura 5: Diagrama de momento Modelo 1

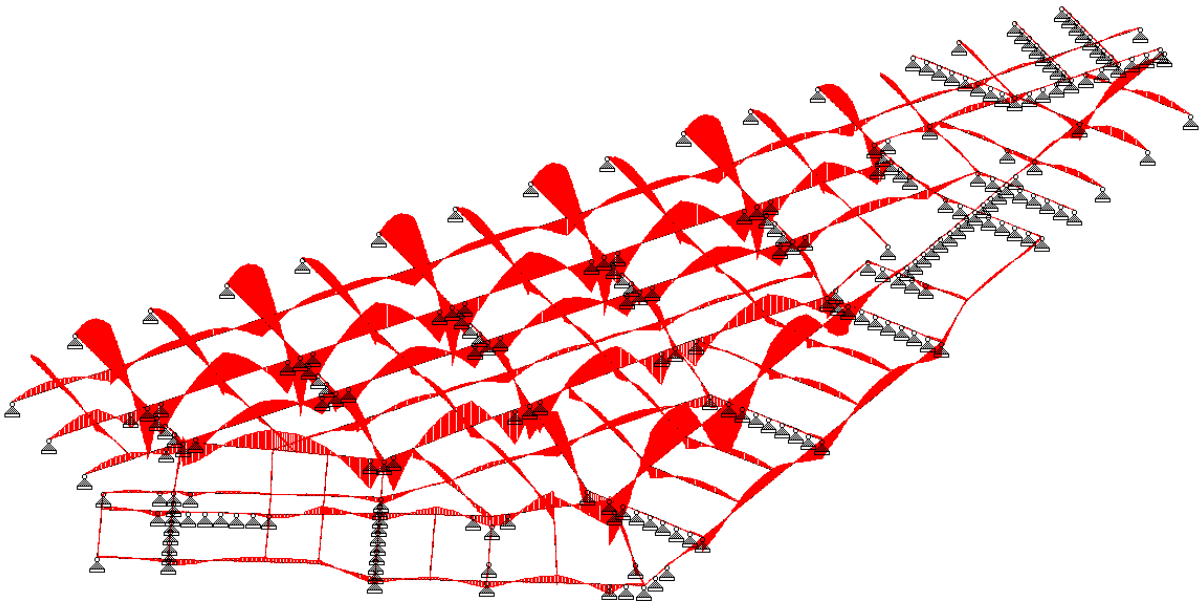
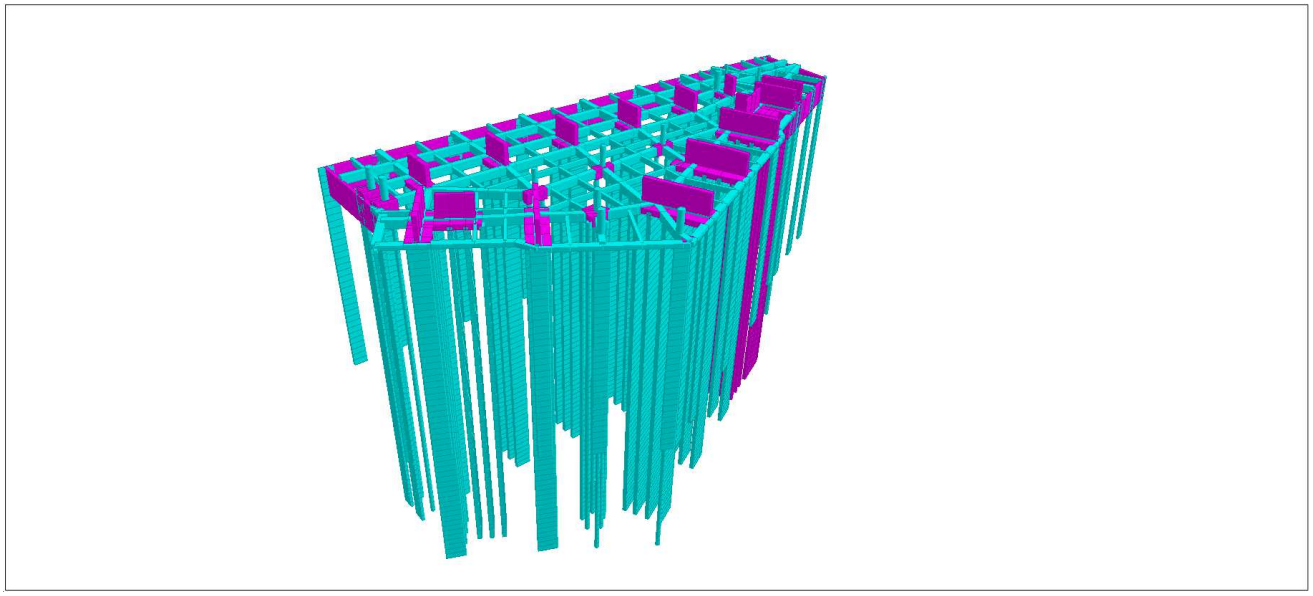
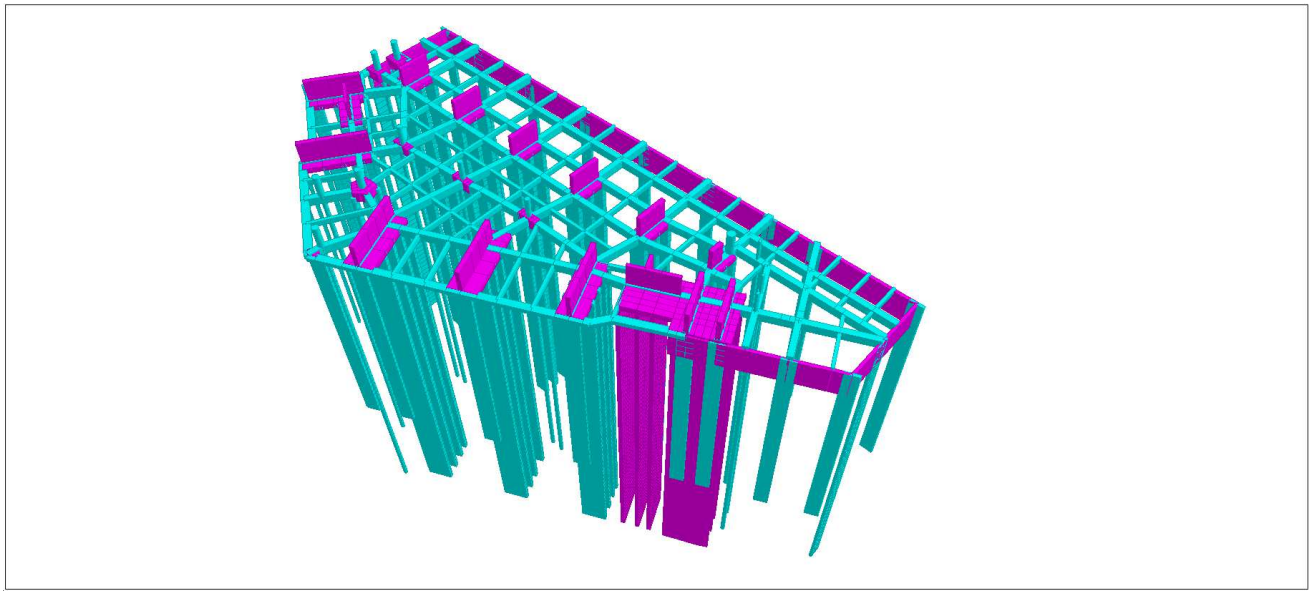


Figura 6: Diagrama de momento Modelo 2



MODELO 1 3D



MODELO 1 3D

Section Properties

Prop	Section	Area (cm^2)	I_{yy} (cm^4)	I_{zz} (cm^4)	J (cm^4)	Material
5	Rect 0.80x0.40	3.2E+3	427E+3	1.71E+6	1.17E+6	CONCRETE
6	Rect 1.20x0.80	9.6E+3	5.12E+6	11.5E+6	12E+6	CONCRETE
7	Cir 0.70	3.85E+3	1.18E+6	1.18E+6	2.36E+6	CONCRETE
8	Rect 2.50x0.60	15E+3	4.5E+6	78.1E+6	15.3E+6	CONCRETE
9	Rect 2.00x0.60	12E+3	3.6E+6	40E+6	11.7E+6	CONCRETE
10	Rect 3.00x0.60	18E+3	5.4E+6	135E+6	18.9E+6	CONCRETE
11	Rect 4.00x0.60	24E+3	7.2E+6	320E+6	26.1E+6	CONCRETE
12	Cir 0.90	6.36E+3	3.22E+6	3.22E+6	6.44E+6	CONCRETE
13	Rect 0.30x0.40	1.2E+3	160E+3	90E+3	194E+3	CONCRETE
14	Cir 1.10	9.5E+3	7.19E+6	7.19E+6	14.4E+6	CONCRETE
15	Rect 2.50x0.40	10E+3	1.33E+6	52.1E+6	4.8E+6	CONCRETE
16	Rect 0.60x1.00	6E+3	5E+6	1.8E+6	4.51E+6	CONCRETE
17	Rect 2.00x0.40	8E+3	1.07E+6	26.7E+6	3.73E+6	CONCRETE
18	Cir 0.60	2.83E+3	636E+3	636E+3	1.27E+6	CONCRETE

Plate Thickness

Prop	Node A (cm)	Node B (cm)	Node C (cm)	Node D (cm)	Material
1	40.000	40.000	40.000	40.000	CONCRETE
2	150.000	150.000	150.000	150.000	CONCRETE
3	60.000	60.000	60.000	60.000	CONCRETE
4	80.000	80.000	80.000	80.000	CONCRETE

Combination Load Cases

Comb.	Combination L/C Name	Primary	Primary L/C Name	Factor
5	COMB1	1	DL	1.40
6	COMB2	1	DL	1.20
		2	LL	1.60
7	COMB3	1	DL	1.20
		2	LL	1.00
		3	EQX	0.25
		4	EQZ	0.07
8	COMB4	1	DL	1.20
		2	LL	1.00
		3	EQX	0.25
		4	EQZ	-0.07
9	COMB5	1	DL	1.20
		2	LL	1.00
		3	EQX	-0.25
		4	EQZ	0.07
10	COMB6	1	DL	1.20
		2	LL	1.00
		3	EQX	-0.25
		4	EQZ	-0.07
11	COMB7	1	DL	1.20
		2	LL	1.00
		3	EQX	0.07
		4	EQZ	0.25
12	COMB8	1	DL	1.20
		2	LL	1.00

Combination Load Cases Cont...

Comb.	Combination L/C Name	Primary	Primary L/C Name	Factor
		3	EQX	0.07
		4	EQZ	-0.25
13	COMB9	1	DL	1.20
		2	LL	1.00
		3	EQX	-0.07
		4	EQZ	0.25
14	COMB10	1	DL	1.20
		2	LL	1.00
		3	EQX	-0.07
		4	EQZ	-0.25
15	COMB11	1	DL	0.90
		3	EQX	0.25
		4	EQZ	0.07
16	COMB12	1	DL	0.90
		3	EQX	0.25
		4	EQZ	-0.07
17	COMB13	1	DL	0.90
		3	EQX	-0.25
		4	EQZ	0.07
18	COMB14	1	DL	0.90
		3	EQX	-0.25
		4	EQZ	-0.07
19	COMB15	1	DL	0.90
		3	EQX	0.07
		4	EQZ	0.25
20	COMB16	1	DL	0.90
		3	EQX	0.07
		4	EQZ	-0.25
21	COMB17	1	DL	0.90
		3	EQX	-0.07
		4	EQZ	0.25
22	COMB18	1	DL	0.90
		3	EQX	-0.07
		4	EQZ	-0.25
23	SERVICIO	1	DL	1.00
		2	LL	1.00

Beam End Forces Envelope

Sign convention is as the action of the joint on the beam.

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
1	1	+ve	10.098	14.866	0.725	45.921	0.000	0.000
			22:COMB	11:COMB3	18:COMB	22:COMB	-	-
			-13.796	-8.909	-1.545	-62.359	0.000	0.000
			11:COMB	22:COMB	7:COMB3	11:COMB	-	-
	291	-ve	10.098	14.866	0.725	45.921	2.669	32.782
			22:COMB	11:COMB3	18:COMB	22:COMB	18:COMB	22:COMB
			-13.796	-8.909	-1.545	-62.359	-5.685	-54.698
			11:COMB	22:COMB	7:COMB3	11:COMB	7:COMB3	11:COMB
2	3	+ve	2.304	3.388	1.652	6.104	0.000	0.000
			9:COMB3	19:COMB	19:COMB	11:COMB	-	-
			0.000	-3.278	-1.838	-4.166	0.000	0.000
			-	14:COMB	14:COMB	22:COMB	-	-
	291	-ve	2.304	3.388	1.652	6.104	7.853	15.585
			9:COMB3	19:COMB	19:COMB	11:COMB	19:COMB	14:COMB
			0.000	-3.278	-1.838	-4.166	-8.738	-16.108
			-	14:COMB	14:COMB	22:COMB	14:COMB	19:COMB
3	5	+ve	14.543	150.554	2.006	16.816	9.412	0.000
			13:COMB	7:COMB3	17:COMB	19:COMB	17:COMB	-
			-6.834	0.000	-3.102	-19.133	-13.069	-39.980
			20:COMB	-	8:COMB3	14:COMB	8:COMB3	6:COMB2
	300	-ve	14.543	150.554	2.006	16.816	10.415	0.000
			13:COMB	7:COMB3	17:COMB	19:COMB	17:COMB	-
			-6.834	0.000	-3.102	-19.133	-14.620	-112.648
			20:COMB	-	8:COMB3	14:COMB	8:COMB3	7:COMB3
4	20	+ve	167.522	62.000	38.828	5.496	21.815	76.300
			15:COMB	11:COMB3	10:COMB	19:COMB	15:COMB	7:COMB3
			-175.139	0.000	-36.059	-32.985	-32.917	-50.400
			10:COMB	-	15:COMB	14:COMB	10:COMB	18:COMB
	7891	-ve	167.522	62.000	38.828	5.496	24.254	21.685
			15:COMB	11:COMB3	10:COMB	19:COMB	17:COMB	15:COMB
			-175.139	0.000	-36.059	-32.985	-31.756	-87.053
			10:COMB	-	15:COMB	14:COMB	8:COMB3	10:COMB
5	310	+ve	40.675	32.725	0.674	34.386	28.732	13.035
			11:COMB	11:COMB3	12:COMB	11:COMB	7:COMB3	19:COMB
			-27.754	-25.578	-0.331	-28.116	-26.931	-12.689
			22:COMB	22:COMB	21:COMB	22:COMB	18:COMB	14:COMB
	7896	-ve	40.675	32.725	0.674	34.386	29.695	103.992
			11:COMB	11:COMB3	12:COMB	11:COMB	7:COMB3	22:COMB
			-27.754	-25.578	-0.331	-28.116	-26.326	-136.227
			22:COMB	22:COMB	21:COMB	22:COMB	18:COMB	11:COMB
10	16	+ve	18.150	4.348	1.092	3.665	0.000	0.000
			7:COMB3	11:COMB3	7:COMB3	22:COMB	-	-
			-15.208	-3.904	-0.937	-5.495	0.000	0.000
			18:COMB	22:COMB	18:COMB	11:COMB	-	-
	279	-ve	18.150	4.348	1.092	3.665	5.191	18.564
			7:COMB3	11:COMB3	7:COMB3	22:COMB	7:COMB3	22:COMB
			-15.208	-3.904	-0.937	-5.495	-4.455	-20.674
			18:COMB	22:COMB	18:COMB	11:COMB	18:COMB	11:COMB

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
11	18	+ve	9.156	8.836	0.342	0.430	0.000	0.000
			7:COMB3	11:COMB3	19:COMB3	19:COMB	-	-
			-5.258	-6.984	-0.621	-1.143	0.000	0.000
			18:COMB3	22:COMB3	14:COMB3	14:COMB	-	-
	281	-ve	9.156	8.836	0.342	0.430	1.628	33.204
			7:COMB3	11:COMB3	19:COMB3	19:COMB	19:COMB3	22:COMB3
			-5.258	-6.984	-0.621	-1.143	-2.954	-42.011
			18:COMB3	22:COMB3	14:COMB3	14:COMB	14:COMB3	11:COMB3
13	22	+ve	8.757	4.343	0.317	1.917	0.000	0.000
			7:COMB3	11:COMB3	18:COMB3	11:COMB3	-	-
			-6.251	-3.209	-0.557	-1.582	0.000	0.000
			18:COMB3	22:COMB3	7:COMB3	22:COMB	-	-
	283	-ve	8.757	4.343	0.317	1.917	1.508	15.256
			7:COMB3	11:COMB3	18:COMB3	11:COMB3	18:COMB3	22:COMB3
			-6.251	-3.209	-0.557	-1.582	-2.650	-20.651
			18:COMB3	22:COMB3	7:COMB3	22:COMB	7:COMB3	11:COMB3
14	24	+ve	0.000	20.007	0.000	9.802	0.000	0.000
			-	11:COMB3	-	11:COMB3	-	-
			-82.791	-14.217	-1.300	-8.172	0.000	0.000
			10:COMB3	22:COMB3	14:COMB3	22:COMB	-	-
	284	-ve	0.000	20.007	0.000	9.802	0.000	67.596
			-	11:COMB3	-	11:COMB3	-	22:COMB3
			-82.791	-14.217	-1.300	-8.172	-6.180	-95.125
			10:COMB3	22:COMB3	14:COMB3	22:COMB	14:COMB3	11:COMB3
15	26	+ve	6.844	2.105	0.389	0.219	0.000	0.000
			11:COMB3	11:COMB3	19:COMB3	19:COMB	-	-
			-4.735	-1.523	-0.549	-0.252	0.000	0.000
			22:COMB3	22:COMB3	14:COMB3	14:COMB	-	-
	285	-ve	6.844	2.105	0.389	0.219	1.848	7.242
			11:COMB3	11:COMB3	19:COMB3	19:COMB	19:COMB3	22:COMB3
			-4.735	-1.523	-0.549	-0.252	-2.609	-10.007
			22:COMB3	22:COMB3	14:COMB3	14:COMB	14:COMB3	11:COMB3
16	28	+ve	0.000	14.626	2.016	1.546	0.000	0.000
			-	11:COMB3	19:COMB3	19:COMB	-	-
			-86.214	-9.799	-3.084	-2.446	0.000	0.000
			10:COMB3	22:COMB3	14:COMB3	14:COMB	-	-
	286	-ve	0.000	14.626	2.016	1.546	9.584	46.590
			-	11:COMB3	19:COMB3	19:COMB	19:COMB3	22:COMB3
			-86.214	-9.799	-3.084	-2.446	-14.661	-69.542
			10:COMB3	22:COMB3	14:COMB3	14:COMB	14:COMB3	11:COMB3
17	30	+ve	6.691	2.040	0.119	0.039	0.000	0.000
			11:COMB3	11:COMB3	11:COMB3	18:COMB	-	-
			-4.869	-1.271	-0.091	-0.149	0.000	0.000
			22:COMB3	22:COMB3	22:COMB3	7:COMB3	-	-
	287	-ve	6.691	2.040	0.119	0.039	0.566	6.043
			11:COMB3	11:COMB3	11:COMB3	18:COMB	11:COMB3	22:COMB3
			-4.869	-1.271	-0.091	-0.149	-0.431	-9.697
			22:COMB3	22:COMB3	22:COMB3	7:COMB3	22:COMB3	11:COMB3

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
18	32	+ve	4.735	5.705	1.467	1.326	0.000	0.000
			11:COMB3	11:COMB3	11:COMB3	22:COMB	-	-
			-2.597	-4.129	-1.427	-1.506	0.000	0.000
			22:COMB	22:COMB3	22:COMB3	11:COMB3	-	-
	289	-ve	4.735	5.705	1.467	1.326	6.977	19.630
			11:COMB3	11:COMB3	11:COMB3	22:COMB	11:COMB3	22:COMB
			-2.597	-4.129	-1.427	-1.506	-6.785	-27.126
			22:COMB	22:COMB3	22:COMB3	11:COMB3	22:COMB3	11:COMB3
19	34	+ve	15.477	33.469	12.419	26.170	0.000	0.000
			19:COMB	11:COMB3	19:COMB3	11:COMB3	-	-
			-80.544	-26.333	-12.573	-18.203	0.000	0.000
			14:COMB	22:COMB3	14:COMB3	22:COMB	-	-
	290	-ve	15.477	33.469	12.419	26.170	59.046	125.203
			19:COMB	11:COMB3	19:COMB3	11:COMB3	19:COMB3	22:COMB
			-80.544	-26.333	-12.573	-18.203	-59.779	-159.132
			14:COMB	22:COMB3	14:COMB3	22:COMB	14:COMB3	11:COMB3
21	328	+ve	302.494	129.939	25.018	25.948	31.110	125.518
			7:COMB3	15:COMB3	18:COMB3	9:COMB3	7:COMB3	13:COMB3
			-270.766	-159.432	-32.581	-16.718	-25.983	-63.177
			18:COMB	10:COMB3	7:COMB3	16:COMB	18:COMB3	20:COMB3
	38	-ve	302.494	129.939	25.018	25.948	51.196	545.187
			7:COMB3	15:COMB3	18:COMB3	9:COMB3	18:COMB3	10:COMB3
			-270.766	-159.432	-32.581	-16.718	-69.398	-391.863
			18:COMB	10:COMB3	7:COMB3	16:COMB	7:COMB3	15:COMB3
22	301	+ve	312.390	323.487	101.475	33.867	135.708	581.664
			8:COMB3	15:COMB3	18:COMB3	14:COMB	7:COMB3	19:COMB3
			-281.578	-365.966	-116.352	-28.180	-114.799	-625.335
			17:COMB	10:COMB3	7:COMB3	19:COMB	18:COMB3	14:COMB3
	329	-ve	312.390	323.487	101.475	33.867	156.719	409.789
			8:COMB3	15:COMB3	18:COMB3	14:COMB	18:COMB3	10:COMB3
			-281.578	-365.966	-116.352	-28.180	-175.618	-339.798
			17:COMB	10:COMB3	7:COMB3	19:COMB	7:COMB3	15:COMB3
24	41	+ve	170.004	35.731	8.055	9.431	0.000	0.000
			8:COMB3	11:COMB3	7:COMB3	11:COMB3	-	-
			-133.268	-29.621	-6.451	-8.289	0.000	0.000
			17:COMB	22:COMB3	18:COMB3	22:COMB	-	-
	7842	-ve	170.004	35.731	8.055	9.431	27.679	101.780
			8:COMB3	11:COMB3	7:COMB3	11:COMB3	7:COMB3	22:COMB3
			-133.268	-29.621	-6.451	-8.289	-22.165	-122.776
			17:COMB	22:COMB3	18:COMB3	22:COMB	18:COMB3	11:COMB3
25	43	+ve	53.302	16.243	35.700	10.834	87.807	118.431
			7:COMB3	7:COMB3	18:COMB3	11:COMB3	7:COMB3	7:COMB3
			0.000	-5.261	-38.875	-2.225	-79.805	-54.835
			-	18:COMB3	7:COMB3	22:COMB	18:COMB3	18:COMB3
	343	-ve	53.302	16.243	35.700	10.834	56.735	60.867
			7:COMB3	7:COMB3	18:COMB3	11:COMB3	18:COMB3	11:COMB3
			0.000	-5.261	-38.875	-2.225	-60.880	-39.273
			-	18:COMB3	7:COMB3	22:COMB	7:COMB3	22:COMB3

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
26	44	+ve	95.522	0.000	22.730	9.930	21.737	23.213
			7:COMB3	-	16:COMB	10:COMB	20:COMB	19:COMB
			-29.276	-47.332	-28.272	-4.753	-24.854	-72.660
			18:COMB	6:COMB2	9:COMB3	15:COMB	13:COMB	14:COMB
	346	-ve	95.522	0.000	22.730	9.930	30.090	32.102
			7:COMB3	-	16:COMB	10:COMB	20:COMB	19:COMB
			-29.276	-47.332	-28.272	-4.753	-36.510	-46.299
			18:COMB	6:COMB2	9:COMB3	15:COMB	13:COMB	14:COMB
27	321	+ve	67.045	7.681	31.458	0.000	18.521	9.171
			10:COMB	15:COMB	7:COMB3	-	18:COMB	10:COMB
			-56.844	-21.385	-29.103	-7.091	-19.808	-7.269
			15:COMB	10:COMB	18:COMB	14:COMB	7:COMB3	15:COMB
	7943	-ve	67.045	7.681	31.458	0.000	33.997	45.749
			10:COMB	15:COMB	7:COMB3	-	7:COMB3	10:COMB
			-56.844	-21.385	-29.103	-7.091	-31.257	-20.407
			15:COMB	10:COMB	18:COMB	14:COMB	18:COMB	15:COMB
28	47	+ve	74.674	5.423	28.186	1.181	18.215	4.289
			22:COMB	11:COMB	11:COMB	19:COMB	22:COMB	13:COMB
			-75.005	-3.221	-28.211	-1.585	-18.440	-3.166
			11:COMB	22:COMB	22:COMB	14:COMB	11:COMB	20:COMB
	327	-ve	74.674	5.423	28.186	1.181	14.479	1.597
			22:COMB	11:COMB	11:COMB	19:COMB	15:COMB	18:COMB
			-75.005	-3.221	-28.211	-1.585	-14.734	-3.030
			11:COMB	22:COMB	22:COMB	14:COMB	10:COMB	7:COMB3
30	44	+ve	69.989	0.000	1.488	10.080	29.405	0.000
			7:COMB3	-	16:COMB	7:COMB3	10:COMB	-
			-52.335	-63.347	-10.928	-6.718	-15.877	-47.367
			18:COMB	7:COMB3	9:COMB3	18:COMB	15:COMB	6:COMB2
	467	-ve	69.989	0.000	1.488	10.080	23.520	0.000
			7:COMB3	-	16:COMB	7:COMB3	10:COMB	-
			-52.335	-63.347	-10.928	-6.718	-15.184	-14.205
			18:COMB	7:COMB3	9:COMB3	18:COMB	15:COMB	6:COMB2
33	38	+ve	0.000	91.909	15.268	4.569	21.237	21.361
			-	7:COMB3	22:COMB	22:COMB	11:COMB	21:COMB
			-297.354	-51.446	-21.823	-6.985	-17.048	-54.090
			7:COMB3	18:COMB	11:COMB	11:COMB	22:COMB	12:COMB
	370	-ve	0.000	91.909	15.268	4.569	8.660	83.599
			-	7:COMB3	22:COMB	22:COMB	22:COMB	18:COMB
			-297.354	-51.446	-21.823	-6.985	-15.507	-184.458
			7:COMB3	18:COMB	11:COMB	11:COMB	11:COMB	7:COMB3
35	54	+ve	24.849	116.558	89.443	57.981	0.000	0.000
			11:COMB	11:COMB	7:COMB3	19:COMB	-	-
			-24.188	-90.414	-74.389	-67.362	0.000	0.000
			22:COMB	22:COMB	18:COMB	14:COMB	-	-
	7843	-ve	24.849	116.558	89.443	57.981	286.255	289.364
			11:COMB	11:COMB	7:COMB3	19:COMB	7:COMB3	22:COMB
			-24.188	-90.414	-74.389	-67.362	-238.078	-373.036
			22:COMB	22:COMB	18:COMB	14:COMB	18:COMB	11:COMB

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
37	375	+ve	374.512	284.743	103.775	16.020	38.291	154.324
			18:COMB	7:COMB3	11:COMB	15:COMB	19:COMB	10:COMB
			-483.246	-158.883	-101.738	-18.695	-50.571	-87.421
			7:COMB3	18:COMB	22:COMB	10:COMB	14:COMB	15:COMB
	7880	-ve	374.512	284.743	103.775	16.020	274.696	502.150
			18:COMB	7:COMB3	11:COMB	15:COMB	19:COMB	18:COMB
			-483.246	-158.883	-101.738	-18.695	-282.318	-722.957
			7:COMB3	18:COMB	22:COMB	10:COMB	14:COMB	7:COMB3
38	7367	+ve	83.725	115.212	1.569	3.986	1.995	0.000
			22:COMB	6:COMB2	8:COMB3	19:COMB	21:COMB	-
			-83.982	0.000	-1.287	-7.999	-3.663	-14.086
			11:COMB	-	17:COMB	14:COMB	12:COMB	13:COMB
	95	-ve	83.725	115.212	1.569	3.986	1.861	0.000
			22:COMB	6:COMB2	8:COMB3	19:COMB	19:COMB	-
			-83.982	0.000	-1.287	-7.999	-3.300	-106.848
			11:COMB	-	17:COMB	14:COMB	14:COMB	11:COMB
39	7833	+ve	53.763	70.226	137.606	18.080	26.994	119.684
			22:COMB	19:COMB	15:COMB	9:COMB3	11:COMB	10:COMB
			-72.112	-125.957	-139.296	0.000	-20.791	-61.641
			11:COMB	14:COMB	10:COMB	-	22:COMB	15:COMB
	7992	-ve	53.763	70.226	137.606	18.080	192.350	272.135
			22:COMB	19:COMB	15:COMB	9:COMB3	7:COMB3	10:COMB
			-72.112	-125.957	-139.296	0.000	-188.221	-145.678
			11:COMB	14:COMB	10:COMB	-	18:COMB	15:COMB
40	375	+ve	74.911	6.015	3.897	1.673	21.370	34.091
			19:COMB	11:COMB	14:COMB	18:COMB	19:COMB	11:COMB
			-106.964	-3.232	-3.770	-4.569	-22.089	-18.320
			14:COMB	22:COMB	19:COMB	7:COMB3	14:COMB	22:COMB
	7127	-ve	74.911	6.015	3.897	1.673	0.000	0.000
			19:COMB	11:COMB	14:COMB	18:COMB	-	-
			-106.964	-3.232	-3.770	-4.569	0.000	0.000
			14:COMB	22:COMB	19:COMB	7:COMB3	-	-
41	371	+ve	25.978	4.831	1.790	6.938	9.351	26.811
			19:COMB	11:COMB	14:COMB	11:COMB	19:COMB	11:COMB
			-29.527	-1.351	-1.685	-5.745	-9.935	-7.497
			14:COMB	22:COMB	19:COMB	22:COMB	14:COMB	22:COMB
	7126	-ve	25.978	4.831	1.790	6.938	0.000	0.000
			19:COMB	11:COMB	14:COMB	11:COMB	-	-
			-29.527	-1.351	-1.685	-5.745	0.000	0.000
			14:COMB	22:COMB	19:COMB	22:COMB	-	-
43	374	+ve	9.875	18.451	45.017	31.728	58.568	21.621
			17:COMB	11:COMB	18:COMB	14:COMB	7:COMB3	11:COMB
			-38.183	-14.944	-49.979	-29.521	-52.753	-17.512
			8:COMB3	22:COMB	7:COMB3	19:COMB	18:COMB	22:COMB
	67	-ve	9.875	18.451	45.017	31.728	0.000	0.000
			17:COMB	11:COMB	18:COMB	14:COMB	-	-
			-38.183	-14.944	-49.979	-29.521	0.000	0.000
			8:COMB3	22:COMB	7:COMB3	19:COMB	-	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
45	69	+ve	0.000	21.539	1.263	6.745	0.000	0.000
			-	11:COMB3	19:COMB3	22:COMB	-	-
			-73.440	-14.009	-1.782	-9.236	0.000	0.000
			6:COMB2	22:COMB3	14:COMB3	11:COMB3	-	-
	288	-ve	0.000	21.539	1.263	6.745	6.003	66.609
			-	11:COMB3	19:COMB3	22:COMB	19:COMB3	22:COMB3
			-73.440	-14.009	-1.782	-9.236	-8.473	-102.412
			6:COMB2	22:COMB3	14:COMB3	11:COMB3	14:COMB3	11:COMB3
46	17	+ve	52.396	21.209	2.314	6.329	3.124	47.264
			7:COMB3	7:COMB3	11:COMB3	11:COMB3	20:COMB3	7:COMB3
			-36.413	-11.368	-1.517	-4.347	-4.891	-27.619
			18:COMB3	18:COMB3	22:COMB3	22:COMB	13:COMB3	18:COMB3
	70	-ve	52.396	21.209	2.314	6.329	6.655	25.653
			7:COMB3	7:COMB3	11:COMB3	11:COMB3	11:COMB3	18:COMB3
			-36.413	-11.368	-1.517	-4.347	-4.688	-52.117
			18:COMB3	18:COMB3	22:COMB3	22:COMB	22:COMB3	7:COMB3
47	72	+ve	25.226	72.761	4.894	11.034	2.392	111.391
			15:COMB3	7:COMB3	9:COMB3	18:COMB	16:COMB3	11:COMB3
			-33.794	-32.068	-1.840	-20.096	-4.214	-62.551
			10:COMB3	18:COMB3	16:COMB3	7:COMB3	9:COMB3	22:COMB3
	383	-ve	25.226	72.761	4.894	11.034	10.457	45.628
			15:COMB3	7:COMB3	9:COMB3	18:COMB	9:COMB3	18:COMB3
			-33.794	-32.068	-1.840	-20.096	-3.123	-118.771
			10:COMB3	18:COMB3	16:COMB3	7:COMB3	16:COMB3	7:COMB3
50	77	+ve	44.183	2.544	0.277	1.207	0.820	10.195
			18:COMB3	19:COMB3	13:COMB3	7:COMB3	16:COMB3	19:COMB3
			-47.224	-4.921	-0.267	-0.703	-0.765	-17.732
			7:COMB3	14:COMB3	20:COMB3	18:COMB	9:COMB3	14:COMB3
	348	-ve	44.183	2.544	0.277	1.207	1.006	10.508
			18:COMB3	19:COMB3	13:COMB3	7:COMB3	11:COMB3	10:COMB3
			-47.224	-4.921	-0.267	-0.703	-0.897	-5.344
			7:COMB3	14:COMB3	20:COMB3	18:COMB	22:COMB3	15:COMB3
52	40	+ve	0.000	60.632	31.525	8.007	30.418	7.180
			-	11:COMB3	14:COMB3	18:COMB	19:COMB3	19:COMB3
			-250.069	-38.938	-23.753	-11.851	-39.479	-81.784
			13:COMB3	22:COMB3	19:COMB3	7:COMB3	14:COMB3	14:COMB3
	60	-ve	0.000	60.632	31.525	8.007	18.674	5.388
			-	11:COMB3	14:COMB3	18:COMB	14:COMB3	22:COMB3
			-250.069	-38.938	-23.753	-11.851	-13.398	-120.012
			13:COMB3	22:COMB3	19:COMB3	7:COMB3	19:COMB3	11:COMB3
54	295	+ve	88.919	24.211	18.793	15.400	63.590	127.721
			7:COMB3	7:COMB3	18:COMB3	15:COMB	7:COMB3	7:COMB3
			-36.068	-16.601	-21.239	-20.722	-54.350	-90.930
			18:COMB3	18:COMB3	7:COMB3	10:COMB	18:COMB3	18:COMB3
	349	-ve	88.919	24.211	18.793	15.400	17.856	64.002
			7:COMB3	7:COMB3	18:COMB3	15:COMB	18:COMB3	19:COMB3
			-36.068	-16.601	-21.239	-20.722	-18.016	-56.450
			18:COMB3	18:COMB3	7:COMB3	10:COMB	7:COMB3	14:COMB3

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
60	95	+ve	26.321	0.000	37.169	7.317	1.115	0.000
			11:COMB3	-	19:COMB3	18:COMB	18:COMB3	-
			-24.304	-133.607	-40.522	-8.520	-1.431	-87.771
			22:COMB	11:COMB3	14:COMB3	7:COMB3	7:COMB3	6:COMB2
	7366	-ve	26.321	0.000	37.169	7.317	26.193	21.095
			11:COMB3	-	19:COMB3	18:COMB	19:COMB3	11:COMB3
			-24.304	-133.607	-40.522	-8.520	-28.924	-14.167
			22:COMB	11:COMB3	14:COMB3	7:COMB3	14:COMB3	22:COMB
62	60	+ve	152.736	3.541	10.382	7.655	39.538	38.645
			11:COMB3	15:COMB3	18:COMB3	14:COMB	11:COMB3	15:COMB3
			-92.504	-31.038	-24.816	-2.153	-22.611	-68.492
			22:COMB	10:COMB3	7:COMB3	19:COMB	22:COMB3	10:COMB3
	7929	-ve	152.736	3.541	10.382	7.655	6.252	50.830
			11:COMB3	15:COMB3	18:COMB3	14:COMB	18:COMB3	11:COMB3
			-92.504	-31.038	-24.816	-2.153	-29.131	-4.847
			22:COMB	10:COMB3	7:COMB3	19:COMB	7:COMB3	22:COMB
63	93	+ve	16.973	2.267	5.864	0.766	11.217	7.130
			15:COMB	22:COMB3	10:COMB3	19:COMB	15:COMB3	18:COMB3
			-38.144	-3.985	-4.690	-1.559	-14.068	-10.354
			10:COMB	11:COMB3	15:COMB3	14:COMB	10:COMB3	7:COMB3
	347	-ve	16.973	2.267	5.864	0.766	12.113	10.461
			15:COMB	22:COMB3	10:COMB3	19:COMB	14:COMB3	11:COMB3
			-38.144	-3.985	-4.690	-1.559	-9.746	-6.051
			10:COMB	11:COMB3	15:COMB3	14:COMB	19:COMB3	22:COMB
66	319	+ve	74.565	12.047	16.378	10.829	27.056	2.455
			19:COMB	19:COMB3	15:COMB3	9:COMB3	14:COMB3	15:COMB3
			-70.863	-33.375	-19.375	-7.109	-13.783	-9.147
			14:COMB	14:COMB3	10:COMB3	16:COMB	19:COMB3	10:COMB3
	7916	-ve	74.565	12.047	16.378	10.829	59.792	130.425
			19:COMB	19:COMB3	15:COMB3	9:COMB3	7:COMB3	14:COMB3
			-70.863	-33.375	-19.375	-7.109	-58.996	-48.345
			14:COMB	14:COMB3	10:COMB3	16:COMB	18:COMB3	19:COMB3
67	99	+ve	92.521	77.065	42.256	10.985	87.952	202.178
			10:COMB	22:COMB3	18:COMB3	18:COMB	7:COMB3	22:COMB3
			-70.415	-171.991	-42.581	-27.274	-86.633	-453.250
			15:COMB	11:COMB3	7:COMB3	7:COMB3	18:COMB3	11:COMB3
	383	-ve	92.521	77.065	42.256	10.985	51.456	115.168
			10:COMB	22:COMB3	18:COMB3	18:COMB	18:COMB3	7:COMB3
			-70.415	-171.991	-42.581	-27.274	-51.199	-56.027
			15:COMB	11:COMB3	7:COMB3	7:COMB3	7:COMB3	18:COMB3
69	370	+ve	100.830	1.593	7.704	1.669	0.000	0.000
			14:COMB	18:COMB3	6:COMB2	22:COMB	-	-
			-41.116	-54.234	0.000	-5.876	-12.740	-71.227
			19:COMB	7:COMB3	-	11:COMB3	12:COMB3	13:COMB3
	7954	-ve	100.830	1.593	7.704	1.669	5.232	54.742
			14:COMB	18:COMB3	6:COMB2	22:COMB	13:COMB3	8:COMB3
			-41.116	-54.234	0.000	-5.876	-1.870	-39.779
			19:COMB	7:COMB3	-	11:COMB3	20:COMB3	17:COMB3

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
71	181	+ve	81.485	5.706	1.964	0.357	4.772	16.932
			18:COMB	11:COMB3	18:COMB	15:COMB	7:COMB3	13:COMB
			-87.195	-3.474	-2.153	-0.670	-4.357	-6.326
			7:COMB3	22:COMB	7:COMB3	10:COMB	18:COMB	20:COMB
	385	-ve	81.485	5.706	1.964	0.357	7.329	16.021
			18:COMB	11:COMB3	18:COMB	15:COMB	18:COMB	14:COMB
			-87.195	-3.474	-2.153	-0.670	-8.036	-18.698
			7:COMB3	22:COMB	7:COMB3	10:COMB	7:COMB3	19:COMB
73	70	+ve	85.926	66.896	229.113	62.742	149.608	35.396
			7:COMB3	16:COMB	18:COMB	9:COMB3	7:COMB3	21:COMB
			-71.393	-65.954	-249.955	-47.640	-139.212	-55.958
			18:COMB	9:COMB3	7:COMB3	16:COMB	18:COMB	12:COMB
	687	-ve	85.926	66.896	229.113	62.742	224.500	110.901
			7:COMB3	16:COMB	18:COMB	9:COMB3	18:COMB	17:COMB
			-71.393	-65.954	-249.955	-47.640	-247.190	-132.957
			18:COMB	9:COMB3	7:COMB3	16:COMB	7:COMB3	8:COMB3
74	102	+ve	120.840	23.637	10.043	9.669	35.515	62.710
			18:COMB	11:COMB3	17:COMB	7:COMB3	8:COMB3	9:COMB3
			-172.758	0.000	-22.708	-5.661	-14.100	-19.882
			7:COMB3	-	8:COMB3	18:COMB	17:COMB	16:COMB
	419	-ve	120.840	23.637	10.043	9.669	10.254	26.618
			18:COMB	11:COMB3	17:COMB	7:COMB3	17:COMB	18:COMB
			-172.758	0.000	-22.708	-5.661	-19.555	-48.228
			7:COMB3	-	8:COMB3	18:COMB	8:COMB3	7:COMB3
76	39	+ve	54.198	105.550	14.226	16.284	11.860	31.470
			18:COMB	11:COMB3	14:COMB	7:COMB3	11:COMB	13:COMB
			-221.806	-37.949	-13.969	-9.494	-9.494	-24.273
			7:COMB3	22:COMB	19:COMB	18:COMB	22:COMB	20:COMB
	685	-ve	54.198	105.550	14.226	16.284	11.759	55.362
			18:COMB	11:COMB3	14:COMB	7:COMB3	10:COMB	18:COMB
			-221.806	-37.949	-13.969	-9.494	-9.022	-146.063
			7:COMB3	22:COMB	19:COMB	18:COMB	15:COMB	7:COMB3
92	299	+ve	46.093	11.459	56.889	23.342	29.948	0.000
			17:COMB	13:COMB	17:COMB	11:COMB	17:COMB	-
			-52.336	-4.312	-76.113	-13.236	-40.240	-100.081
			8:COMB3	20:COMB	8:COMB3	22:COMB	8:COMB3	8:COMB3
	139	-ve	46.093	11.459	56.889	23.342	58.392	0.000
			17:COMB	13:COMB	17:COMB	11:COMB	17:COMB	-
			-52.336	-4.312	-76.113	-13.236	-78.297	-101.980
			8:COMB3	20:COMB	8:COMB3	22:COMB	8:COMB3	7:COMB3
128	211	+ve	118.088	5.342	9.709	0.197	18.624	15.236
			7:COMB3	11:COMB3	18:COMB	10:COMB	7:COMB3	9:COMB3
			-108.748	-2.260	-10.514	-0.586	-17.184	-6.283
			18:COMB	22:COMB	7:COMB3	15:COMB	18:COMB	16:COMB
	386	-ve	118.088	5.342	9.709	0.197	20.521	17.770
			7:COMB3	11:COMB3	18:COMB	10:COMB	18:COMB	10:COMB
			-108.748	-2.260	-10.514	-0.586	-22.207	-20.785
			18:COMB	22:COMB	7:COMB3	15:COMB	7:COMB3	15:COMB

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
181	279	+ve	14.592	8.110	8.383	25.353	16.554	35.119
			17:COMB	22:COMB	18:COMB	11:COMB	15:COMB	19:COMB
			-15.615	-13.990	-9.392	-13.830	-15.863	-30.744
			8:COMB3	11:COMB	7:COMB3	22:COMB	10:COMB	14:COMB
	2	-ve	14.592	8.110	8.383	25.353	28.233	108.439
			17:COMB	22:COMB	18:COMB	11:COMB	18:COMB	11:COMB
			-15.615	-13.990	-9.392	-13.830	-32.844	-73.156
			8:COMB3	11:COMB	7:COMB3	22:COMB	7:COMB3	22:COMB
182	280	+ve	16.667	31.105	6.849	48.600	34.028	100.044
			18:COMB	22:COMB	22:COMB	11:COMB	11:COMB	22:COMB
			-19.079	-38.308	-9.330	-35.644	-25.610	-125.661
			7:COMB3	11:COMB	11:COMB	22:COMB	22:COMB	11:COMB
	279	-ve	16.667	31.105	6.849	48.600	8.078	38.424
			18:COMB	22:COMB	22:COMB	11:COMB	16:COMB	19:COMB
			-19.079	-38.308	-9.330	-35.644	-10.287	-33.197
			7:COMB3	11:COMB	11:COMB	22:COMB	9:COMB3	14:COMB
183	281	+ve	11.093	16.567	2.759	8.302	11.140	33.468
			18:COMB	11:COMB	11:COMB	14:COMB	12:COMB	22:COMB
			-13.771	-15.782	-2.276	-0.642	-7.371	-47.299
			7:COMB3	22:COMB	22:COMB	19:COMB	21:COMB	11:COMB
	280	-ve	11.093	16.567	2.759	8.302	9.449	114.554
			18:COMB	11:COMB	11:COMB	14:COMB	7:COMB3	22:COMB
			-13.771	-15.782	-2.276	-0.642	-3.198	-132.423
			7:COMB3	22:COMB	22:COMB	19:COMB	18:COMB	11:COMB
184	282	+ve	9.749	9.445	9.556	6.227	18.287	4.688
			18:COMB	19:COMB	12:COMB	14:COMB	21:COMB	21:COMB
			-11.470	-9.196	-5.678	-0.316	-30.521	-18.055
			7:COMB3	14:COMB	21:COMB	19:COMB	12:COMB	12:COMB
	281	-ve	9.749	9.445	9.556	6.227	18.809	33.653
			18:COMB	19:COMB	12:COMB	14:COMB	12:COMB	22:COMB
			-11.470	-9.196	-5.678	-0.316	-11.027	-48.306
			7:COMB3	14:COMB	21:COMB	19:COMB	21:COMB	11:COMB
185	283	+ve	11.026	5.476	5.117	8.832	20.040	4.865
			18:COMB	11:COMB	10:COMB	22:COMB	15:COMB	19:COMB
			-11.970	-4.202	-3.840	-9.286	-22.737	-10.180
			7:COMB3	22:COMB	15:COMB	11:COMB	10:COMB	14:COMB
	282	-ve	11.026	5.476	5.117	8.832	9.553	15.802
			18:COMB	11:COMB	10:COMB	22:COMB	9:COMB3	22:COMB
			-11.970	-4.202	-3.840	-9.286	-4.768	-28.579
			7:COMB3	22:COMB	15:COMB	11:COMB	16:COMB	11:COMB
186	284	+ve	8.225	6.039	12.582	7.771	39.761	37.688
			18:COMB	11:COMB	15:COMB	22:COMB	18:COMB	11:COMB
			-8.842	-3.229	-11.978	-10.750	-43.500	-26.699
			7:COMB3	22:COMB	10:COMB	11:COMB	7:COMB3	22:COMB
	283	-ve	8.225	6.039	12.582	7.771	30.596	3.678
			18:COMB	11:COMB	15:COMB	22:COMB	15:COMB	19:COMB
			-8.842	-3.229	-11.978	-10.750	-30.788	-9.182
			7:COMB3	22:COMB	10:COMB	11:COMB	10:COMB	14:COMB

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
187	285	+ve	6.893	0.847	8.360	1.872	14.278	4.579
			22:COMB	20:COMB	10:COMB	14:COMB	15:COMB	19:COMB
			-8.250	-2.407	-7.035	-0.543	-17.608	-5.953
			11:COMB	13:COMB	15:COMB	19:COMB	10:COMB	14:COMB
	284	-ve	6.893	0.847	8.360	1.872	31.058	18.245
			22:COMB	20:COMB	10:COMB	14:COMB	10:COMB	11:COMB
			-8.250	-2.407	-7.035	-0.543	-26.672	-10.538
			11:COMB	13:COMB	15:COMB	19:COMB	15:COMB	22:COMB
188	286	+ve	6.885	1.295	3.180	0.510	8.308	4.830
			22:COMB	12:COMB	15:COMB	22:COMB	9:COMB3	8:COMB3
			-8.300	-0.711	-3.549	-1.217	-8.444	-2.815
			11:COMB	21:COMB	10:COMB	11:COMB	16:COMB	17:COMB
	285	-ve	6.885	1.295	3.180	0.510	12.500	4.536
			22:COMB	12:COMB	15:COMB	22:COMB	15:COMB	19:COMB
			-8.300	-0.711	-3.549	-1.217	-14.794	-5.940
			11:COMB	21:COMB	10:COMB	11:COMB	10:COMB	14:COMB
189	287	+ve	8.674	2.203	8.011	1.868	20.103	8.456
			22:COMB	19:COMB	10:COMB	7:COMB3	15:COMB	19:COMB
			-11.867	-3.020	-6.718	-0.487	-25.667	-10.358
			11:COMB	14:COMB	15:COMB	18:COMB	10:COMB	14:COMB
	286	-ve	8.674	2.203	8.011	1.868	21.291	7.344
			22:COMB	19:COMB	10:COMB	7:COMB3	10:COMB	14:COMB
			-11.867	-3.020	-6.718	-0.487	-19.275	-4.455
			11:COMB	14:COMB	15:COMB	18:COMB	15:COMB	19:COMB
190	288	+ve	7.364	4.259	6.502	0.518	26.396	33.095
			22:COMB	11:COMB	15:COMB	15:COMB	10:COMB	11:COMB
			-11.261	-3.074	-9.412	-1.242	-16.819	-27.845
			11:COMB	22:COMB	10:COMB	10:COMB	15:COMB	22:COMB
	287	-ve	7.364	4.259	6.502	0.518	21.142	8.713
			22:COMB	11:COMB	15:COMB	15:COMB	15:COMB	19:COMB
			-11.261	-3.074	-9.412	-1.242	-28.554	-10.381
			11:COMB	22:COMB	10:COMB	10:COMB	10:COMB	14:COMB
191	289	+ve	7.360	6.559	2.698	5.849	11.689	0.000
			22:COMB	22:COMB	14:COMB	11:COMB	22:COMB	-
			-13.484	-8.841	-0.605	-4.637	-18.197	-2.839
			11:COMB	11:COMB	19:COMB	22:COMB	11:COMB	5:COMB1
	288	-ve	7.360	6.559	2.698	5.849	25.241	48.972
			22:COMB	22:COMB	14:COMB	11:COMB	14:COMB	11:COMB
			-13.484	-8.841	-0.605	-4.637	-19.511	-40.092
			11:COMB	11:COMB	19:COMB	22:COMB	19:COMB	22:COMB
192	290	+ve	9.045	8.937	13.520	0.234	65.822	48.970
			22:COMB	22:COMB	22:COMB	16:COMB	11:COMB	22:COMB
			-15.672	-10.700	-17.147	-1.681	-52.576	-63.517
			11:COMB	11:COMB	11:COMB	9:COMB3	22:COMB	11:COMB
	289	-ve	9.045	8.937	13.520	0.234	26.454	0.000
			22:COMB	22:COMB	22:COMB	16:COMB	22:COMB	-
			-15.672	-10.700	-17.147	-1.681	-34.413	-4.004
			11:COMB	11:COMB	11:COMB	9:COMB3	11:COMB	14:COMB

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
193	291	+ve	9.538	9.047	14.481	33.899	8.777	30.001
			22:COMB	11:COMB	12:COMB	22:COMB	21:COMB	22:COMB
			-14.200	-7.691	-7.728	-43.686	-15.559	-51.290
			11:COMB	22:COMB	21:COMB	11:COMB	12:COMB	11:COMB
	290	-ve	9.538	9.047	14.481	33.899	40.613	59.834
			22:COMB	11:COMB	12:COMB	22:COMB	12:COMB	22:COMB
			-14.200	-7.691	-7.728	-43.686	-21.199	-86.382
			11:COMB	22:COMB	21:COMB	11:COMB	21:COMB	11:COMB
195	7990	+ve	27.511	9.855	2.191	2.480	7.283	23.245
			18:COMB	22:COMB	17:COMB	22:COMB	8:COMB3	22:COMB
			-37.956	-10.214	-3.280	-4.498	-4.793	-27.830
			7:COMB3	11:COMB	8:COMB3	11:COMB	17:COMB	11:COMB
	292	-ve	27.511	9.855	2.191	2.480	5.503	21.006
			18:COMB	22:COMB	17:COMB	22:COMB	17:COMB	19:COMB
			-37.956	-10.214	-3.280	-4.498	-8.130	-23.900
			7:COMB3	11:COMB	8:COMB3	11:COMB	8:COMB3	14:COMB
196	291	+ve	8.749	9.198	1.688	2.696	6.858	5.662
			21:COMB	11:COMB	21:COMB	11:COMB	12:COMB	10:COMB
			-13.518	-4.488	-2.838	-1.386	-3.977	0.000
			12:COMB	22:COMB	12:COMB	22:COMB	21:COMB	-
	7990	-ve	8.749	9.198	1.688	2.696	4.456	25.944
			21:COMB	11:COMB	21:COMB	11:COMB	21:COMB	22:COMB
			-13.518	-4.488	-2.838	-1.386	-7.323	-43.356
			12:COMB	22:COMB	12:COMB	22:COMB	12:COMB	11:COMB
197	294	+ve	171.010	11.535	3.736	38.858	38.430	23.497
			7:COMB3	12:COMB	18:COMB	11:COMB	7:COMB3	10:COMB
			-154.060	-9.577	-4.214	-34.260	-34.568	-22.842
			18:COMB	21:COMB	7:COMB3	22:COMB	18:COMB	15:COMB
	7906	-ve	171.010	11.535	3.736	38.858	19.223	32.886
			7:COMB3	12:COMB	18:COMB	11:COMB	7:COMB3	21:COMB
			-154.060	-9.577	-4.214	-34.260	-17.536	-41.157
			18:COMB	21:COMB	7:COMB3	22:COMB	18:COMB	12:COMB
198	295	+ve	17.479	53.592	47.602	0.000	0.000	51.576
			15:COMB	11:COMB	10:COMB	-	-	7:COMB3
			-24.255	0.000	-36.128	-14.048	-10.103	-4.233
			10:COMB	-	15:COMB	11:COMB	13:COMB	18:COMB
	7892	-ve	17.479	53.592	47.602	0.000	54.854	3.027
			15:COMB	11:COMB	10:COMB	-	10:COMB	16:COMB
			-24.255	0.000	-36.128	-14.048	-51.365	-35.214
			10:COMB	-	15:COMB	11:COMB	15:COMB	9:COMB3
199	296	+ve	72.129	6.407	4.318	8.981	20.559	1.338
			7:COMB3	15:COMB	18:COMB	11:COMB	7:COMB3	22:COMB
			-63.214	-8.376	-5.651	-4.244	-17.137	-6.432
			18:COMB	10:COMB	7:COMB3	22:COMB	18:COMB	11:COMB
	7907	-ve	72.129	6.407	4.318	8.981	4.672	35.440
			7:COMB3	15:COMB	18:COMB	11:COMB	22:COMB	10:COMB
			-63.214	-8.376	-5.651	-4.244	-7.275	-31.630
			18:COMB	10:COMB	7:COMB3	22:COMB	11:COMB	15:COMB

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
200	29	+ve	7.643	55.016	18.750	0.000	3.363	49.734
			19:COMB	11:COMB3	9:COMB3	-	22:COMB	11:COMB3
			-14.560	0.000	-3.542	-16.316	-15.439	-1.099
			14:COMB	-	16:COMB	11:COMB3	11:COMB3	22:COMB
	7893	-ve	7.643	55.016	18.750	0.000	22.316	0.000
			19:COMB	11:COMB3	9:COMB3	-	10:COMB	-
			-14.560	0.000	-3.542	-16.316	-14.621	-28.759
			14:COMB	-	16:COMB	11:COMB3	15:COMB	9:COMB3
201	297	+ve	48.829	8.131	9.801	3.350	37.956	0.977
			11:COMB3	7:COMB3	18:COMB	11:COMB3	15:COMB	22:COMB
			-38.802	-5.908	-10.976	-0.828	-39.610	-8.530
			22:COMB	18:COMB3	7:COMB3	22:COMB	10:COMB	11:COMB3
	7908	-ve	48.829	8.131	9.801	3.350	5.943	27.175
			11:COMB3	7:COMB3	18:COMB	11:COMB3	18:COMB	18:COMB
			-38.802	-5.908	-10.976	-0.828	-12.959	-44.871
			22:COMB	18:COMB3	7:COMB3	22:COMB	7:COMB3	7:COMB3
202	43	+ve	45.119	52.692	37.112	0.000	6.438	50.360
			10:COMB	11:COMB3	10:COMB	-	22:COMB	11:COMB3
			-38.955	0.000	-14.409	-16.865	-18.255	0.000
			15:COMB	-	15:COMB	11:COMB3	11:COMB3	-
	7895	-ve	45.119	52.692	37.112	0.000	49.648	0.000
			10:COMB	11:COMB3	10:COMB	-	10:COMB	-
			-38.955	0.000	-14.409	-16.865	-31.951	-25.289
			15:COMB	-	15:COMB	11:COMB3	15:COMB	9:COMB3
203	298	+ve	45.476	16.153	13.489	18.714	40.049	7.974
			9:COMB3	11:COMB3	15:COMB	22:COMB	18:COMB	14:COMB
			-26.227	-14.016	-14.509	-18.706	-41.531	-4.853
			16:COMB	22:COMB	10:COMB	11:COMB3	7:COMB3	19:COMB
	7910	-ve	45.476	16.153	13.489	18.714	20.519	71.186
			9:COMB3	11:COMB3	15:COMB	22:COMB	15:COMB	22:COMB
			-26.227	-14.016	-14.509	-18.706	-26.635	-77.780
			16:COMB	22:COMB	10:COMB	11:COMB3	10:COMB	11:COMB3
204	49	+ve	51.086	54.098	34.007	15.384	0.009	78.983
			11:COMB3	11:COMB3	11:COMB3	19:COMB	16:COMB	11:COMB3
			-34.631	0.000	-17.367	-33.657	-6.154	-20.679
			22:COMB	-	22:COMB	14:COMB	9:COMB3	22:COMB
	7894	-ve	51.086	54.098	34.007	15.384	40.754	14.304
			11:COMB3	11:COMB3	11:COMB3	19:COMB	11:COMB3	19:COMB
			-34.631	0.000	-17.367	-33.657	-25.267	-42.740
			22:COMB	-	22:COMB	14:COMB	22:COMB	14:COMB
205	292	+ve	85.307	0.000	33.766	73.349	15.785	0.000
			17:COMB	-	8:COMB3	11:COMB3	17:COMB	-
			-96.732	-83.909	-24.789	-32.944	-20.028	-152.878
			8:COMB3	8:COMB3	17:COMB	22:COMB	8:COMB3	7:COMB3
	7909	-ve	85.307	0.000	33.766	73.349	66.765	72.715
			17:COMB	-	8:COMB3	11:COMB3	8:COMB3	8:COMB3
			-96.732	-83.909	-24.789	-32.944	-47.932	-4.514
			8:COMB3	8:COMB3	17:COMB	22:COMB	17:COMB	17:COMB

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
206	139	+ve	87.498	0.000	70.893	93.507	60.707	0.000
			17:COMB	-	8:COMB3	11:COMB	17:COMB	-
			-100.011	-84.637	-51.469	-56.004	-81.352	-226.174
			8:COMB3	8:COMB3	17:COMB	22:COMB	8:COMB3	7:COMB3
	292	-ve	87.498	0.000	70.893	93.507	11.083	0.000
			17:COMB	-	8:COMB3	11:COMB	18:COMB	-
			-100.011	-84.637	-51.469	-56.004	-12.699	-149.153
			8:COMB3	8:COMB3	17:COMB	22:COMB	7:COMB3	7:COMB3
208	300	+ve	27.460	0.000	29.858	11.070	7.338	0.000
			17:COMB	-	18:COMB	11:COMB	17:COMB	-
			-32.828	-100.297	-37.736	-4.696	-10.651	-115.135
			8:COMB3	7:COMB3	7:COMB3	22:COMB	8:COMB3	7:COMB3
	299	-ve	27.460	0.000	29.858	11.070	25.393	0.000
			17:COMB	-	18:COMB	11:COMB	18:COMB	-
			-32.828	-100.297	-37.736	-4.696	-33.825	-50.138
			8:COMB3	7:COMB3	7:COMB3	22:COMB	7:COMB3	8:COMB3
213	301	+ve	83.432	42.827	60.534	4.028	28.362	32.858
			7:COMB3	13:COMB	9:COMB3	16:COMB	22:COMB	8:COMB3
			-75.862	-23.357	-43.262	-19.804	-39.889	-26.962
			18:COMB	20:COMB	16:COMB	9:COMB3	11:COMB	17:COMB
	7915	-ve	83.432	42.827	60.534	4.028	59.918	41.630
			7:COMB3	13:COMB	9:COMB3	16:COMB	9:COMB3	16:COMB
			-75.862	-23.357	-43.262	-19.804	-54.172	-55.203
			18:COMB	20:COMB	16:COMB	9:COMB3	16:COMB	9:COMB3
214	302	+ve	330.295	0.000	17.476	17.764	34.887	59.475
			7:COMB3	-	15:COMB	19:COMB	14:COMB	18:COMB
			-292.383	-13.806	-21.783	-35.663	-17.249	-63.020
			18:COMB	11:COMB	10:COMB	14:COMB	19:COMB	7:COMB3
	7918	-ve	330.295	0.000	17.476	17.764	64.860	90.588
			7:COMB3	-	15:COMB	19:COMB	7:COMB3	10:COMB
			-292.383	-13.806	-21.783	-35.663	-65.381	-27.525
			18:COMB	11:COMB	10:COMB	14:COMB	18:COMB	15:COMB
216	303	+ve	8.506	61.834	10.830	38.100	32.684	22.068
			18:COMB	11:COMB	22:COMB	11:COMB	11:COMB	7:COMB3
			-29.643	-14.025	-16.196	-7.755	-25.539	0.000
			7:COMB3	22:COMB	11:COMB	22:COMB	22:COMB	-
	7887	-ve	8.506	61.834	10.830	38.100	12.266	26.720
			18:COMB	11:COMB	22:COMB	11:COMB	7:COMB3	22:COMB
			-29.643	-14.025	-16.196	-7.755	-12.097	-58.697
			7:COMB3	22:COMB	11:COMB	22:COMB	18:COMB	11:COMB
217	304	+ve	63.345	12.804	8.507	20.168	26.733	7.893
			19:COMB	12:COMB	15:COMB	22:COMB	18:COMB	11:COMB
			-74.766	-11.902	-9.755	-20.312	-27.695	-2.725
			14:COMB	21:COMB	10:COMB	11:COMB	7:COMB3	22:COMB
	7904	-ve	63.345	12.804	8.507	20.168	11.457	60.099
			19:COMB	12:COMB	15:COMB	22:COMB	15:COMB	19:COMB
			-74.766	-11.902	-9.755	-20.312	-18.093	-59.035
			14:COMB	21:COMB	10:COMB	11:COMB	10:COMB	14:COMB

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
218	305	+ve	38.783	67.885	45.352	24.500	21.393	59.108
			19:COMB	11:COMB	22:COMB	11:COMB	11:COMB	11:COMB
			-54.702	-12.833	-51.000	0.000	-13.532	-17.701
			14:COMB	22:COMB	11:COMB	-	22:COMB	22:COMB
	7889	-ve	38.783	67.885	45.352	24.500	45.751	0.312
			19:COMB	11:COMB	22:COMB	11:COMB	14:COMB	20:COMB
			-54.702	-12.833	-51.000	0.000	-45.233	-30.473
			14:COMB	22:COMB	11:COMB	-	19:COMB	13:COMB
219	306	+ve	31.439	9.576	7.713	4.323	33.390	8.384
			19:COMB	7:COMB3	18:COMB	19:COMB	15:COMB	11:COMB
			-29.208	-6.399	-8.916	-5.826	-35.157	-4.259
			14:COMB	18:COMB	7:COMB3	14:COMB	10:COMB	22:COMB
	7900	-ve	31.439	9.576	7.713	4.323	0.839	26.615
			19:COMB	7:COMB3	18:COMB	19:COMB	18:COMB	18:COMB
			-29.208	-6.399	-8.916	-5.826	-8.091	-36.980
			14:COMB	18:COMB	7:COMB3	14:COMB	7:COMB3	7:COMB3
220	307	+ve	31.338	65.101	18.529	24.773	16.079	55.836
			15:COMB	11:COMB	22:COMB	11:COMB	11:COMB	11:COMB
			-33.001	-9.440	-32.274	0.000	-7.784	-16.249
			10:COMB	22:COMB	11:COMB	-	22:COMB	22:COMB
	7885	-ve	31.338	65.101	18.529	24.773	18.354	0.000
			15:COMB	11:COMB	22:COMB	11:COMB	18:COMB	-
			-33.001	-9.440	-32.274	0.000	-27.926	-32.041
			10:COMB	22:COMB	11:COMB	-	7:COMB3	13:COMB
221	308	+ve	46.508	11.096	2.887	9.594	16.792	7.910
			11:COMB	7:COMB3	18:COMB	11:COMB	7:COMB3	11:COMB
			-37.625	-9.541	-3.634	-7.696	-14.899	-4.304
			22:COMB	18:COMB	7:COMB3	22:COMB	18:COMB	22:COMB
	7898	-ve	46.508	11.096	2.887	9.594	1.793	40.537
			11:COMB	7:COMB3	18:COMB	11:COMB	20:COMB	18:COMB
			-37.625	-9.541	-3.634	-7.696	-3.275	-43.963
			22:COMB	18:COMB	7:COMB3	22:COMB	13:COMB	7:COMB3
222	309	+ve	66.422	68.588	47.004	27.403	18.933	79.181
			7:COMB3	11:COMB	18:COMB	11:COMB	11:COMB	11:COMB
			-61.199	-12.825	-63.293	0.000	-11.235	-32.995
			18:COMB	22:COMB	7:COMB3	-	22:COMB	22:COMB
	7883	-ve	66.422	68.588	47.004	27.403	55.545	2.274
			7:COMB3	11:COMB	18:COMB	11:COMB	18:COMB	15:COMB
			-61.199	-12.825	-63.293	0.000	-69.022	-28.580
			18:COMB	22:COMB	7:COMB3	-	7:COMB3	10:COMB
231	13	+ve	69.779	96.812	12.048	17.801	40.322	185.398
			7:COMB3	22:COMB	22:COMB	11:COMB	11:COMB	22:COMB
			-65.317	-113.347	-14.673	-13.012	-32.571	-233.803
			18:COMB	11:COMB	11:COMB	22:COMB	22:COMB	11:COMB
	11	-ve	69.779	96.812	12.048	17.801	8.376	153.508
			7:COMB3	22:COMB	22:COMB	11:COMB	22:COMB	19:COMB
			-65.317	-113.347	-14.673	-13.012	-9.548	-145.714
			18:COMB	11:COMB	11:COMB	22:COMB	11:COMB	14:COMB

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
232	11	+ve	69.889	29.780	21.151	29.672	8.376	128.355
			7:COMB3	19:COMB	7:COMB3	18:COMB	22:COMB	19:COMB
			-67.984	-34.566	-18.498	-35.496	-9.548	-130.188
			18:COMB	14:COMB	18:COMB	7:COMB3	11:COMB	14:COMB
	17	-ve	69.889	29.780	21.151	29.672	14.570	102.179
			7:COMB3	19:COMB	7:COMB3	18:COMB	8:COMB3	19:COMB
			-67.984	-34.566	-18.498	-35.496	-13.411	-99.805
			18:COMB	14:COMB	18:COMB	7:COMB3	17:COMB	14:COMB
233	17	+ve	65.549	0.000	5.125	19.058	18.870	94.368
			7:COMB3	-	20:COMB	14:COMB	7:COMB3	19:COMB
			-64.396	-12.079	-16.987	-4.081	-13.898	-94.953
			18:COMB	9:COMB3	13:COMB	19:COMB	18:COMB	14:COMB
	7825	-ve	65.549	0.000	5.125	19.058	14.886	100.152
			7:COMB3	-	20:COMB	14:COMB	16:COMB	11:COMB
			-64.396	-12.079	-16.987	-4.081	-18.985	-88.880
			18:COMB	9:COMB3	13:COMB	19:COMB	9:COMB3	22:COMB
234	15	+ve	37.794	36.918	4.880	24.295	0.000	0.000
			15:COMB	11:COMB	7:COMB3	22:COMB	-	-
			-86.606	-29.258	-4.575	-37.957	0.000	0.000
			10:COMB	22:COMB	18:COMB	11:COMB	-	-
	280	-ve	37.794	36.918	4.880	24.295	23.202	139.109
			15:COMB	11:COMB	7:COMB3	22:COMB	7:COMB3	22:COMB
			-86.606	-29.258	-4.575	-37.957	-21.750	-175.529
			10:COMB	22:COMB	18:COMB	11:COMB	18:COMB	11:COMB
235	280	+ve	43.856	91.793	5.199	38.805	9.501	96.835
			15:COMB	11:COMB	13:COMB	22:COMB	16:COMB	22:COMB
			-89.703	-76.145	-4.627	-44.718	-10.216	-127.959
			10:COMB	22:COMB	20:COMB	11:COMB	9:COMB3	11:COMB
	13	-ve	43.856	91.793	5.199	38.805	5.932	304.077
			15:COMB	11:COMB	13:COMB	22:COMB	11:COMB	22:COMB
			-89.703	-76.145	-4.627	-44.718	-5.091	-377.793
			10:COMB	22:COMB	20:COMB	11:COMB	22:COMB	11:COMB
236	13	+ve	53.298	205.140	71.198	189.084	27.479	291.066
			15:COMB	11:COMB	11:COMB	11:COMB	22:COMB	22:COMB
			-96.519	-172.956	-66.163	-146.593	-34.390	-359.992
			10:COMB	22:COMB	22:COMB	22:COMB	11:COMB	11:COMB
	98	-ve	53.298	205.140	71.198	189.084	73.017	528.656
			15:COMB	11:COMB	11:COMB	11:COMB	15:COMB	22:COMB
			-96.519	-172.956	-66.163	-146.593	-73.011	-641.793
			10:COMB	22:COMB	22:COMB	22:COMB	10:COMB	11:COMB
237	98	+ve	58.422	9.178	20.231	8.643	32.503	69.384
			19:COMB	16:COMB	18:COMB	11:COMB	7:COMB3	20:COMB
			-55.231	-21.902	-22.121	-3.098	-30.889	-92.730
			14:COMB	9:COMB3	7:COMB3	22:COMB	18:COMB	13:COMB
	541	-ve	58.422	9.178	20.231	8.643	9.405	64.794
			19:COMB	16:COMB	18:COMB	11:COMB	18:COMB	14:COMB
			-55.231	-21.902	-22.121	-3.098	-11.557	-62.798
			14:COMB	9:COMB3	7:COMB3	22:COMB	7:COMB3	19:COMB

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
238	279	+ve	21.969	19.612	6.442	1.061	6.947	40.383
			7:COMB3	14:COMB3	11:COMB3	22:COMB	22:COMB3	22:COMB3
			-20.498	-20.491	-4.895	-2.040	-9.111	-43.929
			18:COMB	19:COMB3	22:COMB3	11:COMB3	11:COMB3	11:COMB3
	17	-ve	21.969	19.612	6.442	1.061	8.421	12.011
			7:COMB3	14:COMB3	11:COMB3	22:COMB	11:COMB3	19:COMB3
			-20.498	-20.491	-4.895	-2.040	-6.376	-13.163
			18:COMB	19:COMB3	22:COMB3	11:COMB3	22:COMB3	14:COMB3
239	302	+ve	64.409	48.845	6.422	5.538	19.613	97.367
			12:COMB	15:COMB3	18:COMB3	10:COMB	7:COMB3	15:COMB3
			-24.233	-59.014	-8.213	-2.831	-15.075	-119.390
			21:COMB	10:COMB3	7:COMB3	15:COMB	18:COMB3	10:COMB3
	420	-ve	64.409	48.845	6.422	5.538	13.520	143.367
			12:COMB	15:COMB3	18:COMB3	10:COMB	18:COMB3	10:COMB3
			-24.233	-59.014	-8.213	-2.831	-16.955	-120.114
			21:COMB	10:COMB3	7:COMB3	15:COMB	7:COMB3	15:COMB3
240	319	+ve	35.828	12.129	4.700	1.950	13.232	19.760
			12:COMB	22:COMB3	18:COMB3	7:COMB3	7:COMB3	22:COMB3
			-14.041	-12.802	-6.175	-1.789	-10.077	-30.197
			21:COMB	11:COMB3	7:COMB3	18:COMB	18:COMB3	11:COMB3
	302	-ve	35.828	12.129	4.700	1.950	10.322	27.501
			12:COMB	22:COMB3	18:COMB3	7:COMB3	18:COMB3	15:COMB3
			-14.041	-12.802	-6.175	-1.789	-13.573	-35.018
			21:COMB	11:COMB3	7:COMB3	18:COMB	7:COMB3	10:COMB3
241	281	+ve	12.616	1.604	1.572	0.000	5.756	34.927
			8:COMB3	11:COMB3	17:COMB3	-	8:COMB3	22:COMB3
			-5.324	-0.289	-2.807	-1.444	-3.069	-41.984
			17:COMB	22:COMB3	8:COMB3	10:COMB	17:COMB3	11:COMB3
	319	-ve	12.616	1.604	1.572	0.000	4.074	36.238
			8:COMB3	11:COMB3	17:COMB3	-	17:COMB3	22:COMB3
			-5.324	-0.289	-2.807	-1.444	-7.002	-49.274
			17:COMB	22:COMB3	8:COMB3	10:COMB	8:COMB3	11:COMB3
242	21	+ve	27.890	42.052	1.712	14.160	0.000	0.000
			15:COMB	11:COMB3	19:COMB3	19:COMB	-	-
			-101.312	-33.200	-3.723	-15.485	0.000	0.000
			10:COMB	22:COMB3	14:COMB3	14:COMB	-	-
	282	-ve	27.890	42.052	1.712	14.160	8.141	157.853
			15:COMB	11:COMB3	19:COMB3	19:COMB	19:COMB3	22:COMB3
			-101.312	-33.200	-3.723	-15.485	-17.703	-199.939
			10:COMB	22:COMB3	14:COMB3	14:COMB	14:COMB3	11:COMB3
243	282	+ve	22.762	38.192	4.316	13.784	14.479	153.930
			15:COMB	11:COMB3	19:COMB3	22:COMB	12:COMB3	22:COMB3
			-98.784	-28.315	-7.115	-14.514	-7.021	-189.651
			10:COMB	22:COMB3	14:COMB3	11:COMB3	21:COMB3	11:COMB3
	8	-ve	22.762	38.192	4.316	13.784	17.394	295.393
			15:COMB	11:COMB3	19:COMB3	22:COMB	19:COMB3	22:COMB3
			-98.784	-28.315	-7.115	-14.514	-23.920	-380.456
			10:COMB	22:COMB3	14:COMB3	11:COMB3	14:COMB3	11:COMB3

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
244	8	+ve	178.433	13.529	1.229	3.762	4.742	23.207
			22:COMB	7:COMB3	17:COMB	14:COMB	7:COMB3	22:COMB
			-246.125	-12.927	-2.648	-3.143	-2.610	-130.257
			11:COMB	18:COMB	8:COMB3	19:COMB	18:COMB	11:COMB
	542	-ve	178.433	13.529	1.229	3.762	0.990	47.747
			22:COMB	7:COMB3	17:COMB	14:COMB	21:COMB	22:COMB
			-246.125	-12.927	-2.648	-3.143	-2.195	-156.214
			11:COMB	18:COMB	8:COMB3	19:COMB	12:COMB	11:COMB
245	320	+ve	100.885	8.838	10.445	1.477	14.362	13.253
			7:COMB3	15:COMB	18:COMB	19:COMB	7:COMB3	13:COMB
			-92.213	-11.743	-12.173	-1.465	-12.237	-7.647
			18:COMB	10:COMB	7:COMB3	14:COMB	18:COMB	20:COMB
	23	-ve	100.885	8.838	10.445	1.477	19.466	38.813
			7:COMB3	15:COMB	18:COMB	19:COMB	18:COMB	10:COMB
			-92.213	-11.743	-12.173	-1.465	-22.585	-24.390
			18:COMB	10:COMB	7:COMB3	14:COMB	7:COMB3	15:COMB
246	294	+ve	101.661	9.812	6.816	1.442	18.740	39.126
			7:COMB3	15:COMB	18:COMB	15:COMB	7:COMB3	15:COMB
			-92.766	-14.451	-7.813	-2.385	-16.371	-50.273
			18:COMB	10:COMB	7:COMB3	10:COMB	18:COMB	10:COMB
	320	-ve	101.661	9.812	6.816	1.442	9.455	14.428
			7:COMB3	15:COMB	18:COMB	15:COMB	18:COMB	13:COMB
			-92.766	-14.451	-7.813	-2.385	-10.863	-7.999
			18:COMB	10:COMB	7:COMB3	10:COMB	7:COMB3	20:COMB
247	310	+ve	56.768	6.587	5.669	2.626	14.680	13.209
			7:COMB3	22:COMB	18:COMB	22:COMB	7:COMB3	22:COMB
			-52.410	-7.195	-6.231	-3.254	-13.355	-25.572
			18:COMB	11:COMB	7:COMB3	11:COMB	18:COMB	11:COMB
	294	-ve	56.768	6.587	5.669	2.626	13.286	11.111
			7:COMB3	22:COMB	18:COMB	22:COMB	18:COMB	15:COMB
			-52.410	-7.195	-6.231	-3.254	-14.599	-20.613
			18:COMB	11:COMB	7:COMB3	11:COMB	7:COMB3	10:COMB
248	283	+ve	24.582	4.906	3.118	0.732	8.501	16.318
			7:COMB3	11:COMB	18:COMB	7:COMB3	7:COMB3	22:COMB
			-22.749	-2.235	-3.684	-0.586	-7.137	-19.186
			18:COMB	22:COMB	7:COMB3	18:COMB	18:COMB	11:COMB
	310	-ve	24.582	4.906	3.118	0.732	8.439	27.486
			7:COMB3	11:COMB	18:COMB	7:COMB3	18:COMB	22:COMB
			-22.749	-2.235	-3.684	-0.586	-9.907	-43.698
			18:COMB	22:COMB	7:COMB3	18:COMB	7:COMB3	11:COMB
250	309	+ve	58.038	26.549	3.251	3.102	5.060	0.000
			22:COMB	11:COMB	10:COMB	22:COMB	15:COMB	-
			-119.180	-22.243	-3.094	-3.618	-5.180	-74.769
			11:COMB	22:COMB	15:COMB	11:COMB	10:COMB	13:COMB
	543	-ve	58.038	26.549	3.251	3.102	2.458	34.313
			22:COMB	11:COMB	10:COMB	22:COMB	10:COMB	22:COMB
			-119.180	-22.243	-3.094	-3.618	-2.209	-136.770
			11:COMB	22:COMB	15:COMB	11:COMB	15:COMB	11:COMB

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
251	284	+ve	0.000	11.903	1.974	7.989	15.263	73.813
			-	19:COMB	17:COMB	22:COMB	7:COMB3	22:COMB
			-75.200	-10.483	-2.662	-9.641	-13.928	-105.650
			6:COMB2	14:COMB	8:COMB3	11:COMB	18:COMB	11:COMB
	309	-ve	0.000	11.903	1.974	7.989	8.028	124.571
			-	19:COMB	17:COMB	22:COMB	19:COMB	22:COMB
			-75.200	-10.483	-2.662	-9.641	-10.134	-163.501
			6:COMB2	14:COMB	8:COMB3	11:COMB	14:COMB	11:COMB
252	321	+ve	47.606	6.827	10.266	2.425	19.661	21.869
			7:COMB3	10:COMB	18:COMB	14:COMB	7:COMB3	10:COMB
			-45.103	0.000	-11.124	-0.100	-18.107	-9.604
			18:COMB	-	7:COMB3	19:COMB	18:COMB	15:COMB
	27	-ve	47.606	6.827	10.266	2.425	17.622	2.078
			7:COMB3	10:COMB	18:COMB	14:COMB	18:COMB	22:COMB
			-45.103	0.000	-11.124	-0.100	-19.053	-13.718
			18:COMB	-	7:COMB3	19:COMB	7:COMB3	11:COMB
253	322	+ve	76.087	4.361	1.044	0.890	2.437	15.695
			7:COMB3	19:COMB	18:COMB	11:COMB	7:COMB3	19:COMB
			-71.556	-9.174	-1.120	-0.342	-2.228	-25.220
			18:COMB	14:COMB	7:COMB3	22:COMB	18:COMB	14:COMB
	321	-ve	76.087	4.361	1.044	0.890	3.636	27.499
			7:COMB3	19:COMB	18:COMB	11:COMB	18:COMB	10:COMB
			-71.556	-9.174	-1.120	-0.342	-3.856	-9.984
			18:COMB	14:COMB	7:COMB3	22:COMB	7:COMB3	15:COMB
254	323	+ve	53.331	1.582	3.411	0.270	4.964	7.948
			7:COMB3	6:COMB2	18:COMB	19:COMB	7:COMB3	19:COMB
			-48.308	-0.303	-4.207	-1.202	-3.911	-9.398
			18:COMB	19:COMB	7:COMB3	14:COMB	18:COMB	14:COMB
	322	-ve	53.331	1.582	3.411	0.270	7.578	8.968
			7:COMB3	6:COMB2	18:COMB	19:COMB	18:COMB	19:COMB
			-48.308	-0.303	-4.207	-1.202	-9.209	-14.534
			18:COMB	19:COMB	7:COMB3	14:COMB	7:COMB3	14:COMB
255	296	+ve	54.173	1.551	4.320	0.000	10.715	7.929
			7:COMB3	14:COMB	18:COMB	-	7:COMB3	11:COMB
			-48.998	-0.798	-4.800	-0.590	-9.640	-5.793
			18:COMB	19:COMB	7:COMB3	7:COMB3	18:COMB	22:COMB
	323	-ve	54.173	1.551	4.320	0.000	6.730	8.608
			7:COMB3	14:COMB	18:COMB	-	18:COMB	19:COMB
			-48.998	-0.798	-4.800	-0.590	-7.471	-9.324
			18:COMB	19:COMB	7:COMB3	7:COMB3	7:COMB3	14:COMB
256	308	+ve	31.131	1.930	1.575	0.324	3.775	5.792
			7:COMB3	22:COMB	18:COMB	22:COMB	7:COMB3	22:COMB
			-29.085	-3.260	-1.575	-0.404	-3.769	-17.623
			18:COMB	11:COMB	7:COMB3	11:COMB	18:COMB	11:COMB
	296	-ve	31.131	1.930	1.575	0.324	3.631	0.000
			7:COMB3	22:COMB	18:COMB	22:COMB	18:COMB	-
			-29.085	-3.260	-1.575	-0.404	-3.626	-4.605
			18:COMB	11:COMB	7:COMB3	11:COMB	7:COMB3	10:COMB

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
257	285	+ve	16.145	4.027	0.531	0.280	1.703	8.614
			15:COMB	11:COMB3	21:COMB	15:COMB	12:COMB	14:COMB
			-15.731	-1.301	-0.633	-0.342	-1.429	-9.342
			10:COMB	22:COMB	12:COMB	10:COMB	21:COMB	19:COMB
	308	-ve	16.145	4.027	0.531	0.280	1.223	14.784
			15:COMB	11:COMB3	21:COMB	15:COMB	21:COMB	22:COMB
			-15.731	-1.301	-0.633	-0.342	-1.461	-29.132
			10:COMB	22:COMB	12:COMB	10:COMB	12:COMB	11:COMB
258	307	+ve	46.520	26.306	0.792	1.927	2.024	0.000
			22:COMB	11:COMB3	14:COMB	10:COMB	19:COMB	-
			-113.228	-24.794	-0.424	-1.730	-2.381	-73.864
			11:COMB	22:COMB	19:COMB	15:COMB	14:COMB	13:COMB
	544	-ve	46.520	26.306	0.792	1.927	1.454	33.776
			22:COMB	11:COMB3	14:COMB	10:COMB	7:COMB3	22:COMB
			-113.228	-24.794	-0.424	-1.730	-0.945	-134.557
			11:COMB	22:COMB	19:COMB	15:COMB	18:COMB	11:COMB
259	286	+ve	0.000	17.030	5.353	4.515	5.249	47.419
			-	11:COMB3	11:COMB3	18:COMB	22:COMB	22:COMB
			-76.343	-13.605	-4.642	-4.541	-8.175	-72.458
			6:COMB2	22:COMB	22:COMB	7:COMB3	11:COMB3	11:COMB3
	307	-ve	0.000	17.030	5.353	4.515	18.570	115.390
			-	11:COMB3	11:COMB3	18:COMB	11:COMB3	22:COMB
			-76.343	-13.605	-4.642	-4.541	-17.945	-157.542
			6:COMB2	22:COMB	22:COMB	7:COMB3	22:COMB	11:COMB3
260	324	+ve	99.873	1.254	1.702	0.129	3.266	5.141
			15:COMB	19:COMB	14:COMB	19:COMB	19:COMB	13:COMB
			-107.591	-0.395	-1.603	-1.809	-3.469	0.000
			10:COMB	14:COMB	19:COMB	14:COMB	14:COMB	-
	7833	-ve	99.873	1.254	1.702	0.129	6.984	5.191
			15:COMB	19:COMB	14:COMB	19:COMB	14:COMB	14:COMB
			-107.591	-0.395	-1.603	-1.809	-6.579	-4.203
			10:COMB	14:COMB	19:COMB	14:COMB	19:COMB	19:COMB
261	325	+ve	95.409	0.650	2.065	0.075	4.548	6.217
			15:COMB	19:COMB	10:COMB	19:COMB	15:COMB	19:COMB
			-103.315	-3.584	-1.600	-1.163	-5.714	-14.649
			10:COMB	14:COMB	15:COMB	14:COMB	10:COMB	14:COMB
	324	-ve	95.409	0.650	2.065	0.075	4.152	4.800
			15:COMB	19:COMB	10:COMB	19:COMB	10:COMB	13:COMB
			-103.315	-3.584	-1.600	-1.163	-3.099	0.000
			10:COMB	14:COMB	15:COMB	14:COMB	15:COMB	-
262	326	+ve	89.309	2.500	1.544	0.478	1.511	5.297
			15:COMB	8:COMB3	14:COMB	9:COMB3	19:COMB	19:COMB
			-98.182	-0.128	-1.358	-0.218	-1.866	-4.417
			10:COMB	17:COMB	19:COMB	16:COMB	14:COMB	14:COMB
	325	-ve	89.309	2.500	1.544	0.478	4.635	3.139
			15:COMB	8:COMB3	14:COMB	9:COMB3	14:COMB	21:COMB
			-98.182	-0.128	-1.358	-0.218	-4.203	-12.243
			10:COMB	17:COMB	19:COMB	16:COMB	19:COMB	12:COMB

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
263	297	+ve	88.366	2.017	6.760	0.825	13.518	11.430
			15:COMB	8:COMB3	10:COMB	10:COMB	15:COMB	7:COMB3
			-97.077	-0.342	-6.256	-0.158	-14.794	-4.033
			10:COMB	17:COMB	15:COMB	15:COMB	10:COMB	18:COMB
	326	-ve	88.366	2.017	6.760	0.825	10.819	5.808
			15:COMB	8:COMB3	10:COMB	10:COMB	10:COMB	19:COMB
			-97.077	-0.342	-6.256	-0.158	-10.186	-4.757
			10:COMB	17:COMB	15:COMB	15:COMB	15:COMB	14:COMB
264	306	+ve	49.313	1.454	3.568	0.416	6.003	5.037
			15:COMB	22:COMB	10:COMB	7:COMB3	15:COMB	22:COMB
			-54.962	-3.337	-2.520	-0.043	-8.461	-17.591
			10:COMB	11:COMB	15:COMB	18:COMB	10:COMB	11:COMB
	297	-ve	49.313	1.454	3.568	0.416	8.305	0.000
			15:COMB	22:COMB	10:COMB	7:COMB3	10:COMB	-
			-54.962	-3.337	-2.520	-0.043	-5.837	-3.583
			10:COMB	11:COMB	15:COMB	18:COMB	15:COMB	9:COMB3
265	287	+ve	18.698	4.361	1.506	0.272	1.524	6.437
			15:COMB	11:COMB	10:COMB	7:COMB3	15:COMB	14:COMB
			-21.080	-1.590	-0.774	-0.148	-3.237	-7.987
			10:COMB	22:COMB	15:COMB	18:COMB	10:COMB	19:COMB
	306	-ve	18.698	4.361	1.506	0.272	4.285	14.265
			15:COMB	11:COMB	10:COMB	7:COMB3	10:COMB	22:COMB
			-21.080	-1.590	-0.774	-0.148	-2.342	-29.659
			10:COMB	22:COMB	15:COMB	18:COMB	15:COMB	11:COMB
266	327	+ve	33.395	5.136	8.126	1.796	1.909	16.757
			22:COMB	11:COMB	18:COMB	14:COMB	12:COMB	11:COMB
			-42.351	-3.783	-9.064	-0.799	-1.186	-13.875
			11:COMB	22:COMB	7:COMB3	19:COMB	21:COMB	22:COMB
	33	-ve	33.395	5.136	8.126	1.796	7.436	12.478
			22:COMB	11:COMB	18:COMB	14:COMB	18:COMB	19:COMB
			-42.351	-3.783	-9.064	-0.799	-7.593	-10.864
			11:COMB	22:COMB	7:COMB3	19:COMB	7:COMB3	14:COMB
267	298	+ve	61.118	1.695	7.224	0.443	11.018	21.789
			22:COMB	15:COMB	10:COMB	6:COMB2	15:COMB	19:COMB
			-69.944	-3.383	-6.815	0.000	-11.941	-24.789
			11:COMB	10:COMB	15:COMB	-	10:COMB	14:COMB
	327	-ve	61.118	1.695	7.224	0.443	15.467	17.496
			22:COMB	15:COMB	10:COMB	6:COMB2	14:COMB	11:COMB
			-69.944	-3.383	-6.815	0.000	-14.837	-14.098
			11:COMB	10:COMB	15:COMB	-	19:COMB	22:COMB
268	304	+ve	33.978	5.274	2.535	3.729	3.557	12.113
			22:COMB	22:COMB	11:COMB	11:COMB	22:COMB	22:COMB
			-39.894	-6.826	-1.585	-3.489	-5.773	-25.252
			11:COMB	11:COMB	22:COMB	22:COMB	11:COMB	11:COMB
	298	-ve	33.978	5.274	2.535	3.729	6.142	8.035
			22:COMB	22:COMB	11:COMB	11:COMB	11:COMB	19:COMB
			-39.894	-6.826	-1.585	-3.489	-3.890	-13.880
			11:COMB	11:COMB	22:COMB	22:COMB	22:COMB	14:COMB

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
269	289	+ve	8.966	3.847	3.655	0.259	7.979	15.593
			22:COMB	11:COMB3	11:COMB3	7:COMB3	22:COMB	22:COMB
			-12.548	-1.751	-3.112	-0.217	-9.239	-20.430
			11:COMB3	22:COMB	22:COMB	18:COMB	11:COMB3	11:COMB3
	304	-ve	8.966	3.847	3.655	0.259	9.021	24.342
			22:COMB	11:COMB3	11:COMB3	7:COMB3	11:COMB3	22:COMB
			-12.548	-1.751	-3.112	-0.217	-7.566	-39.649
			11:COMB3	22:COMB	22:COMB	18:COMB	22:COMB	11:COMB3
270	303	+ve	206.217	2.369	3.094	1.968	1.740	29.224
			22:COMB	19:COMB	13:COMB	18:COMB	16:COMB	22:COMB
			-280.926	-5.608	-1.680	-6.152	-4.136	-134.441
			11:COMB3	14:COMB	20:COMB	7:COMB3	9:COMB3	11:COMB3
	545	-ve	206.217	2.369	3.094	1.968	4.613	41.708
			22:COMB	19:COMB	13:COMB	18:COMB	11:COMB3	22:COMB
			-280.926	-5.608	-1.680	-6.152	-3.687	-139.316
			11:COMB3	14:COMB	20:COMB	7:COMB3	22:COMB	11:COMB3
271	290	+ve	27.805	53.215	11.608	4.550	27.884	90.694
			15:COMB	11:COMB3	19:COMB	21:COMB	14:COMB	22:COMB
			-82.493	-42.961	-13.737	-8.575	-22.449	-116.272
			10:COMB	22:COMB	14:COMB	12:COMB	19:COMB	11:COMB3
	303	-ve	27.805	53.215	11.608	4.550	35.543	305.326
			15:COMB	11:COMB3	19:COMB	21:COMB	19:COMB	22:COMB
			-82.493	-42.961	-13.737	-8.575	-40.748	-382.136
			10:COMB	22:COMB	14:COMB	12:COMB	14:COMB	11:COMB3
275	20	+ve	302.643	127.079	2.218	13.008	31.140	527.422
			7:COMB3	15:COMB	18:COMB	11:COMB3	7:COMB3	19:COMB
			-270.599	-154.891	-3.650	-10.463	-22.744	-570.728
			18:COMB	10:COMB	7:COMB3	22:COMB	18:COMB	14:COMB
	328	-ve	302.643	127.079	2.218	13.008	17.096	125.396
			7:COMB3	15:COMB	18:COMB	11:COMB3	7:COMB3	13:COMB
			-270.599	-154.891	-3.650	-10.463	-14.211	-61.702
			18:COMB	10:COMB	7:COMB3	22:COMB	18:COMB	20:COMB
276	329	+ve	206.773	37.383	36.254	2.541	38.435	62.697
			7:COMB3	15:COMB	7:COMB3	16:COMB	18:COMB	9:COMB3
			-160.803	-40.263	-30.455	-2.454	-45.171	-39.104
			18:COMB	10:COMB	18:COMB	9:COMB3	7:COMB3	16:COMB
	39	-ve	206.773	37.383	36.254	2.541	9.431	96.872
			7:COMB3	15:COMB	7:COMB3	16:COMB	18:COMB	10:COMB
			-160.803	-40.263	-30.455	-2.454	-10.645	-70.535
			18:COMB	10:COMB	18:COMB	9:COMB3	7:COMB3	15:COMB
277	29	+ve	154.877	30.881	27.016	6.567	70.533	145.578
			7:COMB3	6:COMB2	18:COMB	11:COMB3	7:COMB3	11:COMB3
			-126.322	0.000	-29.750	-4.494	-62.895	-6.515
			18:COMB	-	7:COMB3	22:COMB	18:COMB	22:COMB
	330	-ve	154.877	30.881	27.016	6.567	40.787	36.688
			7:COMB3	6:COMB2	18:COMB	11:COMB3	18:COMB	19:COMB
			-126.322	0.000	-29.750	-4.494	-43.642	-34.004
			18:COMB	-	7:COMB3	22:COMB	7:COMB3	14:COMB

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
278	330	+ve	161.389	31.353	12.799	3.058	30.282	37.755
			7:COMB3	6:COMB2	7:COMB3	19:COMB	18:COMB	19:COMB
			-132.651	0.000	-12.169	-4.711	-32.400	-32.559
			18:COMB	-	18:COMB	14:COMB	7:COMB3	14:COMB
	331	-ve	161.389	31.353	12.799	3.058	12.577	0.000
			7:COMB3	6:COMB2	7:COMB3	19:COMB	7:COMB3	-
			-132.651	0.000	-12.169	-4.711	-12.478	-109.533
			18:COMB	-	18:COMB	14:COMB	18:COMB	6:COMB2
279	331	+ve	100.857	44.808	11.249	2.421	11.306	0.000
			7:COMB3	6:COMB2	18:COMB	11:COMB	7:COMB3	-
			-86.363	0.000	-12.366	0.000	-11.182	-43.374
			18:COMB	-	7:COMB3	-	18:COMB	14:COMB
	333	-ve	100.857	44.808	11.249	2.421	5.062	0.000
			7:COMB3	6:COMB2	18:COMB	11:COMB	7:COMB3	-
			-86.363	0.000	-12.366	0.000	-5.502	-65.202
			18:COMB	-	7:COMB3	-	18:COMB	6:COMB2
281	333	+ve	119.879	0.000	4.231	3.835	2.854	24.098
			15:COMB	-	18:COMB	13:COMB	22:COMB	19:COMB
			-116.823	-35.686	-9.271	0.000	-6.140	-68.967
			10:COMB	6:COMB2	7:COMB3	-	11:COMB	14:COMB
	335	-ve	119.879	0.000	4.231	3.835	4.847	33.022
			15:COMB	-	18:COMB	13:COMB	18:COMB	19:COMB
			-116.823	-35.686	-9.271	0.000	-10.693	-54.430
			10:COMB	6:COMB2	7:COMB3	-	7:COMB3	14:COMB
283	335	+ve	230.485	9.965	4.302	3.194	5.155	60.560
			15:COMB	19:COMB	10:COMB	19:COMB	18:COMB	19:COMB
			-225.412	-30.419	-1.857	-4.130	-11.525	-138.382
			10:COMB	14:COMB	15:COMB	14:COMB	7:COMB3	14:COMB
	336	-ve	230.485	9.965	4.302	3.194	22.862	18.235
			15:COMB	19:COMB	10:COMB	19:COMB	10:COMB	13:COMB
			-225.412	-30.419	-1.857	-4.130	-18.048	-2.472
			10:COMB	14:COMB	15:COMB	14:COMB	15:COMB	20:COMB
284	337	+ve	17.857	15.235	12.621	2.668	9.718	13.164
			14:COMB	8:COMB3	22:COMB	7:COMB3	11:COMB	12:COMB
			-10.231	0.000	-14.326	-0.037	-7.981	0.000
			19:COMB	-	11:COMB	18:COMB	22:COMB	-
	7877	-ve	17.857	15.235	12.621	2.668	10.951	0.000
			14:COMB	8:COMB3	22:COMB	7:COMB3	22:COMB	-
			-10.231	0.000	-14.326	-0.037	-11.772	-11.811
			19:COMB	-	11:COMB	18:COMB	11:COMB	7:COMB3
285	338	+ve	111.171	53.789	29.439	0.000	29.848	11.252
			14:COMB	7:COMB3	19:COMB	-	14:COMB	14:COMB
			-95.601	-37.227	-30.675	-3.144	-29.159	0.000
			19:COMB	18:COMB	14:COMB	9:COMB3	19:COMB	-
	7860	-ve	111.171	53.789	29.439	0.000	37.735	93.038
			14:COMB	7:COMB3	19:COMB	-	19:COMB	18:COMB
			-95.601	-37.227	-30.675	-3.144	-39.853	-118.464
			19:COMB	18:COMB	14:COMB	9:COMB3	14:COMB	7:COMB3

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
286	339	+ve	55.542	11.574	13.257	0.433	25.922	44.419
			14:COMB	7:COMB3	19:COMB	8:COMB3	14:COMB	11:COMB
			-41.800	-9.088	-14.083	-0.270	-24.604	-22.406
			19:COMB	18:COMB	14:COMB	17:COMB	19:COMB	22:COMB
	338	-ve	55.542	11.574	13.257	0.433	22.691	13.255
			14:COMB	7:COMB3	19:COMB	8:COMB3	19:COMB	10:COMB
			-41.800	-9.088	-14.083	-0.270	-24.322	-0.108
			19:COMB	18:COMB	14:COMB	17:COMB	14:COMB	15:COMB
287	7847	+ve	28.971	3.379	0.817	2.323	5.436	0.000
			14:COMB	22:COMB	15:COMB	12:COMB	10:COMB	-
			-15.644	-11.459	-1.274	-1.230	-4.095	-19.800
			19:COMB	11:COMB	10:COMB	21:COMB	15:COMB	13:COMB
	339	-ve	28.971	3.379	0.817	2.323	0.186	39.376
			14:COMB	22:COMB	15:COMB	12:COMB	20:COMB	11:COMB
			-15.644	-11.459	-1.274	-1.230	-1.104	-20.799
			19:COMB	11:COMB	10:COMB	21:COMB	13:COMB	22:COMB
288	341	+ve	21.774	27.663	6.988	6.809	10.055	20.797
			8:COMB3	7:COMB3	20:COMB	11:COMB	13:COMB	15:COMB
			-19.447	-20.914	-14.266	-0.909	-5.486	-26.338
			17:COMB	18:COMB	13:COMB	22:COMB	20:COMB	10:COMB
	7847	-ve	21.774	27.663	6.988	6.809	4.996	7.899
			8:COMB3	7:COMB3	20:COMB	11:COMB	20:COMB	22:COMB
			-19.447	-20.914	-14.266	-0.909	-11.345	-23.564
			17:COMB	18:COMB	13:COMB	22:COMB	13:COMB	11:COMB
289	469	+ve	23.583	21.240	12.698	5.857	5.540	15.361
			11:COMB	7:COMB3	15:COMB	14:COMB	14:COMB	19:COMB
			0.000	0.000	-17.432	-2.875	-0.703	-10.418
			-	-	10:COMB	19:COMB	19:COMB	14:COMB
	44	-ve	23.583	21.240	12.698	5.857	6.945	8.899
			11:COMB	7:COMB3	15:COMB	14:COMB	7:COMB3	21:COMB
			0.000	0.000	-17.432	-2.875	-4.468	-16.579
			-	-	10:COMB	19:COMB	18:COMB	12:COMB
290	343	+ve	59.192	15.583	12.230	10.464	43.464	62.506
			7:COMB3	7:COMB3	7:COMB3	14:COMB	18:COMB	11:COMB
			0.000	-6.691	-9.570	-4.071	-48.184	-40.286
			-	18:COMB	18:COMB	19:COMB	7:COMB3	22:COMB
	469	-ve	59.192	15.583	12.230	10.464	5.944	27.695
			7:COMB3	7:COMB3	7:COMB3	14:COMB	12:COMB	19:COMB
			0.000	-6.691	-9.570	-4.071	0.000	-43.380
			-	18:COMB	18:COMB	19:COMB	-	14:COMB
291	344	+ve	11.250	12.252	3.684	35.644	11.916	32.726
			20:COMB	8:COMB3	18:COMB	14:COMB	7:COMB3	8:COMB3
			-56.895	0.000	-4.461	-22.168	-9.842	0.000
			13:COMB	-	7:COMB3	19:COMB	18:COMB	-
	265	-ve	11.250	12.252	3.684	35.644	0.000	0.000
			20:COMB	8:COMB3	18:COMB	14:COMB	-	-
			-56.895	0.000	-4.461	-22.168	0.000	0.000
			13:COMB	-	7:COMB3	19:COMB	-	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
292	345	+ve	231.040	0.000	17.901	41.529	29.549	5.388
			7:COMB3	-	14:COMB	14:COMB	19:COMB	18:COMB
			0.000	-51.800	-14.665	-39.084	-35.619	-56.464
			-	8:COMB3	19:COMB	19:COMB	14:COMB	7:COMB3
	565	-ve	231.040	0.000	17.901	41.529	8.049	71.222
			7:COMB3	-	14:COMB	14:COMB	14:COMB	8:COMB3
			0.000	-51.800	-14.665	-39.084	-6.226	0.000
			-	8:COMB3	19:COMB	19:COMB	19:COMB	-
293	337	+ve	37.393	48.852	26.941	23.708	32.400	0.276
			18:COMB	11:COMB	12:COMB	14:COMB	21:COMB	21:COMB
			-287.040	-33.203	-23.920	-16.219	-34.879	-54.739
			7:COMB3	22:COMB	21:COMB	19:COMB	12:COMB	12:COMB
	345	-ve	37.393	48.852	26.941	23.708	13.618	24.332
			18:COMB	11:COMB	12:COMB	14:COMB	12:COMB	18:COMB
			-287.040	-33.203	-23.920	-16.219	-10.659	-106.965
			7:COMB3	22:COMB	21:COMB	19:COMB	21:COMB	7:COMB3
294	346	+ve	157.197	47.493	46.453	40.702	32.581	66.917
			7:COMB3	15:COMB	11:COMB	18:COMB	20:COMB	19:COMB
			-38.919	-88.538	-47.850	-41.415	-37.337	-100.011
			18:COMB	10:COMB	22:COMB	7:COMB3	13:COMB	14:COMB
	337	-ve	157.197	47.493	46.453	40.702	151.297	255.785
			7:COMB3	15:COMB	11:COMB	18:COMB	19:COMB	10:COMB
			-38.919	-88.538	-47.850	-41.415	-161.284	-135.215
			18:COMB	10:COMB	22:COMB	7:COMB3	14:COMB	15:COMB
295	7877	+ve	76.868	7.196	14.237	4.559	34.370	26.137
			10:COMB	11:COMB	19:COMB	10:COMB	14:COMB	11:COMB
			-63.591	-10.269	-16.589	-3.818	-29.788	-34.179
			15:COMB	22:COMB	14:COMB	15:COMB	19:COMB	22:COMB
	347	-ve	76.868	7.196	14.237	4.559	19.035	2.684
			10:COMB	11:COMB	19:COMB	10:COMB	19:COMB	8:COMB3
			-63.591	-10.269	-16.589	-3.818	-22.515	-0.190
			15:COMB	22:COMB	14:COMB	15:COMB	14:COMB	17:COMB
296	347	+ve	82.511	1.489	3.121	1.410	7.175	3.852
			10:COMB	7:COMB3	15:COMB	10:COMB	10:COMB	7:COMB3
			-67.812	0.000	-3.339	-0.477	-6.785	-0.519
			15:COMB	-	10:COMB	15:COMB	15:COMB	18:COMB
	324	-ve	82.511	1.489	3.121	1.410	7.794	0.000
			10:COMB	7:COMB3	15:COMB	10:COMB	15:COMB	-
			-67.812	0.000	-3.339	-0.477	-8.423	-3.882
			15:COMB	-	10:COMB	15:COMB	10:COMB	6:COMB2
297	324	+ve	82.041	0.265	1.079	1.603	1.962	0.000
			10:COMB	19:COMB	18:COMB	14:COMB	7:COMB3	-
			-67.708	-2.410	-1.486	0.000	-1.335	-3.308
			15:COMB	14:COMB	7:COMB3	-	18:COMB	6:COMB2
	336	-ve	82.041	0.265	1.079	1.603	2.768	7.019
			10:COMB	19:COMB	18:COMB	14:COMB	18:COMB	14:COMB
			-67.708	-2.410	-1.486	0.000	-3.689	-2.637
			15:COMB	14:COMB	7:COMB3	-	7:COMB3	19:COMB

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
298	336	+ve	58.129	0.696	3.244	0.013	7.641	6.264
			14:COMB	19:COMB	18:COMB	19:COMB	7:COMB3	15:COMB
			-46.856	-0.790	-3.322	-1.030	-7.458	-9.939
			19:COMB	14:COMB	7:COMB3	14:COMB	18:COMB	10:COMB
	348	-ve	58.129	0.696	3.244	0.013	5.738	4.272
			14:COMB	19:COMB	18:COMB	19:COMB	18:COMB	15:COMB
			-46.856	-0.790	-3.322	-1.030	-5.876	-7.564
			19:COMB	14:COMB	7:COMB3	14:COMB	7:COMB3	10:COMB
299	348	+ve	58.519	3.466	2.989	0.000	7.018	5.688
			14:COMB	15:COMB	7:COMB3	-	18:COMB	15:COMB
			-47.535	-5.488	-2.665	-1.685	-7.773	-9.774
			19:COMB	10:COMB	18:COMB	6:COMB2	7:COMB3	10:COMB
	321	-ve	58.519	3.466	2.989	0.000	3.709	11.309
			14:COMB	15:COMB	7:COMB3	-	7:COMB3	10:COMB
			-47.535	-5.488	-2.665	-1.685	-3.222	-7.628
			19:COMB	10:COMB	18:COMB	6:COMB2	18:COMB	15:COMB
301	320	+ve	28.484	2.860	5.024	1.786	10.148	1.293
			7:COMB3	15:COMB	7:COMB3	14:COMB	18:COMB	18:COMB
			-22.397	-4.541	-4.239	-1.650	-11.964	-3.170
			18:COMB	10:COMB	18:COMB	19:COMB	7:COMB3	7:COMB3
	328	-ve	28.484	2.860	5.024	1.786	14.014	24.558
			7:COMB3	15:COMB	7:COMB3	14:COMB	7:COMB3	10:COMB
			-22.397	-4.541	-4.239	-1.650	-11.772	-17.740
			18:COMB	10:COMB	18:COMB	19:COMB	18:COMB	15:COMB
302	349	+ve	32.844	1.886	4.248	2.750	12.439	9.176
			7:COMB3	15:COMB	7:COMB3	10:COMB	18:COMB	15:COMB
			-26.027	-1.834	-3.686	-1.791	-14.382	-9.758
			18:COMB	10:COMB	18:COMB	15:COMB	7:COMB3	10:COMB
	320	-ve	32.844	1.886	4.248	2.750	13.261	2.172
			7:COMB3	15:COMB	7:COMB3	10:COMB	7:COMB3	10:COMB
			-26.027	-1.834	-3.686	-1.791	-11.544	-3.094
			18:COMB	10:COMB	18:COMB	15:COMB	18:COMB	15:COMB
303	323	+ve	32.293	0.000	2.781	1.053	5.444	0.939
			7:COMB3	20:COMB	7:COMB3	10:COMB	18:COMB	16:COMB
			-24.270	-0.481	-2.354	-0.623	-6.383	-1.837
			18:COMB	13:COMB	18:COMB	15:COMB	7:COMB3	9:COMB3
	349	-ve	32.293	0.000	2.781	1.053	8.033	1.327
			7:COMB3	20:COMB	7:COMB3	10:COMB	7:COMB3	15:COMB
			-24.270	-0.481	-2.354	-0.623	-6.760	0.000
			18:COMB	13:COMB	18:COMB	15:COMB	18:COMB	-
304	330	+ve	31.700	0.158	1.939	0.918	5.559	0.868
			7:COMB3	13:COMB	7:COMB3	14:COMB	18:COMB	15:COMB
			-23.360	-0.171	-1.665	0.000	-6.479	-2.065
			18:COMB	20:COMB	18:COMB	-	7:COMB3	10:COMB
	323	-ve	31.700	0.158	1.939	0.918	6.051	1.142
			7:COMB3	13:COMB	7:COMB3	14:COMB	7:COMB3	16:COMB
			-23.360	-0.171	-1.665	0.000	-5.197	-2.259
			18:COMB	20:COMB	18:COMB	-	18:COMB	9:COMB3

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
305	326	+ve	25.416	0.730	1.630	0.000	3.965	0.000
			14:COMB	8:COMB3	15:COMB	-	14:COMB	-
			-20.428	-0.176	-1.709	-0.648	-3.734	-1.964
			19:COMB	17:COMB	10:COMB	9:COMB3	19:COMB	11:COMB
	330	-ve	25.416	0.730	1.630	0.000	4.849	0.315
			14:COMB	8:COMB3	15:COMB	-	15:COMB	18:COMB
			-20.428	-0.176	-1.709	-0.648	-5.032	-5.591
			19:COMB	17:COMB	10:COMB	9:COMB3	10:COMB	7:COMB3
306	343	+ve	30.466	1.268	2.572	0.261	9.420	6.094
			14:COMB	7:COMB3	15:COMB	15:COMB	14:COMB	7:COMB3
			-25.161	-0.017	-2.814	-0.814	-8.638	-0.915
			19:COMB	18:COMB	10:COMB	10:COMB	19:COMB	18:COMB
	326	-ve	30.466	1.268	2.572	0.261	7.733	0.000
			14:COMB	7:COMB3	15:COMB	15:COMB	15:COMB	-
			-25.161	-0.017	-2.814	-0.814	-8.490	-2.175
			19:COMB	18:COMB	10:COMB	10:COMB	10:COMB	6:COMB2
307	327	+ve	73.492	1.617	1.026	0.528	1.189	1.220
			22:COMB	19:COMB	7:COMB3	19:COMB	17:COMB	17:COMB
			-75.171	-2.457	-0.921	-1.448	-1.538	-3.157
			11:COMB	14:COMB	18:COMB	14:COMB	8:COMB3	8:COMB3
	343	-ve	73.492	1.617	1.026	0.528	4.316	11.959
			22:COMB	19:COMB	7:COMB3	19:COMB	7:COMB3	14:COMB
			-75.171	-2.457	-0.921	-1.448	-4.110	-9.427
			11:COMB	14:COMB	18:COMB	14:COMB	18:COMB	19:COMB
308	166	+ve	54.873	36.920	35.213	0.000	69.710	34.403
			15:COMB	6:COMB2	19:COMB	-	14:COMB	14:COMB
			-62.189	0.000	-43.044	-9.825	-55.650	-23.204
			10:COMB	-	14:COMB	7:COMB3	19:COMB	19:COMB
	44	-ve	54.873	36.920	35.213	0.000	34.975	15.621
			15:COMB	6:COMB2	19:COMB	-	14:COMB	22:COMB
			-62.189	0.000	-43.044	-9.825	-27.234	-44.207
			10:COMB	-	14:COMB	7:COMB3	19:COMB	11:COMB
309	62	+ve	100.309	9.782	53.029	0.622	69.399	53.772
			16:COMB	11:COMB	14:COMB	14:COMB	19:COMB	14:COMB
			-104.363	-10.304	-43.705	-4.354	-82.240	-31.371
			9:COMB3	22:COMB	19:COMB	19:COMB	14:COMB	19:COMB
	166	-ve	100.309	9.782	53.029	0.622	75.905	82.462
			16:COMB	11:COMB	14:COMB	14:COMB	14:COMB	14:COMB
			-104.363	-10.304	-43.705	-4.354	-60.940	-58.504
			9:COMB3	22:COMB	19:COMB	19:COMB	19:COMB	19:COMB
310	33	+ve	103.855	19.934	33.399	23.380	3.440	23.868
			16:COMB	11:COMB	19:COMB	14:COMB	10:COMB	11:COMB
			-109.754	-19.954	-39.654	-26.025	-2.730	0.000
			9:COMB3	22:COMB	14:COMB	19:COMB	15:COMB	-
	62	-ve	103.855	19.934	33.399	23.380	71.489	50.064
			16:COMB	11:COMB	19:COMB	14:COMB	19:COMB	14:COMB
			-109.754	-19.954	-39.654	-26.025	-84.658	-26.093
			9:COMB3	22:COMB	14:COMB	19:COMB	14:COMB	19:COMB

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
311	47	+ve	114.476	14.912	68.882	13.800	97.221	38.736
			15:COMB	19:COMB	11:COMB	14:COMB	22:COMB	11:COMB
			-115.480	-16.285	-67.579	-15.813	-98.299	-18.646
			10:COMB	14:COMB	22:COMB	19:COMB	11:COMB	22:COMB
	33	-ve	114.476	14.912	68.882	13.800	5.219	17.154
			15:COMB	19:COMB	11:COMB	14:COMB	7:COMB3	6:COMB2
			-115.480	-16.285	-67.579	-15.813	-4.352	0.000
			10:COMB	14:COMB	22:COMB	19:COMB	18:COMB	-
313	49	+ve	89.786	27.627	34.886	35.192	107.185	209.083
			16:COMB	11:COMB	22:COMB	14:COMB	11:COMB	11:COMB
			-92.071	-27.238	-37.029	-34.966	-97.023	-187.083
			9:COMB3	22:COMB	11:COMB	19:COMB	22:COMB	22:COMB
	47	-ve	89.786	27.627	34.886	35.192	113.399	42.447
			16:COMB	11:COMB	22:COMB	14:COMB	22:COMB	11:COMB
			-92.071	-27.238	-37.029	-34.966	-116.164	-22.795
			9:COMB3	22:COMB	11:COMB	19:COMB	11:COMB	22:COMB
315	471	+ve	74.771	81.005	1.466	5.850	10.408	0.000
			7:COMB3	6:COMB2	21:COMB	10:COMB	19:COMB	-
			-55.469	0.000	-3.800	-2.540	-12.377	-25.859
			18:COMB	-	12:COMB	15:COMB	14:COMB	6:COMB2
	333	-ve	74.771	81.005	1.466	5.850	10.646	0.000
			7:COMB3	6:COMB2	21:COMB	10:COMB	19:COMB	-
			-55.469	0.000	-3.800	-2.540	-14.022	-74.657
			18:COMB	-	12:COMB	15:COMB	14:COMB	6:COMB2
316	470	+ve	107.210	76.033	1.709	10.015	8.872	4.306
			7:COMB3	6:COMB2	21:COMB	14:COMB	15:COMB	15:COMB
			-84.800	0.000	-5.381	-7.738	-9.285	-12.533
			18:COMB	-	12:COMB	19:COMB	10:COMB	10:COMB
	471	-ve	107.210	76.033	1.709	10.015	9.138	0.000
			7:COMB3	6:COMB2	21:COMB	14:COMB	19:COMB	-
			-84.800	0.000	-5.381	-7.738	-11.387	-45.572
			18:COMB	-	12:COMB	19:COMB	14:COMB	6:COMB2
318	355	+ve	115.186	0.000	21.335	4.217	19.501	0.000
			7:COMB3	-	10:COMB	7:COMB3	15:COMB	-
			-88.194	-10.258	-20.962	-3.284	-20.297	-19.199
			18:COMB	10:COMB	15:COMB	18:COMB	10:COMB	7:COMB3
	470	-ve	115.186	0.000	21.335	4.217	9.006	1.142
			7:COMB3	-	10:COMB	7:COMB3	15:COMB	18:COMB
			-88.194	-10.258	-20.962	-3.284	-9.616	-16.371
			18:COMB	10:COMB	15:COMB	18:COMB	10:COMB	7:COMB3
319	325	+ve	196.080	11.367	1.519	8.750	17.203	4.371
			7:COMB3	7:COMB3	15:COMB	7:COMB3	11:COMB	15:COMB
			-150.149	-0.821	-1.726	-4.856	-17.368	-9.957
			18:COMB	18:COMB	10:COMB	18:COMB	22:COMB	10:COMB
	355	-ve	196.080	11.367	1.519	8.750	20.310	0.000
			7:COMB3	7:COMB3	15:COMB	7:COMB3	15:COMB	-
			-150.149	-0.821	-1.726	-4.856	-21.099	-32.915
			18:COMB	18:COMB	10:COMB	18:COMB	10:COMB	7:COMB3

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
320	93	+ve	195.910	8.098	9.651	5.441	14.469	37.622
			7:COMB3	11:COMB3	11:COMB3	15:COMB	22:COMB3	7:COMB3
			-150.326	-2.858	-8.914	-2.122	-19.684	-20.059
			18:COMB	22:COMB3	22:COMB3	10:COMB	11:COMB3	18:COMB
	325	-ve	195.910	8.098	9.651	5.441	25.688	4.331
			7:COMB3	11:COMB3	11:COMB3	15:COMB	19:COMB3	15:COMB
			-150.326	-2.858	-8.914	-2.122	-27.452	-11.310
			18:COMB	22:COMB3	22:COMB3	10:COMB	14:COMB3	10:COMB
321	356	+ve	199.530	4.287	24.896	15.727	28.150	41.976
			7:COMB3	19:COMB3	15:COMB3	7:COMB3	10:COMB3	7:COMB3
			-153.601	-0.765	-45.359	-9.137	-20.041	-22.189
			18:COMB	14:COMB3	10:COMB3	18:COMB	15:COMB3	18:COMB
	93	-ve	199.530	4.287	24.896	15.727	4.286	38.726
			7:COMB3	19:COMB3	15:COMB3	7:COMB3	20:COMB3	7:COMB3
			-153.601	-0.765	-45.359	-9.137	-12.352	-21.723
			18:COMB	14:COMB3	10:COMB3	18:COMB	13:COMB3	18:COMB
322	468	+ve	113.697	8.165	7.323	3.316	26.766	24.253
			7:COMB3	7:COMB3	12:COMB3	8:COMB3	10:COMB3	7:COMB3
			-84.547	0.000	-4.714	-1.684	-20.247	-10.516
			18:COMB	-	21:COMB3	17:COMB	15:COMB3	18:COMB
	356	-ve	113.697	8.165	7.323	3.316	27.368	20.071
			7:COMB3	7:COMB3	12:COMB3	8:COMB3	10:COMB3	7:COMB3
			-84.547	0.000	-4.714	-1.684	-19.513	-12.178
			18:COMB	-	21:COMB3	17:COMB	15:COMB3	18:COMB
323	467	+ve	79.999	0.000	6.957	11.723	22.948	0.000
			7:COMB3	-	22:COMB3	7:COMB3	10:COMB3	-
			-59.152	-60.057	-11.745	-10.037	-14.440	-22.852
			18:COMB	7:COMB3	11:COMB3	18:COMB	15:COMB3	6:COMB2
	468	-ve	79.999	0.000	6.957	11.723	24.666	11.270
			7:COMB3	-	22:COMB3	7:COMB3	10:COMB3	11:COMB3
			-59.152	-60.057	-11.745	-10.037	-18.552	-1.089
			18:COMB	7:COMB3	11:COMB3	18:COMB	15:COMB3	22:COMB
325	333	+ve	75.474	0.000	22.791	0.000	19.109	0.000
			7:COMB3	-	18:COMB3	-	11:COMB3	-
			-59.057	-85.814	-24.616	-6.360	-19.762	-72.921
			18:COMB	6:COMB2	7:COMB3	10:COMB	22:COMB3	6:COMB2
	473	-ve	75.474	0.000	22.791	0.000	8.339	0.000
			7:COMB3	-	18:COMB3	-	19:COMB3	-
			-59.057	-85.814	-24.616	-6.360	-9.899	-30.219
			18:COMB	6:COMB2	7:COMB3	10:COMB	14:COMB3	6:COMB2
326	473	+ve	103.417	0.000	31.741	4.341	10.625	0.000
			7:COMB3	-	18:COMB3	15:COMB	11:COMB3	-
			-81.977	-78.208	-33.395	-6.809	-11.808	-49.564
			18:COMB	6:COMB2	7:COMB3	10:COMB	22:COMB3	6:COMB2
	474	-ve	103.417	0.000	31.741	4.341	6.165	0.000
			7:COMB3	-	18:COMB3	15:COMB	18:COMB3	-
			-81.977	-78.208	-33.395	-6.809	-8.175	-11.485
			18:COMB	6:COMB2	7:COMB3	10:COMB	7:COMB3	14:COMB

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
327	474	+ve	141.600	11.167	34.077	7.648	5.059	8.279
			7:COMB3	11:COMB3	18:COMB3	14:COMB3	17:COMB3	19:COMB3
			-114.406	0.000	-41.972	-6.900	-6.972	-29.746
			18:COMB3	-	7:COMB3	19:COMB3	8:COMB3	14:COMB3
	169	-ve	141.600	11.167	34.077	7.648	21.798	4.757
			7:COMB3	11:COMB3	18:COMB3	14:COMB3	18:COMB3	15:COMB3
			-114.406	0.000	-41.972	-6.900	-27.659	-32.053
			18:COMB3	-	7:COMB3	19:COMB3	7:COMB3	10:COMB3
328	169	+ve	240.315	3.348	12.300	26.462	23.725	7.329
			7:COMB3	19:COMB3	22:COMB3	14:COMB3	18:COMB3	15:COMB3
			-194.066	-17.232	-9.592	-16.240	-29.909	-55.992
			18:COMB3	14:COMB3	11:COMB3	19:COMB3	7:COMB3	10:COMB3
	77	-ve	240.315	3.348	12.300	26.462	34.440	4.478
			7:COMB3	19:COMB3	22:COMB3	14:COMB3	22:COMB3	15:COMB3
			-194.066	-17.232	-9.592	-16.240	-35.772	-28.271
			18:COMB3	14:COMB3	11:COMB3	19:COMB3	11:COMB3	10:COMB3
329	77	+ve	235.136	0.805	17.450	5.964	34.886	5.415
			7:COMB3	19:COMB3	7:COMB3	22:COMB3	18:COMB3	15:COMB3
			-189.077	-12.311	-16.809	-5.900	-36.274	-31.228
			18:COMB3	14:COMB3	18:COMB3	11:COMB3	7:COMB3	10:COMB3
	322	-ve	235.136	0.805	17.450	5.964	30.934	22.819
			7:COMB3	19:COMB3	7:COMB3	22:COMB3	7:COMB3	12:COMB3
			-189.077	-12.311	-16.809	-5.900	-29.850	-4.319
			18:COMB3	14:COMB3	18:COMB3	11:COMB3	18:COMB3	21:COMB3
330	322	+ve	239.842	0.827	6.360	2.226	19.288	21.416
			7:COMB3	18:COMB3	10:COMB3	15:COMB3	7:COMB3	12:COMB3
			-193.100	-6.297	-5.177	-6.005	-20.044	-4.675
			18:COMB3	7:COMB3	15:COMB3	10:COMB3	18:COMB3	21:COMB3
	362	-ve	239.842	0.827	6.360	2.226	3.667	37.842
			7:COMB3	18:COMB3	10:COMB3	15:COMB3	7:COMB3	8:COMB3
			-193.100	-6.297	-5.177	-6.005	-0.749	-4.108
			18:COMB3	7:COMB3	15:COMB3	10:COMB3	18:COMB3	17:COMB3
331	362	+ve	137.234	0.000	5.586	1.231	4.187	15.819
			7:COMB3	-	15:COMB3	19:COMB3	7:COMB3	8:COMB3
			-110.404	-8.833	-5.117	-4.765	-1.360	-2.330
			18:COMB3	13:COMB3	10:COMB3	14:COMB3	18:COMB3	17:COMB3
	476	-ve	137.234	0.000	5.586	1.231	6.985	19.007
			7:COMB3	-	15:COMB3	19:COMB3	7:COMB3	8:COMB3
			-110.404	-8.833	-5.117	-4.765	-3.917	0.000
			18:COMB3	13:COMB3	10:COMB3	14:COMB3	18:COMB3	-
332	476	+ve	123.388	59.075	4.400	11.419	5.847	28.300
			7:COMB3	11:COMB3	19:COMB3	14:COMB3	7:COMB3	7:COMB3
			-100.950	0.000	-7.339	-9.242	-3.027	-11.752
			18:COMB3	-	14:COMB3	19:COMB3	18:COMB3	18:COMB3
	477	-ve	123.388	59.075	4.400	11.419	6.627	6.614
			7:COMB3	11:COMB3	19:COMB3	14:COMB3	7:COMB3	15:COMB3
			-100.950	0.000	-7.339	-9.242	-5.276	-27.984
			18:COMB3	-	14:COMB3	19:COMB3	18:COMB3	10:COMB3

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
333	477	+ve	114.848	58.787	1.361	5.007	7.100	9.663
			7:COMB3	6:COMB2	21:COMB	10:COMB	7:COMB3	16:COMB
			-97.776	0.000	-3.131	-3.456	-5.616	-21.434
			18:COMB	-	12:COMB	15:COMB	18:COMB	9:COMB3
	51	-ve	114.848	58.787	1.361	5.007	6.342	0.000
			7:COMB3	6:COMB2	21:COMB	10:COMB	7:COMB3	-
			-97.776	0.000	-3.131	-3.456	-5.835	-48.946
			18:COMB	-	12:COMB	15:COMB	18:COMB	9:COMB3
334	23	+ve	331.302	27.465	27.200	20.928	25.379	33.208
			7:COMB3	15:COMB	7:COMB3	15:COMB	18:COMB	10:COMB
			-282.294	-34.473	-24.405	-32.248	-29.416	-30.181
			18:COMB	10:COMB	18:COMB	10:COMB	7:COMB3	15:COMB
	38	-ve	331.302	27.465	27.200	20.928	96.222	192.444
			7:COMB3	15:COMB	7:COMB3	15:COMB	7:COMB3	10:COMB
			-282.294	-34.473	-24.405	-32.248	-87.351	-157.046
			18:COMB	10:COMB	18:COMB	10:COMB	18:COMB	15:COMB
335	211	+ve	319.129	18.627	67.808	6.591	37.108	20.942
			7:COMB3	15:COMB	18:COMB	18:COMB	7:COMB3	10:COMB
			-271.849	-22.730	-73.686	-3.488	-34.521	-20.374
			18:COMB	10:COMB	7:COMB3	7:COMB3	18:COMB	15:COMB
	23	-ve	319.129	18.627	67.808	6.591	6.047	34.496
			7:COMB3	15:COMB	18:COMB	18:COMB	9:COMB3	10:COMB
			-271.849	-22.730	-73.686	-3.488	-6.965	-31.482
			18:COMB	10:COMB	7:COMB3	7:COMB3	16:COMB	15:COMB
336	181	+ve	378.478	22.819	28.834	3.159	78.509	88.907
			7:COMB3	15:COMB	7:COMB3	20:COMB	18:COMB	15:COMB
			-326.528	-23.841	-26.599	-8.336	-85.426	-89.913
			18:COMB	10:COMB	18:COMB	13:COMB	7:COMB3	10:COMB
	211	-ve	378.478	22.819	28.834	3.159	55.732	26.799
			7:COMB3	15:COMB	7:COMB3	20:COMB	7:COMB3	10:COMB
			-326.528	-23.841	-26.599	-8.336	-51.705	-22.806
			18:COMB	10:COMB	18:COMB	13:COMB	18:COMB	15:COMB
338	480	+ve	205.214	15.342	81.414	4.321	28.787	51.633
			7:COMB3	7:COMB3	18:COMB	20:COMB	18:COMB	15:COMB
			-175.532	-4.379	-88.228	-9.933	-31.528	-46.901
			18:COMB	18:COMB	7:COMB3	13:COMB	7:COMB3	10:COMB
	181	-ve	205.214	15.342	81.414	4.321	69.495	45.225
			7:COMB3	7:COMB3	18:COMB	20:COMB	18:COMB	15:COMB
			-175.532	-4.379	-88.228	-9.933	-75.642	-45.974
			18:COMB	18:COMB	7:COMB3	13:COMB	7:COMB3	10:COMB
340	369	+ve	32.442	15.804	0.948	9.532	4.415	51.364
			16:COMB	7:COMB3	19:COMB	18:COMB	14:COMB	7:COMB3
			-113.148	-3.675	-1.358	-10.913	-3.082	-11.945
			9:COMB3	18:COMB	14:COMB	7:COMB3	19:COMB	18:COMB
	52	-ve	32.442	15.804	0.948	9.532	0.000	0.000
			16:COMB	7:COMB3	19:COMB	18:COMB	-	-
			-113.148	-3.675	-1.358	-10.913	0.000	0.000
			9:COMB3	18:COMB	14:COMB	7:COMB3	-	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
341	370	+ve	302.331	1.867	6.010	12.702	19.577	3.198
			7:COMB3	19:COMB3	18:COMB3	10:COMB	7:COMB3	21:COMB3
			-102.388	-69.607	-11.949	-9.773	-13.072	-73.249
			18:COMB	14:COMB3	7:COMB3	15:COMB	18:COMB3	12:COMB3
	577	-ve	302.331	1.867	6.010	12.702	0.000	86.402
			7:COMB3	19:COMB3	18:COMB3	10:COMB	-	14:COMB3
			-102.388	-69.607	-11.949	-9.773	-6.114	-10.810
			18:COMB	14:COMB3	7:COMB3	15:COMB	7:COMB3	19:COMB3
342	371	+ve	299.406	0.000	209.583	16.049	46.915	110.884
			10:COMB	-	14:COMB3	22:COMB	14:COMB3	7:COMB3
			-287.150	-130.062	-205.280	-16.910	-44.419	-76.603
			15:COMB	10:COMB3	19:COMB3	11:COMB3	19:COMB3	18:COMB3
	593	-ve	299.406	0.000	209.583	16.049	204.106	159.046
			10:COMB	-	14:COMB3	22:COMB	14:COMB3	7:COMB3
			-287.150	-130.062	-205.280	-16.910	-198.383	-6.229
			15:COMB	10:COMB3	19:COMB3	11:COMB3	19:COMB3	18:COMB3
343	7848	+ve	52.051	15.325	18.469	11.473	11.575	11.302
			18:COMB	15:COMB3	10:COMB3	16:COMB	22:COMB3	15:COMB3
			-111.600	-53.061	-10.333	-15.441	-21.753	-135.329
			7:COMB3	10:COMB3	15:COMB3	9:COMB3	11:COMB3	10:COMB3
	591	-ve	52.051	15.325	18.469	11.473	39.387	0.000
			18:COMB	15:COMB3	10:COMB3	16:COMB	10:COMB3	-
			-111.600	-53.061	-10.333	-15.441	-34.111	-42.977
			7:COMB3	10:COMB3	15:COMB3	9:COMB3	15:COMB3	12:COMB3
344	373	+ve	33.102	46.942	86.955	3.103	20.640	131.773
			21:COMB	15:COMB3	10:COMB3	16:COMB	15:COMB3	15:COMB3
			-41.398	-55.624	-45.210	-21.180	-47.973	-191.326
			12:COMB	10:COMB3	15:COMB3	9:COMB3	10:COMB3	10:COMB3
	7848	-ve	33.102	46.942	86.955	3.103	82.464	61.359
			21:COMB	15:COMB3	10:COMB3	16:COMB	10:COMB3	15:COMB3
			-41.398	-55.624	-45.210	-21.180	-47.177	-107.888
			12:COMB	10:COMB3	15:COMB3	9:COMB3	15:COMB3	10:COMB3
351	345	+ve	311.112	43.693	3.395	0.000	71.434	213.877
			22:COMB	11:COMB3	10:COMB3	-	14:COMB3	11:COMB3
			-310.703	-31.456	-1.237	-21.918	-65.205	-174.087
			11:COMB3	22:COMB3	15:COMB3	8:COMB3	19:COMB3	22:COMB3
	376	-ve	311.112	43.693	3.395	0.000	79.880	54.593
			22:COMB	11:COMB3	10:COMB3	-	14:COMB3	19:COMB3
			-310.703	-31.456	-1.237	-21.918	-65.645	-60.213
			11:COMB3	22:COMB3	15:COMB3	8:COMB3	19:COMB3	14:COMB3
356	95	+ve	54.047	0.000	15.514	4.499	0.623	0.000
			22:COMB	-	22:COMB3	6:COMB2	18:COMB3	-
			-58.175	-131.741	-16.245	0.000	-1.373	-118.564
			11:COMB3	11:COMB3	11:COMB3	-	7:COMB3	6:COMB2
	7371	-ve	54.047	0.000	15.514	4.499	12.910	19.999
			22:COMB	-	22:COMB3	6:COMB2	22:COMB3	19:COMB3
			-58.175	-131.741	-16.245	0.000	-14.249	-54.006
			11:COMB3	11:COMB3	11:COMB3	-	11:COMB3	14:COMB3

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
359	62	+ve	77.580	10.712	2.016	3.722	5.095	22.226
			19:COMB	15:COMB	10:COMB	7:COMB3	15:COMB	19:COMB
			-93.248	-10.209	-1.875	-2.023	-5.423	-23.219
			14:COMB	10:COMB	15:COMB	18:COMB	10:COMB	14:COMB
	338	-ve	77.580	10.712	2.016	3.722	4.266	28.286
			19:COMB	15:COMB	10:COMB	7:COMB3	9:COMB3	18:COMB
			-93.248	-10.209	-1.875	-2.023	-3.924	-31.662
			14:COMB	10:COMB	15:COMB	18:COMB	16:COMB	7:COMB3
360	338	+ve	61.403	18.077	56.398	3.392	50.964	26.235
			19:COMB	18:COMB	14:COMB	11:COMB	19:COMB	18:COMB
			-76.663	-31.652	-54.430	-0.752	-52.941	-33.136
			14:COMB	7:COMB3	19:COMB	22:COMB	14:COMB	7:COMB3
	375	-ve	61.403	18.077	56.398	3.392	70.135	35.936
			19:COMB	18:COMB	14:COMB	11:COMB	14:COMB	7:COMB3
			-76.663	-31.652	-54.430	-0.752	-67.816	-13.214
			14:COMB	7:COMB3	19:COMB	22:COMB	19:COMB	18:COMB
361	47	+ve	172.768	7.583	1.294	0.453	2.955	22.541
			22:COMB	19:COMB	9:COMB3	20:COMB	15:COMB	19:COMB
			-176.502	-8.023	-0.769	-1.765	-4.416	-24.578
			11:COMB	14:COMB	16:COMB	13:COMB	10:COMB	14:COMB
	339	-ve	172.768	7.583	1.294	0.453	2.781	16.672
			22:COMB	19:COMB	9:COMB3	20:COMB	13:COMB	14:COMB
			-176.502	-8.023	-0.769	-1.765	-1.543	-16.448
			11:COMB	14:COMB	16:COMB	13:COMB	20:COMB	19:COMB
362	339	+ve	185.719	6.342	22.890	3.849	25.632	15.277
			22:COMB	18:COMB	14:COMB	18:COMB	19:COMB	22:COMB
			-189.071	-17.347	-21.861	-8.591	-26.629	-15.951
			11:COMB	7:COMB3	19:COMB	7:COMB3	14:COMB	11:COMB
	371	-ve	185.719	6.342	22.890	3.849	26.015	28.406
			22:COMB	18:COMB	14:COMB	18:COMB	14:COMB	7:COMB3
			-189.071	-17.347	-21.861	-8.591	-24.645	-3.769
			11:COMB	7:COMB3	19:COMB	7:COMB3	19:COMB	18:COMB
365	341	+ve	78.752	0.000	19.505	15.259	41.874	3.336
			22:COMB	-	15:COMB	18:COMB	10:COMB	22:COMB
			-278.798	-33.419	-24.717	-18.765	-34.488	-145.778
			11:COMB	10:COMB	10:COMB	7:COMB3	15:COMB	11:COMB
	373	-ve	78.752	0.000	19.505	15.259	10.374	48.335
			22:COMB	-	15:COMB	18:COMB	15:COMB	22:COMB
			-278.798	-33.419	-24.717	-18.765	-14.978	-102.849
			11:COMB	10:COMB	10:COMB	7:COMB3	10:COMB	11:COMB
366	373	+ve	330.745	0.000	4.931	36.600	29.046	16.316
			11:COMB	-	21:COMB	14:COMB	7:COMB3	20:COMB
			0.000	-51.178	-9.805	-31.804	-22.830	-18.504
			-	9:COMB3	12:COMB	19:COMB	18:COMB	13:COMB
	566	-ve	330.745	0.000	4.931	36.600	28.805	102.596
			11:COMB	-	21:COMB	14:COMB	19:COMB	10:COMB
			0.000	-51.178	-9.805	-31.804	-33.261	0.000
			-	9:COMB3	12:COMB	19:COMB	14:COMB	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
367	49	+ve	202.841	170.716	27.681	21.007	44.814	637.746
			7:COMB3	19:COMB	11:COMB	13:COMB	22:COMB	11:COMB
			-92.065	-172.934	-25.997	-10.272	-46.428	-591.845
			18:COMB	14:COMB	22:COMB	20:COMB	11:COMB	22:COMB
	341	-ve	202.841	170.716	27.681	21.007	113.912	418.881
			7:COMB3	19:COMB	11:COMB	13:COMB	11:COMB	14:COMB
			-92.065	-172.934	-25.997	-10.272	-105.766	-360.131
			18:COMB	14:COMB	22:COMB	20:COMB	22:COMB	19:COMB
368	305	+ve	55.630	24.669	5.104	1.892	6.612	0.000
			22:COMB	11:COMB	14:COMB	13:COMB	19:COMB	-
			-124.781	-22.547	-3.938	-1.296	-8.039	-75.921
			11:COMB	22:COMB	19:COMB	20:COMB	14:COMB	11:COMB
	546	-ve	55.630	24.669	5.104	1.892	3.954	32.603
			22:COMB	11:COMB	14:COMB	13:COMB	14:COMB	22:COMB
			-124.781	-22.547	-3.938	-1.296	-2.642	-133.884
			11:COMB	22:COMB	19:COMB	20:COMB	19:COMB	11:COMB
369	288	+ve	0.000	8.439	3.390	6.824	5.133	70.647
			-	11:COMB	11:COMB	13:COMB	15:COMB	22:COMB
			-69.359	-4.377	-1.683	-5.686	-11.451	-108.385
			6:COMB2	22:COMB	22:COMB	20:COMB	10:COMB	11:COMB
	305	-ve	0.000	8.439	3.390	6.824	16.290	92.512
			-	11:COMB	11:COMB	13:COMB	11:COMB	22:COMB
			-69.359	-4.377	-1.683	-5.686	-14.077	-150.548
			6:COMB2	22:COMB	22:COMB	20:COMB	22:COMB	11:COMB
370	383	+ve	4.947	0.000	4.822	34.418	30.144	0.000
			15:COMB	-	15:COMB	7:COMB3	10:COMB	-
			-8.196	-7.889	-5.424	-17.553	-26.801	-43.843
			10:COMB	7:COMB3	10:COMB	18:COMB	15:COMB	7:COMB3
	73	-ve	4.947	0.000	4.822	34.418	0.000	0.000
			15:COMB	-	15:COMB	7:COMB3	-	-
			-8.196	-7.889	-5.424	-17.553	0.000	0.000
			10:COMB	7:COMB3	10:COMB	18:COMB	-	-
371	60	+ve	18.739	4.762	51.956	0.266	14.445	4.037
			21:COMB	22:COMB	10:COMB	15:COMB	15:COMB	22:COMB
			-13.650	-41.849	-23.248	-6.830	-42.392	-29.575
			12:COMB	11:COMB	15:COMB	10:COMB	10:COMB	11:COMB
	7927	-ve	18.739	4.762	51.956	0.266	63.424	55.656
			21:COMB	22:COMB	10:COMB	15:COMB	10:COMB	11:COMB
			-13.650	-41.849	-23.248	-6.830	-32.903	-5.661
			12:COMB	11:COMB	15:COMB	10:COMB	15:COMB	22:COMB
373	79	+ve	37.318	28.976	15.199	0.901	27.791	65.181
			18:COMB	7:COMB3	7:COMB3	17:COMB	18:COMB	7:COMB3
			-101.007	-20.461	-14.017	-4.216	-29.140	-43.431
			7:COMB3	18:COMB	18:COMB	8:COMB3	7:COMB3	18:COMB
	27	-ve	37.318	28.976	15.199	0.901	34.141	41.756
			18:COMB	7:COMB3	7:COMB3	17:COMB	7:COMB3	18:COMB
			-101.007	-20.461	-14.017	-4.216	-30.569	-55.460
			7:COMB3	18:COMB	18:COMB	8:COMB3	18:COMB	7:COMB3

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
374	27	+ve	48.749	31.343	25.329	5.958	9.225	43.084
			18:COMB	7:COMB3	15:COMB	11:COMB	11:COMB	18:COMB
			-112.959	-15.685	-27.392	-1.787	-7.421	-48.594
			7:COMB3	18:COMB	10:COMB	22:COMB	22:COMB	7:COMB3
	7932	-ve	48.749	31.343	25.329	5.958	83.963	90.438
			18:COMB	7:COMB3	15:COMB	11:COMB	15:COMB	18:COMB
			-112.959	-15.685	-27.392	-1.787	-88.386	-143.217
			7:COMB3	18:COMB	10:COMB	22:COMB	10:COMB	7:COMB3
375	384	+ve	19.372	7.369	69.027	0.929	21.141	1.797
			9:COMB3	22:COMB	10:COMB	20:COMB	15:COMB	20:COMB
			0.000	-48.023	-31.397	-3.328	-55.340	-47.045
			-	11:COMB	15:COMB	13:COMB	10:COMB	13:COMB
	7938	-ve	19.372	7.369	69.027	0.929	87.860	57.463
			9:COMB3	22:COMB	10:COMB	20:COMB	10:COMB	7:COMB3
			0.000	-48.023	-31.397	-3.328	-43.994	-18.370
			-	11:COMB	15:COMB	13:COMB	15:COMB	18:COMB
376	385	+ve	134.647	25.339	4.336	11.164	17.229	66.745
			18:COMB	15:COMB	7:COMB3	8:COMB3	18:COMB	15:COMB
			-152.459	-32.474	-3.980	-8.430	-18.554	-84.777
			7:COMB3	10:COMB	18:COMB	17:COMB	7:COMB3	10:COMB
	386	-ve	134.647	25.339	4.336	11.164	3.008	58.272
			18:COMB	15:COMB	7:COMB3	8:COMB3	13:COMB	10:COMB
			-152.459	-32.474	-3.980	-8.430	-2.765	-44.874
			7:COMB3	10:COMB	18:COMB	17:COMB	20:COMB	15:COMB
377	386	+ve	126.104	30.284	67.779	22.873	29.007	58.023
			18:COMB	15:COMB	7:COMB3	7:COMB3	18:COMB	10:COMB
			-143.198	-34.398	-63.715	-16.670	-31.106	-45.238
			7:COMB3	10:COMB	18:COMB	18:COMB	7:COMB3	15:COMB
	7947	-ve	126.104	30.284	67.779	22.873	171.075	160.629
			18:COMB	15:COMB	7:COMB3	7:COMB3	7:COMB3	10:COMB
			-143.198	-34.398	-63.715	-16.670	-161.051	-135.574
			7:COMB3	10:COMB	18:COMB	18:COMB	18:COMB	15:COMB
385	348	+ve	50.081	0.753	1.173	1.610	2.483	10.132
			18:COMB	17:COMB	18:COMB	14:COMB	7:COMB3	10:COMB
			-53.519	-1.203	-1.500	-0.367	-1.758	-6.139
			7:COMB3	8:COMB3	7:COMB3	19:COMB	18:COMB	15:COMB
	79	-ve	50.081	0.753	1.173	1.610	4.399	12.155
			18:COMB	17:COMB	18:COMB	14:COMB	18:COMB	14:COMB
			-53.519	-1.203	-1.500	-0.367	-5.386	-5.802
			7:COMB3	8:COMB3	7:COMB3	19:COMB	7:COMB3	19:COMB
386	79	+ve	24.914	0.930	0.924	0.078	7.503	7.025
			22:COMB	10:COMB	18:COMB	16:COMB	7:COMB3	10:COMB
			-23.829	-0.036	-0.994	-0.926	-6.974	-0.272
			11:COMB	15:COMB	7:COMB3	9:COMB3	18:COMB	15:COMB
	80	-ve	24.914	0.930	0.924	0.078	0.000	0.000
			22:COMB	10:COMB	18:COMB	16:COMB	-	-
			-23.829	-0.036	-0.994	-0.926	0.000	0.000
			11:COMB	15:COMB	7:COMB3	9:COMB3	-	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
387	392	+ve	16.477	13.705	1.689	7.942	7.232	44.542
			15:COMB	7:COMB3	18:COMB	10:COMB	7:COMB3	7:COMB3
			-79.152	-0.637	-2.225	-6.233	-5.489	-2.071
			10:COMB	18:COMB	7:COMB3	15:COMB	18:COMB	18:COMB
	81	-ve	16.477	13.705	1.689	7.942	0.000	0.000
			15:COMB	7:COMB3	18:COMB	10:COMB	-	-
			-79.152	-0.637	-2.225	-6.233	0.000	0.000
			10:COMB	18:COMB	7:COMB3	15:COMB	-	-
388	60	+ve	231.411	0.000	7.487	16.721	21.013	0.000
			11:COMB	-	18:COMB	10:COMB	7:COMB3	-
			-5.011	-63.843	-12.012	-13.961	-18.868	-45.420
			22:COMB	10:COMB	7:COMB3	15:COMB	18:COMB	10:COMB
	575	-ve	231.411	0.000	7.487	16.721	1.138	91.842
			11:COMB	-	18:COMB	10:COMB	21:COMB	10:COMB
			-5.011	-63.843	-12.012	-13.961	-8.724	0.000
			22:COMB	10:COMB	7:COMB3	15:COMB	12:COMB	-
389	27	+ve	38.993	0.239	0.855	0.000	6.807	1.810
			7:COMB3	22:COMB	18:COMB	-	7:COMB3	22:COMB
			-32.694	-0.512	-0.900	-1.048	-6.471	-3.874
			18:COMB	11:COMB	7:COMB3	13:COMB	18:COMB	11:COMB
	83	-ve	38.993	0.239	0.855	0.000	0.000	0.000
			7:COMB3	22:COMB	18:COMB	-	-	-
			-32.694	-0.512	-0.900	-1.048	0.000	0.000
			18:COMB	11:COMB	7:COMB3	13:COMB	-	-
391	481	+ve	54.169	29.039	34.592	3.568	42.569	26.746
			7:COMB3	6:COMB2	7:COMB3	8:COMB3	18:COMB	21:COMB
			-25.531	0.000	-23.691	-3.395	-53.590	-24.128
			18:COMB	-	18:COMB	17:COMB	7:COMB3	12:COMB
	51	-ve	54.169	29.039	34.592	3.568	30.723	18.532
			7:COMB3	6:COMB2	7:COMB3	8:COMB3	18:COMB	21:COMB
			-25.531	0.000	-23.691	-3.395	-36.294	-34.719
			18:COMB	-	18:COMB	17:COMB	7:COMB3	12:COMB
392	349	+ve	86.648	22.199	18.268	9.717	4.437	63.251
			7:COMB3	7:COMB3	18:COMB	19:COMB	8:COMB3	19:COMB
			-34.324	-15.122	-24.039	-12.484	-1.382	-55.419
			18:COMB	18:COMB	7:COMB3	14:COMB	17:COMB	14:COMB
	481	-ve	86.648	22.199	18.268	9.717	45.989	49.291
			7:COMB3	7:COMB3	18:COMB	19:COMB	18:COMB	21:COMB
			-34.324	-15.122	-24.039	-12.484	-57.887	-59.794
			18:COMB	18:COMB	7:COMB3	14:COMB	7:COMB3	12:COMB
393	395	+ve	168.223	31.838	22.869	31.157	47.165	103.979
			7:COMB3	19:COMB	7:COMB3	10:COMB	18:COMB	19:COMB
			-124.442	-64.562	-22.027	-10.921	-49.550	-127.366
			18:COMB	14:COMB	18:COMB	15:COMB	7:COMB3	14:COMB
	84	-ve	168.223	31.838	22.869	31.157	76.257	227.801
			7:COMB3	19:COMB	7:COMB3	10:COMB	7:COMB3	14:COMB
			-124.442	-64.562	-22.027	-10.921	-74.009	-71.171
			18:COMB	14:COMB	18:COMB	15:COMB	18:COMB	19:COMB

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
394	51	+ve	83.185	0.000	21.266	9.166	31.916	47.253
			7:COMB3	-	18:COMB	10:COMB	18:COMB	19:COMB
			-57.254	-35.127	-19.931	-2.745	-34.425	-69.638
			18:COMB	12:COMB	7:COMB3	15:COMB	7:COMB3	14:COMB
	395	-ve	83.185	0.000	21.266	9.166	42.649	51.160
			7:COMB3	-	18:COMB	10:COMB	18:COMB	19:COMB
			-57.254	-35.127	-19.931	-2.745	-44.484	-52.200
			18:COMB	12:COMB	7:COMB3	15:COMB	7:COMB3	14:COMB
423	347	+ve	29.280	3.558	9.841	0.000	15.297	13.235
			15:COMB	19:COMB	14:COMB	-	19:COMB	11:COMB
			-53.449	-9.996	-8.933	-1.990	-16.800	-8.911
			10:COMB	14:COMB	19:COMB	13:COMB	14:COMB	22:COMB
	7360	-ve	29.280	3.558	9.841	0.000	17.345	27.961
			15:COMB	19:COMB	14:COMB	-	14:COMB	14:COMB
			-53.449	-9.996	-8.933	-1.990	-15.696	-1.298
			10:COMB	14:COMB	19:COMB	13:COMB	19:COMB	19:COMB
427	8	+ve	37.585	77.102	29.358	39.593	34.000	51.578
			7:COMB3	11:COMB	18:COMB	11:COMB	11:COMB	11:COMB
			-29.173	-19.944	-56.637	-9.031	-23.215	-36.067
			18:COMB	22:COMB	7:COMB3	22:COMB	22:COMB	22:COMB
	7881	-ve	37.585	77.102	29.358	39.593	25.438	0.000
			7:COMB3	11:COMB	18:COMB	11:COMB	18:COMB	-
			-29.173	-19.944	-56.637	-9.031	-50.115	-51.712
			18:COMB	22:COMB	7:COMB3	22:COMB	7:COMB3	13:COMB
428	383	+ve	75.623	5.265	8.251	2.799	29.076	48.105
			10:COMB	18:COMB	15:COMB	20:COMB	10:COMB	7:COMB3
			-60.128	-11.280	-10.300	-3.760	-24.829	-27.055
			15:COMB	7:COMB3	10:COMB	13:COMB	15:COMB	18:COMB
	8141	-ve	75.623	5.265	8.251	2.799	1.509	83.455
			10:COMB	18:COMB	15:COMB	20:COMB	16:COMB	7:COMB3
			-60.128	-11.280	-10.300	-3.760	-3.684	-43.554
			15:COMB	7:COMB3	10:COMB	13:COMB	9:COMB3	18:COMB
429	76	+ve	177.742	44.553	13.884	5.381	29.070	84.134
			18:COMB	13:COMB	18:COMB	16:COMB	7:COMB3	13:COMB
			-211.317	-15.741	-15.394	-10.785	-26.219	-29.725
			7:COMB3	20:COMB	7:COMB3	9:COMB3	18:COMB	20:COMB
	101	-ve	177.742	44.553	13.884	5.381	0.000	0.000
			18:COMB	13:COMB	18:COMB	16:COMB	-	-
			-211.317	-15.741	-15.394	-10.785	0.000	0.000
			7:COMB3	20:COMB	7:COMB3	9:COMB3	-	-
430	102	+ve	57.586	5.945	2.700	2.463	4.149	3.751
			10:COMB	22:COMB	19:COMB	9:COMB3	12:COMB	18:COMB
			-26.836	-37.816	-5.692	-0.348	-1.053	-22.916
			15:COMB	11:COMB	14:COMB	16:COMB	21:COMB	7:COMB3
	4682	-ve	57.586	5.945	2.700	2.463	1.957	12.163
			10:COMB	22:COMB	19:COMB	9:COMB3	11:COMB	11:COMB
			-26.836	-37.816	-5.692	-0.348	-1.618	-1.964
			15:COMB	11:COMB	14:COMB	16:COMB	22:COMB	22:COMB

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
431	53	+ve	31.579	10.782	0.123	1.835	3.713	7.267
			14:COMB	15:COMB	19:COMB	13:COMB	14:COMB	15:COMB
			-3.069	-16.025	-2.963	0.000	-0.686	-10.754
			19:COMB	10:COMB	14:COMB	-	19:COMB	10:COMB
	4022	-ve	31.579	10.782	0.123	1.835	0.243	8.593
			14:COMB	15:COMB	19:COMB	13:COMB	18:COMB	10:COMB
			-3.069	-16.025	-2.963	0.000	-0.645	-5.750
			19:COMB	10:COMB	14:COMB	-	7:COMB3	15:COMB
434	385	+ve	30.676	1.099	1.061	1.525	8.626	8.300
			10:COMB	22:COMB	18:COMB	13:COMB	7:COMB3	22:COMB
			-28.804	-1.436	-1.142	-1.356	-8.008	-10.841
			15:COMB	11:COMB	7:COMB3	20:COMB	18:COMB	11:COMB
	105	-ve	30.676	1.099	1.061	1.525	0.000	0.000
			10:COMB	22:COMB	18:COMB	13:COMB	-	-
			-28.804	-1.436	-1.142	-1.356	0.000	0.000
			15:COMB	11:COMB	7:COMB3	20:COMB	-	-
439	99	+ve	516.851	373.070	61.362	64.078	28.583	103.631
			11:COMB	22:COMB	22:COMB	7:COMB3	13:COMB	7:COMB3
			-166.223	-1.11E+3	-102.450	-38.875	-26.167	-40.632
			22:COMB	11:COMB	11:COMB	18:COMB	20:COMB	18:COMB
	7960	-ve	516.851	373.070	61.362	64.078	21.763	217.545
			11:COMB	22:COMB	22:COMB	7:COMB3	17:COMB	11:COMB
			-166.223	-1.11E+3	-102.450	-38.875	-23.633	-77.750
			22:COMB	11:COMB	11:COMB	18:COMB	8:COMB3	22:COMB
440	421	+ve	43.940	73.679	0.588	12.997	15.262	40.854
			10:COMB	7:COMB3	18:COMB	18:COMB	7:COMB3	7:COMB3
			-39.612	-37.868	-10.801	-15.190	-1.805	-19.346
			15:COMB	18:COMB	7:COMB3	7:COMB3	18:COMB	18:COMB
	685	-ve	43.940	73.679	0.588	12.997	0.000	59.374
			10:COMB	7:COMB3	18:COMB	18:COMB	-	18:COMB
			-39.612	-37.868	-10.801	-15.190	-7.238	-112.307
			15:COMB	18:COMB	7:COMB3	7:COMB3	11:COMB	7:COMB3
441	419	+ve	102.400	35.167	12.400	26.306	10.289	51.303
			7:COMB3	18:COMB	7:COMB3	18:COMB	14:COMB	18:COMB
			-25.160	-52.793	-10.559	-37.842	-9.279	-63.124
			18:COMB	7:COMB3	18:COMB	7:COMB3	19:COMB	7:COMB3
	709	-ve	102.400	35.167	12.400	26.306	16.690	41.137
			7:COMB3	18:COMB	7:COMB3	18:COMB	7:COMB3	7:COMB3
			-25.160	-52.793	-10.559	-37.842	-12.044	-18.148
			18:COMB	7:COMB3	18:COMB	7:COMB3	18:COMB	18:COMB
512	140	+ve	36.477	61.082	9.152	3.273	0.000	0.000
			7:COMB3	7:COMB3	18:COMB	18:COMB	-	-
			-30.556	0.000	-14.019	-12.751	0.000	0.000
			18:COMB	-	7:COMB3	7:COMB3	-	-
	448	-ve	36.477	61.082	9.152	3.273	5.034	0.000
			7:COMB3	7:COMB3	18:COMB	18:COMB	18:COMB	-
			-30.556	0.000	-14.019	-12.751	-7.710	-33.595
			18:COMB	-	7:COMB3	7:COMB3	7:COMB3	7:COMB3

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
513	448	+ve	30.208	88.950	2.987	12.264	8.048	0.000
			7:COMB3	7:COMB3	9:COMB3	19:COMB	17:COMB	-
			-17.600	0.000	-2.400	-12.229	-11.738	-16.172
			18:COMB	-	16:COMB	14:COMB	8:COMB3	14:COMB
	5	-ve	30.208	88.950	2.987	12.264	9.471	0.000
			7:COMB3	7:COMB3	9:COMB3	19:COMB	17:COMB	-
			-17.600	0.000	-2.400	-12.229	-12.867	-55.327
			18:COMB	-	16:COMB	14:COMB	8:COMB3	7:COMB3
592	479	+ve	150.033	0.000	49.904	7.895	4.944	9.565
			7:COMB3	-	18:COMB	15:COMB	18:COMB	15:COMB
			-125.533	-53.830	-50.690	-14.050	-7.210	-39.492
			18:COMB	6:COMB2	7:COMB3	10:COMB	7:COMB3	10:COMB
	480	-ve	150.033	0.000	49.904	7.895	29.897	24.786
			7:COMB3	-	18:COMB	15:COMB	18:COMB	7:COMB3
			-125.533	-53.830	-50.690	-14.050	-32.555	-18.053
			18:COMB	6:COMB2	7:COMB3	10:COMB	7:COMB3	18:COMB
635	386	+ve	54.644	0.813	1.164	1.574	9.446	6.139
			7:COMB3	10:COMB	18:COMB	13:COMB	7:COMB3	10:COMB
			-49.012	-0.753	-1.251	-1.351	-8.791	-5.686
			18:COMB	15:COMB	7:COMB3	20:COMB	18:COMB	15:COMB
	212	-ve	54.644	0.813	1.164	1.574	0.000	0.000
			7:COMB3	10:COMB	18:COMB	13:COMB	-	-
			-49.012	-0.753	-1.251	-1.351	0.000	0.000
			18:COMB	15:COMB	7:COMB3	20:COMB	-	-
1131	51	+ve	102.060	0.000	30.183	3.874	7.330	0.000
			7:COMB3	-	18:COMB	15:COMB	19:COMB	-
			-86.638	-56.971	-30.233	-8.568	-9.598	-53.319
			18:COMB	6:COMB2	7:COMB3	10:COMB	14:COMB	9:COMB3
	479	-ve	102.060	0.000	30.183	3.874	8.453	9.626
			7:COMB3	-	18:COMB	15:COMB	18:COMB	16:COMB
			-86.638	-56.971	-30.233	-8.568	-10.749	-26.987
			18:COMB	6:COMB2	7:COMB3	10:COMB	7:COMB3	9:COMB3
1248	541	+ve	144.586	51.827	5.459	7.341	6.925	43.152
			20:COMB	14:COMB	11:COMB	15:COMB	7:COMB3	20:COMB
			-199.917	-46.305	-4.456	-8.313	-4.098	-77.389
			13:COMB	19:COMB	22:COMB	10:COMB	18:COMB	13:COMB
	301	-ve	144.586	51.827	5.459	7.341	15.216	34.185
			20:COMB	14:COMB	11:COMB	15:COMB	11:COMB	19:COMB
			-199.917	-46.305	-4.456	-8.313	-10.391	-79.419
			13:COMB	19:COMB	22:COMB	10:COMB	22:COMB	14:COMB
1249	542	+ve	76.772	31.215	3.344	3.322	5.006	0.000
			19:COMB	22:COMB	9:COMB3	22:COMB	7:COMB3	-
			-163.290	-57.957	-3.398	-4.057	-4.484	-114.477
			14:COMB	11:COMB	16:COMB	11:COMB	18:COMB	13:COMB
	20	-ve	76.772	31.215	3.344	3.322	3.680	41.409
			19:COMB	22:COMB	9:COMB3	22:COMB	9:COMB3	19:COMB
			-163.290	-57.957	-3.398	-4.057	-3.285	-111.395
			14:COMB	11:COMB	16:COMB	11:COMB	16:COMB	14:COMB

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
1250	543	+ve	0.000	0.000	1.461	1.965	2.306	0.000
			-	-	9:COMB3	22:COMB	15:COMB	-
			-57.766	-27.731	-0.869	-2.663	-2.720	-110.267
			13:COMB	13:COMB	16:COMB	11:COMB	10:COMB	11:COMB
	295	-ve	0.000	0.000	1.461	1.965	1.811	0.000
			-	-	9:COMB3	22:COMB	13:COMB	-
			-57.766	-27.731	-0.869	-2.663	-0.833	-45.629
			13:COMB	13:COMB	16:COMB	11:COMB	20:COMB	11:COMB
1251	544	+ve	0.000	0.000	4.739	0.642	2.198	0.000
			-	-	11:COMB	22:COMB	22:COMB	-
			-64.606	-29.127	-3.746	-0.808	-2.997	-110.953
			10:COMB	13:COMB	22:COMB	11:COMB	11:COMB	11:COMB
	29	-ve	0.000	0.000	4.739	0.642	8.137	5.742
			-	-	11:COMB	22:COMB	11:COMB	22:COMB
			-64.606	-29.127	-3.746	-0.808	-6.604	-46.963
			10:COMB	13:COMB	22:COMB	11:COMB	22:COMB	11:COMB
1252	545	+ve	100.875	36.245	8.668	4.933	6.952	0.000
			19:COMB	22:COMB	19:COMB	22:COMB	22:COMB	-
			-164.181	-73.220	-8.305	-7.424	-8.294	-102.323
			14:COMB	11:COMB	14:COMB	11:COMB	11:COMB	11:COMB
	49	-ve	100.875	36.245	8.668	4.933	12.322	80.249
			19:COMB	22:COMB	19:COMB	22:COMB	19:COMB	19:COMB
			-164.181	-73.220	-8.305	-7.424	-12.811	-126.153
			14:COMB	11:COMB	14:COMB	11:COMB	14:COMB	14:COMB
1253	546	+ve	0.000	0.000	4.092	2.296	0.380	0.000
			-	-	11:COMB	11:COMB	20:COMB	-
			-56.184	-28.639	-2.325	-1.409	-2.055	-111.991
			11:COMB	11:COMB	22:COMB	22:COMB	13:COMB	11:COMB
	43	-ve	0.000	0.000	4.092	2.296	7.637	0.000
			-	-	11:COMB	11:COMB	11:COMB	-
			-56.184	-28.639	-2.325	-1.409	-5.161	-44.700
			11:COMB	11:COMB	22:COMB	22:COMB	22:COMB	11:COMB
1272	565	+ve	100.988	18.966	27.130	44.920	39.444	53.865
			7:COMB3	11:COMB	22:COMB	14:COMB	11:COMB	7:COMB3
			-7.843	-8.121	-27.653	-34.930	-39.591	0.000
			18:COMB	22:COMB	11:COMB	19:COMB	22:COMB	-
	344	-ve	100.988	18.966	27.130	44.920	26.594	43.390
			7:COMB3	11:COMB	22:COMB	14:COMB	22:COMB	14:COMB
			-7.843	-8.121	-27.653	-34.930	-28.017	-3.346
			18:COMB	22:COMB	11:COMB	19:COMB	11:COMB	19:COMB
1273	566	+ve	59.962	45.327	54.037	38.156	76.641	69.473
			9:COMB3	7:COMB3	18:COMB	14:COMB	11:COMB	7:COMB3
			-12.647	-19.636	-60.156	-33.211	-70.771	-2.169
			16:COMB	18:COMB	7:COMB3	19:COMB	22:COMB	18:COMB
	374	-ve	59.962	45.327	54.037	38.156	47.768	43.190
			9:COMB3	7:COMB3	18:COMB	14:COMB	18:COMB	10:COMB
			-12.647	-19.636	-60.156	-33.211	-55.294	-32.124
			16:COMB	18:COMB	7:COMB3	19:COMB	7:COMB3	15:COMB

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
1274	575	+ve	171.753	30.615	4.699	14.743	21.092	89.728
			11:COMB3	7:COMB3	18:COMB3	10:COMB3	7:COMB3	11:COMB3
			-44.073	-26.407	-12.648	-13.688	-10.570	-9.216
			22:COMB3	18:COMB3	7:COMB3	15:COMB3	18:COMB3	22:COMB3
	392	-ve	171.753	30.615	4.699	14.743	1.055	71.616
			11:COMB3	7:COMB3	18:COMB3	10:COMB3	17:COMB3	10:COMB3
			-44.073	-26.407	-12.648	-13.688	-7.622	-0.150
			22:COMB3	18:COMB3	7:COMB3	15:COMB3	8:COMB3	15:COMB3
1276	577	+ve	175.690	48.453	12.856	17.539	28.016	84.566
			7:COMB3	7:COMB3	18:COMB3	10:COMB3	7:COMB3	7:COMB3
			-60.435	-34.076	-19.919	-16.677	-19.896	-23.410
			18:COMB3	18:COMB3	7:COMB3	15:COMB3	18:COMB3	18:COMB3
	369	-ve	175.690	48.453	12.856	17.539	7.744	56.885
			7:COMB3	7:COMB3	18:COMB3	10:COMB3	18:COMB3	10:COMB3
			-60.435	-34.076	-19.919	-16.677	-14.810	-26.641
			18:COMB3	18:COMB3	7:COMB3	15:COMB3	7:COMB3	15:COMB3
1298	591	+ve	119.726	28.762	22.289	9.188	33.678	13.978
			10:COMB3	15:COMB3	11:COMB3	22:COMB3	22:COMB3	19:COMB3
			-45.831	-38.318	-19.831	-10.994	-36.948	-83.325
			15:COMB3	10:COMB3	22:COMB3	11:COMB3	11:COMB3	14:COMB3
	592	-ve	119.726	28.762	22.289	9.188	5.400	1.101
			10:COMB3	15:COMB3	11:COMB3	22:COMB3	11:COMB3	18:COMB3
			-45.831	-38.318	-19.831	-10.994	-4.001	-52.291
			15:COMB3	10:COMB3	22:COMB3	11:COMB3	22:COMB3	7:COMB3
1299	592	+ve	54.562	10.140	11.549	2.658	28.004	0.000
			18:COMB3	18:COMB3	15:COMB3	14:COMB3	14:COMB3	-
			-318.729	-105.393	-12.572	-2.462	-28.347	-68.885
			7:COMB3	7:COMB3	10:COMB3	19:COMB3	19:COMB3	14:COMB3
	371	-ve	54.562	10.140	11.549	2.658	14.347	94.115
			18:COMB3	18:COMB3	15:COMB3	14:COMB3	22:COMB3	7:COMB3
			-318.729	-105.393	-12.572	-2.462	-15.866	-61.508
			7:COMB3	7:COMB3	10:COMB3	19:COMB3	11:COMB3	18:COMB3
1300	593	+ve	415.011	321.704	136.720	23.584	265.995	827.388
			18:COMB3	7:COMB3	19:COMB3	8:COMB3	14:COMB3	7:COMB3
			-520.894	-179.488	-144.961	-15.124	-258.075	-364.634
			7:COMB3	18:COMB3	14:COMB3	17:COMB3	19:COMB3	18:COMB3
	375	-ve	415.011	321.704	136.720	23.584	127.476	155.657
			18:COMB3	7:COMB3	19:COMB3	8:COMB3	19:COMB3	10:COMB3
			-520.894	-179.488	-144.961	-15.124	-142.795	-93.953
			7:COMB3	18:COMB3	14:COMB3	17:COMB3	14:COMB3	15:COMB3
1379	674	+ve	29.078	37.827	0.898	3.771	1.077	66.197
			18:COMB3	11:COMB3	12:COMB3	22:COMB3	21:COMB3	11:COMB3
			-100.568	-7.321	-0.615	-13.840	-1.572	-12.811
			7:COMB3	22:COMB3	21:COMB3	11:COMB3	12:COMB3	22:COMB3
	112	-ve	29.078	37.827	0.898	3.771	0.000	0.000
			18:COMB3	11:COMB3	12:COMB3	22:COMB3	-	-
			-100.568	-7.321	-0.615	-13.840	0.000	0.000
			7:COMB3	22:COMB3	21:COMB3	11:COMB3	-	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
1389	683	+ve	81.025	26.663	3.455	12.737	3.049	17.474
			9:COMB3	22:COMB	8:COMB3	22:COMB	9:COMB3	22:COMB
			-42.174	-85.419	-2.955	-16.232	-2.263	-61.111
			16:COMB	11:COMB	17:COMB	11:COMB	16:COMB	11:COMB
	7966	-ve	81.025	26.663	3.455	12.737	1.644	17.590
			9:COMB3	22:COMB	8:COMB3	22:COMB	11:COMB	11:COMB
			-42.174	-85.419	-2.955	-16.232	-0.398	-7.092
			16:COMB	11:COMB	17:COMB	11:COMB	22:COMB	22:COMB
1390	684	+ve	64.368	17.687	6.134	4.273	10.642	29.433
			18:COMB	7:COMB3	18:COMB	22:COMB	7:COMB3	7:COMB3
			-126.288	0.000	-6.395	-8.888	-10.207	0.000
			7:COMB3	-	7:COMB3	11:COMB	18:COMB	-
	108	-ve	64.368	17.687	6.134	4.273	0.000	0.000
			18:COMB	7:COMB3	18:COMB	22:COMB	-	-
			-126.288	0.000	-6.395	-8.888	0.000	0.000
			7:COMB3	-	7:COMB3	11:COMB	-	-
1391	685	+ve	183.043	13.829	9.697	3.035	2.227	30.954
			7:COMB3	18:COMB	10:COMB	20:COMB	19:COMB	18:COMB
			-94.383	-132.404	-4.420	-9.473	-7.770	-108.983
			18:COMB	7:COMB3	15:COMB	13:COMB	14:COMB	7:COMB3
	686	-ve	183.043	13.829	9.697	3.035	2.642	26.410
			7:COMB3	18:COMB	10:COMB	20:COMB	18:COMB	9:COMB3
			-94.383	-132.404	-4.420	-9.473	-2.960	0.000
			18:COMB	7:COMB3	15:COMB	13:COMB	7:COMB3	-
1392	686	+ve	72.433	39.783	8.460	9.602	11.464	17.622
			7:COMB3	18:COMB	18:COMB	8:COMB3	7:COMB3	18:COMB
			0.000	-101.257	-9.300	-4.536	-9.756	-46.299
			-	7:COMB3	7:COMB3	17:COMB	18:COMB	7:COMB3
	7967	-ve	72.433	39.783	8.460	9.602	2.895	46.996
			7:COMB3	18:COMB	18:COMB	8:COMB3	7:COMB3	7:COMB3
			0.000	-101.257	-9.300	-4.536	-1.961	-19.033
			-	7:COMB3	7:COMB3	17:COMB	18:COMB	18:COMB
1393	687	+ve	157.162	48.790	61.683	3.166	65.753	41.956
			7:COMB3	11:COMB	7:COMB3	12:COMB	18:COMB	13:COMB
			-109.762	-31.299	-54.908	-0.713	-72.736	-23.100
			18:COMB	22:COMB	18:COMB	21:COMB	7:COMB3	20:COMB
	688	-ve	157.162	48.790	61.683	3.166	15.702	38.223
			7:COMB3	11:COMB	7:COMB3	12:COMB	22:COMB	10:COMB
			-109.762	-31.299	-54.908	-0.713	-16.235	-36.018
			18:COMB	22:COMB	18:COMB	21:COMB	11:COMB	15:COMB
1394	688	+ve	164.875	209.366	24.544	8.794	12.699	60.432
			22:COMB	11:COMB	20:COMB	22:COMB	13:COMB	11:COMB
			-389.636	-94.884	-23.930	-17.751	-13.240	-52.760
			11:COMB	22:COMB	13:COMB	11:COMB	20:COMB	22:COMB
	99	-ve	164.875	209.366	24.544	8.794	19.744	74.752
			22:COMB	11:COMB	20:COMB	22:COMB	20:COMB	22:COMB
			-389.636	-94.884	-23.930	-17.751	-19.460	-220.929
			11:COMB	22:COMB	13:COMB	11:COMB	13:COMB	11:COMB

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
1412	709	+ve	23.551	14.067	8.653	21.391	11.155	0.000
			18:COMB	13:COMB	15:COMB	18:COMB	10:COMB	-
			-75.035	-0.873	-10.030	-27.537	-10.125	-8.411
			7:COMB3	20:COMB	10:COMB	7:COMB3	15:COMB	14:COMB
	421	-ve	23.551	14.067	8.653	21.391	10.988	0.000
			18:COMB	13:COMB	15:COMB	18:COMB	15:COMB	-
			-75.035	-0.873	-10.030	-27.537	-13.317	-37.388
			7:COMB3	20:COMB	10:COMB	7:COMB3	10:COMB	13:COMB
4686	4022	+ve	23.482	38.571	8.973	0.178	7.764	21.119
			18:COMB	7:COMB3	18:COMB	22:COMB	7:COMB3	7:COMB3
			-22.983	-12.108	-15.789	-2.711	-4.500	-7.812
			7:COMB3	18:COMB	7:COMB3	11:COMB	18:COMB	18:COMB
	102	-ve	23.482	38.571	8.973	0.178	6.334	6.806
			18:COMB	7:COMB3	18:COMB	22:COMB	18:COMB	18:COMB
			-22.983	-12.108	-15.789	-2.711	-11.299	-25.449
			7:COMB3	18:COMB	7:COMB3	11:COMB	7:COMB3	7:COMB3
5289	4682	+ve	33.945	1.858	1.192	0.600	0.423	2.065
			10:COMB	20:COMB	13:COMB	17:COMB	16:COMB	16:COMB
			-32.448	-8.543	-0.623	-0.659	-0.594	-4.399
			15:COMB	13:COMB	20:COMB	8:COMB3	9:COMB3	9:COMB3
	4683	-ve	33.945	1.858	1.192	0.600	0.581	4.767
			10:COMB	20:COMB	13:COMB	17:COMB	13:COMB	13:COMB
			-32.448	-8.543	-0.623	-0.659	-0.228	-0.942
			15:COMB	13:COMB	20:COMB	8:COMB3	20:COMB	20:COMB
5291	4683	+ve	31.656	7.125	1.367	0.185	0.225	5.520
			18:COMB	8:COMB3	11:COMB	18:COMB	22:COMB	7:COMB3
			-40.056	-6.552	-0.590	-0.461	-0.734	-3.013
			7:COMB3	17:COMB	22:COMB	7:COMB3	11:COMB	18:COMB
	4684	-ve	31.656	7.125	1.367	0.185	0.526	4.052
			18:COMB	8:COMB3	11:COMB	18:COMB	11:COMB	9:COMB3
			-40.056	-6.552	-0.590	-0.461	-0.319	-2.072
			7:COMB3	17:COMB	22:COMB	7:COMB3	22:COMB	16:COMB
5293	4684	+ve	42.275	5.528	5.565	0.154	1.829	4.797
			18:COMB	8:COMB3	7:COMB3	17:COMB	18:COMB	11:COMB
			-55.741	-3.636	-4.764	-0.248	-2.448	-1.080
			7:COMB3	17:COMB	18:COMB	8:COMB3	7:COMB3	22:COMB
	76	-ve	42.275	5.528	5.565	0.154	2.680	4.836
			18:COMB	8:COMB3	7:COMB3	17:COMB	7:COMB3	9:COMB3
			-55.741	-3.636	-4.764	-0.248	-2.560	-2.863
			7:COMB3	17:COMB	18:COMB	8:COMB3	18:COMB	16:COMB
7603	267	+ve	37.187	93.798	102.294	7.815	0.000	0.000
			17:COMB	7:COMB3	7:COMB3	18:COMB	-	-
			-109.715	-38.964	-86.252	-18.206	0.000	0.000
			8:COMB3	18:COMB	18:COMB	7:COMB3	-	-
	7841	-ve	37.187	93.798	102.294	7.815	327.379	124.699
			17:COMB	7:COMB3	7:COMB3	18:COMB	7:COMB3	18:COMB
			-109.715	-38.964	-86.252	-18.206	-276.039	-300.188
			8:COMB3	18:COMB	18:COMB	7:COMB3	18:COMB	7:COMB3

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
7604	67	+ve	81.437	66.457	78.585	0.000	81.160	76.303
			21:COMB	7:COMB3	18:COMB	-	11:COMB	7:COMB3
			-152.164	-6.925	-93.741	-7.510	-72.859	-21.338
			12:COMB	18:COMB	7:COMB3	8:COMB3	22:COMB	18:COMB
	7846	-ve	81.437	66.457	78.585	0.000	46.799	0.000
			21:COMB	7:COMB3	18:COMB	-	18:COMB	-
			-152.164	-6.925	-93.741	-7.510	-61.233	-23.561
			12:COMB	18:COMB	7:COMB3	8:COMB3	7:COMB3	8:COMB3
7605	266	+ve	125.117	20.503	181.859	45.501	149.251	69.883
			21:COMB	19:COMB	7:COMB3	14:COMB	19:COMB	14:COMB
			-365.197	-21.137	-84.164	-36.257	-207.310	-56.628
			12:COMB	14:COMB	18:COMB	19:COMB	14:COMB	19:COMB
	7872	-ve	125.117	20.503	181.859	45.501	299.532	95.971
			21:COMB	19:COMB	7:COMB3	14:COMB	7:COMB3	14:COMB
			-365.197	-21.137	-84.164	-36.257	-237.015	-81.934
			12:COMB	14:COMB	18:COMB	19:COMB	18:COMB	19:COMB
7606	265	+ve	126.310	34.330	103.789	0.000	45.236	43.285
			14:COMB	11:COMB	14:COMB	-	7:COMB3	11:COMB
			-97.663	-5.627	-97.084	-6.023	-42.716	-20.398
			19:COMB	22:COMB	19:COMB	14:COMB	18:COMB	22:COMB
	7874	-ve	126.310	34.330	103.789	0.000	114.773	0.000
			14:COMB	11:COMB	14:COMB	-	14:COMB	-
			-97.663	-5.627	-97.084	-6.023	-102.195	-16.582
			19:COMB	22:COMB	19:COMB	14:COMB	19:COMB	14:COMB
7612	89	+ve	475.154	19.090	7.128	12.476	10.134	91.042
			14:COMB	11:COMB	7:COMB3	14:COMB	19:COMB	19:COMB
			-385.710	-18.322	-5.046	-1.111	-17.671	-92.546
			19:COMB	22:COMB	18:COMB	19:COMB	14:COMB	14:COMB
	7129	-ve	475.154	19.090	7.128	12.476	33.756	2.872
			14:COMB	11:COMB	7:COMB3	14:COMB	7:COMB3	19:COMB
			-385.710	-18.322	-5.046	-1.111	-31.557	-7.965
			19:COMB	22:COMB	18:COMB	19:COMB	18:COMB	14:COMB
7614	275	+ve	81.058	63.761	27.940	5.691	24.477	28.159
			12:COMB	11:COMB	17:COMB	14:COMB	8:COMB3	19:COMB
			-64.946	-52.691	-45.854	-5.872	-16.956	-31.939
			21:COMB	22:COMB	8:COMB3	19:COMB	17:COMB	14:COMB
	243	-ve	81.058	63.761	27.940	5.691	15.748	30.947
			12:COMB	11:COMB	17:COMB	14:COMB	17:COMB	22:COMB
			-64.946	-52.691	-45.854	-5.872	-29.195	-47.683
			21:COMB	22:COMB	8:COMB3	19:COMB	8:COMB3	11:COMB
7615	243	+ve	239.464	100.515	41.626	12.271	42.807	178.133
			8:COMB3	7:COMB3	8:COMB3	22:COMB	17:COMB	7:COMB3
			-97.179	-16.186	-24.427	-50.694	-77.176	-39.072
			17:COMB	18:COMB	17:COMB	11:COMB	8:COMB3	18:COMB
	8074	-ve	239.464	100.515	41.626	12.271	77.119	20.923
			8:COMB3	7:COMB3	8:COMB3	22:COMB	8:COMB3	18:COMB
			-97.179	-16.186	-24.427	-50.694	-47.735	-194.441
			17:COMB	18:COMB	17:COMB	11:COMB	17:COMB	7:COMB3

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
7616	81	+ve	121.095	23.422	25.984	0.000	13.591	34.816
			14:COMB	11:COMB	18:COMB	-	7:COMB3	11:COMB
			-107.478	0.000	-31.433	-7.453	-9.842	-4.138
			19:COMB	-	7:COMB3	13:COMB	18:COMB	22:COMB
	7926	-ve	121.095	23.422	25.984	0.000	43.078	0.000
			14:COMB	11:COMB	18:COMB	-	18:COMB	-
			-107.478	0.000	-31.433	-7.453	-50.428	-15.003
			19:COMB	-	7:COMB3	13:COMB	7:COMB3	9:COMB3
7617	80	+ve	201.338	6.053	8.032	5.662	22.037	11.660
			22:COMB	15:COMB	7:COMB3	11:COMB	18:COMB	15:COMB
			-261.665	-8.060	-7.577	-0.701	-24.736	-17.082
			11:COMB	10:COMB	18:COMB	22:COMB	7:COMB3	10:COMB
	83	-ve	201.338	6.053	8.032	5.662	10.564	18.343
			22:COMB	15:COMB	7:COMB3	11:COMB	7:COMB3	10:COMB
			-261.665	-8.060	-7.577	-0.701	-11.265	-14.945
			11:COMB	10:COMB	18:COMB	22:COMB	18:COMB	15:COMB
7618	83	+ve	199.698	5.783	46.977	5.634	10.564	17.562
			22:COMB	15:COMB	7:COMB3	11:COMB	7:COMB3	10:COMB
			-259.788	-8.063	-40.228	-0.706	-11.265	-15.283
			11:COMB	10:COMB	18:COMB	22:COMB	18:COMB	15:COMB
	7945	-ve	199.698	5.783	46.977	5.634	141.500	40.036
			22:COMB	15:COMB	7:COMB3	11:COMB	7:COMB3	10:COMB
			-259.788	-8.063	-40.228	-0.706	-123.390	-31.403
			11:COMB	10:COMB	18:COMB	22:COMB	18:COMB	15:COMB
7620	274	+ve	525.378	13.744	68.875	10.125	94.762	34.512
			18:COMB	16:COMB	10:COMB	22:COMB	15:COMB	16:COMB
			-563.176	-35.777	-55.966	-18.786	-109.335	-62.920
			7:COMB3	9:COMB3	15:COMB	11:COMB	10:COMB	9:COMB3
	101	-ve	525.378	13.744	68.875	10.125	77.922	50.003
			18:COMB	16:COMB	10:COMB	22:COMB	10:COMB	13:COMB
			-563.176	-35.777	-55.966	-18.786	-57.397	-18.509
			7:COMB3	9:COMB3	15:COMB	11:COMB	15:COMB	20:COMB
7621	7846	+ve	106.544	11.154	0.733	5.442	80.927	63.539
			17:COMB	19:COMB	19:COMB	12:COMB	14:COMB	19:COMB
			-362.944	-18.050	-1.499	-4.122	-74.960	-92.836
			8:COMB3	14:COMB	14:COMB	21:COMB	19:COMB	14:COMB
	7126	-ve	106.544	11.154	0.733	5.442	73.508	10.017
			17:COMB	19:COMB	19:COMB	12:COMB	14:COMB	7:COMB3
			-362.944	-18.050	-1.499	-4.122	-71.331	-5.179
			8:COMB3	14:COMB	14:COMB	21:COMB	19:COMB	18:COMB
7622	7126	+ve	105.858	15.171	26.711	5.442	73.508	16.444
			17:COMB	19:COMB	19:COMB	12:COMB	14:COMB	11:COMB
			-362.362	-18.588	-31.027	-4.122	-71.331	-10.412
			8:COMB3	14:COMB	14:COMB	21:COMB	19:COMB	22:COMB
	7127	-ve	105.858	15.171	26.711	5.442	23.964	57.348
			17:COMB	19:COMB	19:COMB	12:COMB	19:COMB	14:COMB
			-362.362	-18.588	-31.027	-4.122	-37.181	-39.128
			8:COMB3	14:COMB	14:COMB	21:COMB	14:COMB	19:COMB

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
7623	7127	+ve	104.217	20.503	101.623	5.441	23.964	57.227
			17:COMB	19:COMB	19:COMB	12:COMB	19:COMB	14:COMB
			-360.848	-21.137	-137.995	-4.122	-37.181	-41.903
			8:COMB3	14:COMB	14:COMB	21:COMB	14:COMB	19:COMB
	266	-ve	104.217	20.503	101.623	5.441	149.251	83.287
			17:COMB	19:COMB	19:COMB	12:COMB	19:COMB	14:COMB
			-360.848	-21.137	-137.995	-4.122	-207.310	-67.181
			8:COMB3	14:COMB	14:COMB	21:COMB	14:COMB	19:COMB
7624	7128	+ve	485.933	47.175	12.801	18.362	39.973	33.316
			14:COMB	19:COMB	19:COMB	11:COMB	14:COMB	19:COMB
			-388.097	-73.948	-15.161	-11.186	-38.538	-64.673
			19:COMB	14:COMB	14:COMB	22:COMB	19:COMB	14:COMB
	89	-ve	485.933	47.175	12.801	18.362	10.134	216.484
			14:COMB	19:COMB	19:COMB	11:COMB	19:COMB	14:COMB
			-388.097	-73.948	-15.161	-11.186	-17.671	-146.049
			19:COMB	14:COMB	14:COMB	22:COMB	14:COMB	19:COMB
7625	7129	+ve	474.332	17.825	3.971	12.267	33.756	4.745
			14:COMB	19:COMB	21:COMB	14:COMB	7:COMB3	19:COMB
			-385.077	-19.074	-4.641	-0.924	-31.557	-9.479
			19:COMB	14:COMB	12:COMB	19:COMB	18:COMB	14:COMB
	7994	-ve	474.332	17.825	3.971	12.267	36.853	83.493
			14:COMB	19:COMB	21:COMB	14:COMB	19:COMB	10:COMB
			-385.077	-19.074	-4.641	-0.924	-37.899	-82.172
			19:COMB	14:COMB	12:COMB	19:COMB	14:COMB	15:COMB
7626	7995	+ve	189.089	0.536	47.857	1.472	24.437	3.905
			18:COMB	19:COMB	10:COMB	15:COMB	15:COMB	15:COMB
			-202.129	-4.025	-44.924	-2.661	-31.342	-8.907
			7:COMB3	14:COMB	15:COMB	10:COMB	10:COMB	10:COMB
	7944	-ve	189.089	0.536	47.857	1.472	72.811	3.512
			18:COMB	19:COMB	10:COMB	15:COMB	18:COMB	7:COMB3
			-202.129	-4.025	-44.924	-2.661	-73.383	-0.983
			7:COMB3	14:COMB	15:COMB	10:COMB	7:COMB3	18:COMB
7628	52	+ve	261.085	1.911	38.903	2.028	5.591	1.792
			18:COMB	21:COMB	18:COMB	20:COMB	16:COMB	15:COMB
			-294.521	-5.423	-48.870	-3.736	-8.877	-7.612
			7:COMB3	12:COMB	7:COMB3	13:COMB	9:COMB3	10:COMB
	8062	-ve	261.085	1.911	38.903	2.028	62.405	4.587
			18:COMB	21:COMB	18:COMB	20:COMB	18:COMB	8:COMB3
			-294.521	-5.423	-48.870	-3.736	-83.218	-4.231
			7:COMB3	12:COMB	7:COMB3	13:COMB	7:COMB3	17:COMB
7629	105	+ve	357.059	7.545	7.214	4.229	27.557	17.731
			18:COMB	19:COMB	7:COMB3	16:COMB	18:COMB	19:COMB
			-393.021	-8.130	-6.550	-5.140	-31.601	-19.042
			7:COMB3	14:COMB	18:COMB	9:COMB3	7:COMB3	14:COMB
	212	-ve	357.059	7.545	7.214	4.229	3.487	16.768
			18:COMB	19:COMB	7:COMB3	16:COMB	21:COMB	14:COMB
			-393.021	-8.130	-6.550	-5.140	-4.607	-15.505
			7:COMB3	14:COMB	18:COMB	9:COMB3	12:COMB	19:COMB

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
7630	212	+ve	355.898	7.085	61.839	4.229	3.487	15.885
			18:COMB	19:COMB	7:COMB3	16:COMB	21:COMB	14:COMB
			-391.773	-7.609	-55.545	-5.140	-4.607	-14.399
			7:COMB3	14:COMB	18:COMB	9:COMB3	12:COMB	19:COMB
	8061	-ve	355.898	7.085	61.839	4.229	183.387	38.429
			18:COMB	19:COMB	7:COMB3	16:COMB	7:COMB3	14:COMB
			-391.773	-7.609	-55.545	-5.140	-165.860	-35.390
			7:COMB3	14:COMB	18:COMB	9:COMB3	18:COMB	19:COMB
7639	411	+ve	27.603	0.000	48.238	24.419	99.395	0.000
			19:COMB	-	14:COMB	18:COMB	19:COMB	-
			-38.718	-217.422	-44.110	-28.632	-108.699	-489.933
			14:COMB	11:COMB	19:COMB	7:COMB3	14:COMB	11:COMB
	89	-ve	27.603	0.000	48.238	24.419	0.000	0.000
			19:COMB	-	14:COMB	18:COMB	-	-
			-38.718	-217.422	-44.110	-28.632	0.000	0.000
			14:COMB	11:COMB	19:COMB	7:COMB3	-	-
7641	510	+ve	69.424	7.050	7.605	13.112	28.003	14.127
			21:COMB	22:COMB	19:COMB	10:COMB	14:COMB	22:COMB
			-88.437	-48.707	-13.975	-1.430	-15.238	-97.599
			12:COMB	11:COMB	14:COMB	15:COMB	19:COMB	11:COMB
	275	-ve	69.424	7.050	7.605	13.112	0.000	0.000
			21:COMB	22:COMB	19:COMB	10:COMB	-	-
			-88.437	-48.707	-13.975	-1.430	0.000	0.000
			12:COMB	11:COMB	14:COMB	15:COMB	-	-
7642	101	+ve	474.626	13.318	15.015	16.238	77.922	45.091
			18:COMB	11:COMB	15:COMB	9:COMB3	10:COMB	11:COMB
			-499.291	-6.539	-18.986	-8.492	-57.397	-18.735
			7:COMB3	22:COMB	10:COMB	16:COMB	15:COMB	22:COMB
	111	-ve	474.626	13.318	15.015	16.238	45.324	26.001
			18:COMB	11:COMB	15:COMB	9:COMB3	15:COMB	22:COMB
			-499.291	-6.539	-18.986	-8.492	-51.965	-46.022
			7:COMB3	22:COMB	10:COMB	16:COMB	10:COMB	11:COMB
7877	376	+ve	312.967	45.422	42.636	0.000	90.632	52.394
			22:COMB	11:COMB	19:COMB	-	14:COMB	19:COMB
			-312.282	-31.816	-55.352	-33.799	-75.056	-54.731
			11:COMB	22:COMB	14:COMB	7:COMB3	19:COMB	14:COMB
	7358	-ve	312.967	45.422	42.636	0.000	17.462	16.405
			22:COMB	11:COMB	19:COMB	-	19:COMB	22:COMB
			-312.282	-31.816	-55.352	-33.799	-29.480	-48.265
			11:COMB	22:COMB	14:COMB	7:COMB3	14:COMB	11:COMB
7878	7359	+ve	31.547	150.890	8.273	92.668	127.193	90.000
			19:COMB	11:COMB	14:COMB	22:COMB	19:COMB	11:COMB
			-37.465	-3.461	-7.208	-97.545	-140.605	-81.209
			14:COMB	22:COMB	19:COMB	11:COMB	14:COMB	22:COMB
	411	-ve	31.547	150.890	8.273	92.668	99.401	0.000
			19:COMB	11:COMB	14:COMB	22:COMB	19:COMB	-
			-37.465	-3.461	-7.208	-97.545	-108.706	-491.781
			14:COMB	22:COMB	19:COMB	11:COMB	14:COMB	11:COMB

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
7879	7360	+ve	10.041	11.742	11.815	0.000	7.562	5.309
			15:COMB	11:COMB	19:COMB	-	14:COMB	6:COMB2
			-16.047	0.000	-12.729	-0.721	-7.024	0.000
			10:COMB	-	14:COMB	10:COMB	19:COMB	-
	7373	-ve	10.041	11.742	11.815	0.000	2.136	0.000
			15:COMB	11:COMB	19:COMB	-	19:COMB	-
			-16.047	0.000	-12.729	-0.721	-2.307	-4.341
			10:COMB	-	14:COMB	10:COMB	14:COMB	11:COMB
7880	7362	+ve	82.297	67.944	36.311	30.178	46.323	123.616
			22:COMB	19:COMB	11:COMB	10:COMB	22:COMB	19:COMB
			-98.088	-126.550	-32.282	0.000	-51.505	-211.063
			11:COMB	14:COMB	22:COMB	-	11:COMB	14:COMB
	7833	-ve	82.297	67.944	36.311	30.178	42.034	120.878
			22:COMB	19:COMB	11:COMB	10:COMB	11:COMB	10:COMB
			-98.088	-126.550	-32.282	0.000	-36.839	-57.352
			11:COMB	14:COMB	22:COMB	-	22:COMB	15:COMB
7886	7366	+ve	17.091	0.000	120.373	21.515	30.409	36.741
			19:COMB	-	19:COMB	22:COMB	19:COMB	11:COMB
			-17.809	-12.120	-132.826	-22.418	-33.581	-33.715
			14:COMB	6:COMB2	14:COMB	11:COMB	14:COMB	22:COMB
	7359	-ve	17.091	0.000	120.373	21.515	117.116	44.102
			19:COMB	-	19:COMB	22:COMB	19:COMB	11:COMB
			-17.809	-12.120	-132.826	-22.418	-129.258	-28.431
			14:COMB	6:COMB2	14:COMB	11:COMB	14:COMB	22:COMB
7888	7358	+ve	151.390	45.577	19.540	0.000	15.960	5.178
			22:COMB	11:COMB	14:COMB	-	19:COMB	22:COMB
			-148.926	0.000	-10.229	-3.478	-26.892	-9.051
			11:COMB	-	19:COMB	6:COMB2	14:COMB	11:COMB
	7367	-ve	151.390	45.577	19.540	0.000	7.614	0.000
			22:COMB	11:COMB	14:COMB	-	19:COMB	-
			-148.926	0.000	-10.229	-3.478	-10.948	-46.239
			11:COMB	-	19:COMB	6:COMB2	14:COMB	11:COMB
7893	7371	+ve	58.539	0.000	33.468	16.623	16.159	0.000
			22:COMB	-	22:COMB	11:COMB	22:COMB	-
			-64.303	-97.443	-37.465	-1.872	-17.888	-117.354
			11:COMB	6:COMB2	11:COMB	22:COMB	11:COMB	14:COMB
	7362	-ve	58.539	0.000	33.468	16.623	43.083	31.986
			22:COMB	-	22:COMB	11:COMB	22:COMB	19:COMB
			-64.303	-97.443	-37.465	-1.872	-48.028	-44.485
			11:COMB	6:COMB2	11:COMB	22:COMB	11:COMB	14:COMB
7896	7373	+ve	1.073	39.397	3.977	0.279	2.055	8.140
			16:COMB	11:COMB	19:COMB	15:COMB	22:COMB	6:COMB2
			-4.032	0.000	-4.175	-0.833	-2.032	0.000
			9:COMB3	-	14:COMB	10:COMB	11:COMB	-
	95	-ve	1.073	39.397	3.977	0.279	1.059	0.000
			16:COMB	11:COMB	19:COMB	15:COMB	19:COMB	-
			-4.032	0.000	-4.175	-0.833	-1.189	-23.303
			9:COMB3	-	14:COMB	10:COMB	14:COMB	11:COMB

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
8296	7825	+ve	67.489	2.554	1.725	16.917	6.014	83.442
			7:COMB3	19:COMB3	18:COMB3	7:COMB3	8:COMB3	11:COMB3
			-60.545	-7.146	-2.321	-11.083	-6.019	-69.250
			18:COMB3	14:COMB3	7:COMB3	18:COMB3	17:COMB3	22:COMB3
	12	-ve	67.489	2.554	1.725	16.917	5.671	77.066
			7:COMB3	19:COMB3	18:COMB3	7:COMB3	22:COMB3	11:COMB3
			-60.545	-7.146	-2.321	-11.083	-9.112	-36.395
			18:COMB3	14:COMB3	7:COMB3	18:COMB3	11:COMB3	22:COMB3
8297	7825	+ve	5.902	0.978	1.866	15.420	8.878	19.021
			20:COMB3	20:COMB3	9:COMB3	13:COMB3	16:COMB3	19:COMB3
			-18.560	-11.890	-1.382	-14.202	-12.972	-28.541
			13:COMB3	13:COMB3	16:COMB3	20:COMB3	9:COMB3	14:COMB3
	72	-ve	5.902	0.978	1.866	15.420	2.392	70.326
			20:COMB3	20:COMB3	9:COMB3	13:COMB3	16:COMB3	11:COMB3
			-18.560	-11.890	-1.382	-14.202	-4.214	-28.617
			13:COMB3	13:COMB3	16:COMB3	20:COMB3	9:COMB3	22:COMB3
8301	54	+ve	43.689	7.927	3.261	37.600	16.642	43.997
			17:COMB3	22:COMB3	14:COMB3	22:COMB3	19:COMB3	22:COMB3
			-52.609	-15.310	-2.999	-46.103	-18.099	-84.973
			8:COMB3	11:COMB3	19:COMB3	11:COMB3	14:COMB3	11:COMB3
	267	-ve	43.689	7.927	3.261	37.600	0.000	0.000
			17:COMB3	22:COMB3	14:COMB3	22:COMB3	-	-
			-52.609	-15.310	-2.999	-46.103	0.000	0.000
			8:COMB3	11:COMB3	19:COMB3	11:COMB3	-	-
8302	268	+ve	84.018	101.248	27.399	37.599	70.609	56.931
			11:COMB3	11:COMB3	22:COMB3	22:COMB3	11:COMB3	11:COMB3
			-77.885	-82.487	-27.798	-46.103	-71.289	-51.920
			22:COMB3	22:COMB3	11:COMB3	11:COMB3	22:COMB3	22:COMB3
	54	-ve	84.018	101.248	27.399	37.599	16.642	109.023
			11:COMB3	11:COMB3	22:COMB3	22:COMB3	19:COMB3	22:COMB3
			-77.885	-82.487	-27.798	-46.103	-18.099	-140.618
			22:COMB3	22:COMB3	11:COMB3	11:COMB3	14:COMB3	11:COMB3
8303	41	+ve	85.684	101.248	22.136	59.727	61.423	64.907
			11:COMB3	11:COMB3	11:COMB3	22:COMB3	11:COMB3	11:COMB3
			-80.313	-82.487	-19.149	-69.589	-63.342	-57.514
			22:COMB3	22:COMB3	22:COMB3	11:COMB3	22:COMB3	22:COMB3
	268	-ve	85.684	101.248	22.136	59.727	70.609	22.977
			11:COMB3	11:COMB3	11:COMB3	22:COMB3	11:COMB3	19:COMB3
			-80.313	-82.487	-19.149	-69.589	-71.289	-23.370
			22:COMB3	22:COMB3	22:COMB3	11:COMB3	22:COMB3	14:COMB3
8304	144	+ve	140.543	136.979	102.655	55.237	127.761	196.108
			7:COMB3	11:COMB3	17:COMB3	22:COMB3	7:COMB3	11:COMB3
			-113.926	-112.108	-129.680	-64.481	-102.230	-164.414
			18:COMB3	22:COMB3	8:COMB3	11:COMB3	18:COMB3	22:COMB3
	41	-ve	140.543	136.979	102.655	55.237	61.423	56.979
			7:COMB3	11:COMB3	17:COMB3	22:COMB3	11:COMB3	11:COMB3
			-113.926	-112.108	-129.680	-64.481	-63.342	-50.546
			18:COMB3	22:COMB3	8:COMB3	11:COMB3	22:COMB3	22:COMB3

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
8306	140	+ve	103.041	0.509	92.321	6.657	20.949	15.795
			8:COMB3	20:COMB3	7:COMB3	14:COMB	7:COMB3	11:COMB3
			-69.495	-1.653	-67.522	-4.555	-17.845	-12.682
			17:COMB	13:COMB3	18:COMB3	19:COMB	18:COMB3	22:COMB
	142	-ve	103.041	0.509	92.321	6.657	67.110	16.505
			8:COMB3	20:COMB3	7:COMB3	14:COMB	7:COMB3	11:COMB3
			-69.495	-1.653	-67.522	-4.555	-51.606	-12.820
			17:COMB	13:COMB3	18:COMB3	19:COMB	18:COMB3	22:COMB
8307	142	+ve	129.687	31.553	74.830	0.364	81.122	25.939
			7:COMB3	18:COMB3	7:COMB3	14:COMB	7:COMB3	11:COMB3
			-105.751	-40.360	-58.360	-0.139	-64.034	-23.278
			18:COMB	7:COMB3	18:COMB3	19:COMB	18:COMB3	22:COMB
	144	-ve	129.687	31.553	74.830	0.364	118.537	45.549
			7:COMB3	18:COMB3	7:COMB3	14:COMB	7:COMB3	11:COMB3
			-105.751	-40.360	-58.360	-0.139	-93.214	-38.485
			18:COMB	7:COMB3	18:COMB3	19:COMB	18:COMB3	22:COMB
8309	7833	+ve	9.044	0.000	1.061	2.163	8.660	0.000
			18:COMB	-	14:COMB3	7:COMB3	19:COMB3	-
			-10.727	-1.524	-0.992	-1.666	-9.262	-13.303
			7:COMB3	11:COMB3	19:COMB3	18:COMB	14:COMB3	11:COMB3
	7129	-ve	9.044	0.000	1.061	2.163	0.000	0.000
			18:COMB	-	14:COMB3	7:COMB3	-	-
			-10.727	-1.524	-0.992	-1.666	0.000	0.000
			7:COMB3	11:COMB3	19:COMB3	18:COMB	-	-
8310	376	+ve	63.487	0.361	1.431	2.011	9.411	2.710
			14:COMB	22:COMB3	14:COMB3	15:COMB	19:COMB3	22:COMB
			-48.603	-1.729	-1.252	-5.866	-10.752	-12.994
			19:COMB	11:COMB3	19:COMB3	10:COMB	14:COMB3	11:COMB3
	7128	-ve	63.487	0.361	1.431	2.011	0.000	0.000
			14:COMB	22:COMB3	14:COMB3	15:COMB	-	-
			-48.603	-1.729	-1.252	-5.866	0.000	0.000
			19:COMB	11:COMB3	19:COMB3	10:COMB	-	-
8326	7841	+ve	47.157	0.000	169.204	13.905	215.199	9.059
			19:COMB	-	18:COMB3	7:COMB3	7:COMB3	18:COMB
			-62.534	-52.978	-191.055	-3.943	-187.288	-57.158
			14:COMB	7:COMB3	7:COMB3	18:COMB	18:COMB3	7:COMB3
	67	-ve	47.157	0.000	169.204	13.905	66.523	42.383
			19:COMB	-	18:COMB3	7:COMB3	18:COMB3	14:COMB
			-62.534	-52.978	-191.055	-3.943	-71.390	0.000
			14:COMB	7:COMB3	7:COMB3	18:COMB	7:COMB3	-
8328	7842	+ve	48.998	6.738	6.060	0.098	0.435	11.458
			8:COMB3	22:COMB3	8:COMB3	22:COMB	17:COMB3	22:COMB
			-36.907	-27.935	-2.718	-5.822	-3.722	-27.962
			17:COMB	11:COMB3	17:COMB3	11:COMB3	8:COMB3	11:COMB3
	341	-ve	48.998	6.738	6.060	0.098	5.369	14.413
			8:COMB3	22:COMB3	8:COMB3	22:COMB	8:COMB3	13:COMB
			-36.907	-27.935	-2.718	-5.822	-3.641	0.000
			17:COMB	11:COMB3	17:COMB3	11:COMB3	17:COMB3	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
8329	7843	+ve	12.677	14.931	118.271	29.904	199.746	56.210
			18:COMB	11:COMB3	18:COMB	11:COMB3	7:COMB3	18:COMB
			-21.937	0.000	-191.077	-17.475	-132.422	-59.577
			7:COMB3	-	7:COMB3	22:COMB	18:COMB	7:COMB3
	373	-ve	12.677	14.931	118.271	29.904	44.987	51.668
			18:COMB	11:COMB3	18:COMB	11:COMB3	18:COMB	22:COMB
			-21.937	0.000	-191.077	-17.475	-86.874	-80.407
			7:COMB3	-	7:COMB3	22:COMB	7:COMB3	11:COMB3
8360	7860	+ve	26.221	2.501	18.259	0.000	14.015	1.123
			10:COMB	18:COMB3	14:COMB	-	19:COMB	18:COMB
			-15.782	-11.058	-14.188	-2.308	-17.035	-10.128
			15:COMB	7:COMB3	19:COMB	12:COMB	14:COMB	7:COMB3
	337	-ve	26.221	2.501	18.259	0.000	10.353	7.770
			10:COMB	18:COMB3	14:COMB	-	14:COMB	11:COMB3
			-15.782	-11.058	-14.188	-2.308	-7.268	-3.937
			15:COMB	7:COMB3	19:COMB	12:COMB	19:COMB	22:COMB
8377	7872	+ve	44.299	17.133	94.608	2.697	121.276	5.780
			19:COMB	19:COMB3	22:COMB	22:COMB	7:COMB3	11:COMB3
			-99.017	-17.738	-107.650	-3.387	-104.112	-1.201
			14:COMB	14:COMB3	11:COMB3	11:COMB3	18:COMB	22:COMB
	265	-ve	44.299	17.133	94.608	2.697	63.591	30.870
			19:COMB	19:COMB3	22:COMB	22:COMB	22:COMB	14:COMB
			-99.017	-17.738	-107.650	-3.387	-69.213	-25.235
			14:COMB	14:COMB3	11:COMB3	11:COMB3	11:COMB3	19:COMB
8378	7874	+ve	487.363	48.489	61.410	18.363	211.085	136.869
			14:COMB	19:COMB3	19:COMB	11:COMB3	14:COMB	19:COMB
			-389.349	-73.893	-78.654	-11.186	-172.134	-219.637
			19:COMB	14:COMB3	14:COMB	22:COMB	19:COMB	14:COMB
	7128	-ve	487.363	48.489	61.410	18.363	39.973	31.382
			14:COMB	19:COMB3	19:COMB	11:COMB3	14:COMB	19:COMB
			-389.349	-73.893	-78.654	-11.186	-38.538	-58.884
			19:COMB	14:COMB3	14:COMB	22:COMB	19:COMB	14:COMB
8389	7880	+ve	148.357	43.966	109.656	15.293	142.040	75.816
			18:COMB	8:COMB3	22:COMB	11:COMB3	11:COMB3	22:COMB
			-152.297	0.000	-137.966	-13.256	-120.833	-77.888
			7:COMB3	-	11:COMB3	22:COMB	22:COMB	11:COMB3
	345	-ve	148.357	43.966	109.656	15.293	44.480	61.976
			18:COMB	8:COMB3	22:COMB	11:COMB3	22:COMB	18:COMB
			-152.297	0.000	-137.966	-13.256	-65.952	-134.171
			7:COMB3	-	11:COMB3	22:COMB	11:COMB3	7:COMB3
8399	7883	+ve	42.827	20.623	32.397	16.259	86.194	103.276
			11:COMB3	11:COMB3	7:COMB3	11:COMB3	18:COMB	11:COMB3
			-29.911	-16.756	-29.529	-13.839	-94.708	-86.037
			22:COMB	22:COMB3	18:COMB	22:COMB	7:COMB3	22:COMB
	310	-ve	42.827	20.623	32.397	16.259	53.319	9.353
			11:COMB3	11:COMB3	7:COMB3	11:COMB3	7:COMB3	19:COMB
			-29.911	-16.756	-29.529	-13.839	-48.725	-9.782
			22:COMB	22:COMB3	18:COMB	22:COMB	18:COMB	14:COMB

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
8401	7885	+ve	47.887	6.098	11.408	1.594	28.901	32.587
			11:COMB3	15:COMB3	7:COMB3	14:COMB	18:COMB3	15:COMB
			-39.105	-8.599	-10.523	-2.213	-30.793	-40.382
			22:COMB	10:COMB3	18:COMB3	19:COMB	7:COMB3	10:COMB
	308	-ve	47.887	6.098	11.408	1.594	21.125	7.347
			11:COMB3	15:COMB3	7:COMB3	14:COMB	7:COMB3	11:COMB3
			-39.105	-8.599	-10.523	-2.213	-18.988	-3.759
			22:COMB	10:COMB3	18:COMB3	19:COMB	18:COMB3	22:COMB
8403	7887	+ve	64.574	19.228	17.164	32.397	52.334	81.493
			19:COMB	22:COMB3	22:COMB3	22:COMB	11:COMB3	14:COMB
			-76.402	-21.974	-20.746	-34.708	-40.673	-88.617
			14:COMB	11:COMB3	11:COMB3	11:COMB3	22:COMB3	19:COMB
	304	-ve	64.574	19.228	17.164	32.397	37.423	11.384
			19:COMB	22:COMB3	22:COMB3	22:COMB	22:COMB3	11:COMB3
			-76.402	-21.974	-20.746	-34.708	-42.057	-6.018
			14:COMB	11:COMB3	11:COMB3	11:COMB3	11:COMB3	22:COMB
8405	7889	+ve	33.266	3.968	21.878	4.206	71.676	23.896
			19:COMB	15:COMB3	15:COMB3	22:COMB	10:COMB3	15:COMB
			-31.351	-5.445	-26.348	-8.549	-57.560	-26.225
			14:COMB	10:COMB3	10:COMB3	11:COMB3	15:COMB3	10:COMB
	306	-ve	33.266	3.968	21.878	4.206	41.735	8.503
			19:COMB	15:COMB3	15:COMB3	22:COMB	15:COMB3	11:COMB3
			-31.351	-5.445	-26.348	-8.549	-47.903	-4.130
			14:COMB	10:COMB3	10:COMB3	11:COMB3	10:COMB3	22:COMB
8408	7892	+ve	172.595	14.993	40.785	16.811	103.527	53.013
			7:COMB3	15:COMB3	7:COMB3	13:COMB	18:COMB3	16:COMB
			-155.209	-17.064	-36.714	-10.569	-114.579	-62.134
			18:COMB	10:COMB3	18:COMB3	20:COMB	7:COMB3	9:COMB3
	294	-ve	172.595	14.993	40.785	16.811	71.769	20.130
			7:COMB3	15:COMB3	7:COMB3	13:COMB	7:COMB3	18:COMB
			-155.209	-17.064	-36.714	-10.569	-64.225	-19.787
			18:COMB	10:COMB3	18:COMB3	20:COMB	18:COMB3	7:COMB3
8410	7893	+ve	75.353	8.449	17.391	0.000	40.564	33.963
			7:COMB3	7:COMB3	7:COMB3	-	18:COMB3	15:COMB
			-65.959	-8.335	-15.595	-2.886	-44.244	-39.172
			18:COMB	18:COMB3	18:COMB3	12:COMB	7:COMB3	10:COMB
	296	-ve	75.353	8.449	17.391	0.000	34.900	0.852
			7:COMB3	7:COMB3	7:COMB3	-	7:COMB3	22:COMB
			-65.959	-8.335	-15.595	-2.886	-30.408	-6.580
			18:COMB	18:COMB3	18:COMB3	12:COMB	18:COMB3	11:COMB3
8412	7894	+ve	49.890	24.095	15.096	30.767	50.025	102.059
			13:COMB	11:COMB3	22:COMB3	22:COMB	11:COMB3	11:COMB3
			-30.100	-22.094	-19.026	-33.604	-36.785	-89.573
			20:COMB	22:COMB3	11:COMB3	11:COMB3	22:COMB3	22:COMB
	298	-ve	49.890	24.095	15.096	30.767	31.962	11.658
			13:COMB	11:COMB3	22:COMB3	22:COMB	22:COMB3	14:COMB
			-30.100	-22.094	-19.026	-33.604	-36.619	-8.284
			20:COMB	22:COMB3	11:COMB3	11:COMB3	11:COMB3	19:COMB

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
8414	7895	+ve	52.530	12.734	28.216	0.696	84.578	49.678
			11:COMB3	7:COMB3	15:COMB3	18:COMB	10:COMB3	7:COMB3
			-41.959	-6.953	-32.453	-9.280	-70.746	-30.700
			22:COMB	18:COMB3	10:COMB3	7:COMB3	15:COMB3	18:COMB
	297	-ve	52.530	12.734	28.216	0.696	57.311	1.384
			11:COMB3	7:COMB3	15:COMB3	18:COMB	15:COMB3	22:COMB
			-41.959	-6.953	-32.453	-9.280	-62.709	-8.643
			22:COMB	18:COMB3	10:COMB3	7:COMB3	10:COMB3	11:COMB3
8416	7896	+ve	8.252	23.893	28.828	6.761	12.410	35.869
			22:COMB	22:COMB3	13:COMB3	22:COMB	16:COMB3	22:COMB
			-9.753	-80.837	-18.851	-37.660	-19.076	-76.914
			11:COMB3	11:COMB3	20:COMB3	11:COMB3	9:COMB3	11:COMB3
	8	-ve	8.252	23.893	28.828	6.761	24.684	31.516
			22:COMB	22:COMB3	13:COMB3	22:COMB	13:COMB3	13:COMB
			-9.753	-80.837	-18.851	-37.660	-18.380	0.000
			11:COMB3	11:COMB3	20:COMB3	11:COMB3	20:COMB3	-
8418	7898	+ve	20.347	16.046	19.123	0.000	4.703	12.911
			19:COMB	22:COMB3	13:COMB3	-	20:COMB3	22:COMB
			-21.271	-71.559	-5.877	-24.375	-13.979	-43.813
			14:COMB	11:COMB3	20:COMB3	11:COMB3	13:COMB3	11:COMB3
	309	-ve	20.347	16.046	19.123	0.000	11.043	49.214
			19:COMB	22:COMB3	13:COMB3	-	9:COMB3	11:COMB3
			-21.271	-71.559	-5.877	-24.375	-3.100	-7.949
			14:COMB	11:COMB3	20:COMB3	11:COMB3	16:COMB3	22:COMB
8420	7900	+ve	17.103	13.010	19.368	0.000	2.557	9.060
			19:COMB	22:COMB3	13:COMB3	-	22:COMB3	22:COMB
			-19.170	-68.622	-2.510	-24.689	-15.426	-43.211
			14:COMB	11:COMB3	20:COMB3	11:COMB3	11:COMB3	11:COMB3
	307	-ve	17.103	13.010	19.368	0.000	10.929	45.998
			19:COMB	22:COMB3	13:COMB3	-	13:COMB3	11:COMB3
			-19.170	-68.622	-2.510	-24.689	-1.882	-7.853
			14:COMB	11:COMB3	20:COMB3	11:COMB3	20:COMB3	22:COMB
8423	7904	+ve	28.196	17.122	21.023	0.000	4.337	0.000
			19:COMB	22:COMB3	9:COMB3	-	16:COMB3	-
			-39.572	-71.737	-3.108	-28.273	-16.843	-26.041
			14:COMB	11:COMB3	16:COMB3	11:COMB3	9:COMB3	7:COMB3
	305	-ve	28.196	17.122	21.023	0.000	10.487	69.391
			19:COMB	22:COMB3	9:COMB3	-	9:COMB3	11:COMB3
			-39.572	-71.737	-3.108	-28.273	0.000	-28.784
			14:COMB	11:COMB3	16:COMB3	11:COMB3	-	22:COMB
8425	7906	+ve	115.685	0.000	0.000	28.040	20.930	0.000
			15:COMB	-	-	14:COMB	7:COMB3	-
			-113.204	-50.508	-13.401	-3.307	-9.819	-29.108
			10:COMB	13:COMB3	12:COMB3	19:COMB	18:COMB3	8:COMB3
	20	-ve	115.685	0.000	0.000	28.040	12.127	46.363
			15:COMB	-	-	14:COMB	19:COMB3	13:COMB
			-113.204	-50.508	-13.401	-3.307	-22.135	0.000
			10:COMB	13:COMB3	12:COMB3	19:COMB	14:COMB3	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
8427	7907	+ve	36.265	0.000	0.000	17.266	8.170	1.583
			15:COMB	-	-	11:COMB	11:COMB	22:COMB
			-40.900	-51.177	-9.341	0.000	-1.048	-32.726
			10:COMB	11:COMB	11:COMB	-	22:COMB	11:COMB
	295	-ve	36.265	0.000	0.000	17.266	0.000	40.993
			15:COMB	-	-	11:COMB	-	9:COMB3
			-40.900	-51.177	-9.341	0.000	-7.822	0.000
			10:COMB	11:COMB	11:COMB	-	10:COMB	-
8429	7908	+ve	19.679	0.000	8.366	16.987	8.855	1.450
			19:COMB	-	15:COMB	11:COMB	10:COMB	22:COMB
			-25.412	-53.048	-18.196	0.000	-4.407	-36.742
			14:COMB	11:COMB	10:COMB	-	15:COMB	11:COMB
	29	-ve	19.679	0.000	8.366	16.987	6.470	37.230
			19:COMB	-	15:COMB	11:COMB	15:COMB	9:COMB3
			-25.412	-53.048	-18.196	0.000	-14.800	0.000
			14:COMB	11:COMB	10:COMB	-	10:COMB	-
8431	7909	+ve	10.109	0.000	18.229	34.710	35.683	0.000
			21:COMB	-	21:COMB	14:COMB	8:COMB3	-
			-13.820	-67.503	-39.659	-8.276	-17.198	-27.502
			12:COMB	6:COMB2	12:COMB	19:COMB	17:COMB	13:COMB
	49	-ve	10.109	0.000	18.229	34.710	22.954	72.965
			21:COMB	-	21:COMB	14:COMB	19:COMB	12:COMB
			-13.820	-67.503	-39.659	-8.276	-32.329	0.000
			12:COMB	6:COMB2	12:COMB	19:COMB	14:COMB	-
8433	7910	+ve	24.899	0.000	2.354	13.815	16.361	11.280
			11:COMB	-	18:COMB	13:COMB	7:COMB3	22:COMB
			-23.430	-50.592	-10.640	0.000	-11.983	-43.138
			22:COMB	11:COMB	7:COMB3	-	18:COMB	11:COMB
	43	-ve	24.899	0.000	2.354	13.815	4.995	40.488
			11:COMB	-	18:COMB	13:COMB	19:COMB	10:COMB
			-23.430	-50.592	-10.640	0.000	-11.389	0.000
			22:COMB	11:COMB	7:COMB3	-	14:COMB	-
8456	7891	+ve	331.579	50.947	28.677	48.038	45.261	122.991
			7:COMB3	15:COMB	8:COMB3	18:COMB	17:COMB	15:COMB
			-295.575	-76.243	-14.129	-51.953	-77.259	-221.977
			18:COMB	10:COMB	17:COMB	7:COMB3	8:COMB3	10:COMB
	302	-ve	331.579	50.947	28.677	48.038	35.935	78.968
			7:COMB3	15:COMB	8:COMB3	18:COMB	8:COMB3	10:COMB
			-295.575	-76.243	-14.129	-51.953	-10.508	-78.106
			18:COMB	10:COMB	17:COMB	7:COMB3	17:COMB	15:COMB
8465	7916	+ve	32.023	31.925	75.888	22.283	42.147	55.626
			19:COMB	14:COMB	18:COMB	20:COMB	15:COMB	14:COMB
			-32.119	-21.765	-76.839	-23.907	-43.224	-28.944
			14:COMB	19:COMB	7:COMB3	13:COMB	10:COMB	19:COMB
	98	-ve	32.023	31.925	75.888	22.283	32.956	27.544
			19:COMB	14:COMB	18:COMB	20:COMB	18:COMB	10:COMB
			-32.119	-21.765	-76.839	-23.907	-34.983	-11.022
			14:COMB	19:COMB	7:COMB3	13:COMB	7:COMB3	15:COMB

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
8466	7915	+ve	246.234	52.079	70.560	67.526	93.115	121.842
			7:COMB3	16:COMB3	7:COMB3	22:COMB	10:COMB3	16:COMB3
			-223.762	-60.978	-68.625	-74.929	-91.163	-140.912
			18:COMB	9:COMB3	18:COMB3	11:COMB3	15:COMB3	9:COMB3
	70	-ve	246.234	52.079	70.560	67.526	145.408	63.098
			7:COMB3	16:COMB3	7:COMB3	22:COMB	7:COMB3	9:COMB3
			-223.762	-60.978	-68.625	-74.929	-136.979	-52.395
			18:COMB	9:COMB3	18:COMB3	11:COMB3	18:COMB3	16:COMB3
8479	7926	+ve	202.163	6.089	31.673	5.662	107.913	27.839
			22:COMB	15:COMB3	7:COMB3	11:COMB3	18:COMB3	15:COMB3
			-262.560	-8.991	-32.304	-0.700	-108.934	-40.126
			11:COMB3	10:COMB3	18:COMB3	22:COMB	7:COMB3	10:COMB3
	80	-ve	202.163	6.089	31.673	5.662	22.037	11.651
			22:COMB	15:COMB3	7:COMB3	11:COMB3	18:COMB3	15:COMB3
			-262.560	-8.991	-32.304	-0.700	-24.736	-16.226
			11:COMB3	10:COMB3	18:COMB3	22:COMB	7:COMB3	10:COMB3
8481	7927	+ve	57.929	30.058	40.050	2.494	108.400	144.489
			18:COMB	7:COMB3	7:COMB3	22:COMB	18:COMB3	7:COMB3
			-123.251	-20.198	-34.603	-6.198	-122.713	-95.903
			7:COMB3	18:COMB3	18:COMB3	11:COMB3	7:COMB3	18:COMB3
	79	-ve	57.929	30.058	40.050	2.494	16.630	64.589
			18:COMB	7:COMB3	7:COMB3	22:COMB	10:COMB3	7:COMB3
			-123.251	-20.198	-34.603	-6.198	-16.464	-42.211
			7:COMB3	18:COMB3	18:COMB3	11:COMB3	15:COMB3	18:COMB3
8484	7929	+ve	198.837	97.413	16.831	32.758	29.609	106.699
			21:COMB	11:COMB3	12:COMB3	18:COMB	21:COMB3	11:COMB3
			-249.553	-46.387	-10.456	-40.220	-46.054	-103.847
			12:COMB	22:COMB3	21:COMB3	7:COMB3	12:COMB3	22:COMB3
	510	-ve	198.837	97.413	16.831	32.758	46.383	150.915
			21:COMB	11:COMB3	12:COMB3	18:COMB	12:COMB3	22:COMB3
			-249.553	-46.387	-10.456	-40.220	-27.815	-428.306
			12:COMB	22:COMB3	21:COMB3	7:COMB3	21:COMB3	11:COMB3
8495	7932	+ve	39.215	35.877	52.296	12.201	113.611	35.328
			9:COMB3	13:COMB3	22:COMB3	7:COMB3	11:COMB3	9:COMB3
			-25.679	0.000	-104.954	-10.385	-57.675	0.000
			16:COMB	-	11:COMB3	18:COMB	22:COMB3	-
	384	-ve	39.215	35.877	52.296	12.201	43.017	0.000
			9:COMB3	13:COMB3	22:COMB3	7:COMB3	22:COMB3	-
			-25.679	0.000	-104.954	-10.385	-88.471	-38.831
			16:COMB	-	11:COMB3	18:COMB	11:COMB3	11:COMB3
8502	7938	+ve	135.098	20.348	62.888	15.335	145.454	119.449
			18:COMB	15:COMB3	7:COMB3	12:COMB	18:COMB3	15:COMB3
			-152.986	-30.052	-54.948	-12.735	-166.197	-162.339
			7:COMB3	10:COMB3	18:COMB3	21:COMB	7:COMB3	10:COMB3
	385	-ve	135.098	20.348	62.888	15.335	2.323	66.286
			18:COMB	15:COMB3	7:COMB3	12:COMB	9:COMB3	15:COMB3
			-152.986	-30.052	-54.948	-12.735	-2.323	-83.823
			7:COMB3	10:COMB3	18:COMB3	21:COMB	16:COMB3	10:COMB3

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
8509	7943	+ve	25.407	16.931	9.852	0.814	8.532	18.718
			11:COMB3	11:COMB3	10:COMB3	11:COMB3	15:COMB3	11:COMB3
			0.000	-1.466	-7.914	-0.113	-10.967	0.000
			-	22:COMB3	15:COMB3	22:COMB	10:COMB3	-
	84	-ve	25.407	16.931	9.852	0.814	9.953	4.099
			11:COMB3	11:COMB3	10:COMB3	11:COMB3	10:COMB3	22:COMB
			0.000	-1.466	-7.914	-0.113	-8.271	-17.233
			-	22:COMB3	15:COMB3	22:COMB	15:COMB3	11:COMB3
8511	7944	+ve	358.119	8.947	35.877	4.229	124.451	39.992
			18:COMB	19:COMB3	7:COMB3	16:COMB	18:COMB3	19:COMB
			-394.163	-9.195	-37.085	-5.140	-125.339	-42.119
			7:COMB3	14:COMB3	18:COMB3	9:COMB3	7:COMB3	14:COMB
	105	-ve	358.119	8.947	35.877	4.229	27.557	16.616
			18:COMB	19:COMB3	7:COMB3	16:COMB	18:COMB3	19:COMB
			-394.163	-9.195	-37.085	-5.140	-31.601	-18.095
			7:COMB3	14:COMB3	18:COMB3	9:COMB3	7:COMB3	14:COMB
8512	7945	+ve	31.722	11.903	26.682	2.246	37.929	6.072
			22:COMB	7:COMB3	18:COMB3	13:COMB	7:COMB3	7:COMB3
			-49.402	-7.993	-36.354	-0.285	-33.713	-3.472
			11:COMB3	18:COMB3	7:COMB3	20:COMB	18:COMB3	18:COMB
	7995	-ve	31.722	11.903	26.682	2.246	16.738	11.244
			22:COMB	7:COMB3	18:COMB3	13:COMB	22:COMB3	18:COMB
			-49.402	-7.993	-36.354	-0.285	-30.329	-15.844
			11:COMB3	18:COMB3	7:COMB3	20:COMB	11:COMB3	7:COMB3
8524	7947	+ve	65.614	42.153	67.172	14.862	117.382	30.250
			10:COMB	8:COMB3	18:COMB3	7:COMB3	7:COMB3	12:COMB
			-50.451	0.000	-107.374	-12.720	-80.455	0.000
			15:COMB	-	7:COMB3	18:COMB	18:COMB3	-
	370	-ve	65.614	42.153	67.172	14.862	36.524	5.415
			10:COMB	8:COMB3	18:COMB3	7:COMB3	18:COMB3	18:COMB
			-50.451	0.000	-107.374	-12.720	-69.607	-45.595
			15:COMB	-	7:COMB3	18:COMB	7:COMB3	7:COMB3
8532	7954	+ve	315.031	41.549	44.613	42.608	18.995	121.503
			14:COMB	16:COMB3	8:COMB3	13:COMB	18:COMB3	16:COMB
			-214.278	-181.795	0.000	-26.287	-90.346	-289.219
			19:COMB	9:COMB3	-	20:COMB	7:COMB3	9:COMB3
	102	-ve	315.031	41.549	44.613	42.608	69.416	323.565
			14:COMB	16:COMB3	8:COMB3	13:COMB	12:COMB3	13:COMB
			-214.278	-181.795	0.000	-26.287	0.000	-49.524
			19:COMB	9:COMB3	-	20:COMB	-	20:COMB
8557	7960	+ve	113.220	19.551	16.687	18.810	11.574	36.426
			7:COMB3	20:COMB3	12:COMB3	7:COMB3	21:COMB3	22:COMB
			-51.101	-98.978	-14.104	-10.648	-13.290	-119.795
			18:COMB	13:COMB3	21:COMB3	18:COMB	12:COMB3	11:COMB3
	683	-ve	113.220	19.551	16.687	18.810	1.488	46.415
			7:COMB3	20:COMB3	12:COMB3	7:COMB3	12:COMB3	18:COMB
			-51.101	-98.978	-14.104	-10.648	-0.917	-59.439
			18:COMB	13:COMB3	21:COMB3	18:COMB	21:COMB3	7:COMB3

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
8580	7966	+ve	47.495	5.748	1.231	5.448	1.437	8.460
			9:COMB3	22:COMB	10:COMB	22:COMB	11:COMB	22:COMB
			-17.785	-18.013	-0.209	-9.700	-0.935	-21.812
			16:COMB	11:COMB	15:COMB	11:COMB	22:COMB	11:COMB
	7975	-ve	47.495	5.748	1.231	5.448	1.524	8.239
			9:COMB3	22:COMB	10:COMB	22:COMB	11:COMB	18:COMB
			-17.785	-18.013	-0.209	-9.700	-0.081	-10.293
			16:COMB	11:COMB	15:COMB	11:COMB	22:COMB	7:COMB3
8581	7967	+ve	93.388	3.476	3.578	6.591	2.686	25.937
			7:COMB3	19:COMB	7:COMB3	22:COMB	7:COMB3	11:COMB
			-13.302	-9.364	-2.629	-11.632	-2.548	-14.934
			18:COMB	14:COMB	18:COMB	11:COMB	18:COMB	22:COMB
	7976	-ve	93.388	3.476	3.578	6.591	5.982	23.794
			7:COMB3	19:COMB	7:COMB3	22:COMB	7:COMB3	11:COMB
			-13.302	-9.364	-2.629	-11.632	-4.969	-7.368
			18:COMB	14:COMB	18:COMB	11:COMB	18:COMB	22:COMB
8592	7975	+ve	54.614	49.308	6.694	2.127	1.157	8.207
			13:COMB	7:COMB3	10:COMB	20:COMB	8:COMB3	22:COMB
			-14.623	-9.381	-5.379	-7.368	-0.668	-12.285
			20:COMB	18:COMB	15:COMB	13:COMB	17:COMB	11:COMB
	684	-ve	54.614	49.308	6.694	2.127	6.537	16.776
			13:COMB	7:COMB3	10:COMB	20:COMB	10:COMB	18:COMB
			-14.623	-9.381	-5.379	-7.368	-4.657	-63.074
			20:COMB	18:COMB	15:COMB	13:COMB	15:COMB	7:COMB3
8593	7976	+ve	166.150	106.800	8.372	20.974	6.743	47.930
			7:COMB3	11:COMB	7:COMB3	22:COMB	7:COMB3	11:COMB
			-63.093	-52.136	-7.025	-30.163	-6.536	-19.534
			18:COMB	22:COMB	18:COMB	11:COMB	18:COMB	22:COMB
	674	-ve	166.150	106.800	8.372	20.974	14.009	25.869
			7:COMB3	11:COMB	7:COMB3	22:COMB	7:COMB3	18:COMB
			-63.093	-52.136	-7.025	-30.163	-12.633	-44.916
			18:COMB	22:COMB	18:COMB	11:COMB	18:COMB	7:COMB3
8621	126	+ve	31.025	68.487	26.528	12.365	0.000	0.000
			14:COMB	11:COMB	19:COMB	14:COMB	-	-
			-18.183	-41.667	-30.572	0.000	0.000	0.000
			19:COMB	22:COMB	14:COMB	-	-	-
	441	-ve	31.025	68.487	26.528	12.365	14.590	22.917
			14:COMB	11:COMB	19:COMB	14:COMB	19:COMB	22:COMB
			-18.183	-41.667	-30.572	0.000	-16.815	-37.668
			19:COMB	22:COMB	14:COMB	-	14:COMB	11:COMB
8622	441	+ve	18.664	50.369	10.702	3.987	9.617	5.528
			14:COMB	11:COMB	14:COMB	19:COMB	19:COMB	20:COMB
			-13.350	-20.277	-8.050	-5.532	-12.883	-14.423
			19:COMB	22:COMB	19:COMB	14:COMB	14:COMB	13:COMB
	442	-ve	18.664	50.369	10.702	3.987	5.592	15.405
			14:COMB	11:COMB	14:COMB	19:COMB	19:COMB	22:COMB
			-13.350	-20.277	-8.050	-5.532	-7.532	-39.346
			19:COMB	22:COMB	19:COMB	14:COMB	14:COMB	11:COMB

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
8623	442	+ve	10.637	37.144	9.133	6.132	5.660	4.034
			7:COMB3	11:COMB3	14:COMB3	19:COMB	19:COMB3	20:COMB3
			-3.386	-18.625	-8.742	-8.851	-8.165	-32.095
			18:COMB	22:COMB3	19:COMB3	14:COMB	14:COMB3	13:COMB3
	443	-ve	10.637	37.144	9.133	6.132	2.212	12.272
			7:COMB3	11:COMB3	14:COMB3	19:COMB	21:COMB3	22:COMB3
			-3.386	-18.625	-8.742	-8.851	-4.523	-49.591
			18:COMB	22:COMB3	19:COMB3	14:COMB	12:COMB3	11:COMB3
8624	443	+ve	24.403	29.181	8.260	8.838	2.243	3.126
			7:COMB3	11:COMB3	17:COMB3	19:COMB	21:COMB3	20:COMB3
			-13.361	-18.114	-13.459	-9.079	-4.597	-43.838
			18:COMB	22:COMB3	8:COMB3	14:COMB	12:COMB3	13:COMB3
	444	-ve	24.403	29.181	8.260	8.838	6.451	11.891
			7:COMB3	11:COMB3	17:COMB3	19:COMB	17:COMB3	22:COMB3
			-13.361	-18.114	-13.459	-9.079	-12.183	-59.794
			18:COMB	22:COMB3	8:COMB3	14:COMB	8:COMB3	11:COMB3
8625	444	+ve	37.360	32.445	12.868	21.950	7.197	6.687
			11:COMB3	11:COMB3	17:COMB3	11:COMB3	17:COMB3	20:COMB3
			-25.621	-21.340	-19.876	-16.039	-13.839	-65.237
			22:COMB	22:COMB3	8:COMB3	22:COMB	8:COMB3	13:COMB3
	125	-ve	37.360	32.445	12.868	21.950	13.631	13.444
			11:COMB3	11:COMB3	17:COMB3	11:COMB3	17:COMB3	20:COMB3
			-25.621	-21.340	-19.876	-16.039	-23.777	-77.547
			22:COMB	22:COMB3	8:COMB3	22:COMB	8:COMB3	13:COMB3
8626	125	+ve	51.327	30.206	20.656	34.244	13.697	13.994
			11:COMB3	7:COMB3	14:COMB3	19:COMB	17:COMB3	20:COMB3
			-44.470	-28.956	-14.617	-35.405	-23.719	-110.631
			22:COMB	18:COMB3	19:COMB3	14:COMB	8:COMB3	13:COMB3
	7990	-ve	51.327	30.206	20.656	34.244	20.217	33.658
			11:COMB3	7:COMB3	14:COMB3	19:COMB	18:COMB3	22:COMB3
			-44.470	-28.956	-14.617	-35.405	-24.323	-131.520
			22:COMB	18:COMB3	19:COMB3	14:COMB	7:COMB3	11:COMB3
8627	7902	+ve	18.299	14.516	43.382	7.050	30.333	42.170
			21:COMB	22:COMB3	13:COMB3	22:COMB	12:COMB3	22:COMB3
			-39.046	-77.088	-34.985	-36.880	-27.955	-101.258
			12:COMB	11:COMB3	20:COMB3	11:COMB3	21:COMB3	11:COMB3
	303	-ve	18.299	14.516	43.382	7.050	32.975	29.032
			21:COMB	22:COMB3	13:COMB3	22:COMB	11:COMB3	10:COMB3
			-39.046	-77.088	-34.985	-36.880	-19.680	-6.776
			12:COMB	11:COMB3	20:COMB3	11:COMB3	22:COMB3	15:COMB3
8629	7990	+ve	49.494	45.766	33.754	49.430	22.133	29.789
			11:COMB3	11:COMB3	8:COMB3	11:COMB3	18:COMB3	22:COMB3
			-42.578	-39.445	-22.038	-37.758	-31.596	-124.320
			22:COMB	22:COMB3	17:COMB3	22:COMB	7:COMB3	11:COMB3
	7902	-ve	49.494	45.766	33.754	49.430	56.525	131.344
			11:COMB3	11:COMB3	8:COMB3	11:COMB3	8:COMB3	22:COMB3
			-42.578	-39.445	-22.038	-37.758	-35.822	-242.149
			22:COMB	22:COMB3	17:COMB3	22:COMB	17:COMB3	11:COMB3

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
8630	7881	+ve	78.601	0.000	19.901	15.568	28.849	0.000
			19:COMB	-	8:COMB3	14:COMB	17:COMB	-
			-76.318	-21.669	-8.443	-14.570	-54.041	-92.886
			14:COMB	10:COMB	17:COMB	19:COMB	8:COMB3	10:COMB
	319	-ve	78.601	0.000	19.901	15.568	30.587	3.358
			19:COMB	-	8:COMB3	14:COMB	12:COMB	15:COMB
			-76.318	-21.669	-8.443	-14.570	-11.232	-8.637
			14:COMB	10:COMB	17:COMB	19:COMB	21:COMB	10:COMB
8631	7918	+ve	240.914	24.213	39.451	14.877	60.158	32.178
			7:COMB3	22:COMB	22:COMB	14:COMB	7:COMB3	14:COMB
			-219.693	-39.764	-42.555	-2.698	-57.358	-17.231
			18:COMB	11:COMB	11:COMB	19:COMB	18:COMB	19:COMB
	301	-ve	240.914	24.213	39.451	14.877	22.899	31.191
			7:COMB3	22:COMB	22:COMB	14:COMB	16:COMB	13:COMB
			-219.693	-39.764	-42.555	-2.698	-23.204	-0.692
			18:COMB	11:COMB	11:COMB	19:COMB	9:COMB3	20:COMB
8634	336	+ve	235.767	9.535	18.869	13.600	32.624	17.417
			15:COMB	19:COMB	7:COMB3	10:COMB	10:COMB	11:COMB
			-231.505	-32.040	-19.394	-6.999	-28.913	-5.529
			10:COMB	14:COMB	18:COMB	15:COMB	15:COMB	22:COMB
	40	-ve	235.767	9.535	18.869	13.600	78.072	175.791
			15:COMB	19:COMB	7:COMB3	10:COMB	7:COMB3	14:COMB
			-231.505	-32.040	-19.394	-6.999	-77.316	-37.288
			10:COMB	14:COMB	18:COMB	15:COMB	18:COMB	19:COMB
8636	7992	+ve	28.160	22.339	62.248	5.726	117.390	77.133
			22:COMB	11:COMB	10:COMB	11:COMB	15:COMB	10:COMB
			-59.081	0.000	-59.138	-4.510	-125.822	-21.597
			11:COMB	-	15:COMB	22:COMB	10:COMB	15:COMB
	60	-ve	28.160	22.339	62.248	5.726	38.100	42.898
			22:COMB	11:COMB	10:COMB	11:COMB	22:COMB	22:COMB
			-59.081	0.000	-59.138	-4.510	-38.402	-61.417
			11:COMB	-	15:COMB	22:COMB	11:COMB	11:COMB
8644	7994	+ve	81.769	93.984	43.529	7.796	38.367	49.278
			8:COMB3	11:COMB	17:COMB	14:COMB	8:COMB3	19:COMB
			-62.666	-82.986	-63.453	-7.576	-28.167	-49.827
			17:COMB	22:COMB	8:COMB3	19:COMB	17:COMB	14:COMB
	275	-ve	81.769	93.984	43.529	7.796	11.508	26.059
			8:COMB3	11:COMB	17:COMB	14:COMB	17:COMB	22:COMB
			-62.666	-82.986	-63.453	-7.576	-19.468	-36.633
			17:COMB	22:COMB	8:COMB3	19:COMB	8:COMB3	11:COMB
8645	685	+ve	27.990	13.058	5.559	7.413	10.129	18.491
			18:COMB	13:COMB	14:COMB	13:COMB	19:COMB	10:COMB
			-33.209	-4.116	-5.140	-5.592	-11.355	-16.356
			7:COMB3	20:COMB	19:COMB	20:COMB	14:COMB	15:COMB
	99	-ve	27.990	13.058	5.559	7.413	11.430	18.278
			18:COMB	13:COMB	14:COMB	13:COMB	12:COMB	22:COMB
			-33.209	-4.116	-5.140	-5.592	-11.062	-50.136
			7:COMB3	20:COMB	19:COMB	20:COMB	21:COMB	11:COMB

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
8646	111	+ve	172.190	4.621	35.055	4.110	15.466	5.660
			10:COMB	8:COMB3	10:COMB	10:COMB	19:COMB	7:COMB3
			-152.040	-3.695	-31.700	-3.415	-17.538	-4.931
			15:COMB	17:COMB	15:COMB	15:COMB	14:COMB	18:COMB
	7985	-ve	172.190	4.621	35.055	4.110	21.173	2.297
			10:COMB	8:COMB3	10:COMB	10:COMB	10:COMB	19:COMB
			-152.040	-3.695	-31.700	-3.415	-19.759	-2.529
			15:COMB	17:COMB	15:COMB	15:COMB	15:COMB	14:COMB
8716	8061	+ve	77.248	11.928	27.937	3.356	41.301	6.061
			18:COMB	7:COMB3	18:COMB	13:COMB	7:COMB3	7:COMB3
			-85.486	-7.125	-37.355	-1.949	-35.461	-3.150
			7:COMB3	18:COMB	7:COMB3	20:COMB	18:COMB	18:COMB
	52	-ve	77.248	11.928	27.937	3.356	13.201	9.261
			18:COMB	7:COMB3	18:COMB	13:COMB	18:COMB	18:COMB
			-85.486	-7.125	-37.355	-1.949	-23.765	-14.716
			7:COMB3	18:COMB	7:COMB3	20:COMB	7:COMB3	7:COMB3
8718	8062	+ve	488.032	13.744	235.705	11.162	55.271	44.719
			18:COMB	16:COMB	7:COMB3	20:COMB	18:COMB	16:COMB
			-514.280	-35.777	-205.598	-32.888	-93.594	-82.351
			7:COMB3	9:COMB3	18:COMB	13:COMB	7:COMB3	9:COMB3
	274	-ve	488.032	13.744	235.705	11.162	94.762	33.877
			18:COMB	16:COMB	7:COMB3	20:COMB	15:COMB	16:COMB
			-514.280	-35.777	-205.598	-32.888	-109.335	-54.126
			7:COMB3	9:COMB3	18:COMB	13:COMB	10:COMB	9:COMB3
8728	7985	+ve	36.960	27.492	14.271	7.937	7.322	6.643
			9:COMB3	7:COMB3	15:COMB	19:COMB	10:COMB	14:COMB
			-2.667	-3.812	-17.941	-8.022	-5.860	-4.032
			16:COMB	18:COMB	10:COMB	14:COMB	15:COMB	19:COMB
	112	-ve	36.960	27.492	14.271	7.937	8.973	8.293
			9:COMB3	7:COMB3	15:COMB	19:COMB	15:COMB	22:COMB
			-2.667	-3.812	-17.941	-8.022	-11.326	-30.294
			16:COMB	18:COMB	10:COMB	14:COMB	10:COMB	11:COMB
8730	8074	+ve	148.765	0.000	12.419	5.719	31.187	0.000
			14:COMB	-	17:COMB	13:COMB	12:COMB	-
			-95.853	-18.045	-22.001	-0.044	-18.332	-20.168
			19:COMB	13:COMB	8:COMB3	20:COMB	21:COMB	11:COMB
	81	-ve	148.765	0.000	12.419	5.719	26.199	22.448
			14:COMB	-	17:COMB	13:COMB	18:COMB	9:COMB3
			-95.853	-18.045	-22.001	-0.044	-32.150	-2.318
			19:COMB	13:COMB	8:COMB3	20:COMB	7:COMB3	16:COMB
8735	8077	+ve	2.908	0.257	0.923	0.656	0.000	0.000
			7:COMB3	16:COMB	15:COMB	11:COMB	-	-
			-2.822	-0.488	-1.050	-0.433	0.000	0.000
			18:COMB	9:COMB3	10:COMB	22:COMB	-	-
	8086	-ve	2.908	0.257	0.923	0.656	4.390	2.320
			7:COMB3	16:COMB	15:COMB	11:COMB	15:COMB	9:COMB3
			-2.822	-0.488	-1.050	-0.433	-4.993	-1.221
			18:COMB	9:COMB3	10:COMB	22:COMB	10:COMB	16:COMB

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
8736	8079	+ve	0.326	0.562	0.943	0.123	0.000	0.000
			18:COMB	16:COMB	15:COMB	17:COMB	-	-
			-0.418	-1.117	-1.038	-0.192	0.000	0.000
			7:COMB3	9:COMB3	10:COMB	8:COMB3	-	-
	8092	-ve	0.326	0.562	0.943	0.123	4.482	5.309
			18:COMB	16:COMB	15:COMB	17:COMB	15:COMB	9:COMB3
			-0.418	-1.117	-1.038	-0.192	-4.937	-2.671
			7:COMB3	9:COMB3	10:COMB	8:COMB3	10:COMB	16:COMB
8737	100	+ve	56.661	9.315	2.801	7.692	10.203	75.738
			14:COMB	7:COMB3	17:COMB	7:COMB3	12:COMB	7:COMB3
			-48.655	-5.905	-3.014	-2.505	-11.323	-38.173
			19:COMB	18:COMB	8:COMB3	18:COMB	21:COMB	18:COMB
	8097	-ve	56.661	9.315	2.801	7.692	4.223	34.212
			14:COMB	7:COMB3	17:COMB	7:COMB3	18:COMB	11:COMB
			-48.655	-5.905	-3.014	-2.505	-6.398	-13.516
			19:COMB	18:COMB	8:COMB3	18:COMB	7:COMB3	22:COMB
8738	2	+ve	4.491	6.597	2.412	14.317	9.873	62.147
			17:COMB	13:COMB	20:COMB	11:COMB	15:COMB	13:COMB
			-3.979	-4.838	-2.554	-7.388	-11.402	-36.867
			8:COMB3	20:COMB	13:COMB	22:COMB	10:COMB	20:COMB
	8082	-ve	4.491	6.597	2.412	14.317	11.204	53.779
			17:COMB	13:COMB	20:COMB	11:COMB	16:COMB	13:COMB
			-3.979	-4.838	-2.554	-7.388	-12.913	-30.731
			8:COMB3	20:COMB	13:COMB	22:COMB	9:COMB3	20:COMB
8739	8083	+ve	37.138	5.601	5.031	3.690	4.924	34.805
			11:COMB	13:COMB	17:COMB	10:COMB	15:COMB	11:COMB
			-31.467	-2.413	-4.861	-1.999	-5.689	-19.165
			22:COMB	20:COMB	8:COMB3	15:COMB	10:COMB	22:COMB
	8084	-ve	37.138	5.601	5.031	3.690	1.468	28.560
			11:COMB	13:COMB	17:COMB	10:COMB	21:COMB	11:COMB
			-31.467	-2.413	-4.861	-1.999	-2.037	-16.592
			22:COMB	20:COMB	8:COMB3	15:COMB	12:COMB	22:COMB
8740	270	+ve	15.446	11.161	6.018	24.564	0.000	0.000
			15:COMB	11:COMB	7:COMB3	22:COMB	-	-
			-22.432	-9.003	-5.851	-35.467	0.000	0.000
			10:COMB	22:COMB	18:COMB	11:COMB	-	-
	2	-ve	15.446	11.161	6.018	24.564	31.570	47.224
			15:COMB	11:COMB	7:COMB3	22:COMB	7:COMB3	22:COMB
			-22.432	-9.003	-5.851	-35.467	-30.692	-58.544
			10:COMB	22:COMB	18:COMB	11:COMB	18:COMB	11:COMB
8741	8086	+ve	1.604	1.102	4.023	0.348	6.817	2.257
			11:COMB	21:COMB	16:COMB	15:COMB	9:COMB3	9:COMB3
			-1.153	-1.190	-5.067	-0.456	-5.465	-1.878
			22:COMB	12:COMB	9:COMB3	10:COMB	16:COMB	16:COMB
	8088	-ve	1.604	1.102	4.023	0.348	5.483	2.467
			11:COMB	21:COMB	16:COMB	15:COMB	16:COMB	14:COMB
			-1.153	-1.190	-5.067	-0.456	-6.975	-1.849
			22:COMB	12:COMB	9:COMB3	10:COMB	9:COMB3	19:COMB

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
8742	8088	+ve	33.435	5.346	2.010	4.388	4.145	17.480
			11:COMB3	11:COMB3	13:COMB3	13:COMB	20:COMB3	11:COMB3
			-27.551	-3.314	-1.268	-2.936	-6.572	-10.837
			22:COMB	22:COMB3	20:COMB3	20:COMB	13:COMB3	22:COMB
	8127	-ve	33.435	5.346	2.010	4.388	0.000	0.000
			11:COMB3	11:COMB3	13:COMB3	13:COMB	-	-
			-27.551	-3.314	-1.268	-2.936	0.000	0.000
			22:COMB	22:COMB3	20:COMB3	20:COMB	-	-
8743	8086	+ve	5.037	3.845	1.380	2.624	3.401	12.572
			15:COMB	11:COMB3	9:COMB3	13:COMB	16:COMB3	11:COMB3
			-5.938	-1.892	-1.040	-2.173	-4.514	-6.185
			10:COMB	22:COMB3	16:COMB3	20:COMB	9:COMB3	22:COMB
	8115	-ve	5.037	3.845	1.380	2.624	0.000	0.000
			15:COMB	11:COMB3	9:COMB3	13:COMB	-	-
			-5.938	-1.892	-1.040	-2.173	0.000	0.000
			10:COMB	22:COMB3	16:COMB3	20:COMB	-	-
8744	8084	+ve	32.863	4.344	1.251	5.394	3.121	28.033
			11:COMB3	11:COMB3	9:COMB3	9:COMB3	22:COMB3	11:COMB3
			-28.023	-2.225	-0.959	-3.325	-4.771	-16.093
			22:COMB	22:COMB3	16:COMB3	16:COMB	11:COMB3	22:COMB
	8088	-ve	32.863	4.344	1.251	5.394	4.340	17.397
			11:COMB3	11:COMB3	9:COMB3	9:COMB3	18:COMB3	11:COMB3
			-28.023	-2.225	-0.959	-3.325	-5.276	-10.646
			22:COMB	22:COMB3	16:COMB3	16:COMB	7:COMB3	22:COMB
8745	8092	+ve	2.468	1.762	4.435	0.119	6.873	5.602
			18:COMB	17:COMB3	16:COMB3	16:COMB	9:COMB3	10:COMB
			-2.927	-2.241	-5.085	-0.280	-5.984	-5.414
			7:COMB3	8:COMB3	9:COMB3	9:COMB3	16:COMB3	15:COMB
	8083	-ve	2.468	1.762	4.435	0.119	6.087	2.104
			18:COMB	17:COMB3	16:COMB3	16:COMB	16:COMB3	14:COMB
			-2.927	-2.241	-5.085	-0.280	-6.968	-0.613
			7:COMB3	8:COMB3	9:COMB3	9:COMB3	9:COMB3	19:COMB
8746	8092	+ve	3.054	5.005	3.679	2.281	4.820	30.017
			19:COMB	11:COMB3	9:COMB3	13:COMB	16:COMB3	11:COMB3
			-3.038	-2.909	-2.974	-1.110	-6.517	-16.415
			14:COMB	22:COMB3	16:COMB3	20:COMB	9:COMB3	22:COMB
	8086	-ve	3.054	5.005	3.679	2.281	6.729	11.999
			19:COMB	11:COMB3	9:COMB3	13:COMB	9:COMB3	11:COMB3
			-3.038	-2.909	-2.974	-1.110	-5.888	-5.943
			14:COMB	22:COMB3	16:COMB3	20:COMB	16:COMB3	22:COMB
8747	12	+ve	37.666	5.953	3.116	5.364	9.118	60.616
			11:COMB3	11:COMB3	9:COMB3	10:COMB	16:COMB3	11:COMB3
			-32.645	-2.285	-2.487	-2.182	-11.713	-29.024
			22:COMB	22:COMB3	16:COMB3	15:COMB	9:COMB3	22:COMB
	8083	-ve	37.666	5.953	3.116	5.364	1.816	34.986
			11:COMB3	11:COMB3	9:COMB3	10:COMB	21:COMB3	11:COMB3
			-32.645	-2.285	-2.487	-2.182	-1.700	-19.183
			22:COMB	22:COMB3	16:COMB3	15:COMB	12:COMB3	22:COMB

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
8748	8082	+ve	3.987	6.255	5.534	7.555	16.573	52.623
			21:COMB	13:COMB	10:COMB	11:COMB	15:COMB	13:COMB
			-3.416	-4.083	-5.197	-3.934	-18.379	-29.761
			12:COMB	20:COMB	15:COMB	22:COMB	10:COMB	20:COMB
	8092	-ve	3.987	6.255	5.534	7.555	5.594	29.907
			21:COMB	13:COMB	10:COMB	11:COMB	18:COMB	11:COMB
			-3.416	-4.083	-5.197	-3.934	-5.947	-16.398
			12:COMB	20:COMB	15:COMB	22:COMB	7:COMB3	22:COMB
8749	8097	+ve	7.347	1.617	0.316	1.039	2.090	8.998
			17:COMB	7:COMB3	16:COMB	18:COMB	9:COMB3	7:COMB3
			-8.083	-1.385	-0.376	-1.471	-1.756	-7.704
			8:COMB3	18:COMB	9:COMB3	7:COMB3	16:COMB	18:COMB
	8144	-ve	7.347	1.617	0.316	1.039	0.000	0.000
			17:COMB	7:COMB3	16:COMB	18:COMB	-	-
			-8.083	-1.385	-0.376	-1.471	0.000	0.000
			8:COMB3	18:COMB	9:COMB3	7:COMB3	-	-
8750	8097	+ve	53.433	7.188	2.323	16.603	7.703	35.559
			14:COMB	11:COMB	11:COMB	11:COMB	22:COMB	11:COMB
			-44.686	-2.942	-1.557	-7.340	-11.492	-14.554
			19:COMB	22:COMB	22:COMB	22:COMB	11:COMB	22:COMB
	8153	-ve	53.433	7.188	2.323	16.603	0.000	0.000
			14:COMB	11:COMB	11:COMB	11:COMB	-	-
			-44.686	-2.942	-1.557	-7.340	0.000	0.000
			19:COMB	22:COMB	22:COMB	22:COMB	-	-
8751	8084	+ve	4.547	3.496	3.375	0.074	5.824	1.892
			17:COMB	9:COMB3	22:COMB	19:COMB	11:COMB	13:COMB
			-4.306	-2.427	-4.179	-0.209	-4.743	-1.537
			8:COMB3	16:COMB	11:COMB	14:COMB	22:COMB	20:COMB
	8097	-ve	4.547	3.496	3.375	0.074	5.164	5.604
			17:COMB	9:COMB3	22:COMB	19:COMB	22:COMB	16:COMB
			-4.306	-2.427	-4.179	-0.209	-6.445	-8.386
			8:COMB3	16:COMB	11:COMB	14:COMB	11:COMB	9:COMB3
8752	2	+ve	1.527	7.298	13.223	12.707	8.768	37.009
			15:COMB	16:COMB	7:COMB3	11:COMB	18:COMB	22:COMB
			-9.947	-12.779	-12.031	-12.603	-10.972	-48.267
			10:COMB	9:COMB3	18:COMB	22:COMB	7:COMB3	11:COMB
	12	-ve	1.527	7.298	13.223	12.707	28.733	57.770
			15:COMB	16:COMB	7:COMB3	11:COMB	7:COMB3	10:COMB
			-9.947	-12.779	-12.031	-12.603	-27.358	-52.570
			10:COMB	9:COMB3	18:COMB	22:COMB	18:COMB	15:COMB
8753	12	+ve	100.644	42.499	4.217	8.439	18.290	98.460
			15:COMB	7:COMB3	18:COMB	13:COMB	7:COMB3	7:COMB3
			-123.117	-44.232	-5.202	-7.556	-17.691	-87.901
			10:COMB	18:COMB	7:COMB3	20:COMB	18:COMB	18:COMB
	7	-ve	100.644	42.499	4.217	8.439	0.054	81.483
			15:COMB	7:COMB3	18:COMB	13:COMB	19:COMB	10:COMB
			-123.117	-44.232	-5.202	-7.556	-3.162	-64.403
			10:COMB	18:COMB	7:COMB3	20:COMB	14:COMB	15:COMB

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
8754	100	+ve	204.396	14.431	2.203	5.006	14.404	80.286
			7:COMB3	15:COMB	16:COMB	9:COMB3	9:COMB3	15:COMB
			-196.548	-14.569	-2.589	-1.677	-12.257	-81.054
			18:COMB	10:COMB	9:COMB3	16:COMB	16:COMB	10:COMB
	277	-ve	204.396	14.431	2.203	5.006	0.000	0.000
			7:COMB3	15:COMB	16:COMB	9:COMB3	-	-
			-196.548	-14.569	-2.589	-1.677	0.000	0.000
			18:COMB	10:COMB	9:COMB3	16:COMB	-	-
8755	8104	+ve	7.925	0.798	0.707	0.882	0.000	0.000
			15:COMB	16:COMB	15:COMB	22:COMB	-	-
			-8.197	-1.347	-0.732	-1.610	0.000	0.000
			10:COMB	9:COMB3	10:COMB	11:COMB	-	-
	8082	-ve	7.925	0.798	0.707	0.882	3.363	6.404
			15:COMB	16:COMB	15:COMB	22:COMB	15:COMB	9:COMB3
			-8.197	-1.347	-0.732	-1.610	-3.482	-3.796
			10:COMB	9:COMB3	10:COMB	11:COMB	10:COMB	16:COMB
8756	8082	+ve	13.637	0.641	2.319	0.406	2.707	5.418
			15:COMB	15:COMB	7:COMB3	18:COMB	18:COMB	18:COMB
			-14.388	-1.602	-2.285	-0.947	-2.729	-6.118
			10:COMB	10:COMB	18:COMB	7:COMB3	7:COMB3	7:COMB3
	12	-ve	13.637	0.641	2.319	0.406	3.583	9.530
			15:COMB	15:COMB	7:COMB3	18:COMB	7:COMB3	10:COMB
			-14.388	-1.602	-2.285	-0.947	-3.512	-7.614
			10:COMB	10:COMB	18:COMB	7:COMB3	18:COMB	15:COMB
8810	8141	+ve	75.623	5.265	8.250	2.799	1.509	83.455
			10:COMB	18:COMB	15:COMB	20:COMB	16:COMB	7:COMB3
			-60.128	-11.280	-10.299	-3.761	-3.684	-43.554
			15:COMB	7:COMB3	10:COMB	13:COMB	9:COMB3	18:COMB
	8142	-ve	75.623	5.265	8.250	2.799	9.645	95.238
			10:COMB	18:COMB	15:COMB	20:COMB	15:COMB	7:COMB3
			-60.128	-11.280	-10.299	-3.761	-13.961	-49.054
			15:COMB	7:COMB3	10:COMB	13:COMB	10:COMB	18:COMB
8811	8142	+ve	75.622	5.265	8.252	2.798	9.645	95.238
			10:COMB	18:COMB	15:COMB	20:COMB	15:COMB	7:COMB3
			-60.127	-11.280	-10.302	-3.759	-13.961	-49.054
			15:COMB	7:COMB3	10:COMB	13:COMB	10:COMB	18:COMB
	100	-ve	75.622	5.265	8.252	2.798	18.266	107.021
			10:COMB	18:COMB	15:COMB	20:COMB	15:COMB	7:COMB3
			-60.127	-11.280	-10.302	-3.759	-24.723	-54.553
			15:COMB	7:COMB3	10:COMB	13:COMB	10:COMB	18:COMB
9143	7	+ve	194.580	34.741	24.603	19.579	0.054	122.253
			7:COMB3	7:COMB3	10:COMB	18:COMB	19:COMB	15:COMB
			-184.913	-25.453	-17.499	-31.168	-3.162	-115.407
			18:COMB	18:COMB	15:COMB	7:COMB3	14:COMB	10:COMB
	100	-ve	194.580	34.741	24.603	19.579	33.776	72.797
			7:COMB3	7:COMB3	10:COMB	18:COMB	10:COMB	15:COMB
			-184.913	-25.453	-17.499	-31.168	-26.293	-79.798
			18:COMB	18:COMB	15:COMB	7:COMB3	15:COMB	10:COMB

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
9144	53	+ve	64.580	116.660	22.330	4.213	54.821	86.228
			19:COMB	7:COMB3	15:COMB	7:COMB3	10:COMB	7:COMB3
			-140.657	-58.466	-33.251	-2.963	-32.984	-6.756
			14:COMB	18:COMB	10:COMB	18:COMB	15:COMB	18:COMB
	420	-ve	64.580	116.660	22.330	4.213	21.165	135.023
			19:COMB	7:COMB3	15:COMB	7:COMB3	15:COMB	18:COMB
			-140.657	-58.466	-33.251	-2.963	-25.813	-196.672
			14:COMB	18:COMB	10:COMB	18:COMB	10:COMB	7:COMB3
9145	420	+ve	0.000	109.447	27.268	21.245	32.777	146.095
			-	18:COMB	18:COMB	18:COMB	7:COMB3	18:COMB
			-44.270	-182.274	-34.664	-27.741	-23.059	-235.669
			8:COMB3	7:COMB3	7:COMB3	7:COMB3	18:COMB	7:COMB3
	714	-ve	0.000	109.447	27.268	21.245	30.797	124.329
			-	18:COMB	18:COMB	18:COMB	18:COMB	7:COMB3
			-44.270	-182.274	-34.664	-27.741	-35.685	-70.067
			8:COMB3	7:COMB3	7:COMB3	7:COMB3	7:COMB3	18:COMB
9146	714	+ve	62.715	48.898	3.599	23.676	10.891	52.271
			18:COMB	10:COMB	18:COMB	18:COMB	7:COMB3	10:COMB
			-102.501	-47.558	-5.095	-32.136	-8.013	-57.488
			7:COMB3	15:COMB	7:COMB3	7:COMB3	18:COMB	15:COMB
	110	-ve	62.715	48.898	3.599	23.676	2.368	58.554
			18:COMB	10:COMB	18:COMB	18:COMB	21:COMB	15:COMB
			-102.501	-47.558	-5.095	-32.136	-3.142	-67.042
			7:COMB3	15:COMB	7:COMB3	7:COMB3	12:COMB	10:COMB
9147	110	+ve	165.196	72.305	26.428	37.561	10.566	69.230
			18:COMB	18:COMB	7:COMB3	18:COMB	22:COMB	18:COMB
			-203.998	-83.307	-21.265	-41.179	-14.537	-105.434
			7:COMB3	7:COMB3	18:COMB	7:COMB3	11:COMB	7:COMB3
	329	-ve	165.196	72.305	26.428	37.561	43.672	74.730
			18:COMB	18:COMB	7:COMB3	18:COMB	7:COMB3	15:COMB
			-203.998	-83.307	-21.265	-41.179	-36.684	-87.582
			7:COMB3	7:COMB3	18:COMB	7:COMB3	18:COMB	10:COMB
9148	329	+ve	90.442	45.009	54.733	27.522	43.803	29.449
			18:COMB	15:COMB	7:COMB3	15:COMB	18:COMB	15:COMB
			-117.494	-71.649	-54.350	-30.810	-44.627	-52.224
			7:COMB3	10:COMB	18:COMB	10:COMB	7:COMB3	10:COMB
	7956	-ve	90.442	45.009	54.733	27.522	7.500	15.845
			18:COMB	15:COMB	7:COMB3	15:COMB	15:COMB	10:COMB
			-117.494	-71.649	-54.350	-30.810	-7.960	-13.311
			7:COMB3	10:COMB	18:COMB	10:COMB	10:COMB	15:COMB
9149	7957	+ve	112.495	24.864	21.520	1.609	3.541	12.941
			18:COMB	11:COMB	7:COMB3	21:COMB	22:COMB	7:COMB3
			-115.803	-23.201	-15.493	-6.978	-7.623	-8.539
			7:COMB3	22:COMB	18:COMB	12:COMB	11:COMB	18:COMB
	7958	-ve	112.495	24.864	21.520	1.609	13.865	16.090
			18:COMB	11:COMB	7:COMB3	21:COMB	7:COMB3	12:COMB
			-115.803	-23.201	-15.493	-6.978	-12.220	-13.267
			7:COMB3	22:COMB	18:COMB	12:COMB	18:COMB	21:COMB

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
9150	7956	+ve	93.314	15.329	0.528	6.589	2.002	18.757
			18:COMB	15:COMB	16:COMB	15:COMB	22:COMB	7:COMB3
			-96.203	-25.821	-3.535	-7.029	-2.428	-17.213
			7:COMB3	10:COMB	9:COMB3	10:COMB	11:COMB	18:COMB
	7957	-ve	93.314	15.329	0.528	6.589	0.523	13.041
			18:COMB	15:COMB	16:COMB	15:COMB	20:COMB	12:COMB
			-96.203	-25.821	-3.535	-7.029	-3.806	-1.529
			7:COMB3	10:COMB	9:COMB3	10:COMB	13:COMB	21:COMB
9151	7958	+ve	174.986	26.083	83.875	10.398	8.930	3.148
			18:COMB	13:COMB	7:COMB3	17:COMB	7:COMB3	18:COMB
			-208.788	-23.791	-70.182	-16.785	-8.999	-17.589
			7:COMB3	20:COMB	18:COMB	8:COMB3	18:COMB	7:COMB3
	687	-ve	174.986	26.083	83.875	10.398	84.915	18.600
			18:COMB	13:COMB	7:COMB3	17:COMB	7:COMB3	20:COMB
			-208.788	-23.791	-70.182	-16.785	-72.577	-35.118
			7:COMB3	20:COMB	18:COMB	8:COMB3	18:COMB	13:COMB
9152	687	+ve	5.274	10.965	35.516	8.663	53.107	15.845
			16:COMB	20:COMB	7:COMB3	8:COMB3	18:COMB	20:COMB
			-11.622	-12.607	-35.837	-5.282	-53.389	-22.816
			9:COMB3	13:COMB	18:COMB	17:COMB	7:COMB3	13:COMB
	7955	-ve	5.274	10.965	35.516	8.663	5.978	4.270
			16:COMB	20:COMB	7:COMB3	8:COMB3	15:COMB	18:COMB
			-11.622	-12.607	-35.837	-5.282	-6.797	-8.503
			9:COMB3	13:COMB	18:COMB	17:COMB	10:COMB	7:COMB3
9153	38	+ve	194.568	60.133	22.350	28.764	38.889	67.244
			7:COMB3	7:COMB3	18:COMB	7:COMB3	7:COMB3	15:COMB
			-180.039	-44.303	-66.231	-10.002	-12.222	-92.953
			18:COMB	18:COMB	7:COMB3	18:COMB	18:COMB	10:COMB
	7950	-ve	194.568	60.133	22.350	28.764	27.080	0.000
			7:COMB3	7:COMB3	18:COMB	7:COMB3	18:COMB	-
			-180.039	-44.303	-66.231	-10.002	-77.576	-46.817
			18:COMB	18:COMB	7:COMB3	18:COMB	7:COMB3	8:COMB3
9154	7950	+ve	273.333	0.000	43.470	35.142	7.514	82.310
			15:COMB	-	8:COMB3	13:COMB	17:COMB	15:COMB
			-366.410	-97.691	-2.332	-22.399	-70.728	-177.657
			10:COMB	10:COMB	17:COMB	20:COMB	8:COMB3	10:COMB
	53	-ve	273.333	0.000	43.470	35.142	64.895	157.164
			15:COMB	-	8:COMB3	13:COMB	8:COMB3	13:COMB
			-366.410	-97.691	-2.332	-22.399	0.000	0.000
			10:COMB	10:COMB	17:COMB	20:COMB	-	-

Node Displacement Summary

	Node	L/C	X	Y	Z	Resultant	rX	rY	rZ
			(mm)	(mm)	(mm)	(mm)	(rad)	(rad)	(rad)
Max X	7128	23:SERVICIO	**1.571**	-87.653	1.024	87.673	-0.007	0.000	0.005
Min X	277	23:SERVICIO	**-6.343**	-42.055	4.830	42.804	0.003	-0.001	0.002
Max Y	8077	23:SERVICIO	-1.091	**-4.744**	3.051	5.745	0.001	0.000	0.000
Min Y	7846	23:SERVICIO	0.588	**-124.587**	1.892	124.603	0.002	0.000	-0.001
Max Z	8144	23:SERVICIO	-5.940	-25.774	**5.123**	26.941	0.002	0.000	0.002
Min Z	53	23:SERVICIO	-2.829	-87.563	**-1.126**	87.616	0.000	-0.000	0.001
Max rX	268	23:SERVICIO	-0.526	-82.521	3.895	82.614	**0.011**	-0.000	-0.006
Min rX	510	23:SERVICIO	0.788	-61.120	0.622	61.128	**-0.008**	0.000	-0.003
Max rY	101	23:SERVICIO	-3.685	-84.815	-0.856	84.900	0.000	**0.001**	0.001
Min rY	277	23:SERVICIO	-6.343	-42.055	4.830	42.804	0.003	**-0.001**	0.002
Max rZ	383	23:SERVICIO	-1.984	-58.129	1.781	58.190	0.005	-0.000	**0.005**
Min rZ	267	23:SERVICIO	-0.286	-64.881	3.604	64.982	0.006	0.000	**-0.013**
Max Rst	7846	23:SERVICIO	0.588	-124.587	1.892	**124.603**	0.002	0.000	-0.001

Beam End Forces Envelope

Sign convention is as the action of the joint on the beam.

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
13029	10429	+ve	0.000	0.000	0.000	0.444	0.000	1.253
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-17.795	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
	12051	-ve	0.000	0.000	0.000	0.444	0.000	18.661
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-18.818	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
13030	10433	+ve	0.000	0.000	0.000	0.000	0.000	1.427
			-	-	-	-	-	5:COMB1
			0.000	-21.981	0.000	-0.030	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
	11756	-ve	0.000	0.000	0.000	0.000	0.000	22.815
			-	-	-	-	-	5:COMB1
			0.000	-23.004	0.000	-0.030	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
13031	10435	+ve	0.000	0.000	0.000	0.000	0.000	0.987
			-	-	-	-	-	5:COMB1
			0.000	-56.984	0.000	-0.094	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
	11722	-ve	0.000	0.000	0.000	0.000	0.000	56.633
			-	-	-	-	-	5:COMB1
			0.000	-60.054	0.000	-0.094	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
13032	10436	+ve	0.000	0.000	0.000	0.021	0.000	1.410
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-21.667	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
	11688	-ve	0.000	0.000	0.000	0.021	0.000	22.500
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-22.691	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
13033	10438	+ve	0.000	0.000	0.000	0.020	0.000	0.986
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-56.912	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
	11654	-ve	0.000	0.000	0.000	0.020	0.000	56.563
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-59.982	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
13034	10440	+ve	0.000	0.000	0.000	0.000	0.000	1.414
			-	-	-	-	-	5:COMB1
			0.000	-21.735	0.000	-0.019	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
	11620	-ve	0.000	0.000	0.000	0.000	0.000	22.569
			-	-	-	-	-	5:COMB1
			0.000	-22.759	0.000	-0.019	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
13035	10441	+ve	0.000	0.000	0.000	0.073	0.000	1.432
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-22.067	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
	10751	-ve	0.000	0.000	0.000	0.073	0.000	22.903
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-23.091	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
13036	10443	+ve	0.000	0.000	0.000	0.000	0.000	0.908
			-	-	-	-	-	5:COMB1
			0.000	-51.313	0.000	-2.686	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
	11508	-ve	0.000	0.000	0.000	0.000	0.000	51.162
			-	-	-	-	-	5:COMB1
			0.000	-54.384	0.000	-2.686	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
13037	10547	+ve	0.000	18.149	0.000	0.000	0.000	31.033
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-4.580	0.000	0.000
			-	-	-	5:COMB1	-	-
	13747	-ve	0.000	15.659	0.000	0.000	0.000	17.997
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-4.580	0.000	0.000
			-	-	-	5:COMB1	-	-
13040	10498	+ve	0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
			0.000	-7.302	0.000	-2.248	0.000	-3.317
			-	5:COMB1	-	5:COMB1	-	5:COMB1
	12618	-ve	0.000	0.000	0.000	0.000	0.000	4.062
			-	-	-	-	-	5:COMB1
			0.000	-8.319	0.000	-2.248	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
13042	10450	+ve	0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
			0.000	-20.415	0.000	-3.345	0.000	-41.746
			-	5:COMB1	-	5:COMB1	-	5:COMB1
	13327	-ve	0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
			0.000	-23.218	0.000	-3.345	0.000	-22.810
			-	5:COMB1	-	5:COMB1	-	5:COMB1
13043	10540	+ve	0.000	11.519	0.000	0.000	0.000	13.694
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-1.972	0.000	0.000
			-	-	-	5:COMB1	-	-
	13805	-ve	0.000	10.144	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
			0.000	0.000	0.000	-1.972	0.000	-0.148
			-	-	-	5:COMB1	-	5:COMB1

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
13044	10451	+ve	0.000	0.314	0.000	0.000	0.000	0.288
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-2.481	0.000	0.000
			-	-	-	5:COMB1	-	-
	10546	-ve	0.000	0.000	0.000	0.000	0.000	0.649
			-	-	-	-	-	5:COMB1
			0.000	-0.936	0.000	-2.481	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
13049	10575	+ve	0.000	12.614	0.000	0.000	0.000	28.925
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-2.694	0.000	0.000
			-	-	-	5:COMB1	-	-
	13168	-ve	0.000	9.552	0.000	0.000	0.000	18.413
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-2.694	0.000	0.000
			-	-	-	5:COMB1	-	-
13050	10576	+ve	0.000	13.114	0.000	0.000	0.000	28.784
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-7.025	0.000	0.000
			-	-	-	5:COMB1	-	-
	13072	-ve	0.000	9.022	0.000	0.000	0.000	14.757
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-7.025	0.000	0.000
			-	-	-	5:COMB1	-	-
13052	10575	+ve	0.000	0.000	0.000	0.762	0.000	0.000
			-	-	-	5:COMB1	-	-
			0.000	-12.527	0.000	0.000	0.000	-26.927
			-	5:COMB1	-	-	-	5:COMB1
	12609	-ve	0.000	0.000	0.000	0.762	0.000	0.000
			-	-	-	5:COMB1	-	-
			0.000	-13.748	0.000	0.000	0.000	-12.034
			-	5:COMB1	-	-	-	5:COMB1
13053	10573	+ve	0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
			0.000	-3.049	0.000	-0.082	0.000	-26.087
			-	5:COMB1	-	5:COMB1	-	5:COMB1
	12590	-ve	0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
			0.000	-4.244	0.000	-0.082	0.000	-22.039
			-	5:COMB1	-	5:COMB1	-	5:COMB1
13054	10461	+ve	0.000	0.000	0.000	0.090	0.000	0.988
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-57.063	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
	11586	-ve	0.000	0.000	0.000	0.090	0.000	56.709
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-60.133	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
13059	10447	+ve	0.000	0.000	0.000	23.658	0.000	0.000
			-	-	-	5:COMB1	-	-
			0.000	-44.917	0.000	0.000	0.000	-82.752
			-	5:COMB1	-	-	-	5:COMB1
	10458	-ve	0.000	0.000	0.000	23.658	0.000	5.597
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-50.873	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
13064	10473	+ve	0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
			0.000	-18.037	0.000	-1.964	0.000	-31.182
			-	5:COMB1	-	5:COMB1	-	5:COMB1
	13202	-ve	0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
			0.000	-19.232	0.000	-1.964	0.000	-10.487
			-	5:COMB1	-	5:COMB1	-	5:COMB1
13068	10572	+ve	0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
			0.000	-26.378	0.000	-0.101	0.000	-73.976
			-	5:COMB1	-	5:COMB1	-	5:COMB1
	13164	-ve	0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
			0.000	-29.555	0.000	-0.101	0.000	-46.464
			-	5:COMB1	-	5:COMB1	-	5:COMB1
13070	10491	+ve	0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
			0.000	-10.284	0.000	-0.958	0.000	-22.322
			-	5:COMB1	-	5:COMB1	-	5:COMB1
	13839	-ve	0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
			0.000	-11.682	0.000	-0.958	0.000	-8.054
			-	5:COMB1	-	5:COMB1	-	5:COMB1
13101	10452	+ve	0.000	81.750	0.000	2.947	0.000	16.089
			-	5:COMB1	-	5:COMB1	-	5:COMB1
			0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
	12283	-ve	0.000	78.599	0.000	2.947	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
			0.000	0.000	0.000	0.000	0.000	-62.138
			-	-	-	-	-	5:COMB1
13121	10425	+ve	0.000	0.000	0.000	0.913	0.000	0.000
			-	-	-	5:COMB1	-	-
			0.000	-11.386	0.000	0.000	0.000	-14.206
			-	5:COMB1	-	-	-	5:COMB1
	12203	-ve	0.000	0.000	0.000	0.913	0.000	0.000
			-	-	-	5:COMB1	-	-
			0.000	-14.840	0.000	0.000	0.000	-0.181
			-	5:COMB1	-	-	-	5:COMB1

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
13123	10428	+ve	0.000	0.000	0.000	14.899	0.000	0.000
			-	-	-	5:COMB1	-	-
			0.000	-22.654	0.000	0.000	0.000	-24.846
			-	5:COMB1	-	-	-	5:COMB1
	10642	-ve	0.000	0.000	0.000	14.899	0.000	0.000
			-	-	-	5:COMB1	-	-
			0.000	-25.124	0.000	0.000	0.000	-6.571
			-	5:COMB1	-	-	-	5:COMB1
13124	10426	+ve	0.000	0.000	0.000	2.192	0.000	0.642
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-32.751	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
	12079	-ve	0.000	0.000	0.000	2.192	0.000	33.244
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-35.822	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
13126	10425	+ve	0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
			0.000	-69.803	0.000	-1.108	0.000	-88.950
			-	5:COMB1	-	5:COMB1	-	5:COMB1
	12202	-ve	0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
			0.000	-73.476	0.000	-1.108	0.000	-7.482
			-	5:COMB1	-	5:COMB1	-	5:COMB1
13132	10432	+ve	0.000	0.000	0.000	1.428	0.000	0.965
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-54.193	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
	11790	-ve	0.000	0.000	0.000	1.428	0.000	53.957
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-57.264	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
13141	10540	+ve	0.000	7.184	0.000	0.000	0.000	7.136
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-0.204	0.000	0.000
			-	-	-	5:COMB1	-	-
	13854	-ve	0.000	5.935	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
			0.000	0.000	0.000	-0.204	0.000	-0.474
			-	-	-	5:COMB1	-	5:COMB1
13162	10548	+ve	0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
			0.000	-7.439	0.000	-3.476	0.000	-11.598
			-	5:COMB1	-	5:COMB1	-	5:COMB1
	13369	-ve	0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
			0.000	-11.314	0.000	-3.476	0.000	-0.347
			-	5:COMB1	-	5:COMB1	-	5:COMB1

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
13165	10549	+ve	0.000	33.208	0.000	0.000	0.000	45.167
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-1.226	0.000	0.000
			-	-	-	5:COMB1	-	-
	13557	-ve	0.000	29.963	0.000	0.000	0.000	13.433
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-1.226	0.000	0.000
			-	-	-	5:COMB1	-	-
13168	10554	+ve	0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
			0.000	-6.637	0.000	-0.121	0.000	-23.895
			-	5:COMB1	-	5:COMB1	-	5:COMB1
	13335	-ve	0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
			0.000	-7.655	0.000	-0.121	0.000	-17.140
			-	5:COMB1	-	5:COMB1	-	5:COMB1
13169	10555	+ve	0.000	1.604	0.000	1.429	0.000	5.408
			-	5:COMB1	-	5:COMB1	-	5:COMB1
			0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
	13309	-ve	0.000	0.589	0.000	1.429	0.000	4.374
			-	5:COMB1	-	5:COMB1	-	5:COMB1
			0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
13171	10558	+ve	0.000	17.933	0.000	2.969	0.000	66.829
			-	5:COMB1	-	5:COMB1	-	5:COMB1
			0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
	13560	-ve	0.000	14.093	0.000	2.969	0.000	47.789
			-	5:COMB1	-	5:COMB1	-	5:COMB1
			0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
13175	10554	+ve	0.000	0.000	0.000	2.382	0.000	0.000
			-	-	-	5:COMB1	-	-
			0.000	-8.026	0.000	0.000	0.000	-11.032
			-	5:COMB1	-	-	-	5:COMB1
	13334	-ve	0.000	0.000	0.000	2.382	0.000	0.000
			-	-	-	5:COMB1	-	-
			0.000	-10.933	0.000	0.000	0.000	-2.500
			-	5:COMB1	-	-	-	5:COMB1
13188	10546	+ve	0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
			0.000	-2.940	0.000	-2.420	0.000	-0.447
			-	5:COMB1	-	5:COMB1	-	5:COMB1
	13501	-ve	0.000	0.000	0.000	0.000	0.000	2.585
			-	-	-	-	-	5:COMB1
			0.000	-3.895	0.000	-2.420	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
13189	10459	+ve	0.000	38.535	0.000	0.000	0.000	23.350
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-12.362	0.000	0.000
			-	-	-	5:COMB1	-	-
	13328	-ve	0.000	35.477	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
			0.000	0.000	0.000	-12.362	0.000	-11.705
			-	-	-	5:COMB1	-	5:COMB1
13191	10442	+ve	0.000	16.325	0.000	0.000	0.000	65.086
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-4.390	0.000	0.000
			-	-	-	5:COMB1	-	-
	13308	-ve	0.000	12.741	0.000	0.000	0.000	48.959
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-4.390	0.000	0.000
			-	-	-	5:COMB1	-	-
13192	10451	+ve	0.000	6.355	0.000	0.000	0.000	69.448
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-6.010	0.000	0.000
			-	-	-	5:COMB1	-	-
	10442	-ve	0.000	1.537	0.000	0.000	0.000	63.559
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-6.010	0.000	0.000
			-	-	-	5:COMB1	-	-
13193	10544	+ve	0.000	48.992	0.000	5.080	0.000	86.153
			-	5:COMB1	-	5:COMB1	-	5:COMB1
			0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
	13224	-ve	0.000	45.264	0.000	5.080	0.000	31.755
			-	5:COMB1	-	5:COMB1	-	5:COMB1
			0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
13197	10473	+ve	0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
			0.000	-38.398	0.000	-6.364	0.000	-5.749
			-	5:COMB1	-	5:COMB1	-	5:COMB1
	13206	-ve	0.000	0.000	0.000	0.000	0.000	41.420
			-	-	-	-	-	5:COMB1
			0.000	-42.178	0.000	-6.364	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
13198	10450	+ve	0.000	122.034	0.000	21.836	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
			0.000	0.000	0.000	0.000	0.000	-26.635
			-	-	-	-	-	5:COMB1
	13339	-ve	0.000	119.510	0.000	21.836	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
			0.000	0.000	0.000	0.000	0.000	-121.043
			-	-	-	-	-	5:COMB1

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
13204	10551	+ve	0.000	99.551	0.000	16.189	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
			0.000	0.000	0.000	0.000	0.000	-33.941
			-	-	-	-	-	5:COMB1
	13242	-ve	0.000	96.907	0.000	16.189	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
			0.000	0.000	0.000	0.000	0.000	-114.391
			-	-	-	-	-	5:COMB1
13209	10541	+ve	0.000	46.104	0.000	0.000	0.000	80.613
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-12.572	0.000	0.000
			-	-	-	5:COMB1	-	-
	13777	-ve	0.000	42.340	0.000	0.000	0.000	29.073
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-12.572	0.000	0.000
			-	-	-	5:COMB1	-	-
13211	10491	+ve	0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
			0.000	-48.002	0.000	-5.011	0.000	-85.636
			-	5:COMB1	-	5:COMB1	-	5:COMB1
	13783	-ve	0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
			0.000	-51.549	0.000	-5.011	0.000	-30.963
			-	5:COMB1	-	5:COMB1	-	5:COMB1
13214	10572	+ve	0.000	10.098	0.000	0.000	0.000	10.916
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-14.901	0.000	0.000
			-	-	-	5:COMB1	-	-
	12820	-ve	0.000	6.616	0.000	0.000	0.000	1.903
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-14.901	0.000	0.000
			-	-	-	5:COMB1	-	-
13217	10573	+ve	0.000	0.435	0.000	1.503	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
			0.000	0.000	0.000	0.000	0.000	-13.108
			-	-	-	-	-	5:COMB1
	12610	-ve	0.000	0.000	0.000	1.503	0.000	0.000
			-	-	-	5:COMB1	-	-
			0.000	-3.408	0.000	0.000	0.000	-11.339
			-	5:COMB1	-	-	-	5:COMB1
13219	10475	+ve	0.000	0.000	0.000	9.756	0.000	0.000
			-	-	-	5:COMB1	-	-
			0.000	-1.371	0.000	0.000	0.000	-35.254
			-	5:COMB1	-	-	-	5:COMB1
	13101	-ve	0.000	0.000	0.000	9.756	0.000	0.000
			-	-	-	5:COMB1	-	-
			0.000	-4.749	0.000	0.000	0.000	-32.053
			-	5:COMB1	-	-	-	5:COMB1

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
13221	10555	+ve	0.000	9.698	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
			0.000	0.000	0.000	-1.644	0.000	-1.853
			-	-	-	5:COMB1	-	5:COMB1
	12635	-ve	0.000	8.523	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
			0.000	0.000	0.000	-1.644	0.000	-11.794
			-	-	-	5:COMB1	-	5:COMB1
13222	10556	+ve	0.000	9.874	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
			0.000	0.000	0.000	-0.219	0.000	-10.124
			-	-	-	5:COMB1	-	5:COMB1
	12627	-ve	0.000	8.637	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
			0.000	0.000	0.000	-0.219	0.000	-20.768
			-	-	-	5:COMB1	-	5:COMB1
13224	10452	+ve	0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
			0.000	-12.921	0.000	-3.122	0.000	-9.138
			-	5:COMB1	-	5:COMB1	-	5:COMB1
	13285	-ve	0.000	0.000	0.000	0.000	0.000	7.996
			-	-	-	-	-	5:COMB1
			0.000	-16.661	0.000	-3.122	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
13228	10458	+ve	0.000	0.000	0.000	4.281	0.000	0.000
			-	-	-	5:COMB1	-	-
			0.000	-33.083	0.000	0.000	0.000	-161.779
			-	5:COMB1	-	-	-	5:COMB1
	12671	-ve	0.000	0.000	0.000	4.281	0.000	0.000
			-	-	-	5:COMB1	-	-
			0.000	-36.872	0.000	0.000	0.000	-120.732
			-	5:COMB1	-	-	-	5:COMB1
13237	10458	+ve	0.000	10.347	0.000	14.966	0.000	11.156
			-	5:COMB1	-	5:COMB1	-	5:COMB1
			0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
	12667	-ve	0.000	6.864	0.000	14.966	0.000	1.875
			-	5:COMB1	-	5:COMB1	-	5:COMB1
			0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
13239	10564	+ve	0.000	24.541	0.000	3.702	0.000	45.746
			-	5:COMB1	-	5:COMB1	-	5:COMB1
			0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
	13766	-ve	0.000	22.053	0.000	3.702	0.000	27.796
			-	5:COMB1	-	5:COMB1	-	5:COMB1
			0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
13242	10453	+ve	0.000	0.000	0.000	7.190	0.000	0.000
			-	-	-	5:COMB1	-	-
			0.000	-10.794	0.000	0.000	0.000	-27.845
			-	5:COMB1	-	-	-	5:COMB1
	13842	-ve	0.000	0.000	0.000	7.190	0.000	0.000
			-	-	-	5:COMB1	-	-
			0.000	-15.508	0.000	0.000	0.000	-8.650
			-	5:COMB1	-	-	-	5:COMB1
13249	10578	+ve	0.000	0.000	0.000	0.787	0.000	1.618
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-4.416	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
	12852	-ve	0.000	0.000	0.000	0.787	0.000	7.992
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-7.789	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
13264	10453	+ve	0.000	60.322	0.000	11.583	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
			0.000	0.000	0.000	0.000	0.000	-5.473
			-	-	-	-	-	5:COMB1
	10491	-ve	0.000	55.320	0.000	11.583	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
			0.000	0.000	0.000	0.000	0.000	-95.038
			-	-	-	-	-	5:COMB1
13281	10620	+ve	0.000	0.000	0.000	1.834	0.000	0.000
			-	-	-	5:COMB1	-	-
			0.000	-7.947	0.000	0.000	0.000	-12.024
			-	5:COMB1	-	-	-	5:COMB1
	13379	-ve	0.000	0.000	0.000	1.834	0.000	0.000
			-	-	-	5:COMB1	-	-
			0.000	-11.654	0.000	0.000	0.000	-0.775
			-	5:COMB1	-	-	-	5:COMB1
13287	10455	+ve	0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
			0.000	-5.487	0.000	-0.961	0.000	-6.296
			-	5:COMB1	-	5:COMB1	-	5:COMB1
	13355	-ve	0.000	0.000	0.000	0.000	0.000	1.112
			-	-	-	-	-	5:COMB1
			0.000	-6.787	0.000	-0.961	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
13293	10495	+ve	0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
			0.000	-5.651	0.000	-6.543	0.000	-15.548
			-	5:COMB1	-	5:COMB1	-	5:COMB1
	13024	-ve	0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
			0.000	-8.123	0.000	-6.543	0.000	-7.110
			-	5:COMB1	-	5:COMB1	-	5:COMB1

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
13294	10632	+ve	0.000	6.337	0.000	3.130	0.000	10.503
			-	5:COMB1	-	5:COMB1	-	5:COMB1
			0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
	13052	-ve	0.000	3.779	0.000	3.130	0.000	4.093
			-	5:COMB1	-	5:COMB1	-	5:COMB1
			0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
13295	10472	+ve	0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
			0.000	-10.865	0.000	-14.524	0.000	-23.024
			-	5:COMB1	-	5:COMB1	-	5:COMB1
	13074	-ve	0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
			0.000	-13.225	0.000	-14.524	0.000	-8.940
			-	5:COMB1	-	5:COMB1	-	5:COMB1
13298	10469	+ve	0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
			0.000	-12.590	0.000	-1.222	0.000	-49.557
			-	5:COMB1	-	5:COMB1	-	5:COMB1
	12638	-ve	0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
			0.000	-14.959	0.000	-1.222	0.000	-33.389
			-	5:COMB1	-	5:COMB1	-	5:COMB1
13300	10470	+ve	0.000	19.344	0.000	5.292	0.000	28.939
			-	5:COMB1	-	5:COMB1	-	5:COMB1
			0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
	12704	-ve	0.000	16.966	0.000	5.292	0.000	7.548
			-	5:COMB1	-	5:COMB1	-	5:COMB1
			0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
13306	10454	+ve	0.000	0.000	0.000	0.942	0.000	0.000
			-	-	-	5:COMB1	-	-
			0.000	-8.909	0.000	0.000	0.000	-30.071
			-	5:COMB1	-	-	-	5:COMB1
	12998	-ve	0.000	0.000	0.000	0.942	0.000	0.000
			-	-	-	5:COMB1	-	-
			0.000	-10.961	0.000	0.000	0.000	-19.965
			-	5:COMB1	-	-	-	5:COMB1
13307	10481	+ve	0.000	0.000	0.000	0.000	0.000	32.166
			-	-	-	-	-	5:COMB1
			0.000	-5.585	0.000	-2.497	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
	12764	-ve	0.000	0.000	0.000	0.000	0.000	39.540
			-	-	-	-	-	5:COMB1
			0.000	-7.807	0.000	-2.497	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
13309	10633	+ve	0.000	12.581	0.000	2.258	0.000	27.348
			-	5:COMB1	-	5:COMB1	-	5:COMB1
			0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
	13107	-ve	0.000	10.257	0.000	2.258	0.000	14.197
			-	5:COMB1	-	5:COMB1	-	5:COMB1
			0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
13311	10458	+ve	0.000	0.000	0.000	26.228	0.000	0.000
			-	-	-	5:COMB1	-	-
			0.000	-40.378	0.000	0.000	0.000	-83.314
			-	5:COMB1	-	-	-	5:COMB1
	13139	-ve	0.000	0.000	0.000	26.228	0.000	0.000
			-	-	-	5:COMB1	-	-
			0.000	-44.490	0.000	0.000	0.000	-29.278
			-	5:COMB1	-	-	-	5:COMB1
13318	10642	+ve	0.000	0.000	0.000	1.559	0.000	2.310
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-8.509	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
	12247	-ve	0.000	0.000	0.000	1.559	0.000	14.267
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-12.232	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
13319	10642	+ve	0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
			0.000	-9.597	0.000	-0.359	0.000	-18.987
			-	5:COMB1	-	5:COMB1	-	5:COMB1
	13639	-ve	0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
			0.000	-13.145	0.000	-0.359	0.000	-6.491
			-	5:COMB1	-	5:COMB1	-	5:COMB1
13322	10643	+ve	0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
			0.000	-22.907	0.000	-2.279	0.000	-51.036
			-	5:COMB1	-	5:COMB1	-	5:COMB1
	13100	-ve	0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
			0.000	-24.249	0.000	-2.279	0.000	-21.643
			-	5:COMB1	-	5:COMB1	-	5:COMB1
13341	10631	+ve	0.000	10.121	0.000	0.000	0.000	12.419
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-3.576	0.000	0.000
			-	-	-	5:COMB1	-	-
	13171	-ve	0.000	8.056	0.000	0.000	0.000	3.117
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-3.576	0.000	0.000
			-	-	-	5:COMB1	-	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
13353	10535	+ve	0.000	23.683	0.000	9.939	0.000	102.747
			-	5:COMB1	-	5:COMB1	-	5:COMB1
			0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
	11999	-ve	0.000	20.530	0.000	9.939	0.000	81.160
			-	5:COMB1	-	5:COMB1	-	5:COMB1
			0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
13354	10533	+ve	0.000	23.651	0.000	9.358	0.000	100.925
			-	5:COMB1	-	5:COMB1	-	5:COMB1
			0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
	11941	-ve	0.000	20.517	0.000	9.358	0.000	79.497
			-	5:COMB1	-	5:COMB1	-	5:COMB1
			0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
13355	10531	+ve	0.000	23.082	0.000	9.396	0.000	100.539
			-	5:COMB1	-	5:COMB1	-	5:COMB1
			0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
	11883	-ve	0.000	19.928	0.000	9.396	0.000	79.528
			-	5:COMB1	-	5:COMB1	-	5:COMB1
			0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
13356	10529	+ve	0.000	24.093	0.000	9.713	0.000	102.979
			-	5:COMB1	-	5:COMB1	-	5:COMB1
			0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
	11825	-ve	0.000	20.946	0.000	9.713	0.000	81.034
			-	5:COMB1	-	5:COMB1	-	5:COMB1
			0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
13357	10520	+ve	0.000	13.673	0.000	0.000	0.000	63.436
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-4.878	0.000	0.000
			-	-	-	5:COMB1	-	-
	12444	-ve	0.000	10.520	0.000	0.000	0.000	51.626
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-4.878	0.000	0.000
			-	-	-	5:COMB1	-	-
13358	10522	+ve	0.000	13.486	0.000	0.000	0.000	61.069
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-4.220	0.000	0.000
			-	-	-	5:COMB1	-	-
	12398	-ve	0.000	10.353	0.000	0.000	0.000	49.503
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-4.220	0.000	0.000
			-	-	-	5:COMB1	-	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
13359	10523	+ve	0.000	15.210	0.000	0.000	0.000	67.243
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-7.116	0.000	0.000
			-	-	-	5:COMB1	-	-
	12352	-ve	0.000	12.055	0.000	0.000	0.000	53.924
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-7.116	0.000	0.000
			-	-	-	5:COMB1	-	-
13361	10524	+ve	0.000	9.830	0.000	0.000	0.000	50.918
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-0.649	0.000	0.000
			-	-	-	5:COMB1	-	-
	12306	-ve	0.000	6.683	0.000	0.000	0.000	42.872
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-0.649	0.000	0.000
			-	-	-	5:COMB1	-	-
13371	10437	+ve	0.000	65.261	0.000	0.000	0.000	119.463
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-9.581	0.000	0.000
			-	-	-	5:COMB1	-	-
	12731	-ve	0.000	61.269	0.000	0.000	0.000	41.258
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-9.581	0.000	0.000
			-	-	-	5:COMB1	-	-
13378	10581	+ve	0.000	45.067	0.000	0.000	0.000	81.716
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-26.623	0.000	0.000
			-	-	-	5:COMB1	-	-
	12821	-ve	0.000	41.253	0.000	0.000	0.000	30.735
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-26.623	0.000	0.000
			-	-	-	5:COMB1	-	-
13396	10509	+ve	0.000	0.000	0.000	0.000	0.000	22.612
			-	-	-	-	-	5:COMB1
			0.000	-1.234	0.000	-0.329	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
	11762	-ve	0.000	0.000	0.000	0.000	0.000	24.331
			-	-	-	-	-	5:COMB1
			0.000	-2.285	0.000	-0.329	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
13397	10511	+ve	0.000	0.000	0.000	0.000	0.000	22.414
			-	-	-	-	-	5:COMB1
			0.000	-0.662	0.000	-0.306	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
	11694	-ve	0.000	0.000	0.000	0.000	0.000	23.563
			-	-	-	-	-	5:COMB1
			0.000	-1.706	0.000	-0.306	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
13398	10513	+ve	0.000	0.000	0.000	0.000	0.000	22.409
			-	-	-	-	-	5:COMB1
			0.000	-0.853	0.000	-0.313	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
	11626	-ve	0.000	0.000	0.000	0.000	0.000	23.756
			-	-	-	-	-	5:COMB1
			0.000	-1.905	0.000	-0.313	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
13399	10515	+ve	0.000	0.000	0.000	0.000	0.000	22.845
			-	-	-	-	-	5:COMB1
			0.000	-0.554	0.000	-0.298	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
	11558	-ve	0.000	0.000	0.000	0.000	0.000	23.895
			-	-	-	-	-	5:COMB1
			0.000	-1.603	0.000	-0.298	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
13409	10492	+ve	0.000	18.415	0.000	5.625	0.000	32.087
			-	5:COMB1	-	5:COMB1	-	5:COMB1
			0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
	12794	-ve	0.000	16.041	0.000	5.625	0.000	11.826
			-	5:COMB1	-	5:COMB1	-	5:COMB1
			0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
13410	10517	+ve	0.000	10.408	0.000	0.000	0.000	25.311
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-0.047	0.000	0.000
			-	-	-	5:COMB1	-	-
	11495	-ve	0.000	9.017	0.000	0.000	0.000	12.753
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-0.047	0.000	0.000
			-	-	-	5:COMB1	-	-
13411	10506	+ve	0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
			0.000	-15.131	0.000	-1.444	0.000	-31.305
			-	5:COMB1	-	5:COMB1	-	5:COMB1
	12108	-ve	0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
			0.000	-16.284	0.000	-1.444	0.000	-14.487
			-	5:COMB1	-	5:COMB1	-	5:COMB1
13414	10630	+ve	0.000	1.737	0.000	0.000	0.000	14.724
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-4.629	0.000	0.000
			-	-	-	5:COMB1	-	-
	12596	-ve	0.000	0.000	0.000	0.000	0.000	14.086
			-	-	-	-	-	5:COMB1
			0.000	-0.664	0.000	-4.629	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
13415	10556	+ve	0.000	0.223	0.000	0.000	0.000	0.820
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-0.923	0.000	0.000
			-	-	-	5:COMB1	-	-
	12636	-ve	0.000	0.000	0.000	0.000	0.000	1.315
			-	-	-	-	-	5:COMB1
			0.000	-1.057	0.000	-0.923	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
13418	10489	+ve	0.000	0.000	0.000	0.332	0.000	0.878
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-11.513	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
	12258	-ve	0.000	0.000	0.000	0.332	0.000	17.425
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-15.473	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
13434	10751	+ve	0.000	0.000	0.000	0.121	0.000	25.410
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-15.677	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
	11547	-ve	0.000	0.000	0.000	0.121	0.000	40.804
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-16.701	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
13475	10516	+ve	0.000	43.522	0.000	9.441	0.000	155.700
			-	5:COMB1	-	5:COMB1	-	5:COMB1
			0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
	11524	-ve	0.000	40.296	0.000	9.441	0.000	113.824
			-	5:COMB1	-	5:COMB1	-	5:COMB1
			0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
13479	10515	+ve	0.000	7.148	0.000	0.000	0.000	44.476
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-0.064	0.000	0.000
			-	-	-	5:COMB1	-	-
	11824	-ve	0.000	6.073	0.000	0.000	0.000	37.871
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-0.064	0.000	0.000
			-	-	-	5:COMB1	-	-
13483	10514	+ve	0.000	49.339	0.000	0.000	0.000	175.660
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-0.336	0.000	0.000
			-	-	-	5:COMB1	-	-
	11853	-ve	0.000	46.112	0.000	0.000	0.000	127.972
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-0.336	0.000	0.000
			-	-	-	5:COMB1	-	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
13487	10513	+ve	0.000	6.727	0.000	0.012	0.000	43.073
			-	5:COMB1	-	5:COMB1	-	5:COMB1
			0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
	11882	-ve	0.000	5.651	0.000	0.012	0.000	36.889
			-	5:COMB1	-	5:COMB1	-	5:COMB1
			0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
13491	10512	+ve	0.000	49.179	0.000	0.000	0.000	175.058
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-0.077	0.000	0.000
			-	-	-	5:COMB1	-	-
	11911	-ve	0.000	45.952	0.000	0.000	0.000	127.531
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-0.077	0.000	0.000
			-	-	-	5:COMB1	-	-
13495	10511	+ve	0.000	6.675	0.000	0.000	0.000	42.805
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-0.012	0.000	0.000
			-	-	-	5:COMB1	-	-
	11940	-ve	0.000	5.599	0.000	0.000	0.000	36.673
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-0.012	0.000	0.000
			-	-	-	5:COMB1	-	-
13499	10510	+ve	0.000	49.266	0.000	0.358	0.000	175.348
			-	5:COMB1	-	5:COMB1	-	5:COMB1
			0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
	11969	-ve	0.000	46.039	0.000	0.358	0.000	127.733
			-	5:COMB1	-	5:COMB1	-	5:COMB1
			0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
13503	10509	+ve	0.000	7.037	0.000	0.030	0.000	44.061
			-	5:COMB1	-	5:COMB1	-	5:COMB1
			0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
	11998	-ve	0.000	5.962	0.000	0.030	0.000	37.567
			-	5:COMB1	-	5:COMB1	-	5:COMB1
			0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
13507	10508	+ve	0.000	46.562	0.000	0.000	0.000	165.367
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-4.994	0.000	0.000
			-	-	-	5:COMB1	-	-
	12027	-ve	0.000	43.336	0.000	0.000	0.000	120.454
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-4.994	0.000	0.000
			-	-	-	5:COMB1	-	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
13511	10507	+ve	0.000	3.703	0.000	0.071	0.000	27.070
			-	5:COMB1	-	5:COMB1	-	5:COMB1
			0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
	12107	-ve	0.000	2.628	0.000	0.071	0.000	23.907
			-	5:COMB1	-	5:COMB1	-	5:COMB1
			0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
13519	10516	+ve	0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
			0.000	-24.210	0.000	-0.543	0.000	-52.320
			-	5:COMB1	-	5:COMB1	-	5:COMB1
	11525	-ve	0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
			0.000	-25.258	0.000	-0.543	0.000	-28.224
			-	5:COMB1	-	5:COMB1	-	5:COMB1
13525	10514	+ve	0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
			0.000	-26.044	0.000	-0.351	0.000	-61.262
			-	5:COMB1	-	5:COMB1	-	5:COMB1
	11592	-ve	0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
			0.000	-27.091	0.000	-0.351	0.000	-35.412
			-	5:COMB1	-	5:COMB1	-	5:COMB1
13531	10512	+ve	0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
			0.000	-25.981	0.000	-0.357	0.000	-60.871
			-	5:COMB1	-	5:COMB1	-	5:COMB1
	11660	-ve	0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
			0.000	-27.030	0.000	-0.357	0.000	-35.028
			-	5:COMB1	-	5:COMB1	-	5:COMB1
13537	10510	+ve	0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
			0.000	-26.099	0.000	-0.371	0.000	-61.424
			-	5:COMB1	-	5:COMB1	-	5:COMB1
	11728	-ve	0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
			0.000	-27.152	0.000	-0.371	0.000	-35.380
			-	5:COMB1	-	5:COMB1	-	5:COMB1
13543	10508	+ve	0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
			0.000	-23.699	0.000	-0.292	0.000	-50.867
			-	5:COMB1	-	5:COMB1	-	5:COMB1
	12028	-ve	0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
			0.000	-24.810	0.000	-0.292	0.000	-25.827
			-	5:COMB1	-	5:COMB1	-	5:COMB1

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
13546	10507	+ve	0.000	2.301	0.000	0.000	0.000	24.540
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-0.918	0.000	0.000
			-	-	-	5:COMB1	-	-
	12056	-ve	0.000	1.195	0.000	0.000	0.000	22.743
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-0.918	0.000	0.000
			-	-	-	5:COMB1	-	-
13549	10528	+ve	0.000	108.253	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
			0.000	0.000	0.000	-18.496	0.000	-11.471
			-	-	-	5:COMB1	-	5:COMB1
	11796	-ve	0.000	105.105	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
			0.000	0.000	0.000	-18.496	0.000	-115.462
			-	-	-	5:COMB1	-	5:COMB1
13555	10530	+ve	0.000	87.552	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
			0.000	0.000	0.000	-15.711	0.000	-30.757
			-	-	-	5:COMB1	-	5:COMB1
	11854	-ve	0.000	84.410	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
			0.000	0.000	0.000	-15.711	0.000	-114.417
			-	-	-	5:COMB1	-	5:COMB1
13561	10532	+ve	0.000	88.024	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
			0.000	0.000	0.000	-15.523	0.000	-30.201
			-	-	-	5:COMB1	-	5:COMB1
	11912	-ve	0.000	84.875	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
			0.000	0.000	0.000	-15.523	0.000	-114.490
			-	-	-	5:COMB1	-	5:COMB1
13567	10534	+ve	0.000	89.670	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
			0.000	0.000	0.000	-15.923	0.000	-30.435
			-	-	-	5:COMB1	-	5:COMB1
	11970	-ve	0.000	86.511	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
			0.000	0.000	0.000	-15.923	0.000	-116.604
			-	-	-	5:COMB1	-	5:COMB1
13576	10506	+ve	0.000	51.943	0.000	0.000	0.000	63.903
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-16.207	0.000	0.000
			-	-	-	5:COMB1	-	-
	12193	-ve	0.000	49.013	0.000	0.000	0.000	18.109
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-16.207	0.000	0.000
			-	-	-	5:COMB1	-	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
13579	10505	+ve	0.000	10.874	0.000	0.000	0.000	10.711
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-0.231	0.000	0.000
			-	-	-	5:COMB1	-	-
	12213	-ve	0.000	9.897	0.000	0.000	0.000	1.289
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-0.231	0.000	0.000
			-	-	-	5:COMB1	-	-
13584	10505	+ve	0.000	0.000	0.000	1.220	0.000	7.110
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-2.167	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
	12218	-ve	0.000	0.000	0.000	1.220	0.000	9.983
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-3.298	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
13588	10528	+ve	0.000	0.000	0.000	0.991	0.000	0.000
			-	-	-	5:COMB1	-	-
			0.000	-144.982	0.000	0.000	0.000	-185.835
			-	5:COMB1	-	-	-	5:COMB1
	12282	-ve	0.000	0.000	0.000	0.991	0.000	0.000
			-	-	-	5:COMB1	-	-
			0.000	-148.776	0.000	0.000	0.000	-13.282
			-	5:COMB1	-	-	-	5:COMB1
13589	10530	+ve	0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
			0.000	-165.781	0.000	-0.098	0.000	-212.279
			-	5:COMB1	-	5:COMB1	-	5:COMB1
	12328	-ve	0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
			0.000	-169.574	0.000	-0.098	0.000	-15.291
			-	5:COMB1	-	5:COMB1	-	5:COMB1
13591	10532	+ve	0.000	0.000	0.000	0.071	0.000	0.000
			-	-	-	5:COMB1	-	-
			0.000	-165.026	0.000	0.000	0.000	-211.277
			-	5:COMB1	-	-	-	5:COMB1
	12374	-ve	0.000	0.000	0.000	0.071	0.000	0.000
			-	-	-	5:COMB1	-	-
			0.000	-168.820	0.000	0.000	0.000	-15.176
			-	5:COMB1	-	-	-	5:COMB1
13593	10534	+ve	0.000	0.000	0.000	0.118	0.000	0.000
			-	-	-	5:COMB1	-	-
			0.000	-165.292	0.000	0.000	0.000	-211.621
			-	5:COMB1	-	-	-	5:COMB1
	12420	-ve	0.000	0.000	0.000	0.118	0.000	0.000
			-	-	-	5:COMB1	-	-
			0.000	-169.086	0.000	0.000	0.000	-15.207
			-	5:COMB1	-	-	-	5:COMB1

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
13595	10422	+ve	0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
			0.000	-153.032	0.000	-0.860	0.000	-196.005
			-	5:COMB1	-	5:COMB1	-	5:COMB1
	12466	-ve	0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
			0.000	-156.828	0.000	-0.860	0.000	-13.854
			-	5:COMB1	-	5:COMB1	-	5:COMB1
13599	10529	+ve	0.000	0.000	0.000	0.006	0.000	0.000
			-	-	-	5:COMB1	-	-
			0.000	-13.619	0.000	0.000	0.000	-34.801
			-	5:COMB1	-	-	-	5:COMB1
	12305	-ve	0.000	0.000	0.000	0.006	0.000	0.000
			-	-	-	5:COMB1	-	-
			0.000	-14.884	0.000	0.000	0.000	-18.059
			-	5:COMB1	-	-	-	5:COMB1
13600	10531	+ve	0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
			0.000	-12.895	0.000	-0.012	0.000	-34.852
			-	5:COMB1	-	5:COMB1	-	5:COMB1
	12351	-ve	0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
			0.000	-14.159	0.000	-0.012	0.000	-18.960
			-	5:COMB1	-	5:COMB1	-	5:COMB1
13602	10533	+ve	0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
			0.000	-13.379	0.000	-0.003	0.000	-34.956
			-	5:COMB1	-	5:COMB1	-	5:COMB1
	12397	-ve	0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
			0.000	-14.643	0.000	-0.003	0.000	-18.496
			-	5:COMB1	-	5:COMB1	-	5:COMB1
13604	10535	+ve	0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
			0.000	-13.406	0.000	-0.016	0.000	-35.300
			-	5:COMB1	-	5:COMB1	-	5:COMB1
	12443	-ve	0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
			0.000	-14.671	0.000	-0.016	0.000	-18.808
			-	5:COMB1	-	5:COMB1	-	5:COMB1
13617	10449	+ve	0.000	67.011	0.000	9.563	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
			0.000	0.000	0.000	0.000	0.000	-20.254
			-	-	-	-	-	5:COMB1
	12329	-ve	0.000	63.869	0.000	9.563	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
			0.000	0.000	0.000	0.000	0.000	-83.926
			-	-	-	-	-	5:COMB1

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
13623	10439	+ve	0.000	58.296	0.000	7.654	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
			0.000	0.000	0.000	0.000	0.000	-22.548
			-	-	-	-	-	5:COMB1
	12375	-ve	0.000	55.148	0.000	7.654	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
			0.000	0.000	0.000	0.000	0.000	-77.852
			-	-	-	-	-	5:COMB1
13629	10521	+ve	0.000	60.577	0.000	8.036	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
			0.000	0.000	0.000	0.000	0.000	-22.606
			-	-	-	-	-	5:COMB1
	12421	-ve	0.000	57.418	0.000	8.036	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
			0.000	0.000	0.000	0.000	0.000	-80.318
			-	-	-	-	-	5:COMB1
13636	10428	+ve	0.000	0.000	0.000	1.313	0.000	0.000
			-	-	-	5:COMB1	-	-
			0.000	-11.328	0.000	0.000	0.000	-19.132
			-	5:COMB1	-	-	-	5:COMB1
	12518	-ve	0.000	0.000	0.000	1.313	0.000	0.000
			-	-	-	5:COMB1	-	-
			0.000	-12.453	0.000	0.000	0.000	-6.703
			-	5:COMB1	-	-	-	5:COMB1
13650	10574	+ve	0.000	3.543	0.000	0.000	0.000	3.415
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-1.573	0.000	0.000
			-	-	-	5:COMB1	-	-
	12557	-ve	0.000	0.000	0.000	0.000	0.000	1.472
			-	-	-	-	-	5:COMB1
			0.000	-0.041	0.000	-1.573	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
13652	10451	+ve	0.000	0.000	0.000	1.360	0.000	0.000
			-	-	-	5:COMB1	-	-
			0.000	-12.512	0.000	0.000	0.000	-5.416
			-	5:COMB1	-	-	-	5:COMB1
	13290	-ve	0.000	0.000	0.000	1.360	0.000	8.018
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-13.619	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
13653	10459	+ve	0.000	0.000	0.000	0.575	0.000	0.000
			-	-	-	5:COMB1	-	-
			0.000	-10.587	0.000	0.000	0.000	-8.814
			-	5:COMB1	-	-	-	5:COMB1
	13307	-ve	0.000	0.000	0.000	0.575	0.000	1.714
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-11.608	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
13659	10557	+ve	0.000	19.864	0.000	0.000	0.000	3.357
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-3.281	0.000	0.000
			-	-	-	5:COMB1	-	-
	12628	-ve	0.000	18.708	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
			0.000	0.000	0.000	-3.281	0.000	-17.341
			-	-	-	5:COMB1	-	5:COMB1
13662	10524	+ve	0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
			0.000	-10.042	0.000	-0.118	0.000	-14.150
			-	5:COMB1	-	5:COMB1	-	5:COMB1
	13519	-ve	0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
			0.000	-11.062	0.000	-0.118	0.000	-4.155
			-	5:COMB1	-	5:COMB1	-	5:COMB1
13665	10523	+ve	0.000	0.000	0.000	1.023	0.000	0.000
			-	-	-	5:COMB1	-	-
			0.000	-16.839	0.000	0.000	0.000	-25.053
			-	5:COMB1	-	-	-	5:COMB1
	13473	-ve	0.000	0.000	0.000	1.023	0.000	0.000
			-	-	-	5:COMB1	-	-
			0.000	-17.859	0.000	0.000	0.000	-8.619
			-	5:COMB1	-	-	-	5:COMB1
13668	10522	+ve	0.000	0.000	0.000	0.608	0.000	0.000
			-	-	-	5:COMB1	-	-
			0.000	-14.566	0.000	0.000	0.000	-19.360
			-	5:COMB1	-	-	-	5:COMB1
	13427	-ve	0.000	0.000	0.000	0.608	0.000	0.000
			-	-	-	5:COMB1	-	-
			0.000	-15.585	0.000	0.000	0.000	-5.080
			-	5:COMB1	-	-	-	5:COMB1
13671	10520	+ve	0.000	0.000	0.000	0.460	0.000	0.000
			-	-	-	5:COMB1	-	-
			0.000	-15.259	0.000	0.000	0.000	-20.556
			-	5:COMB1	-	-	-	5:COMB1
	13408	-ve	0.000	0.000	0.000	0.460	0.000	0.000
			-	-	-	5:COMB1	-	-
			0.000	-16.278	0.000	0.000	0.000	-5.621
			-	5:COMB1	-	-	-	5:COMB1
13678	10545	+ve	0.000	0.000	0.000	0.000	0.000	7.528
			-	-	-	-	-	5:COMB1
			0.000	-1.593	0.000	-1.041	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
	13455	-ve	0.000	0.000	0.000	0.000	0.000	9.334
			-	-	-	-	-	5:COMB1
			0.000	-2.535	0.000	-1.041	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
13681	10542	+ve	0.000	0.000	0.000	0.000	0.000	4.369
			-	-	-	-	-	5:COMB1
			0.000	-2.199	0.000	-0.880	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
	13409	-ve	0.000	0.000	0.000	0.000	0.000	6.670
			-	-	-	-	-	5:COMB1
			0.000	-3.129	0.000	-0.880	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
13684	10539	+ve	0.000	0.000	0.000	0.000	0.000	4.793
			-	-	-	-	-	5:COMB1
			0.000	-3.557	0.000	-0.430	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
	13524	-ve	0.000	0.000	0.000	0.000	0.000	8.258
			-	-	-	-	-	5:COMB1
			0.000	-4.485	0.000	-0.430	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
13687	10449	+ve	0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
			0.000	-37.677	0.000	-8.542	0.000	-63.993
			-	5:COMB1	-	5:COMB1	-	5:COMB1
	13496	-ve	0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
			0.000	-40.764	0.000	-8.542	0.000	-26.491
			-	5:COMB1	-	5:COMB1	-	5:COMB1
13691	10558	+ve	0.000	0.000	0.000	1.573	0.000	0.000
			-	-	-	5:COMB1	-	-
			0.000	-18.300	0.000	0.000	0.000	-35.898
			-	5:COMB1	-	-	-	5:COMB1
	13478	-ve	0.000	0.000	0.000	1.573	0.000	0.000
			-	-	-	5:COMB1	-	-
			0.000	-19.441	0.000	0.000	0.000	-15.892
			-	5:COMB1	-	-	-	5:COMB1
13698	10564	+ve	0.000	0.000	0.000	0.032	0.000	0.000
			-	-	-	5:COMB1	-	-
			0.000	-14.407	0.000	0.000	0.000	-31.896
			-	5:COMB1	-	-	-	5:COMB1
	13383	-ve	0.000	0.000	0.000	0.032	0.000	0.000
			-	-	-	5:COMB1	-	-
			0.000	-15.574	0.000	0.000	0.000	-15.639
			-	5:COMB1	-	-	-	5:COMB1
13701	10439	+ve	0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
			0.000	-23.669	0.000	-0.724	0.000	-30.220
			-	5:COMB1	-	5:COMB1	-	5:COMB1
	13450	-ve	0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
			0.000	-26.767	0.000	-0.724	0.000	-6.025
			-	5:COMB1	-	5:COMB1	-	5:COMB1

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
13704	10521	+ve	0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
			0.000	-26.130	0.000	-1.589	0.000	-37.085
			-	5:COMB1	-	5:COMB1	-	5:COMB1
	13403	-ve	0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
			0.000	-29.232	0.000	-1.589	0.000	-10.496
			-	5:COMB1	-	5:COMB1	-	5:COMB1
13705	10431	+ve	0.000	0.000	0.000	9.823	0.000	0.000
			-	-	-	5:COMB1	-	-
			0.000	-19.115	0.000	0.000	0.000	-26.892
			-	5:COMB1	-	-	-	5:COMB1
	13546	-ve	0.000	0.000	0.000	9.823	0.000	0.000
			-	-	-	5:COMB1	-	-
			0.000	-22.221	0.000	0.000	0.000	-7.014
			-	5:COMB1	-	-	-	5:COMB1
13724	10477	+ve	0.000	1.183	0.000	1.982	0.000	0.562
			-	5:COMB1	-	5:COMB1	-	5:COMB1
			0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
	12920	-ve	0.000	0.000	0.000	1.982	0.000	1.189
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-2.335	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
13725	10618	+ve	0.000	1.703	0.000	0.318	0.000	0.236
			-	5:COMB1	-	5:COMB1	-	5:COMB1
			0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
	12903	-ve	0.000	0.000	0.000	0.318	0.000	0.299
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-1.817	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
13726	10477	+ve	0.000	2.247	0.000	0.648	0.000	1.126
			-	5:COMB1	-	5:COMB1	-	5:COMB1
			0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
	12906	-ve	0.000	0.000	0.000	0.648	0.000	0.622
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-1.340	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
13727	10480	+ve	0.000	1.241	0.000	1.217	0.000	1.539
			-	5:COMB1	-	5:COMB1	-	5:COMB1
			0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
	12958	-ve	0.000	0.041	0.000	1.217	0.000	0.825
			-	5:COMB1	-	5:COMB1	-	5:COMB1
			0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
13729	10578	+ve	0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
			0.000	-14.421	0.000	-6.921	0.000	-16.691
			-	5:COMB1	-	5:COMB1	-	5:COMB1
	12847	-ve	0.000	0.000	0.000	0.000	0.000	1.333
			-	-	-	-	-	5:COMB1
			0.000	-18.010	0.000	-6.921	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
13731	10480	+ve	0.000	9.607	0.000	0.000	0.000	9.226
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-1.073	0.000	0.000
			-	-	-	5:COMB1	-	-
	12966	-ve	0.000	6.407	0.000	0.000	0.000	1.291
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-1.073	0.000	0.000
			-	-	-	5:COMB1	-	-
13754	10468	+ve	0.000	0.000	0.000	0.000	0.000	33.511
			-	-	-	-	-	5:COMB1
			0.000	-4.370	0.000	-3.929	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
	12674	-ve	0.000	0.000	0.000	0.000	0.000	39.531
			-	-	-	-	-	5:COMB1
			0.000	-6.587	0.000	-3.929	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
13758	10437	+ve	0.000	0.000	0.000	3.973	0.000	0.000
			-	-	-	5:COMB1	-	-
			0.000	-20.058	0.000	0.000	0.000	-41.295
			-	5:COMB1	-	-	-	5:COMB1
	12700	-ve	0.000	0.000	0.000	3.973	0.000	0.000
			-	-	-	5:COMB1	-	-
			0.000	-21.221	0.000	0.000	0.000	-18.989
			-	5:COMB1	-	-	-	5:COMB1
13760	10580	+ve	0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
			0.000	-18.643	0.000	-4.470	0.000	-34.334
			-	5:COMB1	-	5:COMB1	-	5:COMB1
	12760	-ve	0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
			0.000	-19.804	0.000	-4.470	0.000	-13.600
			-	5:COMB1	-	5:COMB1	-	5:COMB1
13762	10581	+ve	0.000	0.000	0.000	4.683	0.000	0.000
			-	-	-	5:COMB1	-	-
			0.000	-17.958	0.000	0.000	0.000	-32.906
			-	5:COMB1	-	-	-	5:COMB1
	12790	-ve	0.000	0.000	0.000	4.683	0.000	0.000
			-	-	-	5:COMB1	-	-
			0.000	-19.119	0.000	0.000	0.000	-12.911
			-	5:COMB1	-	-	-	5:COMB1

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
13764	10467	+ve	0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
			0.000	-18.857	0.000	-3.771	0.000	-39.568
			-	5:COMB1	-	5:COMB1	-	5:COMB1
	12670	-ve	0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
			0.000	-20.018	0.000	-3.771	0.000	-18.604
			-	5:COMB1	-	5:COMB1	-	5:COMB1
13769	10579	+ve	0.000	0.000	0.000	20.578	0.000	0.000
			-	-	-	5:COMB1	-	-
			0.000	-43.179	0.000	0.000	0.000	-183.347
			-	5:COMB1	-	-	-	5:COMB1
	12761	-ve	0.000	0.000	0.000	20.578	0.000	0.000
			-	-	-	5:COMB1	-	-
			0.000	-46.963	0.000	0.000	0.000	-130.530
			-	5:COMB1	-	-	-	5:COMB1
13776	10634	+ve	0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
			0.000	-17.935	0.000	-3.097	0.000	-67.274
			-	5:COMB1	-	5:COMB1	-	5:COMB1
	12734	-ve	0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
			0.000	-20.300	0.000	-3.097	0.000	-44.872
			-	5:COMB1	-	5:COMB1	-	5:COMB1
13787	10580	+ve	0.000	0.000	0.000	6.660	0.000	81.593
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-16.021	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
	12791	-ve	0.000	0.000	0.000	6.660	0.000	101.195
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-19.577	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
13792	10445	+ve	0.000	0.000	0.000	2.714	0.000	0.000
			-	-	-	5:COMB1	-	-
			0.000	-71.035	0.000	0.000	0.000	-79.274
			-	5:COMB1	-	-	-	5:COMB1
	13351	-ve	0.000	0.000	0.000	2.714	0.000	0.000
			-	-	-	5:COMB1	-	-
			0.000	-73.754	0.000	0.000	0.000	-18.326
			-	5:COMB1	-	-	-	5:COMB1
13803	10467	+ve	0.000	0.000	0.000	2.025	0.000	120.779
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-15.708	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
	12701	-ve	0.000	0.000	0.000	2.025	0.000	138.877
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-19.069	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
13806	10560	+ve	0.000	4.529	0.000	1.407	0.000	3.852
			-	5:COMB1	-	5:COMB1	-	5:COMB1
			0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
	13047	-ve	0.000	1.046	0.000	1.407	0.000	0.845
			-	5:COMB1	-	5:COMB1	-	5:COMB1
			0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
13812	10576	+ve	0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
			0.000	-11.732	0.000	-1.174	0.000	-18.906
			-	5:COMB1	-	5:COMB1	-	5:COMB1
	13049	-ve	0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
			0.000	-12.887	0.000	-1.174	0.000	-5.692
			-	5:COMB1	-	5:COMB1	-	5:COMB1
13813	10475	+ve	0.000	1.790	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
			0.000	0.000	0.000	-11.476	0.000	-6.053
			-	-	-	5:COMB1	-	5:COMB1
	13071	-ve	0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
			0.000	-1.692	0.000	-11.476	0.000	-6.106
			-	5:COMB1	-	5:COMB1	-	5:COMB1
13832	10502	+ve	0.000	0.524	0.000	0.494	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
			0.000	0.000	0.000	0.000	0.000	-1.785
			-	-	-	-	-	5:COMB1
	13146	-ve	0.000	0.000	0.000	0.494	0.000	0.000
			-	-	-	5:COMB1	-	-
			0.000	-2.236	0.000	0.000	0.000	-0.614
			-	5:COMB1	-	-	-	5:COMB1
13840	10539	+ve	0.000	8.374	0.000	0.000	0.000	18.329
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-0.166	0.000	0.000
			-	-	-	5:COMB1	-	-
	13742	-ve	0.000	7.557	0.000	0.000	0.000	12.284
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-0.166	0.000	0.000
			-	-	-	5:COMB1	-	-
13845	10434	+ve	0.000	0.000	0.000	3.165	0.000	0.000
			-	-	-	5:COMB1	-	-
			0.000	-7.476	0.000	0.000	0.000	-22.891
			-	5:COMB1	-	-	-	5:COMB1
	13819	-ve	0.000	0.000	0.000	3.165	0.000	0.000
			-	-	-	5:COMB1	-	-
			0.000	-8.793	0.000	0.000	0.000	-12.935
			-	5:COMB1	-	-	-	5:COMB1

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
13866	10445	+ve	0.000	0.000	0.000	0.916	0.000	0.000
			-	-	-	5:COMB1	-	-
			0.000	-18.437	0.000	0.000	0.000	-22.183
			-	5:COMB1	-	-	-	5:COMB1
	13356	-ve	0.000	0.000	0.000	0.916	0.000	0.000
			-	-	-	5:COMB1	-	-
			0.000	-19.487	0.000	0.000	0.000	-3.685
			-	5:COMB1	-	-	-	5:COMB1
13868	10546	+ve	0.000	6.331	0.000	2.836	0.000	4.578
			-	5:COMB1	-	5:COMB1	-	5:COMB1
			0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
	10442	-ve	0.000	5.322	0.000	2.836	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
			0.000	0.000	0.000	0.000	0.000	-0.885
			-	-	-	-	-	5:COMB1
13872	10545	+ve	0.000	5.702	0.000	0.704	0.000	22.983
			-	5:COMB1	-	5:COMB1	-	5:COMB1
			0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
	13563	-ve	0.000	4.569	0.000	0.704	0.000	17.580
			-	5:COMB1	-	5:COMB1	-	5:COMB1
			0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
13877	10563	+ve	0.000	0.589	0.000	0.884	0.000	18.356
			-	5:COMB1	-	5:COMB1	-	5:COMB1
			0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
	13864	-ve	0.000	0.000	0.000	0.884	0.000	18.510
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-0.823	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
13884	10563	+ve	0.000	0.000	0.000	0.000	0.000	23.143
			-	-	-	-	-	5:COMB1
			0.000	-3.582	0.000	-1.423	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
	13245	-ve	0.000	0.000	0.000	0.000	0.000	27.079
			-	-	-	-	-	5:COMB1
			0.000	-4.616	0.000	-1.423	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
13887	10553	+ve	0.000	0.000	0.000	2.071	0.000	0.000
			-	-	-	5:COMB1	-	-
			0.000	-20.459	0.000	0.000	0.000	-41.481
			-	5:COMB1	-	-	-	5:COMB1
	13227	-ve	0.000	0.000	0.000	2.071	0.000	0.000
			-	-	-	5:COMB1	-	-
			0.000	-21.554	0.000	0.000	0.000	-20.117
			-	5:COMB1	-	-	-	5:COMB1

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
13889	10553	+ve	0.000	19.837	0.000	0.831	0.000	120.450
			-	5:COMB1	-	5:COMB1	-	5:COMB1
			0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
	13877	-ve	0.000	15.295	0.000	0.831	0.000	95.743
			-	5:COMB1	-	5:COMB1	-	5:COMB1
			0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
13891	10543	+ve	0.000	5.059	0.000	0.583	0.000	11.655
			-	5:COMB1	-	5:COMB1	-	5:COMB1
			0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
	13209	-ve	0.000	4.036	0.000	0.583	0.000	7.332
			-	5:COMB1	-	5:COMB1	-	5:COMB1
			0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
13894	10543	+ve	0.000	2.438	0.000	0.000	0.000	18.842
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-1.851	0.000	0.000
			-	-	-	5:COMB1	-	-
	13892	-ve	0.000	0.785	0.000	0.000	0.000	16.368
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-1.851	0.000	0.000
			-	-	-	5:COMB1	-	-
13908	10562	+ve	0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
			0.000	-6.605	0.000	-1.535	0.000	-3.093
			-	5:COMB1	-	5:COMB1	-	5:COMB1
	13188	-ve	0.000	0.000	0.000	0.000	0.000	5.354
			-	-	-	-	-	5:COMB1
			0.000	-7.862	0.000	-1.535	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
13909	10562	+ve	0.000	10.696	0.000	2.998	0.000	27.473
			-	5:COMB1	-	5:COMB1	-	5:COMB1
			0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
	13907	-ve	0.000	8.901	0.000	2.998	0.000	11.134
			-	5:COMB1	-	5:COMB1	-	5:COMB1
			0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
13918	10560	+ve	0.000	0.000	0.000	3.859	0.000	0.000
			-	-	-	5:COMB1	-	-
			0.000	-10.446	0.000	0.000	0.000	-26.633
			-	5:COMB1	-	-	-	5:COMB1
	13050	-ve	0.000	0.000	0.000	3.859	0.000	0.000
			-	-	-	5:COMB1	-	-
			0.000	-14.441	0.000	0.000	0.000	-11.242
			-	5:COMB1	-	-	-	5:COMB1

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
13923	10544	+ve	0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
			0.000	-19.595	0.000	-0.180	0.000	-36.781
			-	5:COMB1	-	5:COMB1	-	5:COMB1
	13205	-ve	0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
			0.000	-20.880	0.000	-0.180	0.000	-12.609
			-	5:COMB1	-	5:COMB1	-	5:COMB1
13934	10541	+ve	0.000	0.000	0.000	2.101	0.000	0.000
			-	-	-	5:COMB1	-	-
			0.000	-17.289	0.000	0.000	0.000	-32.693
			-	5:COMB1	-	-	-	5:COMB1
	13259	-ve	0.000	0.000	0.000	2.101	0.000	0.000
			-	-	-	5:COMB1	-	-
			0.000	-18.801	0.000	0.000	0.000	-7.351
			-	5:COMB1	-	-	-	5:COMB1
13940	10466	+ve	0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
			0.000	-16.756	0.000	-1.116	0.000	-35.289
			-	5:COMB1	-	5:COMB1	-	5:COMB1
	13241	-ve	0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
			0.000	-18.193	0.000	-1.116	0.000	-11.950
			-	5:COMB1	-	5:COMB1	-	5:COMB1
13946	10466	+ve	0.000	0.000	0.000	0.000	0.000	33.992
			-	-	-	-	-	5:COMB1
			0.000	-26.735	0.000	-17.406	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
	13260	-ve	0.000	0.000	0.000	0.000	0.000	61.228
			-	-	-	-	-	5:COMB1
			0.000	-29.843	0.000	-17.406	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
13949	10542	+ve	0.000	8.851	0.000	0.663	0.000	16.774
			-	5:COMB1	-	5:COMB1	-	5:COMB1
			0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
	13566	-ve	0.000	7.944	0.000	0.663	0.000	9.702
			-	5:COMB1	-	5:COMB1	-	5:COMB1
			0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
13951	10549	+ve	0.000	0.000	0.000	0.752	0.000	0.000
			-	-	-	5:COMB1	-	-
			0.000	-16.746	0.000	0.000	0.000	-35.587
			-	5:COMB1	-	-	-	5:COMB1
	13432	-ve	0.000	0.000	0.000	0.752	0.000	0.000
			-	-	-	5:COMB1	-	-
			0.000	-17.905	0.000	0.000	0.000	-16.931
			-	5:COMB1	-	-	-	5:COMB1

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
13962	10551	+ve	0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
			0.000	-54.849	0.000	-9.644	0.000	-121.599
			-	5:COMB1	-	5:COMB1	-	5:COMB1
	13223	-ve	0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
			0.000	-58.953	0.000	-9.644	0.000	-49.292
			-	5:COMB1	-	5:COMB1	-	5:COMB1
13964	10479	+ve	0.000	0.000	0.000	0.000	0.000	2.082
			-	-	-	-	-	5:COMB1
			0.000	-1.404	0.000	-0.382	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
	12922	-ve	0.000	0.000	0.000	0.000	0.000	4.464
			-	-	-	-	-	5:COMB1
			0.000	-3.404	0.000	-0.382	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
13965	11297	+ve	0.000	1.057	0.000	0.000	0.000	0.290
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-0.207	0.000	0.000
			-	-	-	5:COMB1	-	-
	11458	-ve	0.000	0.034	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
			0.000	0.000	0.000	-0.207	0.000	-0.229
			-	-	-	5:COMB1	-	5:COMB1
13966	11298	+ve	0.000	1.004	0.000	0.571	0.000	0.225
			-	5:COMB1	-	5:COMB1	-	5:COMB1
			0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
	11456	-ve	0.000	0.000	0.000	0.571	0.000	0.000
			-	-	-	5:COMB1	-	-
			0.000	-0.020	0.000	0.000	0.000	-0.243
			-	5:COMB1	-	-	-	5:COMB1
13968	10478	+ve	0.000	0.000	0.000	13.045	0.000	0.000
			-	-	-	5:COMB1	-	-
			0.000	-33.812	0.000	0.000	0.000	-62.898
			-	5:COMB1	-	-	-	5:COMB1
	12880	-ve	0.000	0.000	0.000	13.045	0.000	0.000
			-	-	-	5:COMB1	-	-
			0.000	-37.007	0.000	0.000	0.000	-27.865
			-	5:COMB1	-	-	-	5:COMB1
13969	10419	+ve	0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
			0.000	-15.231	0.000	-2.474	0.000	-22.123
			-	5:COMB1	-	5:COMB1	-	5:COMB1
	11420	-ve	0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
			0.000	-16.596	0.000	-2.474	0.000	-1.944
			-	5:COMB1	-	5:COMB1	-	5:COMB1

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
13978	11305	+ve	0.000	3.596	0.000	9.943	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
			0.000	0.000	0.000	0.000	0.000	-0.316
			-	-	-	-	-	5:COMB1
	11312	-ve	0.000	0.000	0.000	9.943	0.000	0.000
			-	-	-	5:COMB1	-	-
			0.000	-0.123	0.000	0.000	0.000	-2.316
			-	5:COMB1	-	-	-	5:COMB1
13983	10500	+ve	0.000	2.307	0.000	0.000	0.000	0.897
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-0.011	0.000	0.000
			-	-	-	5:COMB1	-	-
	12214	-ve	0.000	0.000	0.000	0.000	0.000	0.253
			-	-	-	-	-	5:COMB1
			0.000	-1.080	0.000	-0.011	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
13996	11304	+ve	0.000	0.298	0.000	0.200	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
			0.000	0.000	0.000	0.000	0.000	-0.138
			-	-	-	-	-	5:COMB1
	12172	-ve	0.000	0.000	0.000	0.200	0.000	0.034
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-0.678	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
13997	11303	+ve	0.000	1.810	0.000	1.737	0.000	0.415
			-	5:COMB1	-	5:COMB1	-	5:COMB1
			0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
	12165	-ve	0.000	0.000	0.000	1.737	0.000	0.360
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-1.710	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
14000	11304	+ve	0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
			0.000	-5.377	0.000	-0.444	0.000	-3.705
			-	5:COMB1	-	5:COMB1	-	5:COMB1
	11461	-ve	0.000	0.000	0.000	0.000	0.000	2.795
			-	-	-	-	-	5:COMB1
			0.000	-6.550	0.000	-0.444	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
14001	11312	+ve	0.000	3.939	0.000	0.000	0.000	2.970
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-3.859	0.000	0.000
			-	-	-	5:COMB1	-	-
	12175	-ve	0.000	0.000	0.000	0.000	0.000	0.567
			-	-	-	-	-	5:COMB1
			0.000	-0.013	0.000	-3.859	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
14002	11306	+ve	0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
			0.000	-0.065	0.000	-0.645	0.000	-0.474
			-	5:COMB1	-	5:COMB1	-	5:COMB1
	12164	-ve	0.000	0.000	0.000	0.000	0.000	0.028
			-	-	-	-	-	5:COMB1
			0.000	-1.042	0.000	-0.645	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
14006	11306	+ve	0.000	0.000	0.000	0.007	0.000	0.000
			-	-	-	5:COMB1	-	-
			0.000	-5.808	0.000	0.000	0.000	-9.362
			-	5:COMB1	-	-	-	5:COMB1
	11441	-ve	0.000	0.000	0.000	0.007	0.000	0.000
			-	-	-	5:COMB1	-	-
			0.000	-7.099	0.000	0.000	0.000	-1.618
			-	5:COMB1	-	-	-	5:COMB1
14008	10424	+ve	0.000	0.000	0.000	0.586	0.000	0.000
			-	-	-	5:COMB1	-	-
			0.000	-16.142	0.000	0.000	0.000	-21.450
			-	5:COMB1	-	-	-	5:COMB1
	12152	-ve	0.000	0.000	0.000	0.586	0.000	0.000
			-	-	-	5:COMB1	-	-
			0.000	-19.619	0.000	0.000	0.000	-2.202
			-	5:COMB1	-	-	-	5:COMB1
14010	11420	+ve	0.000	0.000	0.000	0.000	0.000	0.691
			-	-	-	-	-	5:COMB1
			0.000	-5.989	0.000	-0.666	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
	12130	-ve	0.000	0.000	0.000	0.000	0.000	7.762
			-	-	-	-	-	5:COMB1
			0.000	-7.148	0.000	-0.666	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
14019	11309	+ve	0.000	0.000	0.000	0.402	0.000	0.000
			-	-	-	5:COMB1	-	-
			0.000	-13.611	0.000	0.000	0.000	-7.536
			-	5:COMB1	-	-	-	5:COMB1
	12879	-ve	0.000	0.000	0.000	0.402	0.000	8.274
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-14.809	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
14035	11309	+ve	0.000	7.767	0.000	0.059	0.000	48.092
			-	5:COMB1	-	5:COMB1	-	5:COMB1
			0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
	13007	-ve	0.000	4.573	0.000	0.059	0.000	41.988
			-	5:COMB1	-	5:COMB1	-	5:COMB1
			0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
14038	11312	+ve	0.000	0.000	0.000	0.749	0.000	0.000
			-	-	-	5:COMB1	-	-
			0.000	-6.398	0.000	0.000	0.000	-14.671
			-	5:COMB1	-	-	-	5:COMB1
	13633	-ve	0.000	0.000	0.000	0.749	0.000	0.000
			-	-	-	5:COMB1	-	-
			0.000	-7.451	0.000	0.000	0.000	-7.895
			-	5:COMB1	-	-	-	5:COMB1
14043	10419	+ve	0.000	0.701	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
			0.000	0.000	0.000	-3.919	0.000	-0.829
			-	-	-	5:COMB1	-	5:COMB1
	12243	-ve	0.000	0.000	0.000	0.000	0.000	0.087
			-	-	-	-	-	5:COMB1
			0.000	-2.531	0.000	-3.919	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
14045	10424	+ve	0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
			0.000	-7.647	0.000	-0.822	0.000	-6.366
			-	5:COMB1	-	5:COMB1	-	5:COMB1
	13635	-ve	0.000	0.000	0.000	0.000	0.000	3.455
			-	-	-	-	-	5:COMB1
			0.000	-11.041	0.000	-0.822	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
14050	10478	+ve	0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
			0.000	-23.791	0.000	-0.296	0.000	-24.889
			-	5:COMB1	-	5:COMB1	-	5:COMB1
	12851	-ve	0.000	0.000	0.000	0.000	0.000	3.580
			-	-	-	-	-	5:COMB1
			0.000	-27.384	0.000	-0.296	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
14058	10517	+ve	0.000	0.000	0.000	1.010	0.000	14.852
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-0.814	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
	11494	-ve	0.000	0.000	0.000	1.010	0.000	16.203
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-1.890	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
14060	11415	+ve	0.000	0.000	0.000	0.426	0.000	0.000
			-	-	-	5:COMB1	-	-
			0.000	-12.134	0.000	0.000	0.000	-24.829
			-	5:COMB1	-	-	-	5:COMB1
	12271	-ve	0.000	0.000	0.000	0.426	0.000	0.000
			-	-	-	5:COMB1	-	-
			0.000	-13.398	0.000	0.000	0.000	-9.831
			-	5:COMB1	-	-	-	5:COMB1

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
14062	10456	+ve	0.000	3.784	0.000	4.319	0.000	0.498
			-	5:COMB1	-	5:COMB1	-	5:COMB1
			0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
	12613	-ve	0.000	1.815	0.000	4.319	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
			0.000	0.000	0.000	0.000	0.000	-2.233
			-	-	-	-	-	5:COMB1
14063	10643	+ve	0.000	31.141	0.000	0.000	0.000	39.799
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-7.232	0.000	0.000
			-	-	-	5:COMB1	-	-
	13104	-ve	0.000	28.039	0.000	0.000	0.000	11.375
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-7.232	0.000	0.000
			-	-	-	5:COMB1	-	-
14065	10497	+ve	0.000	0.000	0.000	1.835	0.000	0.000
			-	-	-	5:COMB1	-	-
			0.000	-3.145	0.000	0.000	0.000	-0.436
			-	5:COMB1	-	-	-	5:COMB1
	12532	-ve	0.000	0.000	0.000	1.835	0.000	4.299
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-5.385	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
14067	10497	+ve	0.000	0.000	0.000	0.824	0.000	1.985
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-0.672	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
	12530	-ve	0.000	0.000	0.000	0.824	0.000	3.508
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-2.569	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
14077	10456	+ve	0.000	1.581	0.000	0.000	0.000	8.396
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-3.146	0.000	0.000
			-	-	-	5:COMB1	-	-
	12558	-ve	0.000	0.000	0.000	0.000	0.000	8.337
			-	-	-	-	-	5:COMB1
			0.000	-1.454	0.000	-3.146	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
14082	10460	+ve	0.000	0.000	0.000	4.642	0.000	0.000
			-	-	-	5:COMB1	-	-
			0.000	-2.172	0.000	0.000	0.000	-19.993
			-	5:COMB1	-	-	-	5:COMB1
	12562	-ve	0.000	0.000	0.000	4.642	0.000	0.000
			-	-	-	5:COMB1	-	-
			0.000	-4.342	0.000	0.000	0.000	-16.492
			-	5:COMB1	-	-	-	5:COMB1

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
14091	10574	+ve	0.000	0.170	0.000	0.353	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
			0.000	0.000	0.000	0.000	0.000	-1.441
			-	-	-	-	-	5:COMB1
	12591	-ve	0.000	0.000	0.000	0.353	0.000	0.242
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-3.301	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
14093	10557	+ve	0.000	0.000	0.000	1.803	0.000	0.000
			-	-	-	5:COMB1	-	-
			0.000	-16.833	0.000	0.000	0.000	-23.780
			-	5:COMB1	-	-	-	5:COMB1
	12617	-ve	0.000	0.000	0.000	1.803	0.000	0.000
			-	-	-	5:COMB1	-	-
			0.000	-20.547	0.000	0.000	0.000	-2.285
			-	5:COMB1	-	-	-	5:COMB1
14112	10452	+ve	0.000	0.000	0.000	17.005	0.000	0.000
			-	-	-	5:COMB1	-	-
			0.000	-21.763	0.000	0.000	0.000	-85.354
			-	5:COMB1	-	-	-	5:COMB1
	13291	-ve	0.000	0.000	0.000	17.005	0.000	0.000
			-	-	-	5:COMB1	-	-
			0.000	-25.010	0.000	0.000	0.000	-61.844
			-	5:COMB1	-	-	-	5:COMB1
14119	10418	+ve	0.000	0.000	0.000	0.000	0.000	1.433
			-	-	-	-	-	5:COMB1
			0.000	-13.772	0.000	-0.474	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
	11421	-ve	0.000	0.000	0.000	0.000	0.000	19.132
			-	-	-	-	-	5:COMB1
			0.000	-15.092	0.000	-0.474	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
14120	10634	+ve	0.000	5.141	0.000	0.000	0.000	7.926
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-1.404	0.000	0.000
			-	-	-	5:COMB1	-	-
	12710	-ve	0.000	1.658	0.000	0.000	0.000	4.259
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-1.404	0.000	0.000
			-	-	-	5:COMB1	-	-
14122	10579	+ve	0.000	25.296	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
			0.000	0.000	0.000	-14.931	0.000	-10.303
			-	-	-	5:COMB1	-	5:COMB1
	10471	-ve	0.000	20.288	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
			0.000	0.000	0.000	-14.931	0.000	-45.646
			-	-	-	5:COMB1	-	5:COMB1

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
14152	10618	+ve	0.000	0.602	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
			0.000	0.000	0.000	-0.100	0.000	-1.081
			-	-	-	5:COMB1	-	5:COMB1
	12907	-ve	0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
			0.000	-2.467	0.000	-0.100	0.000	-0.195
			-	5:COMB1	-	5:COMB1	-	5:COMB1
14153	11412	+ve	0.000	0.000	0.000	0.733	0.000	0.000
			-	-	-	5:COMB1	-	-
			0.000	-3.975	0.000	0.000	0.000	-7.142
			-	5:COMB1	-	-	-	5:COMB1
	12504	-ve	0.000	0.000	0.000	0.733	0.000	0.000
			-	-	-	5:COMB1	-	-
			0.000	-7.371	0.000	0.000	0.000	-1.174
			-	5:COMB1	-	-	-	5:COMB1
14154	10422	+ve	0.000	49.811	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
			0.000	0.000	0.000	-6.301	0.000	-25.992
			-	-	-	5:COMB1	-	5:COMB1
	12084	-ve	0.000	46.478	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
			0.000	0.000	0.000	-6.301	0.000	-75.687
			-	-	-	5:COMB1	-	5:COMB1
14155	11413	+ve	0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
			0.000	-13.638	0.000	-0.417	0.000	-28.467
			-	5:COMB1	-	5:COMB1	-	5:COMB1
	12485	-ve	0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
			0.000	-14.837	0.000	-0.417	0.000	-12.612
			-	5:COMB1	-	5:COMB1	-	5:COMB1
14156	11413	+ve	0.000	22.536	0.000	15.427	0.000	71.268
			-	5:COMB1	-	5:COMB1	-	5:COMB1
			0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
	12194	-ve	0.000	19.218	0.000	15.427	0.000	49.815
			-	5:COMB1	-	5:COMB1	-	5:COMB1
			0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
14158	11414	+ve	0.000	0.000	0.000	0.000	0.000	0.967
			-	-	-	-	-	5:COMB1
			0.000	-20.885	0.000	-3.504	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
	11477	-ve	0.000	0.000	0.000	0.000	0.000	29.007
			-	-	-	-	-	5:COMB1
			0.000	-24.845	0.000	-3.504	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
14160	11415	+ve	0.000	36.475	0.000	3.091	0.000	49.881
			-	5:COMB1	-	5:COMB1	-	5:COMB1
			0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
	11511	-ve	0.000	32.304	0.000	3.091	0.000	5.461
			-	5:COMB1	-	5:COMB1	-	5:COMB1
			0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
14161	10431	+ve	0.000	30.263	0.000	0.679	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
			0.000	0.000	0.000	0.000	0.000	-22.817
			-	-	-	-	-	5:COMB1
	12467	-ve	0.000	26.926	0.000	0.679	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
			0.000	0.000	0.000	0.000	0.000	-52.372
			-	-	-	-	-	5:COMB1
14164	11417	+ve	0.000	16.336	0.000	0.000	0.000	9.536
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-5.493	0.000	0.000
			-	-	-	5:COMB1	-	-
	10548	-ve	0.000	11.513	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
			0.000	0.000	0.000	-5.493	0.000	-11.262
			-	-	-	5:COMB1	-	5:COMB1
14165	11417	+ve	0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
			0.000	-7.420	0.000	-3.125	0.000	-25.561
			-	5:COMB1	-	5:COMB1	-	5:COMB1
	12519	-ve	0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
			0.000	-10.605	0.000	-3.125	0.000	-16.671
			-	5:COMB1	-	5:COMB1	-	5:COMB1
14166	11418	+ve	0.000	3.288	0.000	0.000	0.000	32.902
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-1.263	0.000	0.000
			-	-	-	5:COMB1	-	-
	12486	-ve	0.000	0.000	0.000	0.000	0.000	31.243
			-	-	-	-	-	5:COMB1
			0.000	-0.308	0.000	-1.263	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
14167	11418	+ve	0.000	0.000	0.000	1.363	0.000	0.000
			-	-	-	5:COMB1	-	-
			0.000	-5.243	0.000	0.000	0.000	-0.210
			-	5:COMB1	-	-	-	5:COMB1
	13693	-ve	0.000	0.000	0.000	1.363	0.000	5.506
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-6.308	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
14169	11419	+ve	0.000	0.000	0.000	0.000	0.000	0.715
			-	-	-	-	-	5:COMB1
			0.000	-6.845	0.000	-1.113	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
	12146	-ve	0.000	0.000	0.000	0.000	0.000	7.711
			-	-	-	-	-	5:COMB1
			0.000	-7.869	0.000	-1.113	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
14171	11420	+ve	0.000	0.000	0.000	0.870	0.000	0.000
			-	-	-	5:COMB1	-	-
			0.000	-0.451	0.000	0.000	0.000	-4.301
			-	5:COMB1	-	-	-	5:COMB1
	12161	-ve	0.000	0.000	0.000	0.870	0.000	0.000
			-	-	-	5:COMB1	-	-
			0.000	-1.428	0.000	0.000	0.000	-3.449
			-	5:COMB1	-	-	-	5:COMB1
14205	11421	+ve	0.000	0.000	0.000	0.000	0.000	21.079
			-	-	-	-	-	5:COMB1
			0.000	-5.510	0.000	-0.670	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
	11424	-ve	0.000	0.000	0.000	0.000	0.000	28.645
			-	-	-	-	-	5:COMB1
			0.000	-6.830	0.000	-0.670	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
14208	11424	+ve	0.000	1.519	0.000	0.000	0.000	28.329
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-0.443	0.000	0.000
			-	-	-	5:COMB1	-	-
	10517	-ve	0.000	0.199	0.000	0.000	0.000	27.275
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-0.443	0.000	0.000
			-	-	-	5:COMB1	-	-
14210	11426	+ve	0.000	6.123	0.000	0.000	0.000	20.159
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-0.510	0.000	0.000
			-	-	-	5:COMB1	-	-
	10517	-ve	0.000	5.100	0.000	0.000	0.000	14.823
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-0.510	0.000	0.000
			-	-	-	5:COMB1	-	-
14215	11430	+ve	0.000	4.162	0.000	0.000	0.000	24.404
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-0.617	0.000	0.000
			-	-	-	5:COMB1	-	-
	11426	-ve	0.000	3.139	0.000	0.000	0.000	20.932
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-0.617	0.000	0.000
			-	-	-	5:COMB1	-	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
14220	11434	+ve	0.000	0.000	0.000	0.000	0.000	21.511
			-	-	-	-	-	5:COMB1
			0.000	-2.558	0.000	-0.731	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
	11430	-ve	0.000	0.000	0.000	0.000	0.000	24.430
			-	-	-	-	-	5:COMB1
			0.000	-3.581	0.000	-0.731	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
14225	11438	+ve	0.000	0.000	0.000	0.000	0.000	10.605
			-	-	-	-	-	5:COMB1
			0.000	-9.622	0.000	-0.525	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
	11434	-ve	0.000	0.000	0.000	0.000	0.000	20.241
			-	-	-	-	-	5:COMB1
			0.000	-10.645	0.000	-0.525	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
14232	11441	+ve	0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
			0.000	-0.861	0.000	-0.044	0.000	-0.369
			-	5:COMB1	-	5:COMB1	-	5:COMB1
	11444	-ve	0.000	0.000	0.000	0.000	0.000	1.439
			-	-	-	-	-	5:COMB1
			0.000	-2.153	0.000	-0.044	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
14233	11443	+ve	0.000	0.000	0.000	0.000	0.000	0.072
			-	-	-	-	-	5:COMB1
			0.000	-0.064	0.000	-0.611	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
	11306	-ve	0.000	0.000	0.000	0.000	0.000	0.620
			-	-	-	-	-	5:COMB1
			0.000	-1.088	0.000	-0.611	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
14235	11444	+ve	0.000	4.257	0.000	0.075	0.000	0.562
			-	5:COMB1	-	5:COMB1	-	5:COMB1
			0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
	11304	-ve	0.000	2.965	0.000	0.075	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
			0.000	0.000	0.000	0.000	0.000	-3.771
			-	-	-	-	-	5:COMB1
14237	11446	+ve	0.000	0.209	0.000	0.199	0.000	0.001
			-	5:COMB1	-	5:COMB1	-	5:COMB1
			0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
	11304	-ve	0.000	0.000	0.000	0.199	0.000	0.290
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-0.815	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
14239	11448	+ve	0.000	0.502	0.000	0.000	0.000	0.076
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-0.309	0.000	0.000
			-	-	-	5:COMB1	-	-
	11443	-ve	0.000	0.000	0.000	0.000	0.000	0.085
			-	-	-	-	-	5:COMB1
			0.000	-0.522	0.000	-0.309	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
14242	11450	+ve	0.000	0.429	0.000	0.080	0.000	0.081
			-	5:COMB1	-	5:COMB1	-	5:COMB1
			0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
	11446	-ve	0.000	0.000	0.000	0.080	0.000	0.159
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-0.594	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
14244	11452	+ve	0.000	0.417	0.000	0.176	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
			0.000	0.000	0.000	0.000	0.000	-0.003
			-	-	-	-	-	5:COMB1
	11448	-ve	0.000	0.000	0.000	0.176	0.000	0.087
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-0.607	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
14247	11454	+ve	0.000	0.454	0.000	0.000	0.000	0.027
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-0.071	0.000	0.000
			-	-	-	5:COMB1	-	-
	11450	-ve	0.000	0.000	0.000	0.000	0.000	0.082
			-	-	-	-	-	5:COMB1
			0.000	-0.569	0.000	-0.071	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
14249	11456	+ve	0.000	0.765	0.000	0.737	0.000	0.404
			-	5:COMB1	-	5:COMB1	-	5:COMB1
			0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
	11452	-ve	0.000	0.000	0.000	0.737	0.000	0.163
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-0.259	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
14252	11458	+ve	0.000	0.781	0.000	0.000	0.000	0.389
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-0.248	0.000	0.000
			-	-	-	5:COMB1	-	-
	11454	-ve	0.000	0.000	0.000	0.000	0.000	0.133
			-	-	-	-	-	5:COMB1
			0.000	-0.243	0.000	-0.248	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
14259	11461	+ve	0.000	0.000	0.000	0.000	0.000	3.870
			-	-	-	-	-	5:COMB1
			0.000	-1.046	0.000	-0.166	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
	11463	-ve	0.000	0.000	0.000	0.000	0.000	5.650
			-	-	-	-	-	5:COMB1
			0.000	-2.219	0.000	-0.166	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
14261	11463	+ve	0.000	4.669	0.000	0.172	0.000	5.025
			-	5:COMB1	-	5:COMB1	-	5:COMB1
			0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
	11301	-ve	0.000	3.496	0.000	0.172	0.000	0.575
			-	5:COMB1	-	5:COMB1	-	5:COMB1
			0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
14282	11477	+ve	0.000	0.000	0.000	0.000	0.000	30.909
			-	-	-	-	-	5:COMB1
			0.000	-11.569	0.000	-6.109	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
	11480	-ve	0.000	0.000	0.000	0.000	0.000	47.524
			-	-	-	-	-	5:COMB1
			0.000	-15.529	0.000	-6.109	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
14285	11480	+ve	0.000	0.000	0.000	0.000	0.000	47.146
			-	-	-	-	-	5:COMB1
			0.000	-0.675	0.000	-5.535	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
	11415	-ve	0.000	0.000	0.000	0.000	0.000	50.402
			-	-	-	-	-	5:COMB1
			0.000	-4.635	0.000	-5.535	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
14287	11482	+ve	0.000	18.885	0.000	0.430	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
			0.000	0.000	0.000	0.000	0.000	-13.880
			-	-	-	-	-	5:COMB1
	11415	-ve	0.000	17.810	0.000	0.430	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
			0.000	0.000	0.000	0.000	0.000	-32.213
			-	-	-	-	-	5:COMB1
14292	11486	+ve	0.000	16.195	0.000	0.950	0.000	4.416
			-	5:COMB1	-	5:COMB1	-	5:COMB1
			0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
	11482	-ve	0.000	15.120	0.000	0.950	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
			0.000	0.000	0.000	0.000	0.000	-11.229
			-	-	-	-	-	5:COMB1

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
14297	11490	+ve	0.000	8.831	0.000	1.182	0.000	14.202
			-	5:COMB1	-	5:COMB1	-	5:COMB1
			0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
	11486	-ve	0.000	7.755	0.000	1.182	0.000	5.916
			-	5:COMB1	-	5:COMB1	-	5:COMB1
			0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
14302	11494	+ve	0.000	1.954	0.000	1.123	0.000	16.415
			-	5:COMB1	-	5:COMB1	-	5:COMB1
			0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
	11490	-ve	0.000	0.878	0.000	1.123	0.000	15.000
			-	5:COMB1	-	5:COMB1	-	5:COMB1
			0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
14307	11495	+ve	0.000	17.646	0.000	0.154	0.000	11.970
			-	5:COMB1	-	5:COMB1	-	5:COMB1
			0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
	11497	-ve	0.000	16.254	0.000	0.154	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
			0.000	0.000	0.000	0.000	0.000	-9.947
			-	-	-	-	-	5:COMB1
14309	11497	+ve	0.000	22.054	0.000	0.169	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
			0.000	0.000	0.000	0.000	0.000	-13.812
			-	-	-	-	-	5:COMB1
	10516	-ve	0.000	20.663	0.000	0.169	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
			0.000	0.000	0.000	0.000	0.000	-41.429
			-	-	-	-	-	5:COMB1
14311	11499	+ve	0.000	0.000	0.000	0.000	0.000	148.510
			-	-	-	-	-	5:COMB1
			0.000	-7.239	0.000	-2.389	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
	10516	-ve	0.000	0.000	0.000	0.000	0.000	156.854
			-	-	-	-	-	5:COMB1
			0.000	-10.310	0.000	-2.389	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
14315	11502	+ve	0.000	0.000	0.000	0.000	0.000	129.484
			-	-	-	-	-	5:COMB1
			0.000	-17.642	0.000	-3.580	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
	11499	-ve	0.000	0.000	0.000	0.000	0.000	147.720
			-	-	-	-	-	5:COMB1
			0.000	-20.713	0.000	-3.580	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
14319	11505	+ve	0.000	0.000	0.000	0.000	0.000	98.284
			-	-	-	-	-	5:COMB1
			0.000	-30.506	0.000	-4.636	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
	11502	-ve	0.000	0.000	0.000	0.000	0.000	128.755
			-	-	-	-	-	5:COMB1
			0.000	-33.577	0.000	-4.636	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
14323	11508	+ve	0.000	0.000	0.000	0.000	0.000	53.447
			-	-	-	-	-	5:COMB1
			0.000	-44.626	0.000	-5.018	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
	11505	-ve	0.000	0.000	0.000	0.000	0.000	97.342
			-	-	-	-	-	5:COMB1
			0.000	-47.696	0.000	-5.018	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
14330	11511	+ve	0.000	46.950	0.000	4.841	0.000	4.508
			-	5:COMB1	-	5:COMB1	-	5:COMB1
			0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
	11513	-ve	0.000	42.780	0.000	4.841	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
			0.000	0.000	0.000	0.000	0.000	-53.441
			-	-	-	-	-	5:COMB1
14332	11513	+ve	0.000	0.000	0.000	4.334	0.000	0.000
			-	-	-	5:COMB1	-	-
			0.000	-22.814	0.000	0.000	0.000	-53.287
			-	5:COMB1	-	-	-	5:COMB1
	10528	-ve	0.000	0.000	0.000	4.334	0.000	0.000
			-	-	-	5:COMB1	-	-
			0.000	-26.985	0.000	0.000	0.000	-21.124
			-	5:COMB1	-	-	-	5:COMB1
14334	11515	+ve	0.000	76.512	0.000	12.812	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
			0.000	0.000	0.000	0.000	0.000	-89.604
			-	-	-	-	-	5:COMB1
	10528	-ve	0.000	73.286	0.000	12.812	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
			0.000	0.000	0.000	0.000	0.000	-164.443
			-	-	-	-	-	5:COMB1
14338	11518	+ve	0.000	77.533	0.000	13.389	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
			0.000	0.000	0.000	0.000	0.000	-9.661
			-	-	-	-	-	5:COMB1
	11515	-ve	0.000	74.307	0.000	13.389	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
			0.000	0.000	0.000	0.000	0.000	-85.520
			-	-	-	-	-	5:COMB1

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
14342	11521	+ve	0.000	66.607	0.000	12.459	0.000	57.631
			-	5:COMB1	-	5:COMB1	-	5:COMB1
			0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
	11518	-ve	0.000	63.381	0.000	12.459	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
			0.000	0.000	0.000	0.000	0.000	-7.311
			-	-	-	-	-	5:COMB1
14346	11524	+ve	0.000	54.226	0.000	10.973	0.000	112.018
			-	5:COMB1	-	5:COMB1	-	5:COMB1
			0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
	11521	-ve	0.000	50.999	0.000	10.973	0.000	59.447
			-	5:COMB1	-	5:COMB1	-	5:COMB1
			0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
14351	11525	+ve	0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
			0.000	-23.118	0.000	-0.302	0.000	-24.773
			-	5:COMB1	-	5:COMB1	-	5:COMB1
	11527	-ve	0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
			0.000	-24.167	0.000	-0.302	0.000	-1.743
			-	5:COMB1	-	5:COMB1	-	5:COMB1
14353	11527	+ve	0.000	0.000	0.000	0.000	0.000	0.369
			-	-	-	-	-	5:COMB1
			0.000	-15.327	0.000	-0.085	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
	11529	-ve	0.000	0.000	0.000	0.000	0.000	15.812
			-	-	-	-	-	5:COMB1
			0.000	-16.376	0.000	-0.085	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
14355	11529	+ve	0.000	0.000	0.000	0.145	0.000	17.086
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-7.021	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
	11531	-ve	0.000	0.000	0.000	0.145	0.000	24.437
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-8.070	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
14357	11531	+ve	0.000	0.041	0.000	0.243	0.000	24.898
			-	5:COMB1	-	5:COMB1	-	5:COMB1
			0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
	11533	-ve	0.000	0.000	0.000	0.243	0.000	25.369
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-1.007	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
14359	11533	+ve	0.000	2.665	0.000	0.337	0.000	24.915
			-	5:COMB1	-	5:COMB1	-	5:COMB1
			0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
	10515	-ve	0.000	1.616	0.000	0.337	0.000	22.830
			-	5:COMB1	-	5:COMB1	-	5:COMB1
			0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
14361	11535	+ve	0.000	4.056	0.000	0.020	0.000	48.908
			-	5:COMB1	-	5:COMB1	-	5:COMB1
			0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
	10515	-ve	0.000	3.033	0.000	0.020	0.000	45.537
			-	5:COMB1	-	5:COMB1	-	5:COMB1
			0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
14368	11541	+ve	0.000	0.666	0.000	0.070	0.000	49.445
			-	5:COMB1	-	5:COMB1	-	5:COMB1
			0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
	11535	-ve	0.000	0.000	0.000	0.070	0.000	49.299
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-0.358	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
14375	11547	+ve	0.000	0.000	0.000	0.099	0.000	42.044
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-6.802	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
	11541	-ve	0.000	0.000	0.000	0.099	0.000	49.000
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-7.826	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
14394	11558	+ve	0.000	2.221	0.000	0.000	0.000	24.221
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-0.214	0.000	0.000
			-	-	-	5:COMB1	-	-
	11560	-ve	0.000	1.172	0.000	0.000	0.000	22.568
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-0.214	0.000	0.000
			-	-	-	5:COMB1	-	-
14396	11560	+ve	0.000	9.438	0.000	0.000	0.000	21.980
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-0.142	0.000	0.000
			-	-	-	5:COMB1	-	-
	11562	-ve	0.000	8.389	0.000	0.000	0.000	13.293
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-0.142	0.000	0.000
			-	-	-	5:COMB1	-	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
14398	11562	+ve	0.000	17.925	0.000	0.040	0.000	11.885
			-	5:COMB1	-	5:COMB1	-	5:COMB1
			0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
	11564	-ve	0.000	16.876	0.000	0.040	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
			0.000	0.000	0.000	0.000	0.000	-5.072
			-	-	-	-	-	5:COMB1
14400	11564	+ve	0.000	25.913	0.000	0.187	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
			0.000	0.000	0.000	0.000	0.000	-7.319
			-	-	-	-	-	5:COMB1
	11566	-ve	0.000	24.865	0.000	0.187	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
			0.000	0.000	0.000	0.000	0.000	-32.060
			-	-	-	-	-	5:COMB1
14402	11566	+ve	0.000	27.181	0.000	0.370	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
			0.000	0.000	0.000	0.000	0.000	-35.673
			-	-	-	-	-	5:COMB1
	10514	-ve	0.000	26.132	0.000	0.370	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
			0.000	0.000	0.000	0.000	0.000	-61.650
			-	-	-	-	-	5:COMB1
14404	11568	+ve	0.000	0.000	0.000	0.093	0.000	166.315
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-9.588	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
	10514	-ve	0.000	0.000	0.000	0.093	0.000	176.891
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-12.658	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
14411	11574	+ve	0.000	0.000	0.000	0.139	0.000	144.299
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-20.866	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
	11568	-ve	0.000	0.000	0.000	0.139	0.000	165.600
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-23.937	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
14418	11580	+ve	0.000	0.000	0.000	0.171	0.000	109.149
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-34.734	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
	11574	-ve	0.000	0.000	0.000	0.171	0.000	143.641
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-37.804	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
14425	11586	+ve	0.000	0.000	0.000	0.176	0.000	59.275
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-49.812	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
	11580	-ve	0.000	0.000	0.000	0.176	0.000	108.102
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-52.883	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
14438	11592	+ve	0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
			0.000	-24.763	0.000	-0.174	0.000	-31.823
			-	5:COMB1	-	5:COMB1	-	5:COMB1
	11594	-ve	0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
			0.000	-25.811	0.000	-0.174	0.000	-7.219
			-	5:COMB1	-	5:COMB1	-	5:COMB1
14440	11594	+ve	0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
			0.000	-16.786	0.000	-0.031	0.000	-4.988
			-	5:COMB1	-	5:COMB1	-	5:COMB1
	11596	-ve	0.000	0.000	0.000	0.000	0.000	11.854
			-	-	-	-	-	5:COMB1
			0.000	-17.833	0.000	-0.031	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
14442	11596	+ve	0.000	0.000	0.000	0.148	0.000	13.247
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-8.295	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
	11598	-ve	0.000	0.000	0.000	0.148	0.000	21.828
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-9.342	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
14444	11598	+ve	0.000	0.000	0.000	0.221	0.000	22.400
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-1.065	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
	11600	-ve	0.000	0.000	0.000	0.221	0.000	23.946
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-2.112	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
14446	11600	+ve	0.000	1.751	0.000	0.307	0.000	23.610
			-	5:COMB1	-	5:COMB1	-	5:COMB1
			0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
	10513	-ve	0.000	0.703	0.000	0.307	0.000	22.416
			-	5:COMB1	-	5:COMB1	-	5:COMB1
			0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
14448	11602	+ve	0.000	4.238	0.000	0.000	0.000	47.653
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-0.007	0.000	0.000
			-	-	-	5:COMB1	-	-
	10513	-ve	0.000	3.214	0.000	0.000	0.000	44.110
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-0.007	0.000	0.000
			-	-	-	5:COMB1	-	-
14455	11608	+ve	0.000	0.917	0.000	0.000	0.000	48.462
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-0.018	0.000	0.000
			-	-	-	5:COMB1	-	-
	11602	-ve	0.000	0.000	0.000	0.000	0.000	48.077
			-	-	-	-	-	5:COMB1
			0.000	-0.107	0.000	-0.018	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
14462	11614	+ve	0.000	0.000	0.000	0.000	0.000	41.353
			-	-	-	-	-	5:COMB1
			0.000	-6.526	0.000	-0.026	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
	11608	-ve	0.000	0.000	0.000	0.000	0.000	48.046
			-	-	-	-	-	5:COMB1
			0.000	-7.550	0.000	-0.026	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
14469	11620	+ve	0.000	0.000	0.000	0.000	0.000	25.042
			-	-	-	-	-	5:COMB1
			0.000	-15.372	0.000	-0.034	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
	11614	-ve	0.000	0.000	0.000	0.000	0.000	40.145
			-	-	-	-	-	5:COMB1
			0.000	-16.395	0.000	-0.034	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
14482	11626	+ve	0.000	1.966	0.000	0.000	0.000	24.117
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-0.227	0.000	0.000
			-	-	-	5:COMB1	-	-
	11628	-ve	0.000	0.914	0.000	0.000	0.000	22.711
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-0.227	0.000	0.000
			-	-	-	5:COMB1	-	-
14484	11628	+ve	0.000	9.225	0.000	0.000	0.000	22.154
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-0.151	0.000	0.000
			-	-	-	5:COMB1	-	-
	11630	-ve	0.000	8.174	0.000	0.000	0.000	13.655
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-0.151	0.000	0.000
			-	-	-	5:COMB1	-	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
14486	11630	+ve	0.000	17.743	0.000	0.034	0.000	12.271
			-	5:COMB1	-	5:COMB1	-	5:COMB1
			0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
	11632	-ve	0.000	16.692	0.000	0.034	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
			0.000	0.000	0.000	0.000	0.000	-4.551
			-	-	-	-	-	5:COMB1
14488	11632	+ve	0.000	25.760	0.000	0.182	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
			0.000	0.000	0.000	0.000	0.000	-6.779
			-	-	-	-	-	5:COMB1
	11634	-ve	0.000	24.708	0.000	0.182	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
			0.000	0.000	0.000	0.000	0.000	-31.433
			-	-	-	-	-	5:COMB1
14490	11634	+ve	0.000	27.057	0.000	0.362	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
			0.000	0.000	0.000	0.000	0.000	-35.033
			-	-	-	-	-	5:COMB1
	10512	-ve	0.000	26.006	0.000	0.362	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
			0.000	0.000	0.000	0.000	0.000	-60.954
			-	-	-	-	-	5:COMB1
14492	11636	+ve	0.000	0.000	0.000	0.015	0.000	165.781
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-9.513	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
	10512	-ve	0.000	0.000	0.000	0.015	0.000	176.287
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-12.583	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
14499	11642	+ve	0.000	0.000	0.000	0.026	0.000	143.874
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-20.753	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
	11636	-ve	0.000	0.000	0.000	0.026	0.000	165.069
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-23.824	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
14506	11648	+ve	0.000	0.000	0.000	0.036	0.000	108.854
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-34.599	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
	11642	-ve	0.000	0.000	0.000	0.036	0.000	143.217
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-37.670	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
14513	11654	+ve	0.000	0.000	0.000	0.039	0.000	59.123
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-49.666	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
	11648	-ve	0.000	0.000	0.000	0.039	0.000	107.811
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-52.737	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
14526	11660	+ve	0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
			0.000	-24.695	0.000	-0.178	0.000	-31.439
			-	5:COMB1	-	5:COMB1	-	5:COMB1
	11662	-ve	0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
			0.000	-25.745	0.000	-0.178	0.000	-6.850
			-	5:COMB1	-	5:COMB1	-	5:COMB1
14528	11662	+ve	0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
			0.000	-16.703	0.000	-0.032	0.000	-4.624
			-	5:COMB1	-	5:COMB1	-	5:COMB1
	11664	-ve	0.000	0.000	0.000	0.000	0.000	12.173
			-	-	-	-	-	5:COMB1
			0.000	-17.753	0.000	-0.032	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
14530	11664	+ve	0.000	0.000	0.000	0.151	0.000	13.557
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-8.200	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
	11666	-ve	0.000	0.000	0.000	0.151	0.000	22.063
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-9.250	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
14532	11666	+ve	0.000	0.000	0.000	0.226	0.000	22.623
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-0.955	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
	11668	-ve	0.000	0.000	0.000	0.226	0.000	24.066
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-2.004	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
14534	11668	+ve	0.000	1.865	0.000	0.311	0.000	23.712
			-	5:COMB1	-	5:COMB1	-	5:COMB1
			0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
	10511	-ve	0.000	0.816	0.000	0.311	0.000	22.405
			-	5:COMB1	-	5:COMB1	-	5:COMB1
			0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
14536	11670	+ve	0.000	4.266	0.000	0.008	0.000	47.409
			-	5:COMB1	-	5:COMB1	-	5:COMB1
			0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
	10511	-ve	0.000	3.243	0.000	0.008	0.000	43.839
			-	5:COMB1	-	5:COMB1	-	5:COMB1
			0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
14543	11676	+ve	0.000	0.957	0.000	0.019	0.000	48.264
			-	5:COMB1	-	5:COMB1	-	5:COMB1
			0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
	11670	-ve	0.000	0.000	0.000	0.019	0.000	47.841
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-0.067	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
14550	11682	+ve	0.000	0.000	0.000	0.029	0.000	41.209
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-6.476	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
	11676	-ve	0.000	0.000	0.000	0.029	0.000	47.855
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-7.500	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
14557	11688	+ve	0.000	0.000	0.000	0.037	0.000	24.965
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-15.309	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
	11682	-ve	0.000	0.000	0.000	0.037	0.000	40.009
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-16.332	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
14570	11694	+ve	0.000	2.151	0.000	0.000	0.000	23.889
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-0.220	0.000	0.000
			-	-	-	5:COMB1	-	-
	11696	-ve	0.000	1.106	0.000	0.000	0.000	22.309
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-0.220	0.000	0.000
			-	-	-	5:COMB1	-	-
14572	11696	+ve	0.000	9.359	0.000	0.000	0.000	21.733
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-0.148	0.000	0.000
			-	-	-	5:COMB1	-	-
	11698	-ve	0.000	8.315	0.000	0.000	0.000	13.158
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-0.148	0.000	0.000
			-	-	-	5:COMB1	-	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
14574	11698	+ve	0.000	17.824	0.000	0.030	0.000	11.766
			-	5:COMB1	-	5:COMB1	-	5:COMB1
			0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
	11700	-ve	0.000	16.780	0.000	0.030	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
			0.000	0.000	0.000	0.000	0.000	-5.022
			-	-	-	-	-	5:COMB1
14576	11700	+ve	0.000	25.766	0.000	0.171	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
			0.000	0.000	0.000	0.000	0.000	-7.248
			-	-	-	-	-	5:COMB1
	11702	-ve	0.000	24.722	0.000	0.171	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
			0.000	0.000	0.000	0.000	0.000	-31.744
			-	-	-	-	-	5:COMB1
14578	11702	+ve	0.000	27.029	0.000	0.349	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
			0.000	0.000	0.000	0.000	0.000	-35.317
			-	-	-	-	-	5:COMB1
	10510	-ve	0.000	25.984	0.000	0.349	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
			0.000	0.000	0.000	0.000	0.000	-61.036
			-	-	-	-	-	5:COMB1
14580	11704	+ve	0.000	0.000	0.000	0.000	0.000	166.038
			-	-	-	-	-	5:COMB1
			0.000	-9.549	0.000	-0.073	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
	10510	-ve	0.000	0.000	0.000	0.000	0.000	176.578
			-	-	-	-	-	5:COMB1
			0.000	-12.620	0.000	-0.073	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
14587	11710	+ve	0.000	0.000	0.000	0.000	0.000	144.078
			-	-	-	-	-	5:COMB1
			0.000	-20.809	0.000	-0.126	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
	11704	-ve	0.000	0.000	0.000	0.000	0.000	165.325
			-	-	-	-	-	5:COMB1
			0.000	-23.879	0.000	-0.126	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
14594	11716	+ve	0.000	0.000	0.000	0.000	0.000	108.995
			-	-	-	-	-	5:COMB1
			0.000	-34.664	0.000	-0.167	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
	11710	-ve	0.000	0.000	0.000	0.000	0.000	143.421
			-	-	-	-	-	5:COMB1
			0.000	-37.735	0.000	-0.167	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
14601	11722	+ve	0.000	0.000	0.000	0.000	0.000	59.196
			-	-	-	-	-	5:COMB1
			0.000	-49.735	0.000	-0.183	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
	11716	-ve	0.000	0.000	0.000	0.000	0.000	107.949
			-	-	-	-	-	5:COMB1
			0.000	-52.806	0.000	-0.183	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
14614	11728	+ve	0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
			0.000	-24.803	0.000	-0.188	0.000	-31.759
			-	5:COMB1	-	5:COMB1	-	5:COMB1
	11730	-ve	0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
			0.000	-25.856	0.000	-0.188	0.000	-6.985
			-	5:COMB1	-	5:COMB1	-	5:COMB1
14616	11730	+ve	0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
			0.000	-16.773	0.000	-0.037	0.000	-4.743
			-	5:COMB1	-	5:COMB1	-	5:COMB1
	11732	-ve	0.000	0.000	0.000	0.000	0.000	12.179
			-	-	-	-	-	5:COMB1
			0.000	-17.826	0.000	-0.037	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
14618	11732	+ve	0.000	0.000	0.000	0.149	0.000	13.575
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-8.250	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
	11734	-ve	0.000	0.000	0.000	0.149	0.000	22.160
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-9.303	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
14620	11734	+ve	0.000	0.000	0.000	0.223	0.000	22.729
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-0.996	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
	11736	-ve	0.000	0.000	0.000	0.223	0.000	24.218
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-2.049	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
14622	11736	+ve	0.000	1.800	0.000	0.307	0.000	23.864
			-	5:COMB1	-	5:COMB1	-	5:COMB1
			0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
	10509	-ve	0.000	0.747	0.000	0.307	0.000	22.618
			-	5:COMB1	-	5:COMB1	-	5:COMB1
			0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
14624	11738	+ve	0.000	4.124	0.000	0.000	0.000	48.557
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-0.006	0.000	0.000
			-	-	-	5:COMB1	-	-
	10509	-ve	0.000	3.101	0.000	0.000	0.000	45.122
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-0.006	0.000	0.000
			-	-	-	5:COMB1	-	-
14631	11744	+ve	0.000	0.750	0.000	0.000	0.000	49.181
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-0.029	0.000	0.000
			-	-	-	5:COMB1	-	-
	11738	-ve	0.000	0.000	0.000	0.000	0.000	48.955
			-	-	-	-	-	5:COMB1
			0.000	-0.274	0.000	-0.029	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
14638	11750	+ve	0.000	0.000	0.000	0.000	0.000	41.865
			-	-	-	-	-	5:COMB1
			0.000	-6.719	0.000	-0.041	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
	11744	-ve	0.000	0.000	0.000	0.000	0.000	48.742
			-	-	-	-	-	5:COMB1
			0.000	-7.743	0.000	-0.041	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
14645	11756	+ve	0.000	0.000	0.000	0.000	0.000	25.315
			-	-	-	-	-	5:COMB1
			0.000	-15.597	0.000	-0.050	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
	11750	-ve	0.000	0.000	0.000	0.000	0.000	40.633
			-	-	-	-	-	5:COMB1
			0.000	-16.621	0.000	-0.050	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
14658	11762	+ve	0.000	1.481	0.000	0.000	0.000	24.740
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-0.241	0.000	0.000
			-	-	-	5:COMB1	-	-
	11764	-ve	0.000	0.430	0.000	0.000	0.000	23.807
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-0.241	0.000	0.000
			-	-	-	5:COMB1	-	-
14660	11764	+ve	0.000	8.643	0.000	0.000	0.000	23.297
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-0.154	0.000	0.000
			-	-	-	5:COMB1	-	-
	11766	-ve	0.000	7.592	0.000	0.000	0.000	15.372
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-0.154	0.000	0.000
			-	-	-	5:COMB1	-	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
14662	11766	+ve	0.000	17.056	0.000	0.055	0.000	14.042
			-	5:COMB1	-	5:COMB1	-	5:COMB1
			0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
	11768	-ve	0.000	16.006	0.000	0.055	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
			0.000	0.000	0.000	0.000	0.000	-2.097
			-	-	-	-	-	5:COMB1
14664	11768	+ve	0.000	24.963	0.000	0.241	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
			0.000	0.000	0.000	0.000	0.000	-4.268
			-	-	-	-	-	5:COMB1
	11770	-ve	0.000	23.912	0.000	0.241	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
			0.000	0.000	0.000	0.000	0.000	-28.129
			-	-	-	-	-	5:COMB1
14666	11770	+ve	0.000	26.143	0.000	0.457	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
			0.000	0.000	0.000	0.000	0.000	-31.661
			-	-	-	-	-	5:COMB1
	10508	-ve	0.000	25.093	0.000	0.457	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
			0.000	0.000	0.000	0.000	0.000	-56.672
			-	-	-	-	-	5:COMB1
14668	11772	+ve	0.000	0.000	0.000	1.415	0.000	157.118
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-8.435	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
	10508	-ve	0.000	0.000	0.000	1.415	0.000	166.599
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-11.505	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
14675	11778	+ve	0.000	0.000	0.000	2.059	0.000	136.750
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-19.170	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
	11772	-ve	0.000	0.000	0.000	2.059	0.000	156.439
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-22.241	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
14682	11784	+ve	0.000	0.000	0.000	2.579	0.000	103.695
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-32.548	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
	11778	-ve	0.000	0.000	0.000	2.579	0.000	136.108
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-35.619	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
14689	11790	+ve	0.000	0.000	0.000	2.718	0.000	56.420
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-47.139	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
	11784	-ve	0.000	0.000	0.000	2.718	0.000	102.705
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-50.210	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
14702	11796	+ve	0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
			0.000	-66.451	0.000	-19.396	0.000	-117.358
			-	5:COMB1	-	5:COMB1	-	5:COMB1
	11798	-ve	0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
			0.000	-69.599	0.000	-19.396	0.000	-51.040
			-	5:COMB1	-	5:COMB1	-	5:COMB1
14704	11798	+ve	0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
			0.000	-54.482	0.000	-17.900	0.000	-49.616
			-	5:COMB1	-	5:COMB1	-	5:COMB1
	11800	-ve	0.000	0.000	0.000	0.000	0.000	5.027
			-	-	-	-	-	5:COMB1
			0.000	-57.630	0.000	-17.900	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
14706	11800	+ve	0.000	0.000	0.000	0.000	0.000	6.712
			-	-	-	-	-	5:COMB1
			0.000	-41.646	0.000	-15.568	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
	11802	-ve	0.000	0.000	0.000	0.000	0.000	48.843
			-	-	-	-	-	5:COMB1
			0.000	-44.794	0.000	-15.568	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
14708	11802	+ve	0.000	0.000	0.000	0.000	0.000	50.043
			-	-	-	-	-	5:COMB1
			0.000	-29.607	0.000	-13.075	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
	11804	-ve	0.000	0.000	0.000	0.000	0.000	80.441
			-	-	-	-	-	5:COMB1
			0.000	-32.755	0.000	-13.075	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
14710	11804	+ve	0.000	0.000	0.000	0.000	0.000	81.543
			-	-	-	-	-	5:COMB1
			0.000	-20.497	0.000	-10.399	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
	10529	-ve	0.000	0.000	0.000	0.000	0.000	103.057
			-	-	-	-	-	5:COMB1
			0.000	-23.644	0.000	-10.399	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
14712	11806	+ve	0.000	27.449	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
			0.000	0.000	0.000	-0.066	0.000	-25.852
			-	-	-	5:COMB1	-	5:COMB1
	10529	-ve	0.000	26.374	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
			0.000	0.000	0.000	-0.066	0.000	-52.742
			-	-	-	5:COMB1	-	5:COMB1
14719	11812	+ve	0.000	26.870	0.000	0.000	0.000	4.237
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-0.108	0.000	0.000
			-	-	-	5:COMB1	-	-
	11806	-ve	0.000	25.795	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
			0.000	0.000	0.000	-0.108	0.000	-22.075
			-	-	-	5:COMB1	-	5:COMB1
14726	11818	+ve	0.000	19.112	0.000	0.000	0.000	25.175
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-0.122	0.000	0.000
			-	-	-	5:COMB1	-	-
	11812	-ve	0.000	18.036	0.000	0.000	0.000	6.615
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-0.122	0.000	0.000
			-	-	-	5:COMB1	-	-
14733	11824	+ve	0.000	11.241	0.000	0.000	0.000	37.343
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-0.111	0.000	0.000
			-	-	-	5:COMB1	-	-
	11818	-ve	0.000	10.166	0.000	0.000	0.000	26.648
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-0.111	0.000	0.000
			-	-	-	5:COMB1	-	-
14741	11825	+ve	0.000	33.119	0.000	12.255	0.000	79.920
			-	5:COMB1	-	5:COMB1	-	5:COMB1
			0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
	11827	-ve	0.000	29.973	0.000	12.255	0.000	49.179
			-	5:COMB1	-	5:COMB1	-	5:COMB1
			0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
14743	11827	+ve	0.000	45.040	0.000	14.524	0.000	47.963
			-	5:COMB1	-	5:COMB1	-	5:COMB1
			0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
	11829	-ve	0.000	41.893	0.000	14.524	0.000	5.605
			-	5:COMB1	-	5:COMB1	-	5:COMB1
			0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
14745	11829	+ve	0.000	57.728	0.000	16.534	0.000	3.903
			-	5:COMB1	-	5:COMB1	-	5:COMB1
			0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
	11831	-ve	0.000	54.581	0.000	16.534	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
			0.000	0.000	0.000	0.000	0.000	-50.819
			-	-	-	-	-	5:COMB1
14747	11831	+ve	0.000	69.311	0.000	17.629	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
			0.000	0.000	0.000	0.000	0.000	-52.346
			-	-	-	-	-	5:COMB1
	11833	-ve	0.000	66.164	0.000	17.629	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
			0.000	0.000	0.000	0.000	0.000	-118.356
			-	-	-	-	-	5:COMB1
14749	11833	+ve	0.000	0.000	0.000	16.144	0.000	0.000
			-	-	-	5:COMB1	-	-
			0.000	-86.926	0.000	0.000	0.000	-116.728
			-	5:COMB1	-	-	-	5:COMB1
	10530	-ve	0.000	0.000	0.000	16.144	0.000	0.000
			-	-	-	5:COMB1	-	-
			0.000	-90.072	0.000	0.000	0.000	-30.486
			-	5:COMB1	-	-	-	5:COMB1
14751	11835	+ve	0.000	83.942	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
			0.000	0.000	0.000	-0.409	0.000	-99.740
			-	-	-	5:COMB1	-	5:COMB1
	10530	-ve	0.000	80.715	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
			0.000	0.000	0.000	-0.409	0.000	-182.003
			-	-	-	5:COMB1	-	5:COMB1
14758	11841	+ve	0.000	86.081	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
			0.000	0.000	0.000	-0.439	0.000	-10.601
			-	-	-	5:COMB1	-	5:COMB1
	11835	-ve	0.000	82.855	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
			0.000	0.000	0.000	-0.439	0.000	-95.001
			-	-	-	5:COMB1	-	5:COMB1
14765	11847	+ve	0.000	74.392	0.000	0.000	0.000	64.748
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-0.423	0.000	0.000
			-	-	-	5:COMB1	-	-
	11841	-ve	0.000	71.166	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
			0.000	0.000	0.000	-0.423	0.000	-7.973
			-	-	-	5:COMB1	-	5:COMB1

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
14772	11853	+ve	0.000	61.034	0.000	0.000	0.000	126.065
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-0.386	0.000	0.000
			-	-	-	5:COMB1	-	-
	11847	-ve	0.000	57.808	0.000	0.000	0.000	66.691
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-0.386	0.000	0.000
			-	-	-	5:COMB1	-	-
14780	11854	+ve	0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
			0.000	-65.045	0.000	-17.204	0.000	-116.011
			-	5:COMB1	-	5:COMB1	-	5:COMB1
	11856	-ve	0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
			0.000	-68.187	0.000	-17.204	0.000	-51.193
			-	5:COMB1	-	5:COMB1	-	5:COMB1
14782	11856	+ve	0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
			0.000	-53.573	0.000	-16.118	0.000	-49.691
			-	5:COMB1	-	5:COMB1	-	5:COMB1
	11858	-ve	0.000	0.000	0.000	0.000	0.000	3.963
			-	-	-	-	-	5:COMB1
			0.000	-56.715	0.000	-16.118	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
14784	11858	+ve	0.000	0.000	0.000	0.000	0.000	5.628
			-	-	-	-	-	5:COMB1
			0.000	-40.996	0.000	-14.127	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
	11860	-ve	0.000	0.000	0.000	0.000	0.000	47.045
			-	-	-	-	-	5:COMB1
			0.000	-44.138	0.000	-14.127	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
14786	11860	+ve	0.000	0.000	0.000	0.000	0.000	48.230
			-	-	-	-	-	5:COMB1
			0.000	-29.177	0.000	-11.905	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
	11862	-ve	0.000	0.000	0.000	0.000	0.000	78.148
			-	-	-	-	-	5:COMB1
			0.000	-32.319	0.000	-11.905	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
14788	11862	+ve	0.000	0.000	0.000	0.000	0.000	79.220
			-	-	-	-	-	5:COMB1
			0.000	-20.297	0.000	-9.434	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
	10531	-ve	0.000	0.000	0.000	0.000	0.000	100.497
			-	-	-	-	-	5:COMB1
			0.000	-23.439	0.000	-9.434	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
14790	11864	+ve	0.000	27.058	0.000	0.019	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
			0.000	0.000	0.000	0.000	0.000	-25.091
			-	-	-	-	-	5:COMB1
	10531	-ve	0.000	25.982	0.000	0.019	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
			0.000	0.000	0.000	0.000	0.000	-51.590
			-	-	-	-	-	5:COMB1
14797	11870	+ve	0.000	26.368	0.000	0.024	0.000	4.432
			-	5:COMB1	-	5:COMB1	-	5:COMB1
			0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
	11864	-ve	0.000	25.293	0.000	0.024	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
			0.000	0.000	0.000	0.000	0.000	-21.377
			-	-	-	-	-	5:COMB1
14804	11876	+ve	0.000	18.599	0.000	0.025	0.000	24.803
			-	5:COMB1	-	5:COMB1	-	5:COMB1
			0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
	11870	-ve	0.000	17.524	0.000	0.025	0.000	6.756
			-	5:COMB1	-	5:COMB1	-	5:COMB1
			0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
14811	11882	+ve	0.000	10.741	0.000	0.021	0.000	36.419
			-	5:COMB1	-	5:COMB1	-	5:COMB1
			0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
	11876	-ve	0.000	9.666	0.000	0.021	0.000	26.224
			-	5:COMB1	-	5:COMB1	-	5:COMB1
			0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
14819	11883	+ve	0.000	32.026	0.000	11.874	0.000	78.471
			-	5:COMB1	-	5:COMB1	-	5:COMB1
			0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
	11885	-ve	0.000	28.871	0.000	11.874	0.000	48.723
			-	5:COMB1	-	5:COMB1	-	5:COMB1
			0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
14821	11885	+ve	0.000	43.964	0.000	14.097	0.000	47.547
			-	5:COMB1	-	5:COMB1	-	5:COMB1
			0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
	11887	-ve	0.000	40.809	0.000	14.097	0.000	6.135
			-	5:COMB1	-	5:COMB1	-	5:COMB1
			0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
14823	11887	+ve	0.000	56.663	0.000	16.098	0.000	4.474
			-	5:COMB1	-	5:COMB1	-	5:COMB1
			0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
	11889	-ve	0.000	53.508	0.000	16.098	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
			0.000	0.000	0.000	0.000	0.000	-49.344
			-	-	-	-	-	5:COMB1
14825	11889	+ve	0.000	68.205	0.000	17.220	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
			0.000	0.000	0.000	0.000	0.000	-50.842
			-	-	-	-	-	5:COMB1
	11891	-ve	0.000	65.050	0.000	17.220	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
			0.000	0.000	0.000	0.000	0.000	-115.937
			-	-	-	-	-	5:COMB1
14827	11891	+ve	0.000	0.000	0.000	15.771	0.000	0.000
			-	-	-	5:COMB1	-	-
			0.000	-84.721	0.000	0.000	0.000	-114.340
			-	5:COMB1	-	-	-	5:COMB1
	10532	-ve	0.000	0.000	0.000	15.771	0.000	0.000
			-	-	-	5:COMB1	-	-
			0.000	-87.875	0.000	0.000	0.000	-30.027
			-	5:COMB1	-	-	-	5:COMB1
14829	11893	+ve	0.000	83.730	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
			0.000	0.000	0.000	-0.102	0.000	-99.499
			-	-	-	5:COMB1	-	5:COMB1
	10532	-ve	0.000	80.504	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
			0.000	0.000	0.000	-0.102	0.000	-181.549
			-	-	-	5:COMB1	-	5:COMB1
14836	11899	+ve	0.000	85.848	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
			0.000	0.000	0.000	-0.102	0.000	-10.612
			-	-	-	5:COMB1	-	5:COMB1
	11893	-ve	0.000	82.621	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
			0.000	0.000	0.000	-0.102	0.000	-94.779
			-	-	-	5:COMB1	-	5:COMB1
14843	11905	+ve	0.000	74.176	0.000	0.000	0.000	64.513
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-0.098	0.000	0.000
			-	-	-	5:COMB1	-	-
	11899	-ve	0.000	70.949	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
			0.000	0.000	0.000	-0.098	0.000	-7.991
			-	-	-	5:COMB1	-	5:COMB1

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
14850	11911	+ve	0.000	60.837	0.000	0.000	0.000	125.628
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-0.088	0.000	0.000
			-	-	-	5:COMB1	-	-
	11905	-ve	0.000	57.611	0.000	0.000	0.000	66.452
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-0.088	0.000	0.000
			-	-	-	5:COMB1	-	-
14858	11912	+ve	0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
			0.000	-65.204	0.000	-16.965	0.000	-116.085
			-	5:COMB1	-	5:COMB1	-	5:COMB1
	11914	-ve	0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
			0.000	-68.353	0.000	-16.965	0.000	-50.976
			-	5:COMB1	-	5:COMB1	-	5:COMB1
14860	11914	+ve	0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
			0.000	-53.691	0.000	-15.848	0.000	-49.473
			-	5:COMB1	-	5:COMB1	-	5:COMB1
	11916	-ve	0.000	0.000	0.000	0.000	0.000	4.410
			-	-	-	-	-	5:COMB1
			0.000	-56.839	0.000	-15.848	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
14862	11916	+ve	0.000	0.000	0.000	0.000	0.000	6.078
			-	-	-	-	-	5:COMB1
			0.000	-41.024	0.000	-13.860	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
	11918	-ve	0.000	0.000	0.000	0.000	0.000	47.611
			-	-	-	-	-	5:COMB1
			0.000	-44.173	0.000	-13.860	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
14864	11918	+ve	0.000	0.000	0.000	0.000	0.000	48.797
			-	-	-	-	-	5:COMB1
			0.000	-29.113	0.000	-11.657	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
	11920	-ve	0.000	0.000	0.000	0.000	0.000	78.716
			-	-	-	-	-	5:COMB1
			0.000	-32.261	0.000	-11.657	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
14866	11920	+ve	0.000	0.000	0.000	0.000	0.000	79.791
			-	-	-	-	-	5:COMB1
			0.000	-20.136	0.000	-9.222	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
	10533	-ve	0.000	0.000	0.000	0.000	0.000	100.959
			-	-	-	-	-	5:COMB1
			0.000	-23.285	0.000	-9.222	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
14868	11922	+ve	0.000	26.986	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
			0.000	0.000	0.000	-0.023	0.000	-25.072
			-	-	-	5:COMB1	-	5:COMB1
	10533	-ve	0.000	25.910	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
			0.000	0.000	0.000	-0.023	0.000	-51.499
			-	-	-	5:COMB1	-	5:COMB1
14875	11928	+ve	0.000	26.296	0.000	0.000	0.000	4.374
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-0.027	0.000	0.000
			-	-	-	5:COMB1	-	-
	11922	-ve	0.000	25.221	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
			0.000	0.000	0.000	-0.027	0.000	-21.364
			-	-	-	5:COMB1	-	5:COMB1
14882	11934	+ve	0.000	18.531	0.000	0.000	0.000	24.667
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-0.027	0.000	0.000
			-	-	-	5:COMB1	-	-
	11928	-ve	0.000	17.455	0.000	0.000	0.000	6.689
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-0.027	0.000	0.000
			-	-	-	5:COMB1	-	-
14889	11940	+ve	0.000	10.679	0.000	0.000	0.000	36.213
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-0.022	0.000	0.000
			-	-	-	5:COMB1	-	-
	11934	-ve	0.000	9.604	0.000	0.000	0.000	26.080
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-0.022	0.000	0.000
			-	-	-	5:COMB1	-	-
14897	11941	+ve	0.000	32.571	0.000	11.768	0.000	78.402
			-	5:COMB1	-	5:COMB1	-	5:COMB1
			0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
	11943	-ve	0.000	29.438	0.000	11.768	0.000	48.316
			-	5:COMB1	-	5:COMB1	-	5:COMB1
			0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
14899	11943	+ve	0.000	44.391	0.000	13.934	0.000	47.118
			-	5:COMB1	-	5:COMB1	-	5:COMB1
			0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
	11945	-ve	0.000	41.258	0.000	13.934	0.000	5.565
			-	5:COMB1	-	5:COMB1	-	5:COMB1
			0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
14901	11945	+ve	0.000	56.966	0.000	15.879	0.000	3.892
			-	5:COMB1	-	5:COMB1	-	5:COMB1
			0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
	11947	-ve	0.000	53.833	0.000	15.879	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
			0.000	0.000	0.000	0.000	0.000	-49.862
			-	-	-	-	-	5:COMB1
14903	11947	+ve	0.000	68.405	0.000	16.952	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
			0.000	0.000	0.000	0.000	0.000	-51.362
			-	-	-	-	-	5:COMB1
	11949	-ve	0.000	65.271	0.000	16.952	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
			0.000	0.000	0.000	0.000	0.000	-116.221
			-	-	-	-	-	5:COMB1
14905	11949	+ve	0.000	0.000	0.000	15.478	0.000	0.000
			-	-	-	5:COMB1	-	-
			0.000	-84.885	0.000	0.000	0.000	-114.622
			-	5:COMB1	-	-	-	5:COMB1
	10534	-ve	0.000	0.000	0.000	15.478	0.000	0.000
			-	-	-	5:COMB1	-	-
			0.000	-88.018	0.000	0.000	0.000	-30.737
			-	5:COMB1	-	-	-	5:COMB1
14907	11951	+ve	0.000	83.805	0.000	0.436	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
			0.000	0.000	0.000	0.000	0.000	-99.661
			-	-	-	-	-	5:COMB1
	10534	-ve	0.000	80.579	0.000	0.436	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
			0.000	0.000	0.000	0.000	0.000	-181.787
			-	-	-	-	-	5:COMB1
14914	11957	+ve	0.000	85.966	0.000	0.468	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
			0.000	0.000	0.000	0.000	0.000	-10.637
			-	-	-	-	-	5:COMB1
	11951	-ve	0.000	82.740	0.000	0.468	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
			0.000	0.000	0.000	0.000	0.000	-94.923
			-	-	-	-	-	5:COMB1
14921	11963	+ve	0.000	74.289	0.000	0.452	0.000	64.605
			-	5:COMB1	-	5:COMB1	-	5:COMB1
			0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
	11957	-ve	0.000	71.063	0.000	0.452	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
			0.000	0.000	0.000	0.000	0.000	-8.013
			-	-	-	-	-	5:COMB1

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
14928	11969	+ve	0.000	60.943	0.000	0.413	0.000	125.829
			-	5:COMB1	-	5:COMB1	-	5:COMB1
			0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
	11963	-ve	0.000	57.717	0.000	0.413	0.000	66.547
			-	5:COMB1	-	5:COMB1	-	5:COMB1
			0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
14936	11970	+ve	0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
			0.000	-65.992	0.000	-17.363	0.000	-118.222
			-	5:COMB1	-	5:COMB1	-	5:COMB1
	11972	-ve	0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
			0.000	-69.151	0.000	-17.363	0.000	-52.130
			-	5:COMB1	-	5:COMB1	-	5:COMB1
14938	11972	+ve	0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
			0.000	-54.396	0.000	-16.221	0.000	-50.608
			-	5:COMB1	-	5:COMB1	-	5:COMB1
	11974	-ve	0.000	0.000	0.000	0.000	0.000	4.147
			-	-	-	-	-	5:COMB1
			0.000	-57.554	0.000	-16.221	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
14940	11974	+ve	0.000	0.000	0.000	0.000	0.000	5.837
			-	-	-	-	-	5:COMB1
			0.000	-41.657	0.000	-14.190	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
	11976	-ve	0.000	0.000	0.000	0.000	0.000	48.131
			-	-	-	-	-	5:COMB1
			0.000	-44.816	0.000	-14.190	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
14942	11976	+ve	0.000	0.000	0.000	0.000	0.000	49.332
			-	-	-	-	-	5:COMB1
			0.000	-29.673	0.000	-11.932	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
	11978	-ve	0.000	0.000	0.000	0.000	0.000	79.900
			-	-	-	-	-	5:COMB1
			0.000	-32.832	0.000	-11.932	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
14944	11978	+ve	0.000	0.000	0.000	0.000	0.000	80.989
			-	-	-	-	-	5:COMB1
			0.000	-20.627	0.000	-9.424	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
	10535	-ve	0.000	0.000	0.000	0.000	0.000	102.711
			-	-	-	-	-	5:COMB1
			0.000	-23.786	0.000	-9.424	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
14946	11980	+ve	0.000	27.380	0.000	0.023	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
			0.000	0.000	0.000	0.000	0.000	-25.716
			-	-	-	-	-	5:COMB1
	10535	-ve	0.000	26.304	0.000	0.023	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
			0.000	0.000	0.000	0.000	0.000	-52.537
			-	-	-	-	-	5:COMB1
14953	11986	+ve	0.000	26.752	0.000	0.045	0.000	4.236
			-	5:COMB1	-	5:COMB1	-	5:COMB1
			0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
	11980	-ve	0.000	25.676	0.000	0.045	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
			0.000	0.000	0.000	0.000	0.000	-21.958
			-	-	-	-	-	5:COMB1
14960	11992	+ve	0.000	18.982	0.000	0.054	0.000	25.030
			-	5:COMB1	-	5:COMB1	-	5:COMB1
			0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
	11986	-ve	0.000	17.907	0.000	0.054	0.000	6.601
			-	5:COMB1	-	5:COMB1	-	5:COMB1
			0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
14967	11998	+ve	0.000	11.108	0.000	0.051	0.000	37.052
			-	5:COMB1	-	5:COMB1	-	5:COMB1
			0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
	11992	-ve	0.000	10.032	0.000	0.051	0.000	26.491
			-	5:COMB1	-	5:COMB1	-	5:COMB1
			0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
14975	11999	+ve	0.000	32.762	0.000	12.499	0.000	80.068
			-	5:COMB1	-	5:COMB1	-	5:COMB1
			0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
	12001	-ve	0.000	29.609	0.000	12.499	0.000	49.615
			-	5:COMB1	-	5:COMB1	-	5:COMB1
			0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
14977	12001	+ve	0.000	44.793	0.000	14.847	0.000	48.417
			-	5:COMB1	-	5:COMB1	-	5:COMB1
			0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
	12003	-ve	0.000	41.640	0.000	14.847	0.000	6.216
			-	5:COMB1	-	5:COMB1	-	5:COMB1
			0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
14979	12003	+ve	0.000	57.592	0.000	17.021	0.000	4.533
			-	5:COMB1	-	5:COMB1	-	5:COMB1
			0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
	12005	-ve	0.000	54.438	0.000	17.021	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
			0.000	0.000	0.000	0.000	0.000	-50.166
			-	-	-	-	-	5:COMB1
14981	12005	+ve	0.000	69.350	0.000	18.366	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
			0.000	0.000	0.000	0.000	0.000	-51.633
			-	-	-	-	-	5:COMB1
	12007	-ve	0.000	66.196	0.000	18.366	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
			0.000	0.000	0.000	0.000	0.000	-117.814
			-	-	-	-	-	5:COMB1
14983	12007	+ve	0.000	0.000	0.000	17.261	0.000	0.000
			-	-	-	5:COMB1	-	-
			0.000	-95.621	0.000	0.000	0.000	-116.071
			-	5:COMB1	-	-	-	5:COMB1
	10422	-ve	0.000	0.000	0.000	17.261	0.000	0.000
			-	-	-	5:COMB1	-	-
			0.000	-98.774	0.000	0.000	0.000	-21.157
			-	5:COMB1	-	-	-	5:COMB1
14985	12009	+ve	0.000	80.240	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
			0.000	0.000	0.000	-6.645	0.000	-95.261
			-	-	-	5:COMB1	-	5:COMB1
	10422	-ve	0.000	77.014	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
			0.000	0.000	0.000	-6.645	0.000	-173.825
			-	-	-	5:COMB1	-	5:COMB1
14992	12015	+ve	0.000	81.911	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
			0.000	0.000	0.000	-6.965	0.000	-10.615
			-	-	-	5:COMB1	-	5:COMB1
	12009	-ve	0.000	78.685	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
			0.000	0.000	0.000	-6.965	0.000	-90.849
			-	-	-	5:COMB1	-	5:COMB1
14999	12021	+ve	0.000	70.584	0.000	0.000	0.000	60.808
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-6.517	0.000	0.000
			-	-	-	5:COMB1	-	-
	12015	-ve	0.000	67.357	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
			0.000	0.000	0.000	-6.517	0.000	-8.108
			-	-	-	5:COMB1	-	5:COMB1

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
15006	12027	+ve	0.000	57.652	0.000	0.000	0.000	118.657
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-5.806	0.000	0.000
			-	-	-	5:COMB1	-	-
	12021	-ve	0.000	54.426	0.000	0.000	0.000	62.663
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-5.806	0.000	0.000
			-	-	-	5:COMB1	-	-
15014	12028	+ve	0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
			0.000	-21.555	0.000	-0.220	0.000	-22.398
			-	5:COMB1	-	5:COMB1	-	5:COMB1
	12030	-ve	0.000	0.000	0.000	0.000	0.000	0.429
			-	-	-	-	-	5:COMB1
			0.000	-22.666	0.000	-0.220	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
15016	12030	+ve	0.000	0.000	0.000	0.000	0.000	2.309
			-	-	-	-	-	5:COMB1
			0.000	-13.038	0.000	-0.184	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
	12032	-ve	0.000	0.000	0.000	0.000	0.000	16.343
			-	-	-	-	-	5:COMB1
			0.000	-14.149	0.000	-0.184	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
15018	12032	+ve	0.000	0.000	0.000	0.000	0.000	17.282
			-	-	-	-	-	5:COMB1
			0.000	-4.832	0.000	-0.148	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
	12034	-ve	0.000	0.000	0.000	0.000	0.000	22.845
			-	-	-	-	-	5:COMB1
			0.000	-5.944	0.000	-0.148	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
15020	12034	+ve	0.000	0.000	0.000	0.000	0.000	22.729
			-	-	-	-	-	5:COMB1
			0.000	-0.745	0.000	-0.091	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
	10507	-ve	0.000	0.000	0.000	0.000	0.000	24.072
			-	-	-	-	-	5:COMB1
			0.000	-1.856	0.000	-0.091	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
15022	12036	+ve	0.000	6.326	0.000	0.647	0.000	33.764
			-	5:COMB1	-	5:COMB1	-	5:COMB1
			0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
	10507	-ve	0.000	5.303	0.000	0.647	0.000	28.236
			-	5:COMB1	-	5:COMB1	-	5:COMB1
			0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
15028	12041	+ve	0.000	3.531	0.000	0.760	0.000	37.324
			-	5:COMB1	-	5:COMB1	-	5:COMB1
			0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
	12036	-ve	0.000	2.507	0.000	0.760	0.000	34.454
			-	5:COMB1	-	5:COMB1	-	5:COMB1
			0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
15034	12046	+ve	0.000	0.000	0.000	0.820	0.000	33.337
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-3.471	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
	12041	-ve	0.000	0.000	0.000	0.820	0.000	37.125
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-4.495	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
15040	12051	+ve	0.000	0.000	0.000	0.827	0.000	20.774
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-11.726	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
	12046	-ve	0.000	0.000	0.000	0.827	0.000	32.411
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-12.749	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
15051	12056	+ve	0.000	6.753	0.000	0.000	0.000	22.700
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-0.887	0.000	0.000
			-	-	-	5:COMB1	-	-
	12058	-ve	0.000	5.647	0.000	0.000	0.000	16.329
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-0.887	0.000	0.000
			-	-	-	5:COMB1	-	-
15053	12058	+ve	0.000	14.250	0.000	0.000	0.000	15.251
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-0.392	0.000	0.000
			-	-	-	5:COMB1	-	-
	12060	-ve	0.000	13.144	0.000	0.000	0.000	1.176
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-0.392	0.000	0.000
			-	-	-	5:COMB1	-	-
15055	12060	+ve	0.000	21.177	0.000	0.528	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
			0.000	0.000	0.000	0.000	0.000	-0.771
			-	-	-	-	-	5:COMB1
	12062	-ve	0.000	20.071	0.000	0.528	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
			0.000	0.000	0.000	0.000	0.000	-21.964
			-	-	-	-	-	5:COMB1

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
15057	12062	+ve	0.000	22.463	0.000	1.221	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
			0.000	0.000	0.000	0.000	0.000	-25.258
			-	-	-	-	-	5:COMB1
	10506	-ve	0.000	21.357	0.000	1.221	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
			0.000	0.000	0.000	0.000	0.000	-47.773
			-	-	-	-	-	5:COMB1
15059	12064	+ve	0.000	10.267	0.000	1.902	0.000	75.763
			-	5:COMB1	-	5:COMB1	-	5:COMB1
			0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
	10506	-ve	0.000	7.197	0.000	1.902	0.000	67.460
			-	5:COMB1	-	5:COMB1	-	5:COMB1
			0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
15065	12069	+ve	0.000	0.469	0.000	3.324	0.000	74.744
			-	5:COMB1	-	5:COMB1	-	5:COMB1
			0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
	12064	-ve	0.000	0.000	0.000	3.324	0.000	75.758
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-2.601	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
15071	12074	+ve	0.000	0.000	0.000	4.199	0.000	61.560
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-12.256	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
	12069	-ve	0.000	0.000	0.000	4.199	0.000	74.676
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-15.327	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
15077	12079	+ve	0.000	0.000	0.000	4.329	0.000	34.985
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-26.075	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
	12074	-ve	0.000	0.000	0.000	4.329	0.000	61.239
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-29.146	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
15088	12084	+ve	0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
			0.000	-50.476	0.000	-7.032	0.000	-76.529
			-	5:COMB1	-	5:COMB1	-	5:COMB1
	12086	-ve	0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
			0.000	-53.810	0.000	-7.032	0.000	-22.707
			-	5:COMB1	-	5:COMB1	-	5:COMB1

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
15090	12086	+ve	0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
			0.000	-39.051	0.000	-5.370	0.000	-21.402
			-	5:COMB1	-	5:COMB1	-	5:COMB1
	12088	-ve	0.000	0.000	0.000	0.000	0.000	20.627
			-	-	-	-	-	5:COMB1
			0.000	-42.385	0.000	-5.370	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
15092	12088	+ve	0.000	0.000	0.000	0.000	0.000	21.737
			-	-	-	-	-	5:COMB1
			0.000	-27.076	0.000	-3.148	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
	12090	-ve	0.000	0.000	0.000	0.000	0.000	51.405
			-	-	-	-	-	5:COMB1
			0.000	-30.409	0.000	-3.148	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
15094	12090	+ve	0.000	0.000	0.000	0.000	0.000	52.238
			-	-	-	-	-	5:COMB1
			0.000	-17.586	0.000	-0.830	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
	11413	-ve	0.000	0.000	0.000	0.000	0.000	72.111
			-	-	-	-	-	5:COMB1
			0.000	-20.919	0.000	-0.830	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
15096	12092	+ve	0.000	22.133	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
			0.000	0.000	0.000	-1.344	0.000	-21.406
			-	-	-	5:COMB1	-	5:COMB1
	11413	-ve	0.000	21.057	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
			0.000	0.000	0.000	-1.344	0.000	-42.983
			-	-	-	5:COMB1	-	5:COMB1
15102	12097	+ve	0.000	20.597	0.000	0.000	0.000	1.747
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-1.429	0.000	0.000
			-	-	-	5:COMB1	-	-
	12092	-ve	0.000	19.522	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
			0.000	0.000	0.000	-1.429	0.000	-18.297
			-	-	-	5:COMB1	-	5:COMB1
15108	12102	+ve	0.000	13.583	0.000	0.000	0.000	16.578
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-0.997	0.000	0.000
			-	-	-	5:COMB1	-	-
	12097	-ve	0.000	12.507	0.000	0.000	0.000	3.543
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-0.997	0.000	0.000
			-	-	-	5:COMB1	-	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
15114	12107	+ve	0.000	6.794	0.000	0.000	0.000	23.846
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-0.378	0.000	0.000
			-	-	-	5:COMB1	-	-
	12102	-ve	0.000	5.718	0.000	0.000	0.000	17.595
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-0.378	0.000	0.000
			-	-	-	5:COMB1	-	-
15121	12108	+ve	0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
			0.000	-11.619	0.000	-1.692	0.000	-12.193
			-	5:COMB1	-	5:COMB1	-	5:COMB1
	12110	-ve	0.000	0.000	0.000	0.000	0.000	0.866
			-	-	-	-	-	5:COMB1
			0.000	-12.772	0.000	-1.692	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
15123	12110	+ve	0.000	0.000	0.000	0.000	0.000	1.705
			-	-	-	-	-	5:COMB1
			0.000	-4.260	0.000	-1.180	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
	12112	-ve	0.000	0.000	0.000	0.000	0.000	6.884
			-	-	-	-	-	5:COMB1
			0.000	-5.413	0.000	-1.180	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
15125	12112	+ve	0.000	0.000	0.000	0.000	0.000	6.615
			-	-	-	-	-	5:COMB1
			0.000	-0.044	0.000	-0.187	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
	10505	-ve	0.000	0.000	0.000	0.000	0.000	7.279
			-	-	-	-	-	5:COMB1
			0.000	-1.197	0.000	-0.187	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
15127	12114	+ve	0.000	7.483	0.000	0.000	0.000	17.196
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-0.618	0.000	0.000
			-	-	-	5:COMB1	-	-
	10505	-ve	0.000	6.459	0.000	0.000	0.000	10.567
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-0.618	0.000	0.000
			-	-	-	5:COMB1	-	-
15132	12118	+ve	0.000	4.487	0.000	0.000	0.000	21.976
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-0.636	0.000	0.000
			-	-	-	5:COMB1	-	-
	12114	-ve	0.000	3.463	0.000	0.000	0.000	18.196
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-0.636	0.000	0.000
			-	-	-	5:COMB1	-	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
15137	12122	+ve	0.000	0.000	0.000	0.000	0.000	19.715
			-	-	-	-	-	5:COMB1
			0.000	-2.191	0.000	-0.383	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
	12118	-ve	0.000	0.000	0.000	0.000	0.000	22.285
			-	-	-	-	-	5:COMB1
			0.000	-3.214	0.000	-0.383	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
15142	12126	+ve	0.000	0.000	0.000	0.105	0.000	9.349
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-9.410	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
	12122	-ve	0.000	0.000	0.000	0.105	0.000	18.783
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-10.433	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
15151	12130	+ve	0.000	0.000	0.000	0.272	0.000	8.551
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-0.564	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
	12133	-ve	0.000	0.000	0.000	0.272	0.000	9.782
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-1.723	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
15152	12132	+ve	0.000	7.566	0.000	1.701	0.000	1.770
			-	5:COMB1	-	5:COMB1	-	5:COMB1
			0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
	11420	-ve	0.000	6.542	0.000	1.701	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
			0.000	0.000	0.000	0.000	0.000	-4.937
			-	-	-	-	-	5:COMB1
15154	12133	+ve	0.000	6.701	0.000	1.248	0.000	9.521
			-	5:COMB1	-	5:COMB1	-	5:COMB1
			0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
	12135	-ve	0.000	5.543	0.000	1.248	0.000	2.931
			-	5:COMB1	-	5:COMB1	-	5:COMB1
			0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
15156	12135	+ve	0.000	10.520	0.000	1.373	0.000	1.421
			-	5:COMB1	-	5:COMB1	-	5:COMB1
			0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
	11306	-ve	0.000	9.362	0.000	1.373	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
			0.000	0.000	0.000	0.000	0.000	-9.281
			-	-	-	-	-	5:COMB1

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
15159	12138	+ve	0.000	6.675	0.000	0.754	0.000	8.825
			-	5:COMB1	-	5:COMB1	-	5:COMB1
			0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
	12132	-ve	0.000	5.652	0.000	0.754	0.000	2.964
			-	5:COMB1	-	5:COMB1	-	5:COMB1
			0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
15164	12142	+ve	0.000	2.760	0.000	0.000	0.000	11.402
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-0.471	0.000	0.000
			-	-	-	5:COMB1	-	-
	12138	-ve	0.000	1.736	0.000	0.000	0.000	9.264
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-0.471	0.000	0.000
			-	-	-	5:COMB1	-	-
15169	12146	+ve	0.000	0.000	0.000	0.000	0.000	8.575
			-	-	-	-	-	5:COMB1
			0.000	-2.458	0.000	-1.546	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
	12142	-ve	0.000	0.000	0.000	0.000	0.000	11.399
			-	-	-	-	-	5:COMB1
			0.000	-3.482	0.000	-1.546	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
15181	12152	+ve	0.000	0.401	0.000	2.458	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
			0.000	0.000	0.000	0.000	0.000	-1.392
			-	-	-	-	-	5:COMB1
	12155	-ve	0.000	0.000	0.000	2.458	0.000	0.047
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-3.075	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
15182	12154	+ve	0.000	1.078	0.000	1.539	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
			0.000	0.000	0.000	0.000	0.000	-3.299
			-	-	-	-	-	5:COMB1
	10424	-ve	0.000	0.101	0.000	1.539	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
			0.000	0.000	0.000	0.000	0.000	-3.834
			-	-	-	-	-	5:COMB1
15184	12155	+ve	0.000	1.591	0.000	3.005	0.000	0.273
			-	5:COMB1	-	5:COMB1	-	5:COMB1
			0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
	12157	-ve	0.000	0.000	0.000	3.005	0.000	0.431
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-1.885	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
15186	12157	+ve	0.000	1.407	0.000	2.338	0.000	0.239
			-	5:COMB1	-	5:COMB1	-	5:COMB1
			0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
	11305	-ve	0.000	0.000	0.000	2.338	0.000	0.595
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-2.069	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
15188	12159	+ve	0.000	10.734	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
			0.000	0.000	0.000	-0.657	0.000	-0.474
			-	-	-	5:COMB1	-	5:COMB1
	11305	-ve	0.000	9.757	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
			0.000	0.000	0.000	-0.657	0.000	-9.769
			-	-	-	5:COMB1	-	5:COMB1
15190	12161	+ve	0.000	0.317	0.000	1.612	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
			0.000	0.000	0.000	0.000	0.000	-3.422
			-	-	-	-	-	5:COMB1
	12154	-ve	0.000	0.000	0.000	1.612	0.000	0.000
			-	-	-	5:COMB1	-	-
			0.000	-0.659	0.000	0.000	0.000	-3.267
			-	5:COMB1	-	-	-	5:COMB1
15194	12164	+ve	0.000	0.177	0.000	0.000	0.000	0.115
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-0.664	0.000	0.000
			-	-	-	5:COMB1	-	-
	12159	-ve	0.000	0.000	0.000	0.000	0.000	0.397
			-	-	-	-	-	5:COMB1
			0.000	-0.800	0.000	-0.664	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
15200	12165	+ve	0.000	1.019	0.000	0.000	0.000	0.471
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-0.646	0.000	0.000
			-	-	-	5:COMB1	-	-
	12168	-ve	0.000	0.000	0.000	0.000	0.000	1.278
			-	-	-	-	-	5:COMB1
			0.000	-2.500	0.000	-0.646	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
15201	12167	+ve	0.000	11.023	0.000	0.259	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
			0.000	0.000	0.000	0.000	0.000	-0.497
			-	-	-	-	-	5:COMB1
	11303	-ve	0.000	10.046	0.000	0.259	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
			0.000	0.000	0.000	0.000	0.000	-10.053
			-	-	-	-	-	5:COMB1

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
15203	12168	+ve	0.000	0.966	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
			0.000	0.000	0.000	-1.283	0.000	-0.626
			-	-	-	5:COMB1	-	5:COMB1
	11302	-ve	0.000	0.000	0.000	0.000	0.000	0.239
			-	-	-	-	-	5:COMB1
			0.000	-2.553	0.000	-1.283	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
15207	12172	+ve	0.000	0.161	0.000	0.259	0.000	0.116
			-	5:COMB1	-	5:COMB1	-	5:COMB1
			0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
	12167	-ve	0.000	0.000	0.000	0.259	0.000	0.413
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-0.815	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
15217	12175	+ve	0.000	2.104	0.000	0.000	0.000	0.481
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-5.175	0.000	0.000
			-	-	-	5:COMB1	-	-
	11303	-ve	0.000	0.000	0.000	0.000	0.000	0.325
			-	-	-	-	-	5:COMB1
			0.000	-1.849	0.000	-5.175	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
15233	12188	+ve	0.000	56.354	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
			0.000	0.000	0.000	-17.944	0.000	-40.082
			-	-	-	5:COMB1	-	5:COMB1
	10425	-ve	0.000	53.425	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
			0.000	0.000	0.000	-17.944	0.000	-89.878
			-	-	-	5:COMB1	-	5:COMB1
15239	12193	+ve	0.000	59.301	0.000	0.000	0.000	16.170
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-18.722	0.000	0.000
			-	-	-	5:COMB1	-	-
	12188	-ve	0.000	56.372	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
			0.000	0.000	0.000	-18.722	0.000	-36.305
			-	-	-	5:COMB1	-	5:COMB1
15246	12194	+ve	0.000	31.362	0.000	16.976	0.000	49.080
			-	5:COMB1	-	5:COMB1	-	5:COMB1
			0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
	12196	-ve	0.000	28.043	0.000	16.976	0.000	18.558
			-	5:COMB1	-	5:COMB1	-	5:COMB1
			0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
15248	12196	+ve	0.000	41.328	0.000	17.016	0.000	17.547
			-	5:COMB1	-	5:COMB1	-	5:COMB1
			0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
	12198	-ve	0.000	38.010	0.000	17.016	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
			0.000	0.000	0.000	0.000	0.000	-23.217
			-	-	-	-	-	5:COMB1
15250	12198	+ve	0.000	47.599	0.000	15.306	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
			0.000	0.000	0.000	0.000	0.000	-23.896
			-	-	-	-	-	5:COMB1
	12200	-ve	0.000	44.280	0.000	15.306	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
			0.000	0.000	0.000	0.000	0.000	-71.104
			-	-	-	-	-	5:COMB1
15252	12200	+ve	0.000	0.000	0.000	13.208	0.000	0.000
			-	-	-	5:COMB1	-	-
			0.000	-65.118	0.000	0.000	0.000	-70.415
			-	5:COMB1	-	-	-	5:COMB1
	11412	-ve	0.000	0.000	0.000	13.208	0.000	0.000
			-	-	-	5:COMB1	-	-
			0.000	-68.437	0.000	0.000	0.000	-1.795
			-	5:COMB1	-	-	-	5:COMB1
15254	12202	+ve	0.000	0.000	0.000	0.970	0.000	0.000
			-	-	-	5:COMB1	-	-
			0.000	-6.842	0.000	0.000	0.000	-4.536
			-	5:COMB1	-	-	-	5:COMB1
	11412	-ve	0.000	0.000	0.000	0.970	0.000	5.332
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-10.514	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
15261	12203	+ve	0.000	1.048	0.000	0.507	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
			0.000	0.000	0.000	0.000	0.000	-0.042
			-	-	-	-	-	5:COMB1
	12205	-ve	0.000	0.000	0.000	0.507	0.000	0.683
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-2.405	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
15263	12205	+ve	0.000	8.638	0.000	0.641	0.000	0.604
			-	5:COMB1	-	5:COMB1	-	5:COMB1
			0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
	12207	-ve	0.000	5.185	0.000	0.641	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
			0.000	0.000	0.000	0.000	0.000	-6.787
			-	-	-	-	-	5:COMB1

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
15265	12207	+ve	0.000	16.851	0.000	1.026	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
			0.000	0.000	0.000	0.000	0.000	-7.281
			-	-	-	-	-	5:COMB1
	10428	-ve	0.000	13.397	0.000	1.026	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
			0.000	0.000	0.000	0.000	0.000	-23.456
			-	-	-	-	-	5:COMB1
15267	12209	+ve	0.000	18.421	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
			0.000	0.000	0.000	-0.131	0.000	-15.459
			-	-	-	5:COMB1	-	5:COMB1
	10428	-ve	0.000	17.445	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
			0.000	0.000	0.000	-0.131	0.000	-31.727
			-	-	-	5:COMB1	-	5:COMB1
15272	12213	+ve	0.000	15.324	0.000	0.000	0.000	0.086
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-0.028	0.000	0.000
			-	-	-	5:COMB1	-	-
	12209	-ve	0.000	14.348	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
			0.000	0.000	0.000	-0.028	0.000	-13.375
			-	-	-	5:COMB1	-	5:COMB1
15278	12214	+ve	0.000	1.669	0.000	0.000	0.000	0.519
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-2.445	0.000	0.000
			-	-	-	5:COMB1	-	-
	12215	-ve	0.000	0.000	0.000	0.000	0.000	0.546
			-	-	-	-	-	5:COMB1
			0.000	-1.719	0.000	-2.445	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
15279	12215	+ve	0.000	1.527	0.000	0.000	0.000	0.092
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-4.912	0.000	0.000
			-	-	-	5:COMB1	-	-
	12216	-ve	0.000	0.000	0.000	0.000	0.000	0.267
			-	-	-	-	-	5:COMB1
			0.000	-1.861	0.000	-4.912	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
15280	12216	+ve	0.000	1.603	0.000	0.000	0.000	0.300
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-6.196	0.000	0.000
			-	-	-	5:COMB1	-	-
	12217	-ve	0.000	0.000	0.000	0.000	0.000	0.395
			-	-	-	-	-	5:COMB1
			0.000	-1.784	0.000	-6.196	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
15281	12217	+ve	0.000	0.783	0.000	0.000	0.000	0.427
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-6.462	0.000	0.000
			-	-	-	5:COMB1	-	-
	10419	-ve	0.000	0.000	0.000	0.000	0.000	1.383
			-	-	-	-	-	5:COMB1
			0.000	-2.605	0.000	-6.462	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
15285	12218	+ve	0.000	1.056	0.000	2.307	0.000	10.609
			-	5:COMB1	-	5:COMB1	-	5:COMB1
			0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
	12220	-ve	0.000	0.000	0.000	2.307	0.000	10.093
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-0.075	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
15287	12220	+ve	0.000	6.451	0.000	2.908	0.000	9.716
			-	5:COMB1	-	5:COMB1	-	5:COMB1
			0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
	12222	-ve	0.000	5.319	0.000	2.908	0.000	3.528
			-	5:COMB1	-	5:COMB1	-	5:COMB1
			0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
15289	12222	+ve	0.000	10.830	0.000	2.325	0.000	2.527
			-	5:COMB1	-	5:COMB1	-	5:COMB1
			0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
	12224	-ve	0.000	9.698	0.000	2.325	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
			0.000	0.000	0.000	0.000	0.000	-8.265
			-	-	-	-	-	5:COMB1
15291	12224	+ve	0.000	11.801	0.000	0.200	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
			0.000	0.000	0.000	0.000	0.000	-9.844
			-	-	-	-	-	5:COMB1
	10419	-ve	0.000	10.669	0.000	0.200	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
			0.000	0.000	0.000	0.000	0.000	-21.656
			-	-	-	-	-	5:COMB1
15330	12243	+ve	0.000	2.004	0.000	0.000	0.000	0.035
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-3.013	0.000	0.000
			-	-	-	5:COMB1	-	-
	12244	-ve	0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
			0.000	-1.228	0.000	-3.013	0.000	-0.354
			-	5:COMB1	-	5:COMB1	-	5:COMB1

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
15331	12244	+ve	0.000	6.399	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
			0.000	0.000	0.000	-2.167	0.000	-0.548
			-	-	-	5:COMB1	-	5:COMB1
	10424	-ve	0.000	3.168	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
			0.000	0.000	0.000	-2.167	0.000	-5.335
			-	-	-	5:COMB1	-	5:COMB1
15341	12247	+ve	0.000	0.000	0.000	5.312	0.000	14.711
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-2.979	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
	12249	-ve	0.000	0.000	0.000	5.312	0.000	20.292
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-6.702	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
15343	12249	+ve	0.000	5.985	0.000	5.312	0.000	20.586
			-	5:COMB1	-	5:COMB1	-	5:COMB1
			0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
	12251	-ve	0.000	2.262	0.000	5.312	0.000	15.832
			-	5:COMB1	-	5:COMB1	-	5:COMB1
			0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
15345	12251	+ve	0.000	14.611	0.000	2.878	0.000	15.392
			-	5:COMB1	-	5:COMB1	-	5:COMB1
			0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
	12253	-ve	0.000	10.888	0.000	2.878	0.000	0.692
			-	5:COMB1	-	5:COMB1	-	5:COMB1
			0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
15347	12253	+ve	0.000	20.216	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
			0.000	0.000	0.000	-0.911	0.000	-0.538
			-	-	-	5:COMB1	-	5:COMB1
	10424	-ve	0.000	16.493	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
			0.000	0.000	0.000	-0.911	0.000	-21.700
			-	-	-	5:COMB1	-	5:COMB1
15376	12263	+ve	0.000	6.037	0.000	0.000	0.000	0.676
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-0.625	0.000	0.000
			-	-	-	5:COMB1	-	-
	10518	-ve	0.000	4.773	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
			0.000	0.000	0.000	-0.625	0.000	-5.673
			-	-	-	5:COMB1	-	5:COMB1

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
15381	12267	+ve	0.000	1.028	0.000	0.000	0.000	2.313
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-0.427	0.000	0.000
			-	-	-	5:COMB1	-	-
	12263	-ve	0.000	0.000	0.000	0.000	0.000	1.848
			-	-	-	-	-	5:COMB1
			0.000	-0.236	0.000	-0.427	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
15386	12271	+ve	0.000	0.000	0.000	0.087	0.000	0.000
			-	-	-	5:COMB1	-	-
			0.000	-7.637	0.000	0.000	0.000	-7.775
			-	5:COMB1	-	-	-	5:COMB1
	12267	-ve	0.000	0.000	0.000	0.087	0.000	1.940
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-8.901	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
15395	12276	+ve	0.000	59.551	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
			0.000	0.000	0.000	-2.822	0.000	-4.732
			-	-	-	5:COMB1	-	5:COMB1
	10452	-ve	0.000	55.757	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
			0.000	0.000	0.000	-2.822	0.000	-72.464
			-	-	-	5:COMB1	-	5:COMB1
15399	12279	+ve	0.000	4.908	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
			0.000	0.000	0.000	-1.427	0.000	-0.323
			-	-	-	5:COMB1	-	5:COMB1
	12276	-ve	0.000	1.114	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
			0.000	0.000	0.000	-1.427	0.000	-3.860
			-	-	-	5:COMB1	-	5:COMB1
15403	12282	+ve	0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
			0.000	-5.764	0.000	-0.172	0.000	-9.755
			-	5:COMB1	-	5:COMB1	-	5:COMB1
	12279	-ve	0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
			0.000	-9.557	0.000	-0.172	0.000	-0.755
			-	5:COMB1	-	5:COMB1	-	5:COMB1
15408	12283	+ve	0.000	0.000	0.000	1.480	0.000	0.000
			-	-	-	5:COMB1	-	-
			0.000	-38.391	0.000	0.000	0.000	-62.761
			-	5:COMB1	-	-	-	5:COMB1
	12285	-ve	0.000	0.000	0.000	1.480	0.000	0.000
			-	-	-	5:COMB1	-	-
			0.000	-41.542	0.000	0.000	0.000	-23.769
			-	5:COMB1	-	-	-	5:COMB1

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
15410	12285	+ve	0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
			0.000	-28.053	0.000	-0.271	0.000	-23.438
			-	5:COMB1	-	5:COMB1	-	5:COMB1
	12287	-ve	0.000	0.000	0.000	0.000	0.000	5.471
			-	-	-	-	-	5:COMB1
			0.000	-31.203	0.000	-0.271	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
15412	12287	+ve	0.000	0.000	0.000	0.642	0.000	6.325
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-20.211	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
	12289	-ve	0.000	0.000	0.000	0.642	0.000	27.582
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-23.362	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
15414	12289	+ve	0.000	0.000	0.000	1.294	0.000	28.216
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-12.269	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
	12291	-ve	0.000	0.000	0.000	1.294	0.000	41.722
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-15.419	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
15416	12291	+ve	0.000	0.000	0.000	1.403	0.000	41.949
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-7.506	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
	10524	-ve	0.000	0.000	0.000	1.403	0.000	50.809
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-10.656	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
15418	12293	+ve	0.000	6.316	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
			0.000	0.000	0.000	-0.024	0.000	-5.743
			-	-	-	5:COMB1	-	5:COMB1
	10524	-ve	0.000	5.051	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
			0.000	0.000	0.000	-0.024	0.000	-12.420
			-	-	-	5:COMB1	-	5:COMB1
15425	12299	+ve	0.000	1.154	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
			0.000	0.000	0.000	-0.020	0.000	-3.762
			-	-	-	5:COMB1	-	5:COMB1
	12293	-ve	0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
			0.000	-0.110	0.000	-0.020	0.000	-4.375
			-	5:COMB1	-	5:COMB1	-	5:COMB1

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
15432	12305	+ve	0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
			0.000	-9.057	0.000	-0.012	0.000	-15.607
			-	5:COMB1	-	5:COMB1	-	5:COMB1
	12299	-ve	0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
			0.000	-10.322	0.000	-0.012	0.000	-4.223
			-	5:COMB1	-	5:COMB1	-	5:COMB1
15440	12306	+ve	0.000	15.193	0.000	0.000	0.000	42.706
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-0.987	0.000	0.000
			-	-	-	5:COMB1	-	-
	12308	-ve	0.000	12.046	0.000	0.000	0.000	29.434
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-0.987	0.000	0.000
			-	-	-	5:COMB1	-	-
15442	12308	+ve	0.000	24.419	0.000	0.000	0.000	28.878
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-1.127	0.000	0.000
			-	-	-	5:COMB1	-	-
	12310	-ve	0.000	21.272	0.000	0.000	0.000	6.615
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-1.127	0.000	0.000
			-	-	-	5:COMB1	-	-
15444	12310	+ve	0.000	34.166	0.000	0.000	0.000	5.702
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-1.355	0.000	0.000
			-	-	-	5:COMB1	-	-
	12312	-ve	0.000	31.019	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
			0.000	0.000	0.000	-1.355	0.000	-26.059
			-	-	-	5:COMB1	-	5:COMB1
15446	12312	+ve	0.000	42.509	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
			0.000	0.000	0.000	-1.518	0.000	-26.948
			-	-	-	5:COMB1	-	5:COMB1
	12314	-ve	0.000	39.362	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
			0.000	0.000	0.000	-1.518	0.000	-66.839
			-	-	-	5:COMB1	-	5:COMB1
15448	12314	+ve	0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
			0.000	-46.593	0.000	-1.124	0.000	-66.393
			-	5:COMB1	-	5:COMB1	-	5:COMB1
	10449	-ve	0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
			0.000	-49.740	0.000	-1.124	0.000	-19.454
			-	5:COMB1	-	5:COMB1	-	5:COMB1

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
15450	12316	+ve	0.000	61.436	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
			0.000	0.000	0.000	-0.383	0.000	-5.004
			-	-	-	5:COMB1	-	5:COMB1
	10449	-ve	0.000	57.642	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
			0.000	0.000	0.000	-0.383	0.000	-74.950
			-	-	-	5:COMB1	-	5:COMB1
15457	12322	+ve	0.000	4.889	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
			0.000	0.000	0.000	-0.061	0.000	-0.396
			-	-	-	5:COMB1	-	5:COMB1
	12316	-ve	0.000	1.096	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
			0.000	0.000	0.000	-0.061	0.000	-3.911
			-	-	-	5:COMB1	-	5:COMB1
15464	12328	+ve	0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
			0.000	-6.829	0.000	-0.053	0.000	-11.114
			-	5:COMB1	-	5:COMB1	-	5:COMB1
	12322	-ve	0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
			0.000	-10.623	0.000	-0.053	0.000	-0.862
			-	5:COMB1	-	5:COMB1	-	5:COMB1
15472	12329	+ve	0.000	0.000	0.000	9.173	0.000	0.000
			-	-	-	5:COMB1	-	-
			0.000	-49.637	0.000	0.000	0.000	-84.384
			-	5:COMB1	-	-	-	5:COMB1
	12331	-ve	0.000	0.000	0.000	9.173	0.000	0.000
			-	-	-	5:COMB1	-	-
			0.000	-52.779	0.000	0.000	0.000	-34.558
			-	5:COMB1	-	-	-	5:COMB1
15474	12331	+ve	0.000	0.000	0.000	7.512	0.000	0.000
			-	-	-	5:COMB1	-	-
			0.000	-39.190	0.000	0.000	0.000	-33.475
			-	5:COMB1	-	-	-	5:COMB1
	12333	-ve	0.000	0.000	0.000	7.512	0.000	6.185
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-42.332	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
15476	12333	+ve	0.000	0.000	0.000	5.735	0.000	7.379
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-28.004	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
	12335	-ve	0.000	0.000	0.000	5.735	0.000	36.155
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-31.146	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
15478	12335	+ve	0.000	0.000	0.000	4.169	0.000	36.947
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-17.623	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
	12337	-ve	0.000	0.000	0.000	4.169	0.000	55.623
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-20.765	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
15480	12337	+ve	0.000	0.000	0.000	2.507	0.000	56.125
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-10.743	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
	10523	-ve	0.000	0.000	0.000	2.507	0.000	68.107
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-13.885	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
15482	12339	+ve	0.000	7.277	0.000	0.099	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
			0.000	0.000	0.000	0.000	0.000	-8.862
			-	-	-	-	-	5:COMB1
	10523	-ve	0.000	6.013	0.000	0.099	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
			0.000	0.000	0.000	0.000	0.000	-16.669
			-	-	-	-	-	5:COMB1
15489	12345	+ve	0.000	2.034	0.000	0.028	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
			0.000	0.000	0.000	0.000	0.000	-5.743
			-	-	-	-	-	5:COMB1
	12339	-ve	0.000	0.769	0.000	0.028	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
			0.000	0.000	0.000	0.000	0.000	-7.390
			-	-	-	-	-	5:COMB1
15496	12351	+ve	0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
			0.000	-8.269	0.000	-0.007	0.000	-16.591
			-	5:COMB1	-	5:COMB1	-	5:COMB1
	12345	-ve	0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
			0.000	-9.534	0.000	-0.007	0.000	-6.132
			-	5:COMB1	-	5:COMB1	-	5:COMB1
15504	12352	+ve	0.000	21.293	0.000	0.000	0.000	53.528
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-8.047	0.000	0.000
			-	-	-	5:COMB1	-	-
	12354	-ve	0.000	18.138	0.000	0.000	0.000	34.266
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-8.047	0.000	0.000
			-	-	-	5:COMB1	-	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
15506	12354	+ve	0.000	30.739	0.000	0.000	0.000	33.556
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-8.371	0.000	0.000
			-	-	-	5:COMB1	-	-
	12356	-ve	0.000	27.584	0.000	0.000	0.000	5.064
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-8.371	0.000	0.000
			-	-	-	5:COMB1	-	-
15508	12356	+ve	0.000	40.472	0.000	0.000	0.000	3.972
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-8.442	0.000	0.000
			-	-	-	5:COMB1	-	-
	12358	-ve	0.000	37.317	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
			0.000	0.000	0.000	-8.442	0.000	-34.028
			-	-	-	5:COMB1	-	5:COMB1
15510	12358	+ve	0.000	48.766	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
			0.000	0.000	0.000	-8.190	0.000	-35.019
			-	-	-	5:COMB1	-	5:COMB1
	12360	-ve	0.000	45.611	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
			0.000	0.000	0.000	-8.190	0.000	-81.123
			-	-	-	5:COMB1	-	5:COMB1
15512	12360	+ve	0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
			0.000	-61.441	0.000	-7.493	0.000	-80.610
			-	5:COMB1	-	5:COMB1	-	5:COMB1
	10439	-ve	0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
			0.000	-64.595	0.000	-7.493	0.000	-19.041
			-	5:COMB1	-	5:COMB1	-	5:COMB1
15514	12362	+ve	0.000	37.656	0.000	0.215	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
			0.000	0.000	0.000	0.000	0.000	-2.838
			-	-	-	-	-	5:COMB1
	10439	-ve	0.000	33.863	0.000	0.215	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
			0.000	0.000	0.000	0.000	0.000	-44.848
			-	-	-	-	-	5:COMB1
15521	12368	+ve	0.000	3.593	0.000	0.136	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
			0.000	0.000	0.000	0.000	0.000	-0.245
			-	-	-	-	-	5:COMB1
	12362	-ve	0.000	0.000	0.000	0.136	0.000	0.000
			-	-	-	5:COMB1	-	-
			0.000	-0.201	0.000	0.000	0.000	-2.238
			-	5:COMB1	-	-	-	5:COMB1

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
15528	12374	+ve	0.000	0.000	0.000	0.102	0.000	0.000
			-	-	-	5:COMB1	-	-
			0.000	-6.866	0.000	0.000	0.000	-11.094
			-	5:COMB1	-	-	-	5:COMB1
	12368	-ve	0.000	0.000	0.000	0.102	0.000	0.000
			-	-	-	5:COMB1	-	-
			0.000	-10.660	0.000	0.000	0.000	-0.798
			-	5:COMB1	-	-	-	5:COMB1
15536	12375	+ve	0.000	0.000	0.000	7.253	0.000	0.000
			-	-	-	5:COMB1	-	-
			0.000	-46.096	0.000	0.000	0.000	-77.960
			-	5:COMB1	-	-	-	5:COMB1
	12377	-ve	0.000	0.000	0.000	7.253	0.000	0.000
			-	-	-	5:COMB1	-	-
			0.000	-49.245	0.000	0.000	0.000	-31.481
			-	5:COMB1	-	-	-	5:COMB1
15538	12377	+ve	0.000	0.000	0.000	5.850	0.000	0.000
			-	-	-	5:COMB1	-	-
			0.000	-36.157	0.000	0.000	0.000	-30.480
			-	5:COMB1	-	-	-	5:COMB1
	12379	-ve	0.000	0.000	0.000	5.850	0.000	6.308
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-39.305	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
15540	12379	+ve	0.000	0.000	0.000	4.471	0.000	7.395
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-25.359	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
	12381	-ve	0.000	0.000	0.000	4.471	0.000	33.655
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-28.508	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
15542	12381	+ve	0.000	0.000	0.000	3.365	0.000	34.354
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-15.353	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
	12383	-ve	0.000	0.000	0.000	3.365	0.000	50.858
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-18.502	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
15544	12383	+ve	0.000	0.000	0.000	2.195	0.000	51.224
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-9.088	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
	10522	-ve	0.000	0.000	0.000	2.195	0.000	61.619
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-12.236	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
15546	12385	+ve	0.000	6.622	0.000	0.041	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
			0.000	0.000	0.000	0.000	0.000	-6.804
			-	-	-	-	-	5:COMB1
	10522	-ve	0.000	5.357	0.000	0.041	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
			0.000	0.000	0.000	0.000	0.000	-13.840
			-	-	-	-	-	5:COMB1
15553	12391	+ve	0.000	1.411	0.000	0.013	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
			0.000	0.000	0.000	0.000	0.000	-4.489
			-	-	-	-	-	5:COMB1
	12385	-ve	0.000	0.146	0.000	0.013	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
			0.000	0.000	0.000	0.000	0.000	-5.404
			-	-	-	-	-	5:COMB1
15560	12397	+ve	0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
			0.000	-8.834	0.000	-0.001	0.000	-16.059
			-	5:COMB1	-	5:COMB1	-	5:COMB1
	12391	-ve	0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
			0.000	-10.098	0.000	-0.001	0.000	-4.937
			-	5:COMB1	-	5:COMB1	-	5:COMB1
15568	12398	+ve	0.000	19.198	0.000	0.000	0.000	49.172
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-4.895	0.000	0.000
			-	-	-	5:COMB1	-	-
	12400	-ve	0.000	16.064	0.000	0.000	0.000	32.062
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-4.895	0.000	0.000
			-	-	-	5:COMB1	-	-
15570	12400	+ve	0.000	28.454	0.000	0.000	0.000	31.399
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-5.138	0.000	0.000
			-	-	-	5:COMB1	-	-
	12402	-ve	0.000	25.321	0.000	0.000	0.000	5.310
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-5.138	0.000	0.000
			-	-	-	5:COMB1	-	-
15572	12402	+ve	0.000	38.108	0.000	0.000	0.000	4.282
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-5.287	0.000	0.000
			-	-	-	5:COMB1	-	-
	12404	-ve	0.000	34.975	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
			0.000	0.000	0.000	-5.287	0.000	-31.174
			-	-	-	5:COMB1	-	5:COMB1

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
15574	12404	+ve	0.000	46.353	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
			0.000	0.000	0.000	-5.229	0.000	-32.117
			-	-	-	5:COMB1	-	5:COMB1
	12406	-ve	0.000	43.219	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
			0.000	0.000	0.000	-5.229	0.000	-75.577
			-	-	-	5:COMB1	-	5:COMB1
15576	12406	+ve	0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
			0.000	-56.885	0.000	-4.762	0.000	-75.088
			-	5:COMB1	-	5:COMB1	-	5:COMB1
	10521	-ve	0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
			0.000	-60.018	0.000	-4.762	0.000	-18.373
			-	5:COMB1	-	5:COMB1	-	5:COMB1
15578	12408	+ve	0.000	41.295	0.000	0.076	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
			0.000	0.000	0.000	0.000	0.000	-3.148
			-	-	-	-	-	5:COMB1
	10521	-ve	0.000	37.501	0.000	0.076	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
			0.000	0.000	0.000	0.000	0.000	-49.433
			-	-	-	-	-	5:COMB1
15585	12414	+ve	0.000	3.807	0.000	0.135	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
			0.000	0.000	0.000	0.000	0.000	-0.269
			-	-	-	-	-	5:COMB1
	12408	-ve	0.000	0.013	0.000	0.135	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
			0.000	0.000	0.000	0.000	0.000	-2.513
			-	-	-	-	-	5:COMB1
15592	12420	+ve	0.000	0.000	0.000	0.104	0.000	0.000
			-	-	-	5:COMB1	-	-
			0.000	-6.867	0.000	0.000	0.000	-11.108
			-	5:COMB1	-	-	-	5:COMB1
	12414	-ve	0.000	0.000	0.000	0.104	0.000	0.000
			-	-	-	5:COMB1	-	-
			0.000	-10.661	0.000	0.000	0.000	-0.811
			-	5:COMB1	-	-	-	5:COMB1
15600	12421	+ve	0.000	0.000	0.000	7.579	0.000	0.000
			-	-	-	5:COMB1	-	-
			0.000	-47.205	0.000	0.000	0.000	-80.469
			-	5:COMB1	-	-	-	5:COMB1
	12423	-ve	0.000	0.000	0.000	7.579	0.000	0.000
			-	-	-	5:COMB1	-	-
			0.000	-50.364	0.000	0.000	0.000	-32.753
			-	5:COMB1	-	-	-	5:COMB1

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
15602	12423	+ve	0.000	0.000	0.000	6.091	0.000	0.000
			-	-	-	5:COMB1	-	-
			0.000	-37.067	0.000	0.000	0.000	-31.721
			-	5:COMB1	-	-	-	5:COMB1
	12425	-ve	0.000	0.000	0.000	6.091	0.000	6.084
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-40.226	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
15604	12425	+ve	0.000	0.000	0.000	4.655	0.000	7.205
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-26.152	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
	12427	-ve	0.000	0.000	0.000	4.655	0.000	34.332
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-29.311	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
15606	12427	+ve	0.000	0.000	0.000	3.519	0.000	35.054
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-16.078	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
	12429	-ve	0.000	0.000	0.000	3.519	0.000	52.324
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-19.237	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
15608	12429	+ve	0.000	0.000	0.000	2.315	0.000	52.713
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-9.769	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
	10520	-ve	0.000	0.000	0.000	2.315	0.000	63.814
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-12.928	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
15610	12431	+ve	0.000	6.695	0.000	0.058	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
			0.000	0.000	0.000	0.000	0.000	-7.197
			-	-	-	-	-	5:COMB1
	10520	-ve	0.000	5.430	0.000	0.058	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
			0.000	0.000	0.000	0.000	0.000	-14.319
			-	-	-	-	-	5:COMB1
15617	12437	+ve	0.000	1.456	0.000	0.017	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
			0.000	0.000	0.000	0.000	0.000	-4.825
			-	-	-	-	-	5:COMB1
	12431	-ve	0.000	0.191	0.000	0.017	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
			0.000	0.000	0.000	0.000	0.000	-5.793
			-	-	-	-	-	5:COMB1

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
15624	12443	+ve	0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
			0.000	-8.821	0.000	-0.005	0.000	-16.377
			-	5:COMB1	-	5:COMB1	-	5:COMB1
	12437	-ve	0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
			0.000	-10.086	0.000	-0.005	0.000	-5.270
			-	5:COMB1	-	5:COMB1	-	5:COMB1
15632	12444	+ve	0.000	19.648	0.000	0.000	0.000	51.281
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-5.765	0.000	0.000
			-	-	-	5:COMB1	-	-
	12446	-ve	0.000	16.496	0.000	0.000	0.000	33.635
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-5.765	0.000	0.000
			-	-	-	5:COMB1	-	-
15634	12446	+ve	0.000	29.207	0.000	0.000	0.000	32.961
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-6.279	0.000	0.000
			-	-	-	5:COMB1	-	-
	12448	-ve	0.000	26.054	0.000	0.000	0.000	5.985
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-6.279	0.000	0.000
			-	-	-	5:COMB1	-	-
15636	12448	+ve	0.000	39.191	0.000	0.000	0.000	4.938
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-6.756	0.000	0.000
			-	-	-	5:COMB1	-	-
	12450	-ve	0.000	36.038	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
			0.000	0.000	0.000	-6.756	0.000	-31.784
			-	-	-	5:COMB1	-	5:COMB1
15638	12450	+ve	0.000	47.871	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
			0.000	0.000	0.000	-7.044	0.000	-32.701
			-	-	-	5:COMB1	-	5:COMB1
	12452	-ve	0.000	44.718	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
			0.000	0.000	0.000	-7.044	0.000	-77.903
			-	-	-	5:COMB1	-	5:COMB1
15640	12452	+ve	0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
			0.000	-66.948	0.000	-7.025	0.000	-77.275
			-	5:COMB1	-	5:COMB1	-	5:COMB1
	10431	-ve	0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
			0.000	-70.100	0.000	-7.025	0.000	-10.375
			-	5:COMB1	-	5:COMB1	-	5:COMB1

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
15642	12454	+ve	0.000	27.098	0.000	0.844	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
			0.000	0.000	0.000	0.000	0.000	-1.747
			-	-	-	-	-	5:COMB1
	10431	-ve	0.000	23.302	0.000	0.844	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
			0.000	0.000	0.000	0.000	0.000	-31.375
			-	-	-	-	-	5:COMB1
15649	12460	+ve	0.000	3.124	0.000	0.280	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
			0.000	0.000	0.000	0.000	0.000	-0.145
			-	-	-	-	-	5:COMB1
	12454	-ve	0.000	0.000	0.000	0.280	0.000	0.000
			-	-	-	5:COMB1	-	-
			0.000	-0.673	0.000	0.000	0.000	-1.586
			-	5:COMB1	-	-	-	5:COMB1
15656	12466	+ve	0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
			0.000	-6.303	0.000	-0.134	0.000	-10.356
			-	5:COMB1	-	5:COMB1	-	5:COMB1
	12460	-ve	0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
			0.000	-10.099	0.000	-0.134	0.000	-0.714
			-	5:COMB1	-	5:COMB1	-	5:COMB1
15664	12467	+ve	0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
			0.000	-32.668	0.000	-0.432	0.000	-51.876
			-	5:COMB1	-	5:COMB1	-	5:COMB1
	12469	-ve	0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
			0.000	-36.005	0.000	-0.432	0.000	-16.386
			-	5:COMB1	-	5:COMB1	-	5:COMB1
15666	12469	+ve	0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
			0.000	-22.611	0.000	-2.299	0.000	-15.624
			-	5:COMB1	-	5:COMB1	-	5:COMB1
	12471	-ve	0.000	0.000	0.000	0.000	0.000	9.472
			-	-	-	-	-	5:COMB1
			0.000	-25.949	0.000	-2.299	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
15668	12471	+ve	0.000	0.000	0.000	0.000	0.000	10.103
			-	-	-	-	-	5:COMB1
			0.000	-12.640	0.000	-3.427	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
	12473	-ve	0.000	0.000	0.000	0.000	0.000	24.893
			-	-	-	-	-	5:COMB1
			0.000	-15.978	0.000	-3.427	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
15670	12473	+ve	0.000	0.000	0.000	0.000	0.000	24.957
			-	-	-	-	-	5:COMB1
			0.000	-7.017	0.000	-3.717	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
	11418	-ve	0.000	0.000	0.000	0.000	0.000	33.935
			-	-	-	-	-	5:COMB1
			0.000	-10.355	0.000	-3.717	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
15672	12475	+ve	0.000	4.288	0.000	0.000	0.000	1.669
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-0.133	0.000	0.000
			-	-	-	5:COMB1	-	-
	11418	-ve	0.000	3.089	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
			0.000	0.000	0.000	-0.133	0.000	-2.439
			-	-	-	5:COMB1	-	5:COMB1
15678	12480	+ve	0.000	0.000	0.000	0.000	0.000	1.364
			-	-	-	-	-	5:COMB1
			0.000	-0.500	0.000	-0.189	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
	12475	-ve	0.000	0.000	0.000	0.000	0.000	2.587
			-	-	-	-	-	5:COMB1
			0.000	-1.698	0.000	-0.189	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
15684	12485	+ve	0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
			0.000	-9.490	0.000	-0.245	0.000	-10.419
			-	5:COMB1	-	5:COMB1	-	5:COMB1
	12480	-ve	0.000	0.000	0.000	0.000	0.000	0.817
			-	-	-	-	-	5:COMB1
			0.000	-10.689	0.000	-0.245	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
15691	12486	+ve	0.000	7.613	0.000	0.000	0.000	31.706
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-0.501	0.000	0.000
			-	-	-	5:COMB1	-	-
	12488	-ve	0.000	4.016	0.000	0.000	0.000	25.230
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-0.501	0.000	0.000
			-	-	-	5:COMB1	-	-
15693	12488	+ve	0.000	15.082	0.000	0.578	0.000	24.846
			-	5:COMB1	-	5:COMB1	-	5:COMB1
			0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
	12490	-ve	0.000	11.486	0.000	0.578	0.000	10.053
			-	5:COMB1	-	5:COMB1	-	5:COMB1
			0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
15695	12490	+ve	0.000	20.019	0.000	1.077	0.000	9.252
			-	5:COMB1	-	5:COMB1	-	5:COMB1
			0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
	12492	-ve	0.000	16.423	0.000	1.077	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
			0.000	0.000	0.000	0.000	0.000	-11.038
			-	-	-	-	-	5:COMB1
15697	12492	+ve	0.000	20.395	0.000	1.138	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
			0.000	0.000	0.000	0.000	0.000	-12.062
			-	-	-	-	-	5:COMB1
	11417	-ve	0.000	16.798	0.000	1.138	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
			0.000	0.000	0.000	0.000	0.000	-32.772
			-	-	-	-	-	5:COMB1
15699	12494	+ve	0.000	0.000	0.000	4.225	0.000	3.477
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-10.000	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
	11417	-ve	0.000	0.000	0.000	4.225	0.000	15.783
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-13.397	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
15705	12499	+ve	0.000	0.000	0.000	4.076	0.000	0.000
			-	-	-	5:COMB1	-	-
			0.000	-7.895	0.000	0.000	0.000	-8.733
			-	5:COMB1	-	-	-	5:COMB1
	12494	-ve	0.000	0.000	0.000	4.076	0.000	1.360
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-11.292	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
15711	12504	+ve	0.000	8.501	0.000	2.663	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
			0.000	0.000	0.000	0.000	0.000	-1.691
			-	-	-	-	-	5:COMB1
	12499	-ve	0.000	5.104	0.000	2.663	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
			0.000	0.000	0.000	0.000	0.000	-8.848
			-	-	-	-	-	5:COMB1
15718	12505	+ve	0.000	1.504	0.000	0.000	0.000	7.573
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-0.371	0.000	0.000
			-	-	-	5:COMB1	-	-
	12529	-ve	0.000	0.379	0.000	0.000	0.000	6.589
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-0.371	0.000	0.000
			-	-	-	5:COMB1	-	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
15724	12513	+ve	0.000	0.000	0.000	0.379	0.000	3.293
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-3.254	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
	12505	-ve	0.000	0.000	0.000	0.379	0.000	7.282
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-4.379	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
15729	12518	+ve	0.000	0.000	0.000	1.283	0.000	0.000
			-	-	-	5:COMB1	-	-
			0.000	-7.551	0.000	0.000	0.000	-5.702
			-	5:COMB1	-	-	-	5:COMB1
	12513	-ve	0.000	0.000	0.000	1.283	0.000	2.778
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-8.676	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
15735	12519	+ve	0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
			0.000	-7.160	0.000	-2.281	0.000	-16.186
			-	5:COMB1	-	5:COMB1	-	5:COMB1
	12521	-ve	0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
			0.000	-10.345	0.000	-2.281	0.000	-7.552
			-	5:COMB1	-	5:COMB1	-	5:COMB1
15737	12521	+ve	0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
			0.000	-3.447	0.000	-0.779	0.000	-7.295
			-	5:COMB1	-	5:COMB1	-	5:COMB1
	13919	-ve	0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
			0.000	-6.632	0.000	-0.779	0.000	-2.323
			-	5:COMB1	-	5:COMB1	-	5:COMB1
15741	12525	+ve	0.000	8.945	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
			0.000	0.000	0.000	-1.127	0.000	-1.817
			-	-	-	5:COMB1	-	5:COMB1
	10620	-ve	0.000	7.820	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
			0.000	0.000	0.000	-1.127	0.000	-10.580
			-	-	-	5:COMB1	-	5:COMB1
15746	12529	+ve	0.000	6.729	0.000	0.000	0.000	6.242
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-0.811	0.000	0.000
			-	-	-	5:COMB1	-	-
	12525	-ve	0.000	5.604	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
			0.000	0.000	0.000	-0.811	0.000	-0.204
			-	-	-	5:COMB1	-	5:COMB1

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
15755	12530	+ve	0.000	1.183	0.000	2.171	0.000	3.580
			-	5:COMB1	-	5:COMB1	-	5:COMB1
			0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
	12533	-ve	0.000	0.000	0.000	2.171	0.000	3.360
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-0.714	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
15756	12532	+ve	0.000	0.000	0.000	0.943	0.000	4.950
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-2.036	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
	12541	-ve	0.000	0.000	0.000	0.943	0.000	8.454
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-4.276	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
15758	12533	+ve	0.000	4.594	0.000	4.348	0.000	3.100
			-	5:COMB1	-	5:COMB1	-	5:COMB1
			0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
	12535	-ve	0.000	2.697	0.000	4.348	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
			0.000	0.000	0.000	0.000	0.000	-0.327
			-	-	-	-	-	5:COMB1
15760	12535	+ve	0.000	5.510	0.000	5.392	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
			0.000	0.000	0.000	0.000	0.000	-1.278
			-	-	-	-	-	5:COMB1
	12537	-ve	0.000	3.613	0.000	5.392	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
			0.000	0.000	0.000	0.000	0.000	-5.567
			-	-	-	-	-	5:COMB1
15762	12537	+ve	0.000	5.032	0.000	5.353	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
			0.000	0.000	0.000	0.000	0.000	-6.057
			-	-	-	-	-	5:COMB1
	10460	-ve	0.000	3.134	0.000	5.353	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
			0.000	0.000	0.000	0.000	0.000	-9.895
			-	-	-	-	-	5:COMB1
15764	12539	+ve	0.000	3.309	0.000	0.000	0.000	0.071
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-8.548	0.000	0.000
			-	-	-	5:COMB1	-	-
	10460	-ve	0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
			0.000	-0.275	0.000	-8.548	0.000	-1.613
			-	5:COMB1	-	5:COMB1	-	5:COMB1

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
15766	12541	+ve	0.000	1.528	0.000	0.000	0.000	8.530
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-1.108	0.000	0.000
			-	-	-	5:COMB1	-	-
	12547	-ve	0.000	0.000	0.000	0.000	0.000	8.077
			-	-	-	-	-	5:COMB1
			0.000	-0.712	0.000	-1.108	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
15771	12545	+ve	0.000	1.678	0.000	0.000	0.000	0.098
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-5.644	0.000	0.000
			-	-	-	5:COMB1	-	-
	12539	-ve	0.000	0.000	0.000	0.000	0.000	0.225
			-	-	-	-	-	5:COMB1
			0.000	-1.907	0.000	-5.644	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
15773	12547	+ve	0.000	4.999	0.000	0.000	0.000	7.823
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-3.114	0.000	0.000
			-	-	-	5:COMB1	-	-
	12553	-ve	0.000	2.759	0.000	0.000	0.000	3.517
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-3.114	0.000	0.000
			-	-	-	5:COMB1	-	-
15778	12551	+ve	0.000	1.601	0.000	0.000	0.000	0.336
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-2.633	0.000	0.000
			-	-	-	5:COMB1	-	-
	12545	-ve	0.000	0.000	0.000	0.000	0.000	0.548
			-	-	-	-	-	5:COMB1
			0.000	-1.984	0.000	-2.633	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
15780	12553	+ve	0.000	5.620	0.000	0.000	0.000	2.641
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-3.852	0.000	0.000
			-	-	-	5:COMB1	-	-
	10456	-ve	0.000	3.380	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
			0.000	0.000	0.000	-3.852	0.000	-2.354
			-	-	-	5:COMB1	-	5:COMB1
15785	12557	+ve	0.000	1.289	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
			0.000	0.000	0.000	-2.125	0.000	-0.301
			-	-	-	5:COMB1	-	5:COMB1
	12551	-ve	0.000	0.000	0.000	0.000	0.000	0.257
			-	-	-	-	-	5:COMB1
			0.000	-2.295	0.000	-2.125	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
15787	12558	+ve	0.000	5.562	0.000	0.000	0.000	8.495
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-4.147	0.000	0.000
			-	-	-	5:COMB1	-	-
	12559	-ve	0.000	2.527	0.000	0.000	0.000	4.693
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-4.147	0.000	0.000
			-	-	-	5:COMB1	-	-
15789	12559	+ve	0.000	12.091	0.000	0.000	0.000	4.472
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-5.417	0.000	0.000
			-	-	-	5:COMB1	-	-
	12560	-ve	0.000	9.055	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
			0.000	0.000	0.000	-5.417	0.000	-5.467
			-	-	-	5:COMB1	-	5:COMB1
15791	12560	+ve	0.000	17.290	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
			0.000	0.000	0.000	-6.103	0.000	-5.591
			-	-	-	5:COMB1	-	5:COMB1
	12561	-ve	0.000	14.254	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
			0.000	0.000	0.000	-6.103	0.000	-20.417
			-	-	-	5:COMB1	-	5:COMB1
15793	12561	+ve	0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
			0.000	-16.008	0.000	-5.822	0.000	-20.602
			-	5:COMB1	-	5:COMB1	-	5:COMB1
	10574	-ve	0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
			0.000	-19.044	0.000	-5.822	0.000	-4.127
			-	5:COMB1	-	5:COMB1	-	5:COMB1
15796	12562	+ve	0.000	0.000	0.000	2.166	0.000	0.000
			-	-	-	5:COMB1	-	-
			0.000	-5.930	0.000	0.000	0.000	-16.710
			-	5:COMB1	-	-	-	5:COMB1
	12564	-ve	0.000	0.000	0.000	2.166	0.000	0.000
			-	-	-	5:COMB1	-	-
			0.000	-8.099	0.000	0.000	0.000	-9.169
			-	5:COMB1	-	-	-	5:COMB1
15798	12564	+ve	0.000	0.000	0.000	1.146	0.000	0.000
			-	-	-	5:COMB1	-	-
			0.000	-9.179	0.000	0.000	0.000	-6.967
			-	5:COMB1	-	-	-	5:COMB1
	12566	-ve	0.000	0.000	0.000	1.146	0.000	4.067
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-11.349	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
15800	12566	+ve	0.000	0.000	0.000	3.351	0.000	4.261
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-5.204	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
	12568	-ve	0.000	0.000	0.000	3.351	0.000	11.021
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-7.373	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
15802	12568	+ve	0.000	0.000	0.000	5.134	0.000	10.890
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-1.556	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
	12570	-ve	0.000	0.000	0.000	5.134	0.000	13.729
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-3.725	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
15804	12570	+ve	0.000	0.000	0.000	5.305	0.000	13.199
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-0.609	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
	10630	-ve	0.000	0.000	0.000	5.305	0.000	15.019
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-2.778	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
15806	12572	+ve	0.000	3.367	0.000	0.000	0.000	12.483
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-0.352	0.000	0.000
			-	-	-	5:COMB1	-	-
	10630	-ve	0.000	2.172	0.000	0.000	0.000	9.409
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-0.352	0.000	0.000
			-	-	-	5:COMB1	-	-
15813	12578	+ve	0.000	0.000	0.000	0.000	0.000	9.255
			-	-	-	-	-	5:COMB1
			0.000	-2.660	0.000	-0.443	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
	12572	-ve	0.000	0.000	0.000	0.000	0.000	12.870
			-	-	-	-	-	5:COMB1
			0.000	-3.855	0.000	-0.443	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
15820	12584	+ve	0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
			0.000	-12.411	0.000	-0.503	0.000	-6.117
			-	5:COMB1	-	5:COMB1	-	5:COMB1
	12578	-ve	0.000	0.000	0.000	0.000	0.000	8.324
			-	-	-	-	-	5:COMB1
			0.000	-13.606	0.000	-0.503	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
15827	12590	+ve	0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
			0.000	-8.421	0.000	-0.192	0.000	-21.712
			-	5:COMB1	-	5:COMB1	-	5:COMB1
	12584	-ve	0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
			0.000	-9.616	0.000	-0.192	0.000	-11.702
			-	5:COMB1	-	5:COMB1	-	5:COMB1
15829	12591	+ve	0.000	0.403	0.000	0.015	0.000	0.320
			-	5:COMB1	-	5:COMB1	-	5:COMB1
			0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
	12592	-ve	0.000	0.000	0.000	0.015	0.000	1.753
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-3.068	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
15831	12592	+ve	0.000	0.349	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
			0.000	0.000	0.000	-0.270	0.000	-1.117
			-	-	-	5:COMB1	-	5:COMB1
	12593	-ve	0.000	0.000	0.000	0.000	0.000	0.373
			-	-	-	-	-	5:COMB1
			0.000	-3.122	0.000	-0.270	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
15833	12593	+ve	0.000	0.910	0.000	0.014	0.000	0.105
			-	5:COMB1	-	5:COMB1	-	5:COMB1
			0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
	12594	-ve	0.000	0.000	0.000	0.014	0.000	0.992
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-2.561	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
15835	12594	+ve	0.000	2.141	0.000	0.386	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
			0.000	0.000	0.000	0.000	0.000	-0.686
			-	-	-	-	-	5:COMB1
	12595	-ve	0.000	0.000	0.000	0.386	0.000	0.000
			-	-	-	5:COMB1	-	-
			0.000	-1.330	0.000	0.000	0.000	-1.121
			-	5:COMB1	-	-	-	5:COMB1
15837	12595	+ve	0.000	12.070	0.000	0.615	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
			0.000	0.000	0.000	0.000	0.000	-0.801
			-	-	-	-	-	5:COMB1
	10573	-ve	0.000	8.599	0.000	0.615	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
			0.000	0.000	0.000	0.000	0.000	-11.911
			-	-	-	-	-	5:COMB1

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
15840	12596	+ve	0.000	2.677	0.000	0.000	0.000	14.773
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-4.862	0.000	0.000
			-	-	-	5:COMB1	-	-
	12598	-ve	0.000	0.277	0.000	0.000	0.000	13.017
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-4.862	0.000	0.000
			-	-	-	5:COMB1	-	-
15842	12598	+ve	0.000	4.662	0.000	0.000	0.000	12.941
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-4.488	0.000	0.000
			-	-	-	5:COMB1	-	-
	10631	-ve	0.000	2.262	0.000	0.000	0.000	8.824
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-4.488	0.000	0.000
			-	-	-	5:COMB1	-	-
15844	12600	+ve	0.000	5.010	0.000	1.494	0.000	8.799
			-	5:COMB1	-	5:COMB1	-	5:COMB1
			0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
	10631	-ve	0.000	3.790	0.000	1.494	0.000	3.811
			-	5:COMB1	-	5:COMB1	-	5:COMB1
			0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
15848	12603	+ve	0.000	0.470	0.000	2.210	0.000	9.352
			-	5:COMB1	-	5:COMB1	-	5:COMB1
			0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
	12600	-ve	0.000	0.000	0.000	2.210	0.000	9.511
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-0.750	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
15852	12606	+ve	0.000	0.000	0.000	2.919	0.000	2.340
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-5.370	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
	12603	-ve	0.000	0.000	0.000	2.919	0.000	9.119
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-6.590	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
15856	12609	+ve	0.000	0.000	0.000	2.216	0.000	0.000
			-	-	-	5:COMB1	-	-
			0.000	-10.001	0.000	0.000	0.000	-10.270
			-	5:COMB1	-	-	-	5:COMB1
	12606	-ve	0.000	0.000	0.000	2.216	0.000	1.758
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-11.221	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
15858	12610	+ve	0.000	0.000	0.000	2.205	0.000	0.000
			-	-	-	5:COMB1	-	-
			0.000	-10.210	0.000	0.000	0.000	-11.509
			-	5:COMB1	-	-	-	5:COMB1
	12611	-ve	0.000	0.000	0.000	2.205	0.000	2.925
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-14.052	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
15860	12611	+ve	0.000	0.000	0.000	1.979	0.000	8.955
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-16.654	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
	10575	-ve	0.000	0.000	0.000	1.979	0.000	31.058
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-20.497	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
15866	12613	+ve	0.000	3.400	0.000	4.205	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
			0.000	0.000	0.000	0.000	0.000	-1.934
			-	-	-	-	-	5:COMB1
	10498	-ve	0.000	1.431	0.000	4.205	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
			0.000	0.000	0.000	0.000	0.000	-4.291
			-	-	-	-	-	5:COMB1
15871	12617	+ve	0.000	3.446	0.000	0.903	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
			0.000	0.000	0.000	0.000	0.000	-0.879
			-	-	-	-	-	5:COMB1
	10574	-ve	0.000	0.000	0.000	0.903	0.000	0.000
			-	-	-	5:COMB1	-	-
			0.000	-0.268	0.000	0.000	0.000	-2.707
			-	5:COMB1	-	-	-	5:COMB1
15873	12618	+ve	0.000	0.000	0.000	0.000	0.000	4.783
			-	-	-	-	-	5:COMB1
			0.000	-1.132	0.000	-0.986	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
	12619	-ve	0.000	0.000	0.000	0.000	0.000	6.333
			-	-	-	-	-	5:COMB1
			0.000	-2.149	0.000	-0.986	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
15875	12619	+ve	0.000	3.585	0.000	0.000	0.000	6.453
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-0.360	0.000	0.000
			-	-	-	5:COMB1	-	-
	12620	-ve	0.000	2.569	0.000	0.000	0.000	3.546
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-0.360	0.000	0.000
			-	-	-	5:COMB1	-	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
15877	12620	+ve	0.000	10.296	0.000	0.764	0.000	2.968
			-	5:COMB1	-	5:COMB1	-	5:COMB1
			0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
	12621	-ve	0.000	9.279	0.000	0.764	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
			0.000	0.000	0.000	0.000	0.000	-6.279
			-	-	-	-	-	5:COMB1
15879	12621	+ve	0.000	0.000	0.000	0.755	0.000	0.000
			-	-	-	5:COMB1	-	-
			0.000	-4.486	0.000	0.000	0.000	-6.834
			-	5:COMB1	-	-	-	5:COMB1
	10557	-ve	0.000	0.000	0.000	0.755	0.000	0.000
			-	-	-	5:COMB1	-	-
			0.000	-5.502	0.000	0.000	0.000	-2.115
			-	5:COMB1	-	-	-	5:COMB1
15887	12627	+ve	0.000	4.821	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
			0.000	0.000	0.000	-0.077	0.000	-21.309
			-	-	-	5:COMB1	-	5:COMB1
	10573	-ve	0.000	3.583	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
			0.000	0.000	0.000	-0.077	0.000	-26.141
			-	-	-	5:COMB1	-	5:COMB1
15889	12628	+ve	0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
			0.000	-14.644	0.000	-4.637	0.000	-17.438
			-	5:COMB1	-	5:COMB1	-	5:COMB1
	12629	-ve	0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
			0.000	-15.799	0.000	-4.637	0.000	-1.104
			-	5:COMB1	-	5:COMB1	-	5:COMB1
15891	12629	+ve	0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
			0.000	-6.508	0.000	-3.871	0.000	-1.411
			-	5:COMB1	-	5:COMB1	-	5:COMB1
	12630	-ve	0.000	0.000	0.000	0.000	0.000	6.194
			-	-	-	-	-	5:COMB1
			0.000	-7.663	0.000	-3.871	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
15893	12630	+ve	0.000	0.408	0.000	0.000	0.000	6.617
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-2.376	0.000	0.000
			-	-	-	5:COMB1	-	-
	12631	-ve	0.000	0.000	0.000	0.000	0.000	6.800
			-	-	-	-	-	5:COMB1
			0.000	-0.748	0.000	-2.376	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
15895	12631	+ve	0.000	1.647	0.000	0.373	0.000	5.893
			-	5:COMB1	-	5:COMB1	-	5:COMB1
			0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
	12632	-ve	0.000	0.492	0.000	0.373	0.000	4.745
			-	5:COMB1	-	5:COMB1	-	5:COMB1
			0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
15897	12632	+ve	0.000	3.059	0.000	2.232	0.000	4.583
			-	5:COMB1	-	5:COMB1	-	5:COMB1
			0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
	10556	-ve	0.000	1.904	0.000	2.232	0.000	1.920
			-	5:COMB1	-	5:COMB1	-	5:COMB1
			0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
15902	12635	+ve	0.000	11.176	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
			0.000	0.000	0.000	-1.208	0.000	-13.021
			-	-	-	5:COMB1	-	5:COMB1
	10575	-ve	0.000	10.001	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
			0.000	0.000	0.000	-1.208	0.000	-24.574
			-	-	-	5:COMB1	-	5:COMB1
15904	12636	+ve	0.000	0.000	0.000	2.006	0.000	1.625
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-0.344	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
	12637	-ve	0.000	0.000	0.000	2.006	0.000	2.795
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-1.624	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
15906	12637	+ve	0.000	0.000	0.000	3.703	0.000	4.694
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-0.435	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
	10555	-ve	0.000	0.000	0.000	3.703	0.000	5.972
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-1.715	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
15915	12638	+ve	0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
			0.000	-16.058	0.000	-3.700	0.000	-33.107
			-	5:COMB1	-	5:COMB1	-	5:COMB1
	12641	-ve	0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
			0.000	-18.427	0.000	-3.700	0.000	-12.869
			-	5:COMB1	-	5:COMB1	-	5:COMB1

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
15916	12640	+ve	0.000	0.000	0.000	0.000	0.000	2.762
			-	-	-	-	-	5:COMB1
			0.000	-0.719	0.000	-23.987	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
	10469	-ve	0.000	0.000	0.000	0.000	0.000	5.415
			-	-	-	-	-	5:COMB1
			0.000	-4.201	0.000	-23.987	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
15918	12641	+ve	0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
			0.000	-17.865	0.000	-6.065	0.000	-12.010
			-	5:COMB1	-	5:COMB1	-	5:COMB1
	12643	-ve	0.000	0.000	0.000	0.000	0.000	10.348
			-	-	-	-	-	5:COMB1
			0.000	-20.234	0.000	-6.065	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
15920	12643	+ve	0.000	0.000	0.000	0.000	0.000	11.283
			-	-	-	-	-	5:COMB1
			0.000	-15.319	0.000	-6.021	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
	10468	-ve	0.000	0.000	0.000	0.000	0.000	30.656
			-	-	-	-	-	5:COMB1
			0.000	-17.688	0.000	-6.021	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
15922	12645	+ve	0.000	10.411	0.000	2.291	0.000	9.215
			-	5:COMB1	-	5:COMB1	-	5:COMB1
			0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
	10468	-ve	0.000	9.250	0.000	2.291	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
			0.000	0.000	0.000	0.000	0.000	-1.389
			-	-	-	-	-	5:COMB1
15924	12647	+ve	0.000	2.956	0.000	0.000	0.000	0.123
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-20.645	0.000	0.000
			-	-	-	5:COMB1	-	-
	12640	-ve	0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
			0.000	-0.526	0.000	-20.645	0.000	-1.187
			-	5:COMB1	-	5:COMB1	-	5:COMB1
15928	12650	+ve	0.000	7.639	0.000	1.837	0.000	18.406
			-	5:COMB1	-	5:COMB1	-	5:COMB1
			0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
	12645	-ve	0.000	6.478	0.000	1.837	0.000	10.792
			-	5:COMB1	-	5:COMB1	-	5:COMB1
			0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
15930	12652	+ve	0.000	1.445	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
			0.000	0.000	0.000	-12.520	0.000	-0.210
			-	-	-	5:COMB1	-	5:COMB1
	12647	-ve	0.000	0.000	0.000	0.000	0.000	0.109
			-	-	-	-	-	5:COMB1
			0.000	-2.037	0.000	-12.520	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
15934	12655	+ve	0.000	2.026	0.000	0.307	0.000	20.399
			-	5:COMB1	-	5:COMB1	-	5:COMB1
			0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
	12650	-ve	0.000	0.865	0.000	0.307	0.000	18.839
			-	5:COMB1	-	5:COMB1	-	5:COMB1
			0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
15936	12657	+ve	0.000	1.303	0.000	0.000	0.000	0.333
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-3.299	0.000	0.000
			-	-	-	5:COMB1	-	-
	12652	-ve	0.000	0.000	0.000	0.000	0.000	0.806
			-	-	-	-	-	5:COMB1
			0.000	-2.179	0.000	-3.299	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
15940	12660	+ve	0.000	0.000	0.000	0.000	0.000	15.808
			-	-	-	-	-	5:COMB1
			0.000	-3.537	0.000	-1.809	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
	12655	-ve	0.000	0.000	0.000	0.000	0.000	20.249
			-	-	-	-	-	5:COMB1
			0.000	-4.698	0.000	-1.809	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
15942	12662	+ve	0.000	1.719	0.000	1.733	0.000	0.370
			-	5:COMB1	-	5:COMB1	-	5:COMB1
			0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
	12657	-ve	0.000	0.000	0.000	1.733	0.000	0.394
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-1.764	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
15946	12665	+ve	0.000	0.000	0.000	0.000	0.000	4.062
			-	-	-	-	-	5:COMB1
			0.000	-9.525	0.000	-3.592	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
	12660	-ve	0.000	0.000	0.000	0.000	0.000	14.962
			-	-	-	-	-	5:COMB1
			0.000	-10.686	0.000	-3.592	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
15948	12667	+ve	0.000	2.154	0.000	10.533	0.000	0.816
			-	5:COMB1	-	5:COMB1	-	5:COMB1
			0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
	12662	-ve	0.000	0.000	0.000	10.533	0.000	0.371
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-1.329	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
15952	12670	+ve	0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
			0.000	-16.153	0.000	-4.338	0.000	-15.582
			-	5:COMB1	-	5:COMB1	-	5:COMB1
	12665	-ve	0.000	0.000	0.000	0.000	0.000	2.468
			-	-	-	-	-	5:COMB1
			0.000	-17.314	0.000	-4.338	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
15954	12671	+ve	0.000	0.000	0.000	7.557	0.000	0.000
			-	-	-	5:COMB1	-	-
			0.000	-51.863	0.000	0.000	0.000	-120.677
			-	5:COMB1	-	-	-	5:COMB1
	12672	-ve	0.000	0.000	0.000	7.557	0.000	0.000
			-	-	-	5:COMB1	-	-
			0.000	-55.653	0.000	0.000	0.000	-57.589
			-	5:COMB1	-	-	-	5:COMB1
15956	12672	+ve	0.000	0.000	0.000	9.224	0.000	0.000
			-	-	-	5:COMB1	-	-
			0.000	-68.937	0.000	0.000	0.000	-48.278
			-	5:COMB1	-	-	-	5:COMB1
	12673	-ve	0.000	0.000	0.000	9.224	0.000	34.843
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-72.726	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
15958	12673	+ve	0.000	0.000	0.000	10.799	0.000	36.958
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-58.426	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
	10467	-ve	0.000	0.000	0.000	10.799	0.000	107.748
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-62.216	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
15961	12674	+ve	0.000	0.000	0.000	0.000	0.000	39.978
			-	-	-	-	-	5:COMB1
			0.000	-0.775	0.000	-2.079	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
	12676	-ve	0.000	0.000	0.000	0.000	0.000	42.048
			-	-	-	-	-	5:COMB1
			0.000	-2.992	0.000	-2.079	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
15963	12676	+ve	0.000	4.168	0.000	0.589	0.000	42.071
			-	5:COMB1	-	5:COMB1	-	5:COMB1
			0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
	12678	-ve	0.000	1.950	0.000	0.589	0.000	38.710
			-	5:COMB1	-	5:COMB1	-	5:COMB1
			0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
15965	12678	+ve	0.000	7.692	0.000	2.412	0.000	38.341
			-	5:COMB1	-	5:COMB1	-	5:COMB1
			0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
	10470	-ve	0.000	5.474	0.000	2.412	0.000	31.108
			-	5:COMB1	-	5:COMB1	-	5:COMB1
			0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
15967	12680	+ve	0.000	11.009	0.000	0.000	0.000	9.156
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-1.555	0.000	0.000
			-	-	-	5:COMB1	-	-
	10470	-ve	0.000	9.846	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
			0.000	0.000	0.000	-1.555	0.000	-2.114
			-	-	-	5:COMB1	-	5:COMB1
15972	12684	+ve	0.000	8.465	0.000	0.000	0.000	19.370
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-1.133	0.000	0.000
			-	-	-	5:COMB1	-	-
	12680	-ve	0.000	7.301	0.000	0.000	0.000	10.851
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-1.133	0.000	0.000
			-	-	-	5:COMB1	-	-
15977	12688	+ve	0.000	2.576	0.000	0.165	0.000	22.056
			-	5:COMB1	-	5:COMB1	-	5:COMB1
			0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
	12684	-ve	0.000	1.413	0.000	0.165	0.000	19.901
			-	5:COMB1	-	5:COMB1	-	5:COMB1
			0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
15982	12692	+ve	0.000	0.000	0.000	1.992	0.000	17.507
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-3.519	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
	12688	-ve	0.000	0.000	0.000	1.992	0.000	21.939
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-4.683	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
15987	12696	+ve	0.000	0.000	0.000	3.554	0.000	5.140
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-10.060	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
	12692	-ve	0.000	0.000	0.000	3.554	0.000	16.642
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-11.224	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
15992	12700	+ve	0.000	0.000	0.000	4.228	0.000	0.000
			-	-	-	5:COMB1	-	-
			0.000	-17.252	0.000	0.000	0.000	-15.808
			-	5:COMB1	-	-	-	5:COMB1
	12696	-ve	0.000	0.000	0.000	4.228	0.000	3.465
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-18.415	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
15994	12701	+ve	0.000	0.000	0.000	0.670	0.000	138.663
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-3.506	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
	12702	-ve	0.000	0.000	0.000	0.670	0.000	144.061
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-6.867	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
15996	12702	+ve	0.000	9.582	0.000	0.000	0.000	143.891
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-1.213	0.000	0.000
			-	-	-	5:COMB1	-	-
	12703	-ve	0.000	6.221	0.000	0.000	0.000	135.666
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-1.213	0.000	0.000
			-	-	-	5:COMB1	-	-
15998	12703	+ve	0.000	21.550	0.000	0.000	0.000	134.964
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-2.022	0.000	0.000
			-	-	-	5:COMB1	-	-
	10437	-ve	0.000	18.189	0.000	0.000	0.000	114.283
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-2.022	0.000	0.000
			-	-	-	5:COMB1	-	-
16001	12704	+ve	0.000	22.276	0.000	5.915	0.000	6.573
			-	5:COMB1	-	5:COMB1	-	5:COMB1
			0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
	12706	-ve	0.000	19.898	0.000	5.915	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
			0.000	0.000	0.000	0.000	0.000	-18.270
			-	-	-	-	-	5:COMB1

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
16003	12706	+ve	0.000	21.691	0.000	4.760	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
			0.000	0.000	0.000	0.000	0.000	-19.245
			-	-	-	-	-	5:COMB1
	12708	-ve	0.000	19.313	0.000	4.760	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
			0.000	0.000	0.000	0.000	0.000	-43.399
			-	-	-	-	-	5:COMB1
16005	12708	+ve	0.000	19.819	0.000	3.571	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
			0.000	0.000	0.000	0.000	0.000	-43.967
			-	-	-	-	-	5:COMB1
	10634	-ve	0.000	17.441	0.000	3.571	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
			0.000	0.000	0.000	0.000	0.000	-65.918
			-	-	-	-	-	5:COMB1
16007	12710	+ve	0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
			0.000	-0.353	0.000	-1.444	0.000	-2.242
			-	5:COMB1	-	5:COMB1	-	5:COMB1
	12714	-ve	0.000	0.000	0.000	0.000	0.000	0.017
			-	-	-	-	-	5:COMB1
			0.000	-3.836	0.000	-1.444	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
16012	12714	+ve	0.000	2.196	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
			0.000	0.000	0.000	-1.347	0.000	-0.035
			-	-	-	5:COMB1	-	5:COMB1
	12718	-ve	0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
			0.000	-1.287	0.000	-1.347	0.000	-0.525
			-	5:COMB1	-	5:COMB1	-	5:COMB1
16017	12718	+ve	0.000	2.501	0.000	0.000	0.000	1.074
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-1.740	0.000	0.000
			-	-	-	5:COMB1	-	-
	12722	-ve	0.000	0.000	0.000	0.000	0.000	0.255
			-	-	-	-	-	5:COMB1
			0.000	-0.982	0.000	-1.740	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
16022	12722	+ve	0.000	2.021	0.000	0.000	0.000	0.493
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-2.357	0.000	0.000
			-	-	-	5:COMB1	-	-
	12726	-ve	0.000	0.000	0.000	0.000	0.000	0.192
			-	-	-	-	-	5:COMB1
			0.000	-1.462	0.000	-2.357	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
16027	12726	+ve	0.000	1.550	0.000	0.000	0.000	0.554
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-4.760	0.000	0.000
			-	-	-	5:COMB1	-	-
	12730	-ve	0.000	0.000	0.000	0.000	0.000	0.760
			-	-	-	-	-	5:COMB1
			0.000	-1.933	0.000	-4.760	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
16032	12730	+ve	0.000	0.000	0.000	0.000	0.000	2.883
			-	-	-	-	-	5:COMB1
			0.000	-10.381	0.000	-6.520	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
	10579	-ve	0.000	0.000	0.000	0.000	0.000	15.959
			-	-	-	-	-	5:COMB1
			0.000	-13.864	0.000	-6.520	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
16034	12731	+ve	0.000	76.819	0.000	0.000	0.000	39.964
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-8.010	0.000	0.000
			-	-	-	5:COMB1	-	-
	12732	-ve	0.000	72.827	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
			0.000	0.000	0.000	-8.010	0.000	-52.525
			-	-	-	5:COMB1	-	5:COMB1
16036	12732	+ve	0.000	61.387	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
			0.000	0.000	0.000	-6.943	0.000	-62.615
			-	-	-	5:COMB1	-	5:COMB1
	12733	-ve	0.000	57.396	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
			0.000	0.000	0.000	-6.943	0.000	-136.031
			-	-	-	5:COMB1	-	5:COMB1
16038	12733	+ve	0.000	37.840	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
			0.000	0.000	0.000	-4.894	0.000	-137.195
			-	-	-	5:COMB1	-	5:COMB1
	10579	-ve	0.000	33.849	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
			0.000	0.000	0.000	-4.894	0.000	-181.503
			-	-	-	5:COMB1	-	5:COMB1
16041	12734	+ve	0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
			0.000	-19.946	0.000	-4.347	0.000	-44.296
			-	5:COMB1	-	5:COMB1	-	5:COMB1
	12736	-ve	0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
			0.000	-22.311	0.000	-4.347	0.000	-19.537
			-	5:COMB1	-	5:COMB1	-	5:COMB1

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
16043	12736	+ve	0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
			0.000	-20.553	0.000	-5.531	0.000	-18.572
			-	5:COMB1	-	5:COMB1	-	5:COMB1
	12738	-ve	0.000	0.000	0.000	0.000	0.000	6.898
			-	-	-	-	-	5:COMB1
			0.000	-22.918	0.000	-5.531	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
16045	12738	+ve	0.000	0.000	0.000	0.000	0.000	7.874
			-	-	-	-	-	5:COMB1
			0.000	-17.600	0.000	-4.933	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
	10481	-ve	0.000	0.000	0.000	0.000	0.000	29.885
			-	-	-	-	-	5:COMB1
			0.000	-19.965	0.000	-4.933	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
16047	12740	+ve	0.000	11.480	0.000	1.704	0.000	10.127
			-	5:COMB1	-	5:COMB1	-	5:COMB1
			0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
	10481	-ve	0.000	10.319	0.000	1.704	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
			0.000	0.000	0.000	0.000	0.000	-1.628
			-	-	-	-	-	5:COMB1
16052	12744	+ve	0.000	8.932	0.000	1.100	0.000	20.857
			-	5:COMB1	-	5:COMB1	-	5:COMB1
			0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
	12740	-ve	0.000	7.771	0.000	1.100	0.000	11.849
			-	5:COMB1	-	5:COMB1	-	5:COMB1
			0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
16057	12748	+ve	0.000	3.127	0.000	0.000	0.000	24.147
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-0.420	0.000	0.000
			-	-	-	5:COMB1	-	-
	12744	-ve	0.000	1.966	0.000	0.000	0.000	21.400
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-0.420	0.000	0.000
			-	-	-	5:COMB1	-	-
16062	12752	+ve	0.000	0.000	0.000	0.000	0.000	20.430
			-	-	-	-	-	5:COMB1
			0.000	-2.780	0.000	-2.493	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
	12748	-ve	0.000	0.000	0.000	0.000	0.000	24.055
			-	-	-	-	-	5:COMB1
			0.000	-3.941	0.000	-2.493	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
16067	12756	+ve	0.000	0.000	0.000	0.000	0.000	9.059
			-	-	-	-	-	5:COMB1
			0.000	-9.213	0.000	-4.235	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
	12752	-ve	0.000	0.000	0.000	0.000	0.000	19.622
			-	-	-	-	-	5:COMB1
			0.000	-10.374	0.000	-4.235	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
16072	12760	+ve	0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
			0.000	-16.143	0.000	-4.964	0.000	-10.568
			-	5:COMB1	-	5:COMB1	-	5:COMB1
	12756	-ve	0.000	0.000	0.000	0.000	0.000	7.472
			-	-	-	-	-	5:COMB1
			0.000	-17.304	0.000	-4.964	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
16074	12761	+ve	0.000	0.000	0.000	24.785	0.000	0.000
			-	-	-	5:COMB1	-	-
			0.000	-51.840	0.000	0.000	0.000	-128.702
			-	5:COMB1	-	-	-	5:COMB1
	12762	-ve	0.000	0.000	0.000	24.785	0.000	0.000
			-	-	-	5:COMB1	-	-
			0.000	-55.624	0.000	0.000	0.000	-65.738
			-	5:COMB1	-	-	-	5:COMB1
16076	12762	+ve	0.000	0.000	0.000	25.601	0.000	0.000
			-	-	-	5:COMB1	-	-
			0.000	-59.607	0.000	0.000	0.000	-60.067
			-	5:COMB1	-	-	-	5:COMB1
	12763	-ve	0.000	0.000	0.000	25.601	0.000	12.001
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-63.391	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
16078	12763	+ve	0.000	0.000	0.000	24.523	0.000	13.608
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-52.398	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
	10580	-ve	0.000	0.000	0.000	24.523	0.000	77.226
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-56.182	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
16081	12764	+ve	0.000	0.000	0.000	0.000	0.000	39.940
			-	-	-	-	-	5:COMB1
			0.000	-2.011	0.000	-0.686	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
	12766	-ve	0.000	0.000	0.000	0.000	0.000	43.378
			-	-	-	-	-	5:COMB1
			0.000	-4.233	0.000	-0.686	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
16083	12766	+ve	0.000	2.998	0.000	1.956	0.000	43.360
			-	5:COMB1	-	5:COMB1	-	5:COMB1
			0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
	12768	-ve	0.000	0.776	0.000	1.956	0.000	41.282
			-	5:COMB1	-	5:COMB1	-	5:COMB1
			0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
16085	12768	+ve	0.000	6.612	0.000	3.754	0.000	40.844
			-	5:COMB1	-	5:COMB1	-	5:COMB1
			0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
	10492	-ve	0.000	4.389	0.000	3.754	0.000	34.787
			-	5:COMB1	-	5:COMB1	-	5:COMB1
			0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
16087	12770	+ve	0.000	11.048	0.000	0.000	0.000	10.114
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-2.128	0.000	0.000
			-	-	-	5:COMB1	-	-
	10492	-ve	0.000	9.887	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
			0.000	0.000	0.000	-2.128	0.000	-1.176
			-	-	-	5:COMB1	-	5:COMB1
16092	12774	+ve	0.000	8.381	0.000	0.000	0.000	20.176
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-1.574	0.000	0.000
			-	-	-	5:COMB1	-	-
	12770	-ve	0.000	7.220	0.000	0.000	0.000	11.762
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-1.574	0.000	0.000
			-	-	-	5:COMB1	-	-
16097	12778	+ve	0.000	2.844	0.000	0.103	0.000	23.118
			-	5:COMB1	-	5:COMB1	-	5:COMB1
			0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
	12774	-ve	0.000	1.683	0.000	0.103	0.000	20.676
			-	5:COMB1	-	5:COMB1	-	5:COMB1
			0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
16102	12782	+ve	0.000	0.000	0.000	2.418	0.000	19.526
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-2.669	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
	12778	-ve	0.000	0.000	0.000	2.418	0.000	23.031
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-3.830	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
16107	12786	+ve	0.000	0.000	0.000	4.393	0.000	8.743
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-8.684	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
	12782	-ve	0.000	0.000	0.000	4.393	0.000	18.735
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-9.845	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
16112	12790	+ve	0.000	0.000	0.000	5.278	0.000	0.000
			-	-	-	5:COMB1	-	-
			0.000	-15.300	0.000	0.000	0.000	-9.958
			-	5:COMB1	-	-	-	5:COMB1
	12786	-ve	0.000	0.000	0.000	5.278	0.000	7.171
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-16.461	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
16114	12791	+ve	0.000	0.000	0.000	2.712	0.000	101.736
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-5.650	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
	12792	-ve	0.000	0.000	0.000	2.712	0.000	109.916
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-9.206	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
16116	12792	+ve	0.000	7.682	0.000	0.000	0.000	109.925
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-1.295	0.000	0.000
			-	-	-	5:COMB1	-	-
	12793	-ve	0.000	4.126	0.000	0.000	0.000	103.423
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-1.295	0.000	0.000
			-	-	-	5:COMB1	-	-
16118	12793	+ve	0.000	17.780	0.000	0.000	0.000	102.706
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-5.460	0.000	0.000
			-	-	-	5:COMB1	-	-
	10581	-ve	0.000	14.224	0.000	0.000	0.000	85.084
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-5.460	0.000	0.000
			-	-	-	5:COMB1	-	-
16121	12794	+ve	0.000	21.095	0.000	5.689	0.000	10.869
			-	5:COMB1	-	5:COMB1	-	5:COMB1
			0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
	12796	-ve	0.000	18.722	0.000	5.689	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
			0.000	0.000	0.000	0.000	0.000	-12.542
			-	-	-	-	-	5:COMB1

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
16123	12796	+ve	0.000	19.264	0.000	3.280	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
			0.000	0.000	0.000	0.000	0.000	-13.409
			-	-	-	-	-	5:COMB1
	12798	-ve	0.000	16.891	0.000	3.280	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
			0.000	0.000	0.000	0.000	0.000	-34.669
			-	-	-	-	-	5:COMB1
16125	12798	+ve	0.000	15.765	0.000	0.757	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
			0.000	0.000	0.000	0.000	0.000	-34.935
			-	-	-	-	-	5:COMB1
	10454	-ve	0.000	13.392	0.000	0.757	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
			0.000	0.000	0.000	0.000	0.000	-52.078
			-	-	-	-	-	5:COMB1
16127	12800	+ve	0.000	0.000	0.000	24.125	0.000	3.325
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-2.998	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
	10454	-ve	0.000	0.000	0.000	24.125	0.000	8.437
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-6.480	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
16132	12804	+ve	0.000	2.979	0.000	20.677	0.000	0.139
			-	5:COMB1	-	5:COMB1	-	5:COMB1
			0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
	12800	-ve	0.000	0.000	0.000	20.677	0.000	0.000
			-	-	-	5:COMB1	-	-
			0.000	-0.504	0.000	0.000	0.000	-1.196
			-	5:COMB1	-	-	-	5:COMB1
16137	12808	+ve	0.000	1.520	0.000	12.706	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
			0.000	0.000	0.000	0.000	0.000	-0.115
			-	-	-	-	-	5:COMB1
	12804	-ve	0.000	0.000	0.000	12.706	0.000	0.123
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-1.963	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
16142	12812	+ve	0.000	1.369	0.000	3.134	0.000	0.294
			-	5:COMB1	-	5:COMB1	-	5:COMB1
			0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
	12808	-ve	0.000	0.000	0.000	3.134	0.000	0.696
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-2.114	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
16147	12816	+ve	0.000	1.246	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
			0.000	0.000	0.000	-1.561	0.000	-0.227
			-	-	-	5:COMB1	-	5:COMB1
	12812	-ve	0.000	0.000	0.000	0.000	0.000	0.306
			-	-	-	-	-	5:COMB1
			0.000	-2.236	0.000	-1.561	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
16152	12820	+ve	0.000	1.657	0.000	0.000	0.000	0.864
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-9.911	0.000	0.000
			-	-	-	5:COMB1	-	-
	12816	-ve	0.000	0.000	0.000	0.000	0.000	0.955
			-	-	-	-	-	5:COMB1
			0.000	-1.826	0.000	-9.911	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
16154	12821	+ve	0.000	51.478	0.000	0.000	0.000	29.414
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-27.575	0.000	0.000
			-	-	-	5:COMB1	-	-
	12822	-ve	0.000	47.664	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
			0.000	0.000	0.000	-27.575	0.000	-29.137
			-	-	-	5:COMB1	-	5:COMB1
16156	12822	+ve	0.000	38.482	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
			0.000	0.000	0.000	-24.496	0.000	-37.313
			-	-	-	5:COMB1	-	5:COMB1
	12823	-ve	0.000	34.668	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
			0.000	0.000	0.000	-24.496	0.000	-80.515
			-	-	-	5:COMB1	-	5:COMB1
16158	12823	+ve	0.000	18.186	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
			0.000	0.000	0.000	-19.787	0.000	-81.474
			-	-	-	5:COMB1	-	5:COMB1
	10572	-ve	0.000	14.372	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
			0.000	0.000	0.000	-19.787	0.000	-100.702
			-	-	-	5:COMB1	-	5:COMB1
16167	12826	+ve	0.000	13.977	0.000	1.028	0.000	14.223
			-	5:COMB1	-	5:COMB1	-	5:COMB1
			0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
	10464	-ve	0.000	10.388	0.000	1.028	0.000	0.683
			-	5:COMB1	-	5:COMB1	-	5:COMB1
			0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
16175	12833	+ve	0.000	20.682	0.000	1.055	0.000	21.725
			-	5:COMB1	-	5:COMB1	-	5:COMB1
			0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
	10503	-ve	0.000	17.090	0.000	1.055	0.000	0.711
			-	5:COMB1	-	5:COMB1	-	5:COMB1
			0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
16177	12835	+ve	0.000	7.628	0.000	0.012	0.000	21.801
			-	5:COMB1	-	5:COMB1	-	5:COMB1
			0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
	12826	-ve	0.000	4.039	0.000	0.012	0.000	15.318
			-	5:COMB1	-	5:COMB1	-	5:COMB1
			0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
16182	12839	+ve	0.000	11.430	0.000	1.755	0.000	34.151
			-	5:COMB1	-	5:COMB1	-	5:COMB1
			0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
	12833	-ve	0.000	7.838	0.000	1.755	0.000	23.432
			-	5:COMB1	-	5:COMB1	-	5:COMB1
			0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
16184	12841	+ve	0.000	0.000	0.000	0.000	0.000	17.148
			-	-	-	-	-	5:COMB1
			0.000	-2.365	0.000	-3.322	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
	12835	-ve	0.000	0.000	0.000	0.000	0.000	21.772
			-	-	-	-	-	5:COMB1
			0.000	-5.955	0.000	-3.322	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
16189	12845	+ve	0.000	0.000	0.000	1.314	0.000	27.377
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-4.197	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
	12839	-ve	0.000	0.000	0.000	1.314	0.000	34.046
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-7.790	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
16191	12847	+ve	0.000	0.000	0.000	0.000	0.000	2.622
			-	-	-	-	-	5:COMB1
			0.000	-10.928	0.000	-6.200	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
	12841	-ve	0.000	0.000	0.000	0.000	0.000	16.762
			-	-	-	-	-	5:COMB1
			0.000	-14.517	0.000	-6.200	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
16196	12851	+ve	0.000	0.000	0.000	0.562	0.000	5.017
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-17.722	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
	12845	-ve	0.000	0.000	0.000	0.562	0.000	26.734
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-21.315	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
16198	12852	+ve	0.000	0.359	0.000	0.712	0.000	8.581
			-	5:COMB1	-	5:COMB1	-	5:COMB1
			0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
	12853	-ve	0.000	0.000	0.000	0.712	0.000	9.968
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-3.014	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
16200	12853	+ve	0.000	12.301	0.000	0.841	0.000	9.872
			-	5:COMB1	-	5:COMB1	-	5:COMB1
			0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
	12854	-ve	0.000	8.928	0.000	0.841	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
			0.000	0.000	0.000	0.000	0.000	-1.215
			-	-	-	-	-	5:COMB1
16202	12854	+ve	0.000	24.135	0.000	1.090	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
			0.000	0.000	0.000	0.000	0.000	-1.889
			-	-	-	-	-	5:COMB1
	12855	-ve	0.000	20.762	0.000	1.090	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
			0.000	0.000	0.000	0.000	0.000	-25.338
			-	-	-	-	-	5:COMB1
16204	12855	+ve	0.000	28.878	0.000	1.398	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
			0.000	0.000	0.000	0.000	0.000	-26.642
			-	-	-	-	-	5:COMB1
	10478	-ve	0.000	25.505	0.000	1.398	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
			0.000	0.000	0.000	0.000	0.000	-55.044
			-	-	-	-	-	5:COMB1
16211	12864	+ve	0.000	14.104	0.000	0.000	0.000	16.198
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-0.424	0.000	0.000
			-	-	-	5:COMB1	-	-
	11311	-ve	0.000	12.907	0.000	0.000	0.000	1.171
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-0.424	0.000	0.000
			-	-	-	5:COMB1	-	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
16217	12869	+ve	0.000	7.347	0.000	0.000	0.000	25.304
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-0.234	0.000	0.000
			-	-	-	5:COMB1	-	-
	12864	-ve	0.000	6.149	0.000	0.000	0.000	17.796
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-0.234	0.000	0.000
			-	-	-	5:COMB1	-	-
16223	12874	+ve	0.000	0.000	0.000	0.557	0.000	23.263
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-1.450	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
	12869	-ve	0.000	0.000	0.000	0.557	0.000	25.543
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-2.647	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
16229	12879	+ve	0.000	0.000	0.000	0.797	0.000	10.613
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-10.133	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
	12874	-ve	0.000	0.000	0.000	0.797	0.000	22.554
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-11.331	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
16231	12880	+ve	0.000	0.000	0.000	13.343	0.000	0.000
			-	-	-	5:COMB1	-	-
			0.000	-30.563	0.000	0.000	0.000	-26.238
			-	5:COMB1	-	-	-	5:COMB1
	12881	-ve	0.000	0.000	0.000	13.343	0.000	5.580
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-33.758	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
16233	12881	+ve	0.000	0.000	0.000	12.669	0.000	6.640
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-21.186	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
	12882	-ve	0.000	0.000	0.000	12.669	0.000	29.179
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-24.380	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
16235	12882	+ve	0.000	0.000	0.000	11.316	0.000	29.743
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-11.342	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
	12883	-ve	0.000	0.000	0.000	11.316	0.000	42.545
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-14.537	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
16237	12883	+ve	0.000	0.000	0.000	9.636	0.000	42.676
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-5.443	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
	11309	-ve	0.000	0.000	0.000	9.636	0.000	49.641
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-8.637	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
16241	12886	+ve	0.000	4.284	0.000	2.761	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
			0.000	0.000	0.000	0.000	0.000	-0.043
			-	-	-	-	-	5:COMB1
	10486	-ve	0.000	0.764	0.000	2.761	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
			0.000	0.000	0.000	0.000	0.000	-2.795
			-	-	-	-	-	5:COMB1
16247	12891	+ve	0.000	1.895	0.000	0.271	0.000	0.084
			-	5:COMB1	-	5:COMB1	-	5:COMB1
			0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
	10483	-ve	0.000	0.000	0.000	0.271	0.000	0.000
			-	-	-	5:COMB1	-	-
			0.000	-1.692	0.000	0.000	0.000	-0.030
			-	5:COMB1	-	-	-	5:COMB1
16249	12893	+ve	0.000	1.979	0.000	1.871	0.000	0.362
			-	5:COMB1	-	5:COMB1	-	5:COMB1
			0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
	12886	-ve	0.000	0.000	0.000	1.871	0.000	0.123
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-1.541	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
16253	12896	+ve	0.000	1.851	0.000	0.603	0.000	0.634
			-	5:COMB1	-	5:COMB1	-	5:COMB1
			0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
	12891	-ve	0.000	0.000	0.000	0.603	0.000	0.571
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-1.736	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
16255	12898	+ve	0.000	1.823	0.000	0.883	0.000	0.309
			-	5:COMB1	-	5:COMB1	-	5:COMB1
			0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
	12893	-ve	0.000	0.000	0.000	0.883	0.000	0.240
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-1.697	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
16259	12901	+ve	0.000	2.006	0.000	0.858	0.000	0.301
			-	5:COMB1	-	5:COMB1	-	5:COMB1
			0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
	12896	-ve	0.000	0.000	0.000	0.858	0.000	0.065
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-1.581	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
16261	12903	+ve	0.000	1.767	0.000	0.470	0.000	0.325
			-	5:COMB1	-	5:COMB1	-	5:COMB1
			0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
	12898	-ve	0.000	0.000	0.000	0.470	0.000	0.317
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-1.753	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
16265	12906	+ve	0.000	1.684	0.000	0.637	0.000	0.168
			-	5:COMB1	-	5:COMB1	-	5:COMB1
			0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
	12901	-ve	0.000	0.000	0.000	0.637	0.000	0.290
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-1.903	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
16267	12907	+ve	0.000	1.570	0.000	0.000	0.000	0.315
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-0.095	0.000	0.000
			-	-	-	5:COMB1	-	-
	12908	-ve	0.000	0.000	0.000	0.000	0.000	0.281
			-	-	-	-	-	5:COMB1
			0.000	-1.499	0.000	-0.095	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
16269	12908	+ve	0.000	1.341	0.000	0.165	0.000	0.292
			-	5:COMB1	-	5:COMB1	-	5:COMB1
			0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
	12909	-ve	0.000	0.000	0.000	0.165	0.000	0.475
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-1.728	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
16271	12909	+ve	0.000	1.408	0.000	0.298	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
			0.000	0.000	0.000	0.000	0.000	-0.015
			-	-	-	-	-	5:COMB1
	10477	-ve	0.000	0.000	0.000	0.298	0.000	0.106
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-1.661	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
16288	12920	+ve	0.000	5.606	0.000	2.146	0.000	1.493
			-	5:COMB1	-	5:COMB1	-	5:COMB1
			0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
	12921	-ve	0.000	2.088	0.000	2.146	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
			0.000	0.000	0.000	0.000	0.000	-2.699
			-	-	-	-	-	5:COMB1
16290	12921	+ve	0.000	8.478	0.000	1.996	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
			0.000	0.000	0.000	0.000	0.000	-3.600
			-	-	-	-	-	5:COMB1
	10578	-ve	0.000	4.960	0.000	1.996	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
			0.000	0.000	0.000	0.000	0.000	-10.920
			-	-	-	-	-	5:COMB1
16293	12922	+ve	0.000	0.000	0.000	0.000	0.000	4.911
			-	-	-	-	-	5:COMB1
			0.000	-1.821	0.000	-1.068	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
	12925	-ve	0.000	0.000	0.000	0.000	0.000	7.707
			-	-	-	-	-	5:COMB1
			0.000	-3.821	0.000	-1.068	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
16294	12924	+ve	0.000	0.767	0.000	0.000	0.000	8.520
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-2.027	0.000	0.000
			-	-	-	5:COMB1	-	-
	10479	-ve	0.000	0.000	0.000	0.000	0.000	8.334
			-	-	-	-	-	5:COMB1
			0.000	-0.433	0.000	-2.027	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
16296	12925	+ve	0.000	0.000	0.000	0.000	0.000	7.846
			-	-	-	-	-	5:COMB1
			0.000	-0.146	0.000	-0.928	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
	12927	-ve	0.000	0.000	0.000	0.000	0.000	8.982
			-	-	-	-	-	5:COMB1
			0.000	-2.146	0.000	-0.928	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
16298	12927	+ve	0.000	1.835	0.000	0.000	0.000	8.980
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-0.481	0.000	0.000
			-	-	-	5:COMB1	-	-
	12929	-ve	0.000	0.000	0.000	0.000	0.000	8.152
			-	-	-	-	-	5:COMB1
			0.000	-0.165	0.000	-0.481	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
16300	12929	+ve	0.000	4.218	0.000	0.384	0.000	8.067
			-	5:COMB1	-	5:COMB1	-	5:COMB1
			0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
	12931	-ve	0.000	2.217	0.000	0.384	0.000	4.878
			-	5:COMB1	-	5:COMB1	-	5:COMB1
			0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
16302	12931	+ve	0.000	6.903	0.000	1.540	0.000	4.634
			-	5:COMB1	-	5:COMB1	-	5:COMB1
			0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
	12933	-ve	0.000	4.902	0.000	1.540	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
			0.000	0.000	0.000	0.000	0.000	-1.215
			-	-	-	-	-	5:COMB1
16304	12933	+ve	0.000	4.918	0.000	0.735	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
			0.000	0.000	0.000	0.000	0.000	-2.725
			-	-	-	-	-	5:COMB1
	12935	-ve	0.000	2.918	0.000	0.735	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
			0.000	0.000	0.000	0.000	0.000	-6.608
			-	-	-	-	-	5:COMB1
16306	12935	+ve	0.000	1.565	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
			0.000	0.000	0.000	-1.332	0.000	-6.855
			-	-	-	5:COMB1	-	5:COMB1
	12937	-ve	0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
			0.000	-0.435	0.000	-1.332	0.000	-7.415
			-	5:COMB1	-	5:COMB1	-	5:COMB1
16308	12937	+ve	0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
			0.000	-1.961	0.000	-2.881	0.000	-6.093
			-	5:COMB1	-	5:COMB1	-	5:COMB1
	10486	-ve	0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
			0.000	-3.961	0.000	-2.881	0.000	-3.158
			-	5:COMB1	-	5:COMB1	-	5:COMB1
16311	12940	+ve	0.000	0.000	0.000	0.000	0.000	1.530
			-	-	-	-	-	5:COMB1
			0.000	-5.879	0.000	-2.101	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
	12924	-ve	0.000	0.000	0.000	0.000	0.000	8.753
			-	-	-	-	-	5:COMB1
			0.000	-7.079	0.000	-2.101	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
16321	12949	+ve	0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
			0.000	-16.312	0.000	-1.058	0.000	-17.999
			-	5:COMB1	-	5:COMB1	-	5:COMB1
	12940	-ve	0.000	0.000	0.000	0.000	0.000	0.853
			-	-	-	-	-	5:COMB1
			0.000	-17.512	0.000	-1.058	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
16331	12958	+ve	0.000	17.957	0.000	0.648	0.000	1.207
			-	5:COMB1	-	5:COMB1	-	5:COMB1
			0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
	12949	-ve	0.000	16.757	0.000	0.648	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
			0.000	0.000	0.000	0.000	0.000	-18.143
			-	-	-	-	-	5:COMB1
16341	12966	+ve	0.000	2.704	0.000	0.000	0.000	1.560
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-0.550	0.000	0.000
			-	-	-	5:COMB1	-	-
	12967	-ve	0.000	0.000	0.000	0.000	0.000	0.465
			-	-	-	-	-	5:COMB1
			0.000	-0.496	0.000	-0.550	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
16343	12967	+ve	0.000	1.615	0.000	0.000	0.000	0.429
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-0.287	0.000	0.000
			-	-	-	5:COMB1	-	-
	12968	-ve	0.000	0.000	0.000	0.000	0.000	0.414
			-	-	-	-	-	5:COMB1
			0.000	-1.585	0.000	-0.287	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
16345	12968	+ve	0.000	1.453	0.000	0.000	0.000	0.169
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-0.123	0.000	0.000
			-	-	-	5:COMB1	-	-
	12969	-ve	0.000	0.000	0.000	0.000	0.000	0.314
			-	-	-	-	-	5:COMB1
			0.000	-1.747	0.000	-0.123	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
16347	12969	+ve	0.000	1.508	0.000	0.000	0.000	0.196
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-0.010	0.000	0.000
			-	-	-	5:COMB1	-	-
	12970	-ve	0.000	0.000	0.000	0.000	0.000	0.287
			-	-	-	-	-	5:COMB1
			0.000	-1.693	0.000	-0.010	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
16349	12970	+ve	0.000	1.641	0.000	0.000	0.000	0.196
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-0.062	0.000	0.000
			-	-	-	5:COMB1	-	-
	12971	-ve	0.000	0.000	0.000	0.000	0.000	0.155
			-	-	-	-	-	5:COMB1
			0.000	-1.559	0.000	-0.062	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
16351	12971	+ve	0.000	1.677	0.000	0.000	0.000	0.361
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-0.061	0.000	0.000
			-	-	-	5:COMB1	-	-
	12972	-ve	0.000	0.000	0.000	0.000	0.000	0.284
			-	-	-	-	-	5:COMB1
			0.000	-1.522	0.000	-0.061	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
16353	12972	+ve	0.000	1.284	0.000	0.000	0.000	0.377
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-0.105	0.000	0.000
			-	-	-	5:COMB1	-	-
	12973	-ve	0.000	0.000	0.000	0.000	0.000	0.689
			-	-	-	-	-	5:COMB1
			0.000	-1.916	0.000	-0.105	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
16355	12973	+ve	0.000	0.312	0.000	0.000	0.000	0.166
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-0.058	0.000	0.000
			-	-	-	5:COMB1	-	-
	10618	-ve	0.000	0.000	0.000	0.000	0.000	1.442
			-	-	-	-	-	5:COMB1
			0.000	-2.888	0.000	-0.058	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
16384	12998	+ve	0.000	0.000	0.000	1.410	0.000	0.000
			-	-	-	5:COMB1	-	-
			0.000	-9.082	0.000	0.000	0.000	-19.505
			-	5:COMB1	-	-	-	5:COMB1
	12999	-ve	0.000	0.000	0.000	1.410	0.000	0.000
			-	-	-	5:COMB1	-	-
			0.000	-11.135	0.000	0.000	0.000	-9.222
			-	5:COMB1	-	-	-	5:COMB1
16385	12999	+ve	0.000	0.000	0.000	2.633	0.000	0.000
			-	-	-	5:COMB1	-	-
			0.000	-7.520	0.000	0.000	0.000	-9.019
			-	5:COMB1	-	-	-	5:COMB1
	13000	-ve	0.000	0.000	0.000	2.633	0.000	0.000
			-	-	-	5:COMB1	-	-
			0.000	-9.573	0.000	0.000	0.000	-0.325
			-	5:COMB1	-	-	-	5:COMB1

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
16386	13000	+ve	0.000	0.000	0.000	5.098	0.000	0.000
			-	-	-	5:COMB1	-	-
			0.000	-3.472	0.000	0.000	0.000	-0.182
			-	5:COMB1	-	-	-	5:COMB1
	13001	-ve	0.000	0.000	0.000	5.098	0.000	4.395
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-5.525	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
16387	13001	+ve	0.000	0.000	0.000	6.576	0.000	4.062
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-1.145	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
	10479	-ve	0.000	0.000	0.000	6.576	0.000	6.270
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-3.198	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
16399	13007	+ve	0.000	10.789	0.000	0.000	0.000	41.884
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-2.506	0.000	0.000
			-	-	-	5:COMB1	-	-
	13009	-ve	0.000	7.594	0.000	0.000	0.000	32.790
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-2.506	0.000	0.000
			-	-	-	5:COMB1	-	-
16401	13009	+ve	0.000	14.230	0.000	0.000	0.000	32.145
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-5.845	0.000	0.000
			-	-	-	5:COMB1	-	-
	13011	-ve	0.000	11.036	0.000	0.000	0.000	19.647
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-5.845	0.000	0.000
			-	-	-	5:COMB1	-	-
16403	13011	+ve	0.000	14.993	0.000	0.000	0.000	19.286
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-7.931	0.000	0.000
			-	-	-	5:COMB1	-	-
	13013	-ve	0.000	11.799	0.000	0.000	0.000	6.033
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-7.931	0.000	0.000
			-	-	-	5:COMB1	-	-
16405	13013	+ve	0.000	8.280	0.000	0.000	0.000	5.904
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-4.325	0.000	0.000
			-	-	-	5:COMB1	-	-
	11300	-ve	0.000	5.085	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
			0.000	0.000	0.000	-4.325	0.000	-0.708
			-	-	-	5:COMB1	-	5:COMB1

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
16428	13024	+ve	0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
			0.000	-5.856	0.000	-6.457	0.000	-6.185
			-	5:COMB1	-	5:COMB1	-	5:COMB1
	13027	-ve	0.000	0.000	0.000	0.000	0.000	2.505
			-	-	-	-	-	5:COMB1
			0.000	-8.329	0.000	-6.457	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
16429	13026	+ve	0.000	0.000	0.000	5.686	0.000	2.502
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-4.573	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
	10495	-ve	0.000	0.000	0.000	5.686	0.000	9.313
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-8.056	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
16431	13027	+ve	0.000	0.000	0.000	0.000	0.000	3.028
			-	-	-	-	-	5:COMB1
			0.000	-3.850	0.000	-5.447	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
	10632	-ve	0.000	0.000	0.000	0.000	0.000	9.260
			-	-	-	-	-	5:COMB1
			0.000	-6.323	0.000	-5.447	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
16433	13029	+ve	0.000	8.668	0.000	1.174	0.000	1.846
			-	5:COMB1	-	5:COMB1	-	5:COMB1
			0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
	10632	-ve	0.000	7.512	0.000	1.174	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
			0.000	0.000	0.000	0.000	0.000	-6.838
			-	-	-	-	-	5:COMB1
16435	13031	+ve	0.000	2.350	0.000	6.399	0.000	0.534
			-	5:COMB1	-	5:COMB1	-	5:COMB1
			0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
	13026	-ve	0.000	0.000	0.000	6.399	0.000	0.000
			-	-	-	5:COMB1	-	-
			0.000	-1.133	0.000	0.000	0.000	-0.123
			-	5:COMB1	-	-	-	5:COMB1
16438	13033	+ve	0.000	6.447	0.000	1.352	0.000	9.905
			-	5:COMB1	-	5:COMB1	-	5:COMB1
			0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
	13029	-ve	0.000	5.291	0.000	1.352	0.000	3.604
			-	5:COMB1	-	5:COMB1	-	5:COMB1
			0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
16440	13035	+ve	0.000	1.674	0.000	4.064	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
			0.000	0.000	0.000	0.000	0.000	-0.152
			-	-	-	-	-	5:COMB1
	13031	-ve	0.000	0.000	0.000	4.064	0.000	0.000
			-	-	-	5:COMB1	-	-
			0.000	-1.809	0.000	0.000	0.000	-0.079
			-	5:COMB1	-	-	-	5:COMB1
16443	13037	+ve	0.000	2.917	0.000	0.711	0.000	13.066
			-	5:COMB1	-	5:COMB1	-	5:COMB1
			0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
	13033	-ve	0.000	1.761	0.000	0.711	0.000	10.555
			-	5:COMB1	-	5:COMB1	-	5:COMB1
			0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
16445	13039	+ve	0.000	1.358	0.000	2.741	0.000	0.284
			-	5:COMB1	-	5:COMB1	-	5:COMB1
			0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
	13035	-ve	0.000	0.000	0.000	2.741	0.000	0.698
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-2.125	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
16448	13041	+ve	0.000	0.000	0.000	0.038	0.000	12.139
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-0.387	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
	13037	-ve	0.000	0.000	0.000	0.038	0.000	13.174
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-1.542	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
16450	13043	+ve	0.000	1.157	0.000	1.866	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
			0.000	0.000	0.000	0.000	0.000	-0.339
			-	-	-	-	-	5:COMB1
	13039	-ve	0.000	0.000	0.000	1.866	0.000	0.291
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-2.326	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
16453	13045	+ve	0.000	0.000	0.000	0.000	0.000	7.183
			-	-	-	-	-	5:COMB1
			0.000	-3.669	0.000	-0.860	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
	13041	-ve	0.000	0.000	0.000	0.000	0.000	11.742
			-	-	-	-	-	5:COMB1
			0.000	-4.825	0.000	-0.860	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
16455	13047	+ve	0.000	1.346	0.000	1.881	0.000	0.586
			-	5:COMB1	-	5:COMB1	-	5:COMB1
			0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
	13043	-ve	0.000	0.000	0.000	1.881	0.000	1.013
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-2.137	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
16458	13049	+ve	0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
			0.000	-8.555	0.000	-1.364	0.000	-3.602
			-	5:COMB1	-	5:COMB1	-	5:COMB1
	13045	-ve	0.000	0.000	0.000	0.000	0.000	6.203
			-	-	-	-	-	5:COMB1
			0.000	-9.711	0.000	-1.364	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
16460	13050	+ve	0.000	0.000	0.000	5.315	0.000	0.000
			-	-	-	5:COMB1	-	-
			0.000	-14.075	0.000	0.000	0.000	-10.000
			-	5:COMB1	-	-	-	5:COMB1
	13051	-ve	0.000	0.000	0.000	5.315	0.000	9.881
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-18.070	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
16462	13051	+ve	0.000	0.000	0.000	8.445	0.000	12.571
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-10.024	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
	10576	-ve	0.000	0.000	0.000	8.445	0.000	27.440
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-14.018	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
16465	13052	+ve	0.000	10.820	0.000	5.991	0.000	3.606
			-	5:COMB1	-	5:COMB1	-	5:COMB1
			0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
	13054	-ve	0.000	8.262	0.000	5.991	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
			0.000	0.000	0.000	0.000	0.000	-8.486
			-	-	-	-	-	5:COMB1
16467	13054	+ve	0.000	11.327	0.000	7.123	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
			0.000	0.000	0.000	0.000	0.000	-10.214
			-	-	-	-	-	5:COMB1
	10472	-ve	0.000	8.769	0.000	7.123	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
			0.000	0.000	0.000	0.000	0.000	-22.947
			-	-	-	-	-	5:COMB1

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
16469	13056	+ve	0.000	0.000	0.000	0.000	0.000	6.459
			-	-	-	-	-	5:COMB1
			0.000	-12.647	0.000	-0.276	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
	10472	-ve	0.000	0.000	0.000	0.000	0.000	21.978
			-	-	-	-	-	5:COMB1
			0.000	-16.130	0.000	-0.276	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
16473	13059	+ve	0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
			0.000	-23.044	0.000	-1.430	0.000	-20.929
			-	5:COMB1	-	5:COMB1	-	5:COMB1
	13056	-ve	0.000	0.000	0.000	0.000	0.000	5.805
			-	-	-	-	-	5:COMB1
			0.000	-26.527	0.000	-1.430	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
16477	13062	+ve	0.000	29.938	0.000	0.000	0.000	9.307
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-3.130	0.000	0.000
			-	-	-	5:COMB1	-	-
	13059	-ve	0.000	26.455	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
			0.000	0.000	0.000	-3.130	0.000	-21.104
			-	-	-	5:COMB1	-	5:COMB1
16481	13065	+ve	0.000	12.598	0.000	0.000	0.000	21.412
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-5.354	0.000	0.000
			-	-	-	5:COMB1	-	-
	13062	-ve	0.000	9.115	0.000	0.000	0.000	9.702
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-5.354	0.000	0.000
			-	-	-	5:COMB1	-	-
16485	13068	+ve	0.000	0.000	0.000	0.000	0.000	15.871
			-	-	-	-	-	5:COMB1
			0.000	-3.578	0.000	-7.794	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
	13065	-ve	0.000	0.000	0.000	0.000	0.000	21.609
			-	-	-	-	-	5:COMB1
			0.000	-7.061	0.000	-7.794	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
16489	13071	+ve	0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
			0.000	-17.548	0.000	-10.077	0.000	-5.148
			-	5:COMB1	-	5:COMB1	-	5:COMB1
	13068	-ve	0.000	0.000	0.000	0.000	0.000	15.658
			-	-	-	-	-	5:COMB1
			0.000	-21.031	0.000	-10.077	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
16491	13072	+ve	0.000	26.102	0.000	0.000	0.000	14.424
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-4.162	0.000	0.000
			-	-	-	5:COMB1	-	-
	13073	-ve	0.000	22.010	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
			0.000	0.000	0.000	-4.162	0.000	-16.061
			-	-	-	5:COMB1	-	5:COMB1
16493	13073	+ve	0.000	17.242	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
			0.000	0.000	0.000	-0.786	0.000	-17.405
			-	-	-	5:COMB1	-	5:COMB1
	10475	-ve	0.000	13.150	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
			0.000	0.000	0.000	-0.786	0.000	-36.663
			-	-	-	5:COMB1	-	5:COMB1
16496	13074	+ve	0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
			0.000	-12.030	0.000	-14.345	0.000	-6.700
			-	5:COMB1	-	5:COMB1	-	5:COMB1
	13076	-ve	0.000	0.000	0.000	0.000	0.000	8.744
			-	-	-	-	-	5:COMB1
			0.000	-14.390	0.000	-14.345	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
16498	13076	+ve	0.000	0.000	0.000	0.000	0.000	10.026
			-	-	-	-	-	5:COMB1
			0.000	-7.534	0.000	-11.579	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
	13078	-ve	0.000	0.000	0.000	0.000	0.000	20.215
			-	-	-	-	-	5:COMB1
			0.000	-9.894	0.000	-11.579	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
16500	13078	+ve	0.000	0.000	0.000	0.000	0.000	21.062
			-	-	-	-	-	5:COMB1
			0.000	-3.078	0.000	-8.805	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
	10633	-ve	0.000	0.000	0.000	0.000	0.000	26.041
			-	-	-	-	-	5:COMB1
			0.000	-5.438	0.000	-8.805	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
16502	13080	+ve	0.000	14.988	0.000	1.831	0.000	9.239
			-	5:COMB1	-	5:COMB1	-	5:COMB1
			0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
	10633	-ve	0.000	13.646	0.000	1.831	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
			0.000	0.000	0.000	0.000	0.000	-8.609
			-	-	-	-	-	5:COMB1

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
16507	13084	+ve	0.000	11.975	0.000	1.434	0.000	26.186
			-	5:COMB1	-	5:COMB1	-	5:COMB1
			0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
	13080	-ve	0.000	10.633	0.000	1.434	0.000	12.094
			-	5:COMB1	-	5:COMB1	-	5:COMB1
			0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
16512	13088	+ve	0.000	4.021	0.000	0.782	0.000	31.319
			-	5:COMB1	-	5:COMB1	-	5:COMB1
			0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
	13084	-ve	0.000	2.679	0.000	0.782	0.000	27.143
			-	5:COMB1	-	5:COMB1	-	5:COMB1
			0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
16517	13092	+ve	0.000	0.000	0.000	0.153	0.000	25.848
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-3.840	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
	13088	-ve	0.000	0.000	0.000	0.153	0.000	31.471
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-5.182	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
16522	13096	+ve	0.000	0.000	0.000	0.000	0.000	9.957
			-	-	-	-	-	5:COMB1
			0.000	-11.237	0.000	-0.148	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
	13092	-ve	0.000	0.000	0.000	0.000	0.000	24.800
			-	-	-	-	-	5:COMB1
			0.000	-12.578	0.000	-0.148	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
16527	13100	+ve	0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
			0.000	-19.579	0.000	-0.684	0.000	-17.494
			-	5:COMB1	-	5:COMB1	-	5:COMB1
	13096	-ve	0.000	0.000	0.000	0.000	0.000	7.749
			-	-	-	-	-	5:COMB1
			0.000	-20.920	0.000	-0.684	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
16529	13101	+ve	0.000	0.000	0.000	7.033	0.000	0.000
			-	-	-	5:COMB1	-	-
			0.000	-36.929	0.000	0.000	0.000	-32.379
			-	5:COMB1	-	-	-	5:COMB1
	13102	-ve	0.000	0.000	0.000	7.033	0.000	8.021
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-40.307	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
16531	13102	+ve	0.000	0.000	0.000	3.825	0.000	9.402
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-28.032	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
	13103	-ve	0.000	0.000	0.000	3.825	0.000	40.496
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-31.410	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
16533	13103	+ve	0.000	0.000	0.000	2.663	0.000	41.419
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-14.255	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
	10643	-ve	0.000	0.000	0.000	2.663	0.000	58.099
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-17.634	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
16536	13104	+ve	0.000	36.714	0.000	0.000	0.000	8.911
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-11.947	0.000	0.000
			-	-	-	5:COMB1	-	-
	13105	-ve	0.000	33.612	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
			0.000	0.000	0.000	-11.947	0.000	-24.865
			-	-	-	5:COMB1	-	5:COMB1
16537	13105	+ve	0.000	35.298	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
			0.000	0.000	0.000	-18.806	0.000	-27.437
			-	-	-	5:COMB1	-	5:COMB1
	13106	-ve	0.000	32.196	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
			0.000	0.000	0.000	-18.806	0.000	-59.854
			-	-	-	5:COMB1	-	5:COMB1
16538	13106	+ve	0.000	35.522	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
			0.000	0.000	0.000	-21.354	0.000	-60.602
			-	-	-	5:COMB1	-	5:COMB1
	10458	-ve	0.000	32.420	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
			0.000	0.000	0.000	-21.354	0.000	-93.234
			-	-	-	5:COMB1	-	5:COMB1
16539	13107	+ve	0.000	17.756	0.000	6.049	0.000	13.585
			-	5:COMB1	-	5:COMB1	-	5:COMB1
			0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
	13108	-ve	0.000	15.432	0.000	6.049	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
			0.000	0.000	0.000	0.000	0.000	-5.525
			-	-	-	-	-	5:COMB1

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
16540	13108	+ve	0.000	25.294	0.000	11.472	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
			0.000	0.000	0.000	0.000	0.000	-6.389
			-	-	-	-	-	5:COMB1
	13109	-ve	0.000	22.970	0.000	11.472	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
			0.000	0.000	0.000	0.000	0.000	-34.180
			-	-	-	-	-	5:COMB1
16541	13109	+ve	0.000	0.000	0.000	16.645	0.000	0.000
			-	-	-	5:COMB1	-	-
			0.000	-33.570	0.000	0.000	0.000	-35.266
			-	5:COMB1	-	-	-	5:COMB1
	13110	-ve	0.000	0.000	0.000	16.645	0.000	4.733
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-35.894	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
16542	13110	+ve	0.000	0.000	0.000	15.577	0.000	3.620
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-0.689	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
	10502	-ve	0.000	0.000	0.000	15.577	0.000	5.751
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-3.013	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
16578	13139	+ve	0.000	0.000	0.000	21.496	0.000	0.000
			-	-	-	5:COMB1	-	-
			0.000	-20.945	0.000	0.000	0.000	-27.338
			-	5:COMB1	-	-	-	5:COMB1
	13140	-ve	0.000	0.000	0.000	21.496	0.000	1.952
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-25.057	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
16579	13140	+ve	0.000	0.000	0.000	14.141	0.000	3.057
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-12.773	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
	13141	-ve	0.000	0.000	0.000	14.141	0.000	21.942
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-16.885	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
16580	13141	+ve	0.000	0.000	0.000	5.175	0.000	22.956
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-0.237	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
	13142	-ve	0.000	0.000	0.000	5.175	0.000	25.876
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-4.349	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
16581	13142	+ve	0.000	15.231	0.000	0.000	0.000	25.918
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-2.456	0.000	0.000
			-	-	-	5:COMB1	-	-
	13143	-ve	0.000	11.119	0.000	0.000	0.000	9.140
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-2.456	0.000	0.000
			-	-	-	5:COMB1	-	-
16582	13143	+ve	0.000	30.959	0.000	0.000	0.000	8.511
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-9.037	0.000	0.000
			-	-	-	5:COMB1	-	-
	13144	-ve	0.000	26.847	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
			0.000	0.000	0.000	-9.037	0.000	-28.296
			-	-	-	5:COMB1	-	5:COMB1
16583	13144	+ve	0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
			0.000	-18.411	0.000	-12.366	0.000	-28.829
			-	5:COMB1	-	5:COMB1	-	5:COMB1
	13145	-ve	0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
			0.000	-22.523	0.000	-12.366	0.000	-2.766
			-	5:COMB1	-	5:COMB1	-	5:COMB1
16584	13145	+ve	0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
			0.000	-10.014	0.000	-11.833	0.000	-2.052
			-	5:COMB1	-	5:COMB1	-	5:COMB1
	10502	-ve	0.000	0.000	0.000	0.000	0.000	13.318
			-	-	-	-	-	5:COMB1
			0.000	-14.126	0.000	-11.833	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
16596	13146	+ve	0.000	0.000	0.000	0.000	0.000	0.147
			-	-	-	-	-	5:COMB1
			0.000	-2.748	0.000	-1.346	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
	13148	-ve	0.000	0.000	0.000	0.000	0.000	5.793
			-	-	-	-	-	5:COMB1
			0.000	-5.508	0.000	-1.346	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
16598	13148	+ve	0.000	5.793	0.000	0.000	0.000	6.401
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-1.421	0.000	0.000
			-	-	-	5:COMB1	-	-
	13150	-ve	0.000	3.033	0.000	0.000	0.000	0.365
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-1.421	0.000	0.000
			-	-	-	5:COMB1	-	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
16600	13150	+ve	0.000	9.303	0.000	0.885	0.000	0.240
			-	5:COMB1	-	5:COMB1	-	5:COMB1
			0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
	13152	-ve	0.000	6.542	0.000	0.885	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
			0.000	0.000	0.000	0.000	0.000	-10.597
			-	-	-	-	-	5:COMB1
16602	13152	+ve	0.000	12.120	0.000	3.106	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
			0.000	0.000	0.000	0.000	0.000	-11.534
			-	-	-	-	-	5:COMB1
	10469	-ve	0.000	9.359	0.000	3.106	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
			0.000	0.000	0.000	0.000	0.000	-26.224
			-	-	-	-	-	5:COMB1
16624	13164	+ve	0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
			0.000	-22.885	0.000	-0.163	0.000	-44.957
			-	5:COMB1	-	5:COMB1	-	5:COMB1
	13165	-ve	0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
			0.000	-26.062	0.000	-0.163	0.000	-20.881
			-	5:COMB1	-	5:COMB1	-	5:COMB1
16625	13165	+ve	0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
			0.000	-15.595	0.000	-0.679	0.000	-20.320
			-	5:COMB1	-	5:COMB1	-	5:COMB1
	13166	-ve	0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
			0.000	-18.772	0.000	-0.679	0.000	-3.415
			-	5:COMB1	-	5:COMB1	-	5:COMB1
16626	13166	+ve	0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
			0.000	-7.508	0.000	-2.217	0.000	-2.840
			-	5:COMB1	-	5:COMB1	-	5:COMB1
	13167	-ve	0.000	0.000	0.000	0.000	0.000	6.109
			-	-	-	-	-	5:COMB1
			0.000	-10.685	0.000	-2.217	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
16627	13167	+ve	0.000	0.000	0.000	0.000	0.000	6.374
			-	-	-	-	-	5:COMB1
			0.000	-3.242	0.000	-2.914	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
	10480	-ve	0.000	0.000	0.000	0.000	0.000	11.125
			-	-	-	-	-	5:COMB1
			0.000	-6.418	0.000	-2.914	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
16631	13168	+ve	0.000	17.974	0.000	0.000	0.000	18.194
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-2.684	0.000	0.000
			-	-	-	5:COMB1	-	-
	13169	-ve	0.000	14.911	0.000	0.000	0.000	2.598
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-2.684	0.000	0.000
			-	-	-	5:COMB1	-	-
16632	13169	+ve	0.000	17.495	0.000	0.000	0.000	1.012
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-1.853	0.000	0.000
			-	-	-	5:COMB1	-	-
	13170	-ve	0.000	14.432	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
			0.000	0.000	0.000	-1.853	0.000	-14.128
			-	-	-	5:COMB1	-	5:COMB1
16633	13170	+ve	0.000	14.515	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
			0.000	0.000	0.000	-1.340	0.000	-14.522
			-	-	-	5:COMB1	-	5:COMB1
	10560	-ve	0.000	11.453	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
			0.000	0.000	0.000	-1.340	0.000	-26.837
			-	-	-	5:COMB1	-	5:COMB1
16634	13171	+ve	0.000	10.724	0.000	0.000	0.000	2.896
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-3.806	0.000	0.000
			-	-	-	5:COMB1	-	-
	13172	-ve	0.000	8.658	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
			0.000	0.000	0.000	-3.806	0.000	-7.022
			-	-	-	5:COMB1	-	5:COMB1
16635	13172	+ve	0.000	8.990	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
			0.000	0.000	0.000	-5.022	0.000	-6.700
			-	-	-	5:COMB1	-	5:COMB1
	13173	-ve	0.000	6.924	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
			0.000	0.000	0.000	-5.022	0.000	-14.845
			-	-	-	5:COMB1	-	5:COMB1
16636	13173	+ve	0.000	6.730	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
			0.000	0.000	0.000	-5.814	0.000	-14.926
			-	-	-	5:COMB1	-	5:COMB1
	10495	-ve	0.000	4.664	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
			0.000	0.000	0.000	-5.814	0.000	-20.757
			-	-	-	5:COMB1	-	5:COMB1

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
16668	13188	+ve	0.000	0.000	0.000	0.419	0.000	7.317
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-6.374	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
	13191	-ve	0.000	0.000	0.000	0.419	0.000	15.493
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-7.631	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
16669	13190	+ve	0.000	0.000	0.000	0.898	0.000	22.947
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-2.256	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
	10562	-ve	0.000	0.000	0.000	0.898	0.000	26.117
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-3.452	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
16671	13191	+ve	0.000	0.000	0.000	1.626	0.000	15.157
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-0.692	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
	13193	-ve	0.000	0.000	0.000	1.626	0.000	16.699
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-1.949	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
16673	13193	+ve	0.000	4.159	0.000	1.922	0.000	15.427
			-	5:COMB1	-	5:COMB1	-	5:COMB1
			0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
	10543	-ve	0.000	2.902	0.000	1.922	0.000	11.304
			-	5:COMB1	-	5:COMB1	-	5:COMB1
			0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
16675	13195	+ve	0.000	0.224	0.000	0.000	0.000	19.513
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-0.546	0.000	0.000
			-	-	-	5:COMB1	-	-
	10543	-ve	0.000	0.000	0.000	0.000	0.000	20.012
			-	-	-	-	-	5:COMB1
			0.000	-1.061	0.000	-0.546	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
16677	13197	+ve	0.000	0.000	0.000	0.000	0.000	12.820
			-	-	-	-	-	5:COMB1
			0.000	-8.238	0.000	-0.067	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
	13190	-ve	0.000	0.000	0.000	0.000	0.000	22.633
			-	-	-	-	-	5:COMB1
			0.000	-9.434	0.000	-0.067	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
16681	13200	+ve	0.000	0.000	0.000	0.090	0.000	11.572
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-6.191	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
	13195	-ve	0.000	0.000	0.000	0.090	0.000	19.734
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-7.476	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
16683	13202	+ve	0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
			0.000	-16.235	0.000	-0.922	0.000	-7.271
			-	5:COMB1	-	5:COMB1	-	5:COMB1
	13197	-ve	0.000	0.000	0.000	0.000	0.000	11.423
			-	-	-	-	-	5:COMB1
			0.000	-17.430	0.000	-0.922	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
16687	13205	+ve	0.000	0.000	0.000	0.151	0.000	0.000
			-	-	-	5:COMB1	-	-
			0.000	-15.833	0.000	0.000	0.000	-9.398
			-	5:COMB1	-	-	-	5:COMB1
	13200	-ve	0.000	0.000	0.000	0.151	0.000	10.281
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-17.118	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
16689	13206	+ve	0.000	0.000	0.000	0.000	0.000	42.689
			-	-	-	-	-	5:COMB1
			0.000	-24.537	0.000	-4.232	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
	13207	-ve	0.000	0.000	0.000	0.000	0.000	73.628
			-	-	-	-	-	5:COMB1
			0.000	-28.318	0.000	-4.232	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
16691	13207	+ve	0.000	0.000	0.000	0.000	0.000	74.142
			-	-	-	-	-	5:COMB1
			0.000	-9.543	0.000	-3.105	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
	13208	-ve	0.000	0.000	0.000	0.000	0.000	87.527
			-	-	-	-	-	5:COMB1
			0.000	-13.323	0.000	-3.105	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
16693	13208	+ve	0.000	1.831	0.000	0.000	0.000	87.526
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-2.345	0.000	0.000
			-	-	-	5:COMB1	-	-
	10544	-ve	0.000	0.000	0.000	0.000	0.000	87.595
			-	-	-	-	-	5:COMB1
			0.000	-1.949	0.000	-2.345	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
16696	13209	+ve	0.000	9.694	0.000	0.444	0.000	6.681
			-	5:COMB1	-	5:COMB1	-	5:COMB1
			0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
	13211	-ve	0.000	8.670	0.000	0.444	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
			0.000	0.000	0.000	0.000	0.000	-2.049
			-	-	-	-	-	5:COMB1
16698	13211	+ve	0.000	16.507	0.000	0.925	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
			0.000	0.000	0.000	0.000	0.000	-3.487
			-	-	-	-	-	5:COMB1
	13213	-ve	0.000	15.483	0.000	0.925	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
			0.000	0.000	0.000	0.000	0.000	-18.694
			-	-	-	-	-	5:COMB1
16700	13213	+ve	0.000	18.712	0.000	1.927	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
			0.000	0.000	0.000	0.000	0.000	-21.105
			-	-	-	-	-	5:COMB1
	10553	-ve	0.000	17.689	0.000	1.927	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
			0.000	0.000	0.000	0.000	0.000	-38.408
			-	-	-	-	-	5:COMB1
16702	13215	+ve	0.000	0.000	0.000	0.000	0.000	82.884
			-	-	-	-	-	5:COMB1
			0.000	-27.397	0.000	-2.926	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
	10553	-ve	0.000	0.000	0.000	0.000	0.000	120.306
			-	-	-	-	-	5:COMB1
			0.000	-31.500	0.000	-2.926	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
16707	13219	+ve	0.000	0.000	0.000	0.000	0.000	28.551
			-	-	-	-	-	5:COMB1
			0.000	-39.871	0.000	-3.940	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
	13215	-ve	0.000	0.000	0.000	0.000	0.000	81.830
			-	-	-	-	-	5:COMB1
			0.000	-43.975	0.000	-3.940	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
16712	13223	+ve	0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
			0.000	-53.714	0.000	-5.959	0.000	-44.050
			-	5:COMB1	-	5:COMB1	-	5:COMB1
	13219	-ve	0.000	0.000	0.000	0.000	0.000	26.820
			-	-	-	-	-	5:COMB1
			0.000	-57.817	0.000	-5.959	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
16714	13224	+ve	0.000	60.118	0.000	6.161	0.000	29.969
			-	5:COMB1	-	5:COMB1	-	5:COMB1
			0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
	13225	-ve	0.000	56.390	0.000	6.161	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
			0.000	0.000	0.000	0.000	0.000	-37.278
			-	-	-	-	-	5:COMB1
16716	13225	+ve	0.000	74.040	0.000	7.796	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
			0.000	0.000	0.000	0.000	0.000	-39.072
			-	-	-	-	-	5:COMB1
	13226	-ve	0.000	70.312	0.000	7.796	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
			0.000	0.000	0.000	0.000	0.000	-122.390
			-	-	-	-	-	5:COMB1
16718	13226	+ve	0.000	0.000	0.000	8.703	0.000	0.000
			-	-	-	5:COMB1	-	-
			0.000	-72.812	0.000	0.000	0.000	-122.470
			-	5:COMB1	-	-	-	5:COMB1
	10551	-ve	0.000	0.000	0.000	8.703	0.000	0.000
			-	-	-	5:COMB1	-	-
			0.000	-76.540	0.000	0.000	0.000	-36.273
			-	5:COMB1	-	-	-	5:COMB1
16721	13227	+ve	0.000	0.000	0.000	0.691	0.000	0.000
			-	-	-	5:COMB1	-	-
			0.000	-18.274	0.000	0.000	0.000	-17.203
			-	5:COMB1	-	-	-	5:COMB1
	13229	-ve	0.000	0.000	0.000	0.691	0.000	1.939
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-19.369	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
16723	13229	+ve	0.000	0.000	0.000	0.000	0.000	3.625
			-	-	-	-	-	5:COMB1
			0.000	-10.804	0.000	-0.287	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
	13231	-ve	0.000	0.000	0.000	0.000	0.000	15.169
			-	-	-	-	-	5:COMB1
			0.000	-11.899	0.000	-0.287	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
16725	13231	+ve	0.000	0.000	0.000	0.000	0.000	15.903
			-	-	-	-	-	5:COMB1
			0.000	-6.069	0.000	-0.719	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
	10563	-ve	0.000	0.000	0.000	0.000	0.000	22.631
			-	-	-	-	-	5:COMB1
			0.000	-7.164	0.000	-0.719	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
16727	13233	+ve	0.000	1.273	0.000	1.076	0.000	19.767
			-	5:COMB1	-	5:COMB1	-	5:COMB1
			0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
	10563	-ve	0.000	0.000	0.000	1.076	0.000	19.027
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-0.165	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
16732	13237	+ve	0.000	0.000	0.000	0.601	0.000	13.162
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-4.644	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
	13233	-ve	0.000	0.000	0.000	0.601	0.000	20.323
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-6.081	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
16737	13241	+ve	0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
			0.000	-14.156	0.000	-0.039	0.000	-7.922
			-	5:COMB1	-	5:COMB1	-	5:COMB1
	13237	-ve	0.000	0.000	0.000	0.000	0.000	11.945
			-	-	-	-	-	5:COMB1
			0.000	-15.593	0.000	-0.039	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
16739	13242	+ve	0.000	0.000	0.000	16.246	0.000	0.000
			-	-	-	5:COMB1	-	-
			0.000	-66.671	0.000	0.000	0.000	-115.580
			-	5:COMB1	-	-	-	5:COMB1
	13243	-ve	0.000	0.000	0.000	16.246	0.000	0.000
			-	-	-	5:COMB1	-	-
			0.000	-69.315	0.000	0.000	0.000	-59.893
			-	5:COMB1	-	-	-	5:COMB1
16741	13243	+ve	0.000	0.000	0.000	15.322	0.000	0.000
			-	-	-	5:COMB1	-	-
			0.000	-57.552	0.000	0.000	0.000	-58.242
			-	5:COMB1	-	-	-	5:COMB1
	13244	-ve	0.000	0.000	0.000	15.322	0.000	0.000
			-	-	-	5:COMB1	-	-
			0.000	-60.196	0.000	0.000	0.000	-10.023
			-	5:COMB1	-	-	-	5:COMB1
16743	13244	+ve	0.000	0.000	0.000	15.071	0.000	0.000
			-	-	-	5:COMB1	-	-
			0.000	-49.392	0.000	0.000	0.000	-7.770
			-	5:COMB1	-	-	-	5:COMB1
	10466	-ve	0.000	0.000	0.000	15.071	0.000	33.766
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-52.037	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
16746	13245	+ve	0.000	0.097	0.000	0.000	0.000	27.476
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-1.590	0.000	0.000
			-	-	-	5:COMB1	-	-
	13247	-ve	0.000	0.000	0.000	0.000	0.000	27.880
			-	-	-	-	-	5:COMB1
			0.000	-0.937	0.000	-1.590	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
16748	13247	+ve	0.000	6.076	0.000	0.000	0.000	27.390
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-1.534	0.000	0.000
			-	-	-	5:COMB1	-	-
	13249	-ve	0.000	5.043	0.000	0.000	0.000	22.052
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-1.534	0.000	0.000
			-	-	-	5:COMB1	-	-
16750	13249	+ve	0.000	8.869	0.000	0.000	0.000	20.648
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-1.158	0.000	0.000
			-	-	-	5:COMB1	-	-
	10540	-ve	0.000	7.835	0.000	0.000	0.000	12.628
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-1.158	0.000	0.000
			-	-	-	5:COMB1	-	-
16752	13251	+ve	0.000	6.193	0.000	2.294	0.000	16.251
			-	5:COMB1	-	5:COMB1	-	5:COMB1
			0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
	10540	-ve	0.000	4.682	0.000	2.294	0.000	8.615
			-	5:COMB1	-	5:COMB1	-	5:COMB1
			0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
16757	13255	+ve	0.000	0.000	0.000	3.178	0.000	15.168
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-0.948	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
	13251	-ve	0.000	0.000	0.000	3.178	0.000	17.562
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-2.460	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
16762	13259	+ve	0.000	0.000	0.000	3.027	0.000	0.000
			-	-	-	5:COMB1	-	-
			0.000	-12.074	0.000	0.000	0.000	-3.662
			-	5:COMB1	-	-	-	5:COMB1
	13255	-ve	0.000	0.000	0.000	3.027	0.000	14.356
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-13.585	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
16764	13260	+ve	0.000	0.000	0.000	0.000	0.000	61.823
			-	-	-	-	-	5:COMB1
			0.000	-15.671	0.000	-16.444	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
	13261	-ve	0.000	0.000	0.000	0.000	0.000	78.405
			-	-	-	-	-	5:COMB1
			0.000	-18.779	0.000	-16.444	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
16766	13261	+ve	0.000	0.000	0.000	0.000	0.000	78.889
			-	-	-	-	-	5:COMB1
			0.000	-4.691	0.000	-16.333	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
	13262	-ve	0.000	0.000	0.000	0.000	0.000	84.902
			-	-	-	-	-	5:COMB1
			0.000	-7.800	0.000	-16.333	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
16768	13262	+ve	0.000	4.455	0.000	0.000	0.000	85.395
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-16.460	0.000	0.000
			-	-	-	5:COMB1	-	-
	10541	-ve	0.000	1.346	0.000	0.000	0.000	82.603
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-16.460	0.000	0.000
			-	-	-	5:COMB1	-	-
16772	13264	+ve	0.000	21.253	0.000	7.467	0.000	2.141
			-	5:COMB1	-	5:COMB1	-	5:COMB1
			0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
	10557	-ve	0.000	17.512	0.000	7.467	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
			0.000	0.000	0.000	0.000	0.000	-20.311
			-	-	-	-	-	5:COMB1
16778	13269	+ve	0.000	14.023	0.000	0.000	0.000	12.410
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-0.851	0.000	0.000
			-	-	-	5:COMB1	-	-
	10556	-ve	0.000	12.916	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
			0.000	0.000	0.000	-0.851	0.000	-1.441
			-	-	-	5:COMB1	-	5:COMB1
16780	13271	+ve	0.000	15.732	0.000	7.244	0.000	20.491
			-	5:COMB1	-	5:COMB1	-	5:COMB1
			0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
	13264	-ve	0.000	11.991	0.000	7.244	0.000	4.433
			-	5:COMB1	-	5:COMB1	-	5:COMB1
			0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
16786	13276	+ve	0.000	7.938	0.000	0.000	0.000	21.417
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-0.778	0.000	0.000
			-	-	-	5:COMB1	-	-
	13269	-ve	0.000	6.831	0.000	0.000	0.000	13.824
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-0.778	0.000	0.000
			-	-	-	5:COMB1	-	-
16788	13278	+ve	0.000	2.238	0.000	4.169	0.000	21.315
			-	5:COMB1	-	5:COMB1	-	5:COMB1
			0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
	13271	-ve	0.000	0.000	0.000	4.169	0.000	20.889
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-1.502	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
16794	13283	+ve	0.000	0.000	0.000	0.000	0.000	20.350
			-	-	-	-	-	5:COMB1
			0.000	-0.881	0.000	-0.169	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
	13276	-ve	0.000	0.000	0.000	0.000	0.000	21.824
			-	-	-	-	-	5:COMB1
			0.000	-1.988	0.000	-0.169	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
16796	13285	+ve	0.000	0.000	0.000	0.000	0.000	8.881
			-	-	-	-	-	5:COMB1
			0.000	-8.620	0.000	-0.017	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
	13278	-ve	0.000	0.000	0.000	0.000	0.000	21.033
			-	-	-	-	-	5:COMB1
			0.000	-12.361	0.000	-0.017	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
16802	13290	+ve	0.000	0.000	0.000	0.720	0.000	9.740
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-9.276	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
	13283	-ve	0.000	0.000	0.000	0.720	0.000	19.847
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-10.383	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
16804	13291	+ve	0.000	0.000	0.000	13.232	0.000	0.000
			-	-	-	5:COMB1	-	-
			0.000	-32.740	0.000	0.000	0.000	-60.471
			-	5:COMB1	-	-	-	5:COMB1
	13292	-ve	0.000	0.000	0.000	13.232	0.000	0.000
			-	-	-	5:COMB1	-	-
			0.000	-35.986	0.000	0.000	0.000	-25.929
			-	5:COMB1	-	-	-	5:COMB1

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
16806	13292	+ve	0.000	0.000	0.000	7.154	0.000	0.000
			-	-	-	5:COMB1	-	-
			0.000	-32.797	0.000	0.000	0.000	-22.835
			-	5:COMB1	-	-	-	5:COMB1
	13293	-ve	0.000	0.000	0.000	7.154	0.000	11.767
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-36.043	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
16808	13293	+ve	0.000	0.000	0.000	2.959	0.000	12.969
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-25.421	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
	13294	-ve	0.000	0.000	0.000	2.959	0.000	40.157
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-28.667	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
16810	13294	+ve	0.000	0.000	0.000	0.000	0.000	40.976
			-	-	-	-	-	5:COMB1
			0.000	-16.596	0.000	-0.149	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
	13295	-ve	0.000	0.000	0.000	0.000	0.000	59.291
			-	-	-	-	-	5:COMB1
			0.000	-19.842	0.000	-0.149	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
16812	13295	+ve	0.000	0.000	0.000	0.000	0.000	59.663
			-	-	-	-	-	5:COMB1
			0.000	-10.195	0.000	-1.703	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
	10451	-ve	0.000	0.000	0.000	0.000	0.000	71.544
			-	-	-	-	-	5:COMB1
			0.000	-13.441	0.000	-1.703	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
16823	13301	+ve	0.000	9.310	0.000	0.000	0.000	9.261
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-2.106	0.000	0.000
			-	-	-	5:COMB1	-	-
	10555	-ve	0.000	8.289	0.000	0.000	0.000	0.912
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-2.106	0.000	0.000
			-	-	-	5:COMB1	-	-
16826	13303	+ve	0.000	5.051	0.000	0.000	0.000	14.550
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-1.785	0.000	0.000
			-	-	-	5:COMB1	-	-
	13301	-ve	0.000	4.030	0.000	0.000	0.000	10.242
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-1.785	0.000	0.000
			-	-	-	5:COMB1	-	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
16829	13305	+ve	0.000	0.000	0.000	0.000	0.000	12.411
			-	-	-	-	-	5:COMB1
			0.000	-1.853	0.000	-1.272	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
	13303	-ve	0.000	0.000	0.000	0.000	0.000	14.653
			-	-	-	-	-	5:COMB1
			0.000	-2.874	0.000	-1.272	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
16832	13307	+ve	0.000	0.000	0.000	0.000	0.000	3.305
			-	-	-	-	-	5:COMB1
			0.000	-8.449	0.000	-0.573	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
	13305	-ve	0.000	0.000	0.000	0.000	0.000	11.805
			-	-	-	-	-	5:COMB1
			0.000	-9.470	0.000	-0.573	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
16834	13308	+ve	0.000	23.456	0.000	0.000	0.000	47.993
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-4.028	0.000	0.000
			-	-	-	5:COMB1	-	-
	10459	-ve	0.000	19.873	0.000	0.000	0.000	23.953
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-4.028	0.000	0.000
			-	-	-	5:COMB1	-	-
16838	13309	+ve	0.000	4.862	0.000	1.676	0.000	4.476
			-	5:COMB1	-	5:COMB1	-	5:COMB1
			0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
	13311	-ve	0.000	3.847	0.000	1.676	0.000	0.369
			-	5:COMB1	-	5:COMB1	-	5:COMB1
			0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
16840	13311	+ve	0.000	8.471	0.000	2.241	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
			0.000	0.000	0.000	0.000	0.000	-0.750
			-	-	-	-	-	5:COMB1
	13313	-ve	0.000	7.456	0.000	2.241	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
			0.000	0.000	0.000	0.000	0.000	-8.259
			-	-	-	-	-	5:COMB1
16842	13313	+ve	0.000	10.218	0.000	2.191	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
			0.000	0.000	0.000	0.000	0.000	-9.373
			-	-	-	-	-	5:COMB1
	10554	-ve	0.000	9.203	0.000	2.191	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
			0.000	0.000	0.000	0.000	0.000	-18.531
			-	-	-	-	-	5:COMB1

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
16844	13315	+ve	0.000	8.004	0.000	0.263	0.000	8.248
			-	5:COMB1	-	5:COMB1	-	5:COMB1
			0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
	10554	-ve	0.000	5.201	0.000	0.263	0.000	2.518
			-	5:COMB1	-	5:COMB1	-	5:COMB1
			0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
16849	13319	+ve	0.000	0.475	0.000	0.000	0.000	6.981
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-0.118	0.000	0.000
			-	-	-	5:COMB1	-	-
	13315	-ve	0.000	0.000	0.000	0.000	0.000	7.785
			-	-	-	-	-	5:COMB1
			0.000	-2.328	0.000	-0.118	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
16854	13323	+ve	0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
			0.000	-9.428	0.000	-0.838	0.000	-2.626
			-	5:COMB1	-	5:COMB1	-	5:COMB1
	13319	-ve	0.000	0.000	0.000	0.000	0.000	6.772
			-	-	-	-	-	5:COMB1
			0.000	-12.230	0.000	-0.838	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
16859	13327	+ve	0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
			0.000	-17.893	0.000	-1.381	0.000	-20.169
			-	5:COMB1	-	5:COMB1	-	5:COMB1
	13323	-ve	0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
			0.000	-20.696	0.000	-1.381	0.000	-3.422
			-	5:COMB1	-	5:COMB1	-	5:COMB1
16861	13328	+ve	0.000	46.370	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
			0.000	0.000	0.000	-11.624	0.000	-13.323
			-	-	-	5:COMB1	-	5:COMB1
	13329	-ve	0.000	43.312	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
			0.000	0.000	0.000	-11.624	0.000	-55.797
			-	-	-	5:COMB1	-	5:COMB1
16863	13329	+ve	0.000	53.582	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
			0.000	0.000	0.000	-12.884	0.000	-56.841
			-	-	-	5:COMB1	-	5:COMB1
	13330	-ve	0.000	50.523	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
			0.000	0.000	0.000	-12.884	0.000	-106.149
			-	-	-	5:COMB1	-	5:COMB1

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
16865	13330	+ve	0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
			0.000	-89.669	0.000	-11.451	0.000	-106.173
			-	5:COMB1	-	5:COMB1	-	5:COMB1
	10450	-ve	0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
			0.000	-92.728	0.000	-11.451	0.000	-19.783
			-	5:COMB1	-	5:COMB1	-	5:COMB1
16872	13334	+ve	0.000	3.547	0.000	1.963	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
			0.000	0.000	0.000	0.000	0.000	-2.088
			-	-	-	-	-	5:COMB1
	10560	-ve	0.000	0.641	0.000	1.963	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
			0.000	0.000	0.000	0.000	0.000	-3.973
			-	-	-	-	-	5:COMB1
16878	13335	+ve	0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
			0.000	-7.481	0.000	-0.697	0.000	-15.923
			-	5:COMB1	-	5:COMB1	-	5:COMB1
	13336	-ve	0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
			0.000	-8.499	0.000	-0.697	0.000	-8.371
			-	5:COMB1	-	5:COMB1	-	5:COMB1
16879	13336	+ve	0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
			0.000	-6.648	0.000	-1.163	0.000	-6.389
			-	5:COMB1	-	5:COMB1	-	5:COMB1
	13337	-ve	0.000	0.000	0.000	0.000	0.000	0.376
			-	-	-	-	-	5:COMB1
			0.000	-7.665	0.000	-1.163	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
16880	13337	+ve	0.000	0.000	0.000	0.000	0.000	0.876
			-	-	-	-	-	5:COMB1
			0.000	-1.337	0.000	-1.616	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
	13338	-ve	0.000	0.000	0.000	0.000	0.000	2.620
			-	-	-	-	-	5:COMB1
			0.000	-2.354	0.000	-1.616	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
16881	13338	+ve	0.000	1.677	0.000	0.000	0.000	2.316
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-2.164	0.000	0.000
			-	-	-	5:COMB1	-	-
	10562	-ve	0.000	0.660	0.000	0.000	0.000	1.211
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-2.164	0.000	0.000
			-	-	-	5:COMB1	-	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
16882	13339	+ve	0.000	0.000	0.000	22.116	0.000	0.000
			-	-	-	5:COMB1	-	-
			0.000	-74.494	0.000	0.000	0.000	-121.888
			-	5:COMB1	-	-	-	5:COMB1
	13340	-ve	0.000	0.000	0.000	22.116	0.000	0.000
			-	-	-	5:COMB1	-	-
			0.000	-77.018	0.000	0.000	0.000	-62.677
			-	5:COMB1	-	-	-	5:COMB1
16883	13340	+ve	0.000	0.000	0.000	21.881	0.000	0.000
			-	-	-	5:COMB1	-	-
			0.000	-65.920	0.000	0.000	0.000	-60.233
			-	5:COMB1	-	-	-	5:COMB1
	10473	-ve	0.000	0.000	0.000	21.881	0.000	0.000
			-	-	-	5:COMB1	-	-
			0.000	-68.444	0.000	0.000	0.000	-7.717
			-	5:COMB1	-	-	-	5:COMB1
16908	13351	+ve	0.000	0.446	0.000	5.958	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
			0.000	0.000	0.000	0.000	0.000	-17.341
			-	-	-	-	-	5:COMB1
	10572	-ve	0.000	0.000	0.000	5.958	0.000	0.000
			-	-	-	5:COMB1	-	-
			0.000	-2.272	0.000	0.000	0.000	-16.572
			-	5:COMB1	-	-	-	5:COMB1
16913	13355	+ve	0.000	2.055	0.000	0.000	0.000	0.350
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-0.272	0.000	0.000
			-	-	-	5:COMB1	-	-
	10480	-ve	0.000	0.756	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
			0.000	0.000	0.000	-0.272	0.000	-1.347
			-	-	-	5:COMB1	-	5:COMB1
16915	13356	+ve	0.000	0.000	0.000	0.098	0.000	0.000
			-	-	-	5:COMB1	-	-
			0.000	-2.671	0.000	0.000	0.000	-3.390
			-	5:COMB1	-	-	-	5:COMB1
	13357	-ve	0.000	0.000	0.000	0.098	0.000	0.000
			-	-	-	5:COMB1	-	-
			0.000	-3.720	0.000	0.000	0.000	-0.273
			-	5:COMB1	-	-	-	5:COMB1
16917	13357	+ve	0.000	0.000	0.000	0.000	0.000	1.776
			-	-	-	-	-	5:COMB1
			0.000	-2.305	0.000	-0.896	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
	13358	-ve	0.000	0.000	0.000	0.000	0.000	4.537
			-	-	-	-	-	5:COMB1
			0.000	-3.355	0.000	-0.896	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
16919	13358	+ve	0.000	0.943	0.000	0.000	0.000	4.736
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-0.392	0.000	0.000
			-	-	-	5:COMB1	-	-
	13359	-ve	0.000	0.000	0.000	0.000	0.000	4.329
			-	-	-	-	-	5:COMB1
			0.000	-0.107	0.000	-0.392	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
16921	13359	+ve	0.000	8.046	0.000	1.515	0.000	4.503
			-	5:COMB1	-	5:COMB1	-	5:COMB1
			0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
	10455	-ve	0.000	6.996	0.000	1.515	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
			0.000	0.000	0.000	0.000	0.000	-2.834
			-	-	-	-	-	5:COMB1
16935	13369	+ve	0.000	1.443	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
			0.000	0.000	0.000	-2.316	0.000	-0.216
			-	-	-	5:COMB1	-	5:COMB1
	10618	-ve	0.000	0.000	0.000	0.000	0.000	0.377
			-	-	-	-	-	5:COMB1
			0.000	-2.432	0.000	-2.316	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
16953	13379	+ve	0.000	1.922	0.000	1.067	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
			0.000	0.000	0.000	0.000	0.000	-0.421
			-	-	-	-	-	5:COMB1
	10477	-ve	0.000	0.000	0.000	1.067	0.000	0.000
			-	-	-	5:COMB1	-	-
			0.000	-1.785	0.000	0.000	0.000	-0.499
			-	5:COMB1	-	-	-	5:COMB1
16964	13383	+ve	0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
			0.000	-12.457	0.000	-0.741	0.000	-13.316
			-	5:COMB1	-	5:COMB1	-	5:COMB1
	13386	-ve	0.000	0.000	0.000	0.000	0.000	0.827
			-	-	-	-	-	5:COMB1
			0.000	-13.624	0.000	-0.741	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
16965	13385	+ve	0.000	0.000	0.000	1.591	0.000	38.345
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-8.542	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
	10564	-ve	0.000	0.000	0.000	1.591	0.000	48.039
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-11.644	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
16967	13386	+ve	0.000	0.000	0.000	0.000	0.000	1.911
			-	-	-	-	-	5:COMB1
			0.000	-7.113	0.000	-0.553	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
	13388	-ve	0.000	0.000	0.000	0.000	0.000	10.259
			-	-	-	-	-	5:COMB1
			0.000	-8.281	0.000	-0.553	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
16969	13388	+ve	0.000	0.000	0.000	0.000	0.000	10.798
			-	-	-	-	-	5:COMB1
			0.000	-2.042	0.000	-0.103	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
	13390	-ve	0.000	0.000	0.000	0.000	0.000	13.645
			-	-	-	-	-	5:COMB1
			0.000	-3.209	0.000	-0.103	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
16971	13390	+ve	0.000	3.151	0.000	0.215	0.000	13.662
			-	5:COMB1	-	5:COMB1	-	5:COMB1
			0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
	13392	-ve	0.000	1.984	0.000	0.215	0.000	10.878
			-	5:COMB1	-	5:COMB1	-	5:COMB1
			0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
16973	13392	+ve	0.000	5.542	0.000	0.276	0.000	9.756
			-	5:COMB1	-	5:COMB1	-	5:COMB1
			0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
	10539	-ve	0.000	4.375	0.000	0.276	0.000	4.379
			-	5:COMB1	-	5:COMB1	-	5:COMB1
			0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
16975	13394	+ve	0.000	0.000	0.000	0.396	0.000	17.659
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-1.302	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
	10539	-ve	0.000	0.000	0.000	0.396	0.000	19.376
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-2.321	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
16977	13396	+ve	0.000	0.000	0.000	0.942	0.000	19.511
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-17.523	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
	13385	-ve	0.000	0.000	0.000	0.942	0.000	37.834
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-20.625	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
16983	13401	+ve	0.000	0.000	0.000	0.577	0.000	10.709
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-6.581	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
	13394	-ve	0.000	0.000	0.000	0.577	0.000	17.426
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-7.601	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
16985	13403	+ve	0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
			0.000	-26.474	0.000	-0.144	0.000	-8.179
			-	5:COMB1	-	5:COMB1	-	5:COMB1
	13396	-ve	0.000	0.000	0.000	0.000	0.000	18.739
			-	-	-	-	-	5:COMB1
			0.000	-29.576	0.000	-0.144	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
16991	13408	+ve	0.000	0.000	0.000	0.601	0.000	0.000
			-	-	-	5:COMB1	-	-
			0.000	-13.364	0.000	0.000	0.000	-3.484
			-	5:COMB1	-	-	-	5:COMB1
	13401	-ve	0.000	0.000	0.000	0.601	0.000	9.657
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-14.383	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
17004	13409	+ve	0.000	0.000	0.000	0.000	0.000	7.244
			-	-	-	-	-	5:COMB1
			0.000	-0.671	0.000	-0.648	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
	13412	-ve	0.000	0.000	0.000	0.000	0.000	8.225
			-	-	-	-	-	5:COMB1
			0.000	-1.601	0.000	-0.648	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
17005	13411	+ve	0.000	0.000	0.000	0.780	0.000	16.484
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-0.727	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
	10542	-ve	0.000	0.000	0.000	0.780	0.000	17.656
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-1.747	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
17007	13412	+ve	0.000	3.958	0.000	0.000	0.000	8.068
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-0.290	0.000	0.000
			-	-	-	5:COMB1	-	-
	13414	-ve	0.000	3.028	0.000	0.000	0.000	5.051
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-0.290	0.000	0.000
			-	-	-	5:COMB1	-	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
17009	13414	+ve	0.000	9.001	0.000	0.286	0.000	4.480
			-	5:COMB1	-	5:COMB1	-	5:COMB1
			0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
	13416	-ve	0.000	8.071	0.000	0.286	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
			0.000	0.000	0.000	0.000	0.000	-2.895
			-	-	-	-	-	5:COMB1
17011	13416	+ve	0.000	13.823	0.000	0.909	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
			0.000	0.000	0.000	0.000	0.000	-3.821
			-	-	-	-	-	5:COMB1
	13418	-ve	0.000	12.893	0.000	0.909	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
			0.000	0.000	0.000	0.000	0.000	-15.362
			-	-	-	-	-	5:COMB1
17013	13418	+ve	0.000	15.162	0.000	1.643	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
			0.000	0.000	0.000	0.000	0.000	-17.305
			-	-	-	-	-	5:COMB1
	10564	-ve	0.000	14.232	0.000	1.643	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
			0.000	0.000	0.000	0.000	0.000	-30.004
			-	-	-	-	-	5:COMB1
17016	13421	+ve	0.000	0.000	0.000	0.901	0.000	10.328
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-5.828	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
	13411	-ve	0.000	0.000	0.000	0.901	0.000	16.331
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-6.847	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
17023	13427	+ve	0.000	0.000	0.000	0.839	0.000	0.000
			-	-	-	5:COMB1	-	-
			0.000	-12.565	0.000	0.000	0.000	-3.028
			-	5:COMB1	-	-	-	5:COMB1
	13421	-ve	0.000	0.000	0.000	0.839	0.000	9.357
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-13.585	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
17036	13432	+ve	0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
			0.000	-14.055	0.000	-0.080	0.000	-14.315
			-	5:COMB1	-	5:COMB1	-	5:COMB1
	13435	-ve	0.000	0.000	0.000	0.000	0.000	1.445
			-	-	-	-	-	5:COMB1
			0.000	-15.214	0.000	-0.080	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
17037	13434	+ve	0.000	0.000	0.000	1.741	0.000	37.869
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-6.413	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
	10549	-ve	0.000	0.000	0.000	1.741	0.000	45.508
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-9.511	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
17039	13435	+ve	0.000	0.000	0.000	0.000	0.000	2.874
			-	-	-	-	-	5:COMB1
			0.000	-7.922	0.000	-0.243	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
	13437	-ve	0.000	0.000	0.000	0.000	0.000	12.029
			-	-	-	-	-	5:COMB1
			0.000	-9.082	0.000	-0.243	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
17041	13437	+ve	0.000	0.000	0.000	0.000	0.000	12.729
			-	-	-	-	-	5:COMB1
			0.000	-2.144	0.000	-0.184	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
	13439	-ve	0.000	0.000	0.000	0.000	0.000	15.661
			-	-	-	-	-	5:COMB1
			0.000	-3.303	0.000	-0.184	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
17043	13439	+ve	0.000	3.754	0.000	0.000	0.000	15.549
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-0.251	0.000	0.000
			-	-	-	5:COMB1	-	-
	13441	-ve	0.000	2.595	0.000	0.000	0.000	12.130
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-0.251	0.000	0.000
			-	-	-	5:COMB1	-	-
17045	13441	+ve	0.000	6.559	0.000	0.000	0.000	10.950
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-0.350	0.000	0.000
			-	-	-	5:COMB1	-	-
	10542	-ve	0.000	5.400	0.000	0.000	0.000	4.511
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-0.350	0.000	0.000
			-	-	-	5:COMB1	-	-
17048	13444	+ve	0.000	0.000	0.000	1.418	0.000	21.354
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-15.223	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
	13434	-ve	0.000	0.000	0.000	1.418	0.000	37.445
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-18.321	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
17055	13450	+ve	0.000	0.000	0.000	0.589	0.000	0.000
			-	-	-	5:COMB1	-	-
			0.000	-24.015	0.000	0.000	0.000	-3.818
			-	5:COMB1	-	-	-	5:COMB1
	13444	-ve	0.000	0.000	0.000	0.589	0.000	20.711
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-27.113	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
17068	13455	+ve	0.000	0.237	0.000	0.000	0.000	9.738
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-0.926	0.000	0.000
			-	-	-	5:COMB1	-	-
	13458	-ve	0.000	0.000	0.000	0.000	0.000	9.942
			-	-	-	-	-	5:COMB1
			0.000	-0.704	0.000	-0.926	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
17069	13457	+ve	0.000	0.000	0.000	1.330	0.000	18.897
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-3.773	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
	10545	-ve	0.000	0.000	0.000	1.330	0.000	22.953
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-4.792	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
17071	13458	+ve	0.000	5.637	0.000	0.000	0.000	9.620
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-0.839	0.000	0.000
			-	-	-	5:COMB1	-	-
	13460	-ve	0.000	4.695	0.000	0.000	0.000	5.098
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-0.839	0.000	0.000
			-	-	-	5:COMB1	-	-
17073	13460	+ve	0.000	11.626	0.000	0.000	0.000	4.325
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-0.554	0.000	0.000
			-	-	-	5:COMB1	-	-
	13462	-ve	0.000	10.684	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
			0.000	0.000	0.000	-0.554	0.000	-5.438
			-	-	-	5:COMB1	-	5:COMB1
17075	13462	+ve	0.000	16.790	0.000	0.073	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
			0.000	0.000	0.000	0.000	0.000	-6.684
			-	-	-	-	-	5:COMB1
	13464	-ve	0.000	15.848	0.000	0.073	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
			0.000	0.000	0.000	0.000	0.000	-20.964
			-	-	-	-	-	5:COMB1

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
17077	13464	+ve	0.000	17.743	0.000	1.257	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
			0.000	0.000	0.000	0.000	0.000	-23.221
			-	-	-	-	-	5:COMB1
	10549	-ve	0.000	16.801	0.000	1.257	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
			0.000	0.000	0.000	0.000	0.000	-38.337
			-	-	-	-	-	5:COMB1
17080	13467	+ve	0.000	0.000	0.000	1.505	0.000	9.816
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-8.608	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
	13457	-ve	0.000	0.000	0.000	1.505	0.000	18.453
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-9.628	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
17087	13473	+ve	0.000	0.000	0.000	1.389	0.000	0.000
			-	-	-	5:COMB1	-	-
			0.000	-15.155	0.000	0.000	0.000	-6.269
			-	5:COMB1	-	-	-	5:COMB1
	13467	-ve	0.000	0.000	0.000	1.389	0.000	8.568
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-16.174	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
17100	13478	+ve	0.000	0.000	0.000	0.671	0.000	0.000
			-	-	-	5:COMB1	-	-
			0.000	-15.880	0.000	0.000	0.000	-13.018
			-	5:COMB1	-	-	-	5:COMB1
	13481	-ve	0.000	0.000	0.000	0.671	0.000	4.421
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-17.021	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
17101	13480	+ve	0.000	0.000	0.000	0.000	0.000	46.018
			-	-	-	-	-	5:COMB1
			0.000	-20.805	0.000	-5.597	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
	10558	-ve	0.000	0.000	0.000	0.000	0.000	67.387
			-	-	-	-	-	5:COMB1
			0.000	-23.892	0.000	-5.597	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
17103	13481	+ve	0.000	0.000	0.000	0.000	0.000	5.855
			-	-	-	-	-	5:COMB1
			0.000	-8.806	0.000	-0.030	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
	13483	-ve	0.000	0.000	0.000	0.000	0.000	15.796
			-	-	-	-	-	5:COMB1
			0.000	-9.947	0.000	-0.030	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
17105	13483	+ve	0.000	0.000	0.000	0.000	0.000	16.463
			-	-	-	-	-	5:COMB1
			0.000	-1.973	0.000	-0.607	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
	13485	-ve	0.000	0.000	0.000	0.000	0.000	19.159
			-	-	-	-	-	5:COMB1
			0.000	-3.114	0.000	-0.607	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
17107	13485	+ve	0.000	4.356	0.000	0.000	0.000	19.103
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-1.007	0.000	0.000
			-	-	-	5:COMB1	-	-
	13487	-ve	0.000	3.215	0.000	0.000	0.000	15.090
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-1.007	0.000	0.000
			-	-	-	5:COMB1	-	-
17109	13487	+ve	0.000	6.807	0.000	0.000	0.000	13.882
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-1.081	0.000	0.000
			-	-	-	5:COMB1	-	-
	10545	-ve	0.000	5.666	0.000	0.000	0.000	7.270
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-1.081	0.000	0.000
			-	-	-	5:COMB1	-	-
17112	13490	+ve	0.000	0.000	0.000	0.000	0.000	15.383
			-	-	-	-	-	5:COMB1
			0.000	-29.537	0.000	-6.586	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
	13480	-ve	0.000	0.000	0.000	0.000	0.000	45.105
			-	-	-	-	-	5:COMB1
			0.000	-32.624	0.000	-6.586	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
17119	13496	+ve	0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
			0.000	-38.225	0.000	-7.598	0.000	-23.790
			-	5:COMB1	-	5:COMB1	-	5:COMB1
	13490	-ve	0.000	0.000	0.000	0.000	0.000	14.237
			-	-	-	-	-	5:COMB1
			0.000	-41.313	0.000	-7.598	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
17132	13501	+ve	0.000	0.000	0.000	0.000	0.000	3.720
			-	-	-	-	-	5:COMB1
			0.000	-1.051	0.000	-1.295	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
	13504	-ve	0.000	0.000	0.000	0.000	0.000	5.077
			-	-	-	-	-	5:COMB1
			0.000	-2.006	0.000	-1.295	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
17133	13503	+ve	0.000	2.368	0.000	1.520	0.000	7.058
			-	5:COMB1	-	5:COMB1	-	5:COMB1
			0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
	10546	-ve	0.000	1.349	0.000	1.520	0.000	5.297
			-	5:COMB1	-	5:COMB1	-	5:COMB1
			0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
17135	13504	+ve	0.000	2.010	0.000	0.000	0.000	5.642
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-0.222	0.000	0.000
			-	-	-	5:COMB1	-	-
	13506	-ve	0.000	1.055	0.000	0.000	0.000	4.282
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-0.222	0.000	0.000
			-	-	-	5:COMB1	-	-
17137	13506	+ve	0.000	6.768	0.000	0.566	0.000	3.766
			-	5:COMB1	-	5:COMB1	-	5:COMB1
			0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
	13508	-ve	0.000	5.813	0.000	0.566	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
			0.000	0.000	0.000	0.000	0.000	-1.815
			-	-	-	-	-	5:COMB1
17139	13508	+ve	0.000	12.616	0.000	1.088	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
			0.000	0.000	0.000	0.000	0.000	-2.995
			-	-	-	-	-	5:COMB1
	13510	-ve	0.000	11.661	0.000	1.088	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
			0.000	0.000	0.000	0.000	0.000	-13.767
			-	-	-	-	-	5:COMB1
17141	13510	+ve	0.000	14.930	0.000	1.606	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
			0.000	0.000	0.000	0.000	0.000	-15.603
			-	-	-	-	-	5:COMB1
	10558	-ve	0.000	13.975	0.000	1.606	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
			0.000	0.000	0.000	0.000	0.000	-28.427
			-	-	-	-	-	5:COMB1
17144	13513	+ve	0.000	0.000	0.000	0.782	0.000	5.275
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-1.799	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
	13503	-ve	0.000	0.000	0.000	0.782	0.000	7.463
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-2.819	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
17151	13519	+ve	0.000	0.000	0.000	0.140	0.000	0.000
			-	-	-	5:COMB1	-	-
			0.000	-7.436	0.000	0.000	0.000	-2.659
			-	5:COMB1	-	-	-	5:COMB1
	13513	-ve	0.000	0.000	0.000	0.140	0.000	4.867
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-8.456	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
17165	13524	+ve	0.000	0.000	0.000	0.000	0.000	8.946
			-	-	-	-	-	5:COMB1
			0.000	-1.834	0.000	-0.422	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
	13526	-ve	0.000	0.000	0.000	0.000	0.000	10.926
			-	-	-	-	-	5:COMB1
			0.000	-2.761	0.000	-0.422	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
17167	13526	+ve	0.000	2.751	0.000	0.000	0.000	10.919
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-0.279	0.000	0.000
			-	-	-	5:COMB1	-	-
	13528	-ve	0.000	1.823	0.000	0.000	0.000	8.948
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-0.279	0.000	0.000
			-	-	-	5:COMB1	-	-
17169	13528	+ve	0.000	7.675	0.000	0.002	0.000	8.445
			-	5:COMB1	-	5:COMB1	-	5:COMB1
			0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
	13530	-ve	0.000	6.748	0.000	0.002	0.000	2.231
			-	5:COMB1	-	5:COMB1	-	5:COMB1
			0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
17171	13530	+ve	0.000	12.404	0.000	0.418	0.000	1.218
			-	5:COMB1	-	5:COMB1	-	5:COMB1
			0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
	13532	-ve	0.000	11.476	0.000	0.418	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
			0.000	0.000	0.000	0.000	0.000	-9.069
			-	-	-	-	-	5:COMB1
17173	13532	+ve	0.000	13.295	0.000	1.017	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
			0.000	0.000	0.000	0.000	0.000	-10.853
			-	-	-	-	-	5:COMB1
	10547	-ve	0.000	12.368	0.000	1.017	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
			0.000	0.000	0.000	0.000	0.000	-21.910
			-	-	-	-	-	5:COMB1

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
17175	13534	+ve	0.000	0.000	0.000	15.458	0.000	26.791
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-0.294	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
	10547	-ve	0.000	0.000	0.000	15.458	0.000	28.567
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-3.399	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
17182	13540	+ve	0.000	0.000	0.000	13.985	0.000	15.499
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-9.914	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
	13534	-ve	0.000	0.000	0.000	13.985	0.000	26.528
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-13.020	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
17189	13546	+ve	0.000	0.000	0.000	12.270	0.000	0.000
			-	-	-	5:COMB1	-	-
			0.000	-19.169	0.000	0.000	0.000	-5.030
			-	5:COMB1	-	-	-	5:COMB1
	13540	-ve	0.000	0.000	0.000	12.270	0.000	14.903
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-22.275	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
17218	13557	+ve	0.000	42.254	0.000	0.000	0.000	12.113
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-2.768	0.000	0.000
			-	-	-	5:COMB1	-	-
	13558	-ve	0.000	39.010	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
			0.000	0.000	0.000	-2.768	0.000	-28.711
			-	-	-	5:COMB1	-	5:COMB1
17219	13558	+ve	0.000	50.587	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
			0.000	0.000	0.000	-5.294	0.000	-30.226
			-	-	-	5:COMB1	-	5:COMB1
	13559	-ve	0.000	47.342	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
			0.000	0.000	0.000	-5.294	0.000	-79.427
			-	-	-	5:COMB1	-	5:COMB1
17220	13559	+ve	0.000	46.167	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
			0.000	0.000	0.000	-8.812	0.000	-83.230
			-	-	-	5:COMB1	-	5:COMB1
	10551	-ve	0.000	42.923	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
			0.000	0.000	0.000	-8.812	0.000	-127.986
			-	-	-	5:COMB1	-	5:COMB1

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
17221	13560	+ve	0.000	27.946	0.000	4.748	0.000	47.475
			-	5:COMB1	-	5:COMB1	-	5:COMB1
			0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
	13561	-ve	0.000	24.107	0.000	4.748	0.000	16.529
			-	5:COMB1	-	5:COMB1	-	5:COMB1
			0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
17222	13561	+ve	0.000	35.702	0.000	6.952	0.000	14.685
			-	5:COMB1	-	5:COMB1	-	5:COMB1
			0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
	13562	-ve	0.000	31.862	0.000	6.952	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
			0.000	0.000	0.000	0.000	0.000	-25.486
			-	-	-	-	-	5:COMB1
17223	13562	+ve	0.000	25.577	0.000	7.108	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
			0.000	0.000	0.000	0.000	0.000	-29.003
			-	-	-	-	-	5:COMB1
	10450	-ve	0.000	21.738	0.000	7.108	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
			0.000	0.000	0.000	0.000	0.000	-57.132
			-	-	-	-	-	5:COMB1
17224	13563	+ve	0.000	11.554	0.000	0.264	0.000	17.037
			-	5:COMB1	-	5:COMB1	-	5:COMB1
			0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
	13564	-ve	0.000	10.422	0.000	0.264	0.000	5.477
			-	5:COMB1	-	5:COMB1	-	5:COMB1
			0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
17225	13564	+ve	0.000	19.715	0.000	0.000	0.000	3.916
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-0.272	0.000	0.000
			-	-	-	5:COMB1	-	-
	13565	-ve	0.000	18.582	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
			0.000	0.000	0.000	-0.272	0.000	-16.232
			-	-	-	5:COMB1	-	5:COMB1
17226	13565	+ve	0.000	22.028	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
			0.000	0.000	0.000	-1.084	0.000	-19.280
			-	-	-	5:COMB1	-	5:COMB1
	10544	-ve	0.000	20.896	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
			0.000	0.000	0.000	-1.084	0.000	-41.862
			-	-	-	5:COMB1	-	5:COMB1

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
17227	13566	+ve	0.000	13.174	0.000	0.575	0.000	8.818
			-	5:COMB1	-	5:COMB1	-	5:COMB1
			0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
	13567	-ve	0.000	12.268	0.000	0.575	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
			0.000	0.000	0.000	0.000	0.000	-1.896
			-	-	-	-	-	5:COMB1
17228	13567	+ve	0.000	18.354	0.000	0.420	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
			0.000	0.000	0.000	0.000	0.000	-3.358
			-	-	-	-	-	5:COMB1
	13568	-ve	0.000	17.448	0.000	0.420	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
			0.000	0.000	0.000	0.000	0.000	-18.434
			-	-	-	-	-	5:COMB1
17229	13568	+ve	0.000	18.976	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
			0.000	0.000	0.000	-0.069	0.000	-20.728
			-	-	-	5:COMB1	-	5:COMB1
	10541	-ve	0.000	18.069	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
			0.000	0.000	0.000	-0.069	0.000	-36.326
			-	-	-	5:COMB1	-	5:COMB1
17323	12258	+ve	0.000	0.000	0.000	1.017	0.000	18.790
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-4.091	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
	12261	-ve	0.000	0.000	0.000	1.017	0.000	26.235
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-8.051	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
17325	12261	+ve	0.000	5.020	0.000	0.356	0.000	26.002
			-	5:COMB1	-	5:COMB1	-	5:COMB1
			0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
	10518	-ve	0.000	1.060	0.000	0.356	0.000	22.275
			-	5:COMB1	-	5:COMB1	-	5:COMB1
			0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
17327	10518	+ve	0.000	17.109	0.000	3.984	0.000	21.382
			-	5:COMB1	-	5:COMB1	-	5:COMB1
			0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
	12272	-ve	0.000	12.944	0.000	3.984	0.000	1.997
			-	5:COMB1	-	5:COMB1	-	5:COMB1
			0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
17329	12272	+ve	0.000	22.922	0.000	4.003	0.000	1.398
			-	5:COMB1	-	5:COMB1	-	5:COMB1
			0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
	12274	-ve	0.000	18.756	0.000	4.003	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
			0.000	0.000	0.000	0.000	0.000	-25.484
			-	-	-	-	-	5:COMB1
17331	12274	+ve	0.000	7.029	0.000	5.985	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
			0.000	0.000	0.000	0.000	0.000	-26.081
			-	-	-	-	-	5:COMB1
	10452	-ve	0.000	2.864	0.000	5.985	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
			0.000	0.000	0.000	0.000	0.000	-32.462
			-	-	-	-	-	5:COMB1
17347	13633	+ve	0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
			0.000	-4.489	0.000	-0.725	0.000	-6.646
			-	5:COMB1	-	5:COMB1	-	5:COMB1
	13634	-ve	0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
			0.000	-5.543	0.000	-0.725	0.000	-1.737
			-	5:COMB1	-	5:COMB1	-	5:COMB1
17348	13634	+ve	0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
			0.000	-1.323	0.000	-1.261	0.000	-1.536
			-	5:COMB1	-	5:COMB1	-	5:COMB1
	11309	-ve	0.000	0.000	0.000	0.000	0.000	0.274
			-	-	-	-	-	5:COMB1
			0.000	-2.376	0.000	-1.261	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
17349	13635	+ve	0.000	0.000	0.000	0.000	0.000	4.192
			-	-	-	-	-	5:COMB1
			0.000	-2.829	0.000	-3.403	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
	13636	-ve	0.000	0.000	0.000	0.000	0.000	8.949
			-	-	-	-	-	5:COMB1
			0.000	-6.223	0.000	-3.403	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
17350	13636	+ve	0.000	7.400	0.000	0.000	0.000	8.939
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-6.596	0.000	0.000
			-	-	-	5:COMB1	-	-
	13637	-ve	0.000	4.007	0.000	0.000	0.000	2.946
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-6.596	0.000	0.000
			-	-	-	5:COMB1	-	-

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
17351	13637	+ve	0.000	17.454	0.000	0.000	0.000	2.456
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-8.317	0.000	0.000
			-	-	-	5:COMB1	-	-
	13638	-ve	0.000	14.060	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
			0.000	0.000	0.000	-8.317	0.000	-14.105
			-	-	-	5:COMB1	-	5:COMB1
17352	13638	+ve	0.000	21.721	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
			0.000	0.000	0.000	-8.529	0.000	-15.273
			-	-	-	5:COMB1	-	5:COMB1
	10478	-ve	0.000	18.327	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
			0.000	0.000	0.000	-8.529	0.000	-36.318
			-	-	-	5:COMB1	-	5:COMB1
17353	13639	+ve	0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
			0.000	-8.987	0.000	-1.104	0.000	-5.362
			-	5:COMB1	-	5:COMB1	-	5:COMB1
	13640	-ve	0.000	0.000	0.000	0.000	0.000	6.462
			-	-	-	-	-	5:COMB1
			0.000	-12.535	0.000	-1.104	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
17354	13640	+ve	0.000	0.000	0.000	0.000	0.000	7.002
			-	-	-	-	-	5:COMB1
			0.000	-2.470	0.000	-1.085	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
	13641	-ve	0.000	0.000	0.000	0.000	0.000	11.667
			-	-	-	-	-	5:COMB1
			0.000	-6.019	0.000	-1.085	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
17355	13641	+ve	0.000	7.012	0.000	0.282	0.000	11.818
			-	5:COMB1	-	5:COMB1	-	5:COMB1
			0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
	13642	-ve	0.000	3.463	0.000	0.282	0.000	6.063
			-	5:COMB1	-	5:COMB1	-	5:COMB1
			0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
17356	13642	+ve	0.000	17.038	0.000	3.123	0.000	5.824
			-	5:COMB1	-	5:COMB1	-	5:COMB1
			0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
	13643	-ve	0.000	13.490	0.000	3.123	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
			0.000	0.000	0.000	0.000	0.000	-10.950
			-	-	-	-	-	5:COMB1

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
17357	13643	+ve	0.000	1.420	0.000	5.510	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
			0.000	0.000	0.000	0.000	0.000	-11.311
			-	-	-	-	-	5:COMB1
	13644	-ve	0.000	0.000	0.000	5.510	0.000	0.000
			-	-	-	5:COMB1	-	-
			0.000	-2.129	0.000	0.000	0.000	-10.921
			-	5:COMB1	-	-	-	5:COMB1
17358	13644	+ve	0.000	5.407	0.000	5.947	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
			0.000	0.000	0.000	0.000	0.000	-11.769
			-	-	-	-	-	5:COMB1
	10578	-ve	0.000	1.858	0.000	5.947	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
			0.000	0.000	0.000	0.000	0.000	-15.760
			-	-	-	-	-	5:COMB1
17454	13693	+ve	0.000	0.000	0.000	1.953	0.000	6.483
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-1.702	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
	13694	-ve	0.000	0.000	0.000	1.953	0.000	8.695
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-2.767	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
17455	13694	+ve	0.000	4.810	0.000	1.358	0.000	8.625
			-	5:COMB1	-	5:COMB1	-	5:COMB1
			0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
	13695	-ve	0.000	3.745	0.000	1.358	0.000	4.391
			-	5:COMB1	-	5:COMB1	-	5:COMB1
			0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
17456	13695	+ve	0.000	8.351	0.000	0.000	0.000	4.279
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-0.490	0.000	0.000
			-	-	-	5:COMB1	-	-
	11416	-ve	0.000	7.285	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
			0.000	0.000	0.000	-0.490	0.000	-3.458
			-	-	-	5:COMB1	-	5:COMB1
17509	13724	+ve	0.000	17.036	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
			0.000	0.000	0.000	-0.211	0.000	-12.639
			-	-	-	5:COMB1	-	5:COMB1
	10434	-ve	0.000	16.219	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
			0.000	0.000	0.000	-0.211	0.000	-25.256
			-	-	-	5:COMB1	-	5:COMB1

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
17517	10434	+ve	0.000	23.053	0.000	0.000	0.000	76.926
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-1.678	0.000	0.000
			-	-	-	5:COMB1	-	-
	13802	-ve	0.000	19.324	0.000	0.000	0.000	52.458
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-1.678	0.000	0.000
			-	-	-	5:COMB1	-	-
17519	13733	+ve	0.000	37.650	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
			0.000	0.000	0.000	-2.510	0.000	-24.836
			-	-	-	5:COMB1	-	5:COMB1
	10445	-ve	0.000	35.160	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
			0.000	0.000	0.000	-2.510	0.000	-52.912
			-	-	-	5:COMB1	-	5:COMB1
17521	13735	+ve	0.000	16.306	0.000	0.000	0.000	1.299
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-0.287	0.000	0.000
			-	-	-	5:COMB1	-	-
	13724	-ve	0.000	15.489	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
			0.000	0.000	0.000	-0.287	0.000	-10.764
			-	-	-	5:COMB1	-	5:COMB1
17527	13740	+ve	0.000	30.597	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
			0.000	0.000	0.000	-3.214	0.000	-0.988
			-	-	-	5:COMB1	-	5:COMB1
	13733	-ve	0.000	28.107	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
			0.000	0.000	0.000	-3.214	0.000	-23.624
			-	-	-	5:COMB1	-	5:COMB1
17529	13742	+ve	0.000	12.051	0.000	0.000	0.000	11.430
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-0.310	0.000	0.000
			-	-	-	5:COMB1	-	-
	13735	-ve	0.000	11.234	0.000	0.000	0.000	2.595
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-0.310	0.000	0.000
			-	-	-	5:COMB1	-	-
17535	13747	+ve	0.000	24.079	0.000	0.000	0.000	17.427
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-4.699	0.000	0.000
			-	-	-	5:COMB1	-	-
	13740	-ve	0.000	21.589	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
			0.000	0.000	0.000	-4.699	0.000	-0.183
			-	-	-	5:COMB1	-	5:COMB1

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
17575	13766	+ve	0.000	30.865	0.000	3.217	0.000	26.914
			-	5:COMB1	-	5:COMB1	-	5:COMB1
			0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
	13767	-ve	0.000	28.377	0.000	3.217	0.000	4.092
			-	5:COMB1	-	5:COMB1	-	5:COMB1
			0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
17576	13767	+ve	0.000	34.658	0.000	1.963	0.000	3.218
			-	5:COMB1	-	5:COMB1	-	5:COMB1
			0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
	13768	-ve	0.000	32.170	0.000	1.963	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
			0.000	0.000	0.000	0.000	0.000	-22.526
			-	-	-	-	-	5:COMB1
17577	13768	+ve	0.000	29.002	0.000	0.081	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
			0.000	0.000	0.000	0.000	0.000	-24.429
			-	-	-	-	-	5:COMB1
	10453	-ve	0.000	26.514	0.000	0.081	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
			0.000	0.000	0.000	0.000	0.000	-45.815
			-	-	-	-	-	5:COMB1
17585	13777	+ve	0.000	56.212	0.000	0.000	0.000	27.572
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-11.633	0.000	0.000
			-	-	-	5:COMB1	-	-
	13779	-ve	0.000	52.449	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
			0.000	0.000	0.000	-11.633	0.000	-35.750
			-	-	-	5:COMB1	-	5:COMB1
17587	13779	+ve	0.000	68.713	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
			0.000	0.000	0.000	-10.057	0.000	-37.221
			-	-	-	5:COMB1	-	5:COMB1
	13781	-ve	0.000	64.950	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
			0.000	0.000	0.000	-10.057	0.000	-115.112
			-	-	-	5:COMB1	-	5:COMB1
17589	13781	+ve	0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
			0.000	-92.621	0.000	-8.328	0.000	-114.617
			-	5:COMB1	-	5:COMB1	-	5:COMB1
	10453	-ve	0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
			0.000	-96.385	0.000	-8.328	0.000	-4.475
			-	5:COMB1	-	5:COMB1	-	5:COMB1

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
17603	13783	+ve	0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
			0.000	-38.107	0.000	-3.479	0.000	-29.726
			-	5:COMB1	-	5:COMB1	-	5:COMB1
	13786	-ve	0.000	0.000	0.000	0.000	0.000	14.078
			-	-	-	-	-	5:COMB1
			0.000	-41.654	0.000	-3.479	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
17605	13786	+ve	0.000	0.000	0.000	0.000	0.000	15.266
			-	-	-	-	-	5:COMB1
			0.000	-26.912	0.000	-2.868	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
	13788	-ve	0.000	0.000	0.000	0.000	0.000	46.774
			-	-	-	-	-	5:COMB1
			0.000	-30.459	0.000	-2.868	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
17607	13788	+ve	0.000	0.000	0.000	0.000	0.000	47.339
			-	-	-	-	-	5:COMB1
			0.000	-15.088	0.000	-3.401	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
	13790	-ve	0.000	0.000	0.000	0.000	0.000	65.860
			-	-	-	-	-	5:COMB1
			0.000	-18.635	0.000	-3.401	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
17609	13790	+ve	0.000	0.000	0.000	0.000	0.000	65.802
			-	-	-	-	-	5:COMB1
			0.000	-6.019	0.000	-3.934	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
	10434	-ve	0.000	0.000	0.000	0.000	0.000	74.360
			-	-	-	-	-	5:COMB1
			0.000	-9.565	0.000	-3.934	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
17632	13802	+ve	0.000	30.782	0.000	0.000	0.000	51.924
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-1.012	0.000	0.000
			-	-	-	5:COMB1	-	-
	13803	-ve	0.000	27.054	0.000	0.000	0.000	18.533
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-1.012	0.000	0.000
			-	-	-	5:COMB1	-	-
17633	13803	+ve	0.000	35.158	0.000	1.827	0.000	15.043
			-	5:COMB1	-	5:COMB1	-	5:COMB1
			0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
	13804	-ve	0.000	31.429	0.000	1.827	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
			0.000	0.000	0.000	0.000	0.000	-23.405
			-	-	-	-	-	5:COMB1

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
17634	13804	+ve	0.000	33.153	0.000	7.360	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
			0.000	0.000	0.000	0.000	0.000	-25.873
			-	-	-	-	-	5:COMB1
	10445	-ve	0.000	29.424	0.000	7.360	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
			0.000	0.000	0.000	0.000	0.000	-62.002
			-	-	-	-	-	5:COMB1
17649	13805	+ve	0.000	14.721	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
			0.000	0.000	0.000	-0.294	0.000	-4.435
			-	-	-	5:COMB1	-	5:COMB1
	13807	-ve	0.000	13.346	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
			0.000	0.000	0.000	-0.294	0.000	-22.370
			-	-	-	5:COMB1	-	5:COMB1
17651	13807	+ve	0.000	8.529	0.000	3.667	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
			0.000	0.000	0.000	0.000	0.000	-28.042
			-	-	-	-	-	5:COMB1
	10471	-ve	0.000	7.153	0.000	3.667	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
			0.000	0.000	0.000	0.000	0.000	-38.063
			-	-	-	-	-	5:COMB1
17665	13817	+ve	0.000	4.943	0.000	0.183	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
			0.000	0.000	0.000	0.000	0.000	-9.336
			-	-	-	-	-	5:COMB1
	10581	-ve	0.000	3.626	0.000	0.183	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
			0.000	0.000	0.000	0.000	0.000	-14.580
			-	-	-	-	-	5:COMB1
17667	13819	+ve	0.000	0.000	0.000	1.674	0.000	0.000
			-	-	-	5:COMB1	-	-
			0.000	-1.653	0.000	0.000	0.000	-11.290
			-	5:COMB1	-	-	-	5:COMB1
	13817	-ve	0.000	0.000	0.000	1.674	0.000	0.000
			-	-	-	5:COMB1	-	-
			0.000	-2.970	0.000	0.000	0.000	-8.461
			-	5:COMB1	-	-	-	5:COMB1
17698	13836	+ve	0.000	11.958	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
			0.000	0.000	0.000	-0.682	0.000	-5.788
			-	-	-	5:COMB1	-	5:COMB1
	10580	-ve	0.000	10.757	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
			0.000	0.000	0.000	-0.682	0.000	-18.459
			-	-	-	5:COMB1	-	5:COMB1

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
17699	13837	+ve	0.000	7.866	0.000	0.000	0.000	4.202
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-1.202	0.000	0.000
			-	-	-	5:COMB1	-	-
	13836	-ve	0.000	6.637	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
			0.000	0.000	0.000	-1.202	0.000	-4.080
			-	-	-	5:COMB1	-	5:COMB1
17700	13838	+ve	0.000	0.000	0.000	0.000	0.000	3.026
			-	-	-	-	-	5:COMB1
			0.000	-0.465	0.000	-1.758	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
	13837	-ve	0.000	0.000	0.000	0.000	0.000	4.316
			-	-	-	-	-	5:COMB1
			0.000	-1.730	0.000	-1.758	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
17701	13839	+ve	0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
			0.000	-6.743	0.000	-1.833	0.000	-6.726
			-	5:COMB1	-	5:COMB1	-	5:COMB1
	13838	-ve	0.000	0.000	0.000	0.000	0.000	2.281
			-	-	-	-	-	5:COMB1
			0.000	-8.054	0.000	-1.833	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
17702	13840	+ve	0.000	18.293	0.000	1.543	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
			0.000	0.000	0.000	0.000	0.000	-3.109
			-	-	-	-	-	5:COMB1
	10471	-ve	0.000	13.234	0.000	1.543	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
			0.000	0.000	0.000	0.000	0.000	-27.801
			-	-	-	-	-	5:COMB1
17703	13841	+ve	0.000	9.078	0.000	7.753	0.000	9.761
			-	5:COMB1	-	5:COMB1	-	5:COMB1
			0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
	13840	-ve	0.000	4.178	0.000	7.753	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
			0.000	0.000	0.000	0.000	0.000	-0.296
			-	-	-	-	-	5:COMB1
17704	13842	+ve	0.000	0.000	0.000	8.628	0.000	0.000
			-	-	-	5:COMB1	-	-
			0.000	-7.364	0.000	0.000	0.000	-4.792
			-	5:COMB1	-	-	-	5:COMB1
	13841	-ve	0.000	0.000	0.000	8.628	0.000	9.432
			-	-	-	5:COMB1	-	5:COMB1
			0.000	-12.087	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-

Beam End Forces Envelope Cont...

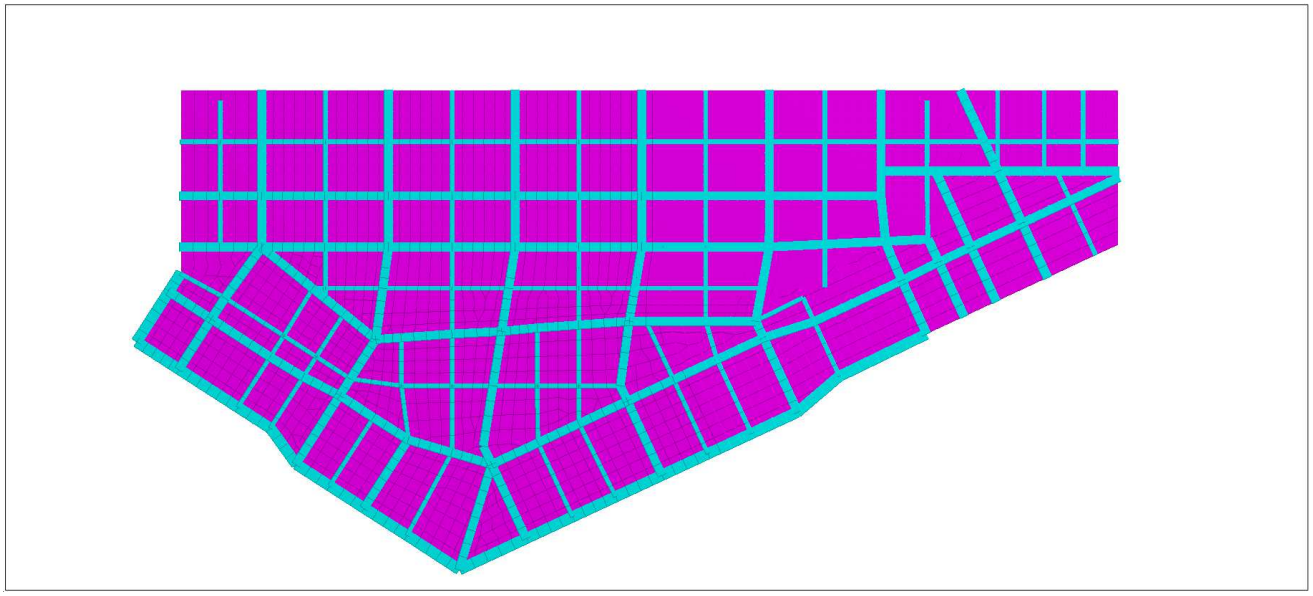
Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
17747	13852	+ve	0.000	16.631	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
			0.000	0.000	0.000	-5.552	0.000	-15.567
			-	-	-	5:COMB1	-	5:COMB1
	10437	-ve	0.000	15.383	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
			0.000	0.000	0.000	-5.552	0.000	-34.136
			-	-	-	5:COMB1	-	5:COMB1
17749	13854	+ve	0.000	10.695	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
			0.000	0.000	0.000	-3.133	0.000	-1.663
			-	-	-	5:COMB1	-	5:COMB1
	13852	-ve	0.000	9.446	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
			0.000	0.000	0.000	-3.133	0.000	-13.345
			-	-	-	5:COMB1	-	5:COMB1
17766	13862	+ve	0.000	17.312	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
			0.000	0.000	0.000	-4.302	0.000	-10.052
			-	-	-	5:COMB1	-	5:COMB1
	10467	-ve	0.000	15.900	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
			0.000	0.000	0.000	-4.302	0.000	-31.835
			-	-	-	5:COMB1	-	5:COMB1
17768	13863	+ve	0.000	14.326	0.000	0.000	0.000	10.974
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-1.457	0.000	0.000
			-	-	-	5:COMB1	-	-
	13862	-ve	0.000	12.914	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
			0.000	0.000	0.000	-1.457	0.000	-6.892
			-	-	-	5:COMB1	-	5:COMB1
17770	13864	+ve	0.000	5.939	0.000	0.397	0.000	19.084
			-	5:COMB1	-	5:COMB1	-	5:COMB1
			0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
	13863	-ve	0.000	4.527	0.000	0.397	0.000	12.219
			-	5:COMB1	-	5:COMB1	-	5:COMB1
			0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
17774	13867	+ve	0.000	45.613	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
			0.000	0.000	0.000	-9.413	0.000	-25.503
			-	-	-	5:COMB1	-	5:COMB1
	10447	-ve	0.000	41.071	0.000	0.000	0.000	0.000
			-	5:COMB1	-	-	-	-
			0.000	0.000	0.000	-9.413	0.000	-86.464
			-	-	-	5:COMB1	-	5:COMB1

Beam End Forces Envelope Cont...

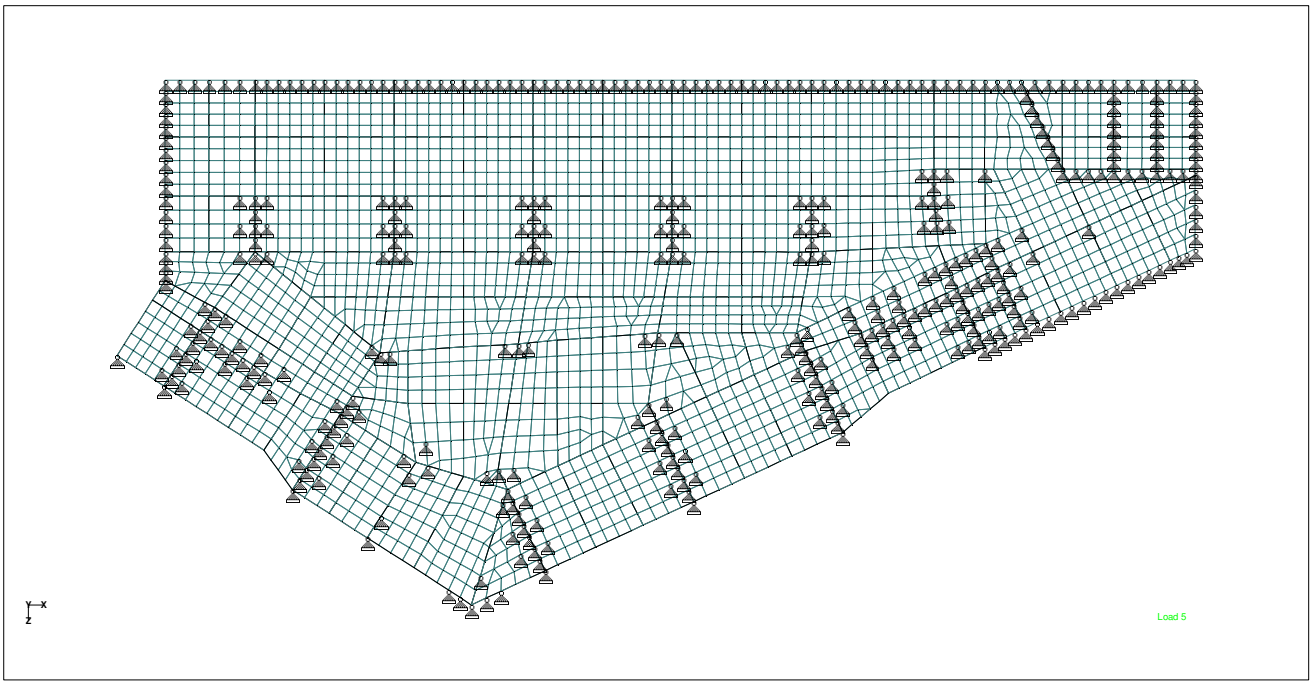
Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
17779	13873	+ve	0.000	50.119	0.000	1.338	0.000	49.745
			-	5:COMB1	-	5:COMB1	-	5:COMB1
			0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
	13867	-ve	0.000	45.577	0.000	1.338	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
			0.000	0.000	0.000	0.000	0.000	-17.553
			-	-	-	-	-	5:COMB1
17784	13877	+ve	0.000	33.605	0.000	1.620	0.000	95.365
			-	5:COMB1	-	5:COMB1	-	5:COMB1
			0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
	13873	-ve	0.000	29.063	0.000	1.620	0.000	51.294
			-	5:COMB1	-	5:COMB1	-	5:COMB1
			0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
17799	13882	+ve	0.000	16.421	0.000	1.942	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
			0.000	0.000	0.000	0.000	0.000	-18.962
			-	-	-	-	-	5:COMB1
	10643	-ve	0.000	14.768	0.000	1.942	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
			0.000	0.000	0.000	0.000	0.000	-42.907
			-	-	-	-	-	5:COMB1
17804	13888	+ve	0.000	13.672	0.000	0.100	0.000	3.840
			-	5:COMB1	-	5:COMB1	-	5:COMB1
			0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
	13882	-ve	0.000	12.019	0.000	0.100	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
			0.000	0.000	0.000	0.000	0.000	-15.882
			-	-	-	-	-	5:COMB1
17809	13892	+ve	0.000	7.824	0.000	0.000	0.000	16.323
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-1.528	0.000	0.000
			-	-	-	5:COMB1	-	-
	13888	-ve	0.000	6.171	0.000	0.000	0.000	5.578
			-	5:COMB1	-	-	-	5:COMB1
			0.000	0.000	0.000	-1.528	0.000	0.000
			-	-	-	5:COMB1	-	-
17828	13901	+ve	0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
			0.000	-1.830	0.000	-0.248	0.000	-21.911
			-	5:COMB1	-	5:COMB1	-	5:COMB1
	10475	-ve	0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
			0.000	-3.625	0.000	-0.248	0.000	-17.363
			-	5:COMB1	-	5:COMB1	-	5:COMB1

Beam End Forces Envelope Cont...

Beam	Node	Envelope	Fx (Mton)	Fy (Mton)	Fz (Mton)	Mx (MTon-m)	My (MTon-m)	Mz (MTon-m)
17833	13907	+ve	0.000	14.250	0.000	3.734	0.000	4.662
			-	5:COMB1	-	5:COMB1	-	5:COMB1
			0.000	0.000	0.000	0.000	0.000	0.000
			-	-	-	-	-	-
	13901	-ve	0.000	12.455	0.000	3.734	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
			0.000	0.000	0.000	0.000	0.000	-17.606
			-	-	-	-	-	5:COMB1
17865	13919	+ve	0.000	1.022	0.000	0.526	0.000	0.000
			-	5:COMB1	-	5:COMB1	-	-
			0.000	0.000	0.000	0.000	0.000	-2.209
			-	-	-	-	-	5:COMB1
	10620	-ve	0.000	0.000	0.000	0.526	0.000	0.000
			-	-	-	5:COMB1	-	-
			0.000	-2.164	0.000	0.000	0.000	-1.646
			-	5:COMB1	-	-	-	5:COMB1



PLANTA MODELO 2



PLANTA MODELO 2

Section Properties

Prop	Section	Area (cm^2)	I_{yy} (cm^4)	I_{zz} (cm^4)	J (cm^4)	Material
8	Rect 0.80x0.40	3.2E+3	427E+3	1.71E+6	1.17E+6	CONCRETE
9	Rect 0.80x0.40	3.2E+3	427E+3	1.71E+6	1.17E+6	CONCRETE
10	Rect 1.20x0.80	9.6E+3	5.12E+6	11.5E+6	12E+6	CONCRETE
11	Rect 1.20x0.80	9.6E+3	5.12E+6	11.5E+6	12E+6	CONCRETE
12	Rect 0.60x1.00	6E+3	5E+6	1.8E+6	4.51E+6	CONCRETE

Plate Thickness

Prop	Node A (cm)	Node B (cm)	Node C (cm)	Node D (cm)	Material
1	25.000	25.000	25.000	25.000	CONCRETE
2	25.000	25.000	25.000	25.000	CONCRETE
3	25.000	25.000	25.000	25.000	CONCRETE
4	25.000	25.000	25.000	25.000	CONCRETE
5	25.000	25.000	25.000	25.000	CONCRETE
6	25.000	25.000	25.000	25.000	CONCRETE
7	25.000	25.000	25.000	25.000	CONCRETE

Combination Load Cases

Comb.	Combination L/C Name	Primary	Primary L/C Name	Factor
4	SERVICIO	1	DL	1.00
		2	SUBPR	1.00
5	COMB1	1	DL	1.40
		2	SUBPR	1.40

VC1/Cimentación

B=0.80 H=1.20 L=4.35			B=0.80 H=1.20 L=1.50			B=0.80 H=1.20 L=4.62		
Mu=-21.00		Mu=-25.67	Mu=-40.84		Mu=-36.44	Mu=-251.93		Mu=-637.75
As=2956.80		As=2956.80	As=2956.80		As=2956.80	As=6347.50		As=18396.93
Mu=21.00	Mu=21.00	Mu=21.00	Mu=110.00	Mu=127.89	Mu=145.78	Mu=195.32	Mu=176.69	Mu=591.84
As=2956.80	As=2956.80	As=2956.80	As=3676.03	As=3568.83	As=3568.83	As=4844.70	As=6558.29	As=16738.79
Vu=-45.33		Vu=51.18	Vu=33.42		Vu=33.42	Vu=172.93		Vu=172.93

VC10/Cimentación

B=0.80 H=1.20 L=2.05			B=0.80 H=1.20 L=3.92			B=0.80 H=1.20 L=8.90		
Mu=-31.81		Mu=-31.81	Mu=-55.63		Mu=-55.63	Mu=-81.49		Mu=-53.85
As=2956.80		As=2956.80	As=2956.80		As=3704.01	As=2956.80		As=2956.80
Mu=31.81	Mu=51.78	Mu=127.22	Mu=124.32	Mu=173.42	Mu=101.26	Mu=88.62	Mu=22.16	Mu=49.42
As=2956.80	As=2956.80	As=3099.62	As=3336.16	As=4785.47	As=5560.27	As=2956.80	As=2956.80	As=2956.80
Vu=-68.49		Vu=-32.44	Vu=-45.77		Vu=77.09	Vu=-61.83		Vu=71.74

B=0.80 H=1.20 L=8.90			B=0.80 H=1.20 L=8.90			B=0.80 H=1.20 L=8.90		
Mu=-59.11		Mu=-31.13	Mu=-55.84		Mu=-34.64	Mu=-103.28		Mu=-84.56
As=2956.80		As=2956.80	As=2956.80		As=2956.80	As=3334.01		As=2956.80
Mu=29.56	Mu=14.78	Mu=43.21	Mu=40.38	Mu=13.96	Mu=43.81	Mu=86.04	Mu=27.84	Mu=111.36
As=2956.80	As=2956.80	As=2956.80	As=2956.80	As=2956.80	As=2956.80	As=2956.80	As=2956.80	As=3602.16
Vu=-67.89		Vu=68.62	Vu=-65.10		Vu=71.56	Vu=-68.59		Vu=80.84

B=0.80 H=1.20 L=7.47		
Mu=-51.58		Mu=-55.63
As=2956.80		As=3466.29
Mu=37.51	Mu=39.99	Mu=28.94
As=2990.84	As=2956.80	As=2956.80
Vu=-77.10		Vu=-33.37

VC11/Cimentación

B=0.80 H=1.20 L=3.81			B=0.80 H=1.20 L=4.91		
Mu=-185.40		Mu=-128.36	Mu=-83.44		Mu=-78.13
As=4586.40		As=3128.31	As=2956.80		As=2956.80
Mu=233.80	Mu=58.45	Mu=130.19	Mu=69.25	Mu=55.56	Mu=41.87
As=5860.74	As=2957.57	As=3174.39	As=2956.80	As=2956.80	As=2956.80
Vu=113.35		Vu=34.57	Vu=7.15		Vu=7.15

VC12/Cimentación

B=0.80 H=1.20 L=3.92			B=0.80 H=1.20 L=8.90			B=0.80 H=1.20 L=8.90		
Mu=-0.00		Mu=-59.47	Mu=-102.06		Mu=-60.57	Mu=-50.36		Mu=-28.49
As=2956.80		As=2956.80	As=3293.62		As=2956.80	As=2956.80		As=2956.80
Mu=226.17	Mu=117.08	Mu=27.50	Mu=89.57	Mu=25.51	Mu=65.54	Mu=30.70	Mu=12.59	Mu=38.69
As=5657.45	As=3792.67	As=3394.47	As=2956.80	As=2956.80	As=2956.80	As=2956.80	As=2956.80	As=2956.80
Vu=84.64		Vu=67.50	Vu=-54.10		Vu=50.59	Vu=-52.69		Vu=53.05

B=0.80 H=1.20 L=8.90			B=0.80 H=1.20 L=8.90			B=0.80 H=1.20 L=8.88		
Mu=-49.73		Mu=-31.99	Mu=-53.01		Mu=-35.42	Mu=-76.30		Mu=-55.49
As=2956.80		As=2956.80	As=2956.80		As=2956.80	As=2993.33		As=2956.80
Mu=39.17	Mu=12.43	Mu=32.73	Mu=62.13	Mu=22.84	Mu=33.94	Mu=80.04	Mu=63.02	Mu=55.49
As=2956.80	As=2956.80	As=2956.80	As=2956.80	As=2956.80	As=2956.80	As=5546.21	As=3327.73	As=3327.73
Vu=-55.02		Vu=51.18	Vu=-53.59		Vu=50.51	Vu=-62.00		Vu=39.76

B=0.80 H=1.20 L=0.72		
Mu=-40.12		Mu=-35.52
As=2956.80		As=2956.80
Mu=50.45	Mu=89.91	Mu=35.23
As=2956.80	As=3454.34	As=2956.80
Vu=-42.83		Vu=60.98

VC13/Cimentación

B=0.80 H=1.20 L=13.05		
Mu=-209.08		Mu=-77.68
As=5205.42		As=2956.80
Mu=187.08	Mu=52.27	Mu=53.98
As=4630.04	As=2956.80	As=2956.80
Vu=-27.63		Vu=-36.92

VC14/Cimentación

B=0.80 H=1.20 L=0.38			B=0.80 H=1.20 L=9.20			B=0.80 H=1.20 L=0.27		
Mu=-24.25		Mu=-39.80	Mu=-41.11		Mu=-11.20	Mu=-16.63		Mu=-16.63
As=2956.80		As=2956.80	As=2956.80		As=2956.80	As=2956.80		As=2956.80
Mu=12.13	Mu=20.13	Mu=21.13	Mu=21.76	Mu=15.08	Mu=44.79	Mu=38.59	Mu=52.76	Mu=66.52
As=2956.80	As=2956.80	As=2956.80	As=2956.80	As=2956.80	As=2956.80	As=2956.80	As=2956.80	As=2956.80
Vu=-8.16		Vu=-6.96	Vu=-7.72		Vu=-42.71	Vu=-32.26		Vu=-81.01

B=0.80 H=1.20 L=0.27			B=0.80 H=1.20 L=9.45			B=0.80 H=1.20 L=0.27		
Mu=-18.23		Mu=-18.23	Mu=-14.00		Mu=-18.48	Mu=-28.30		Mu=-11.09
As=2956.80		As=2956.80	As=2956.80		As=2956.80	As=2956.80		As=2956.80
Mu=72.92	Mu=48.16	Mu=41.39	Mu=48.69	Mu=14.11	Mu=14.00	Mu=24.67	Mu=11.09	Mu=44.36
As=2956.80	As=2956.80	As=2956.80	As=2956.80	As=2956.80	As=2956.80	As=2956.80	As=2956.80	As=2956.80
Vu=85.81		Vu=-8.82	Vu=11.91		Vu=8.83	Vu=-59.07		Vu=-58.79

B=0.80 H=1.20 L=0.20			B=0.80 H=1.20 L=10.12		
Mu=-13.33		Mu=-21.74	Mu=-88.91		Mu=-165.90
As=2956.80		As=2956.80	As=2956.80		As=4082.80
Mu=53.32	Mu=13.33	Mu=39.49	Mu=89.91	Mu=41.47	Mu=135.90
As=2956.80	As=2956.80	As=2956.80	As=2956.80	As=2956.80	As=3318.48
Vu=56.97		Vu=53.83	Vu=23.84		Vu=34.47

VC15/Cimentación

B=0.80 H=1.20 L=2.81			B=0.80 H=1.20 L=1.49			B=0.80 H=1.20 L=1.75		
Mu=-0.00		Mu=-0.00	Mu=-0.00		Mu=-0.00	Mu=-0.00		Mu=-0.00
As=2956.80		As=2956.80	As=2956.80		As=2956.80	As=2956.80		As=2956.80
Mu=0.00	Mu=0.00	Mu=0.00	Mu=0.00	Mu=0.00	Mu=0.00	Mu=0.00	Mu=0.00	Mu=0.00
As=2956.80	As=2956.80	As=2956.80	As=2956.80	As=2956.80	As=2956.80	As=2956.80	As=2956.80	As=2956.80
Vu=0.00		Vu=0.00	Vu=0.00		Vu=0.00	Vu=0.00		Vu=0.00

B=0.80 H=1.20 L=1.75			B=0.80 H=1.20 L=3.64			B=0.80 H=1.20 L=3.20		
Mu=-0.00		Mu=-0.00	Mu=-0.00		Mu=-0.00	Mu=-0.00		Mu=-0.00
As=2956.80		As=2956.80	As=2956.80		As=2956.80	As=2956.80		As=2956.80
Mu=0.00	Mu=0.00	Mu=0.00	Mu=0.00	Mu=0.00	Mu=0.00	Mu=0.00	Mu=0.00	Mu=0.00
As=2956.80	As=2956.80	As=2956.80	As=2956.80	As=2956.80	As=2956.80	As=2956.80	As=2956.80	As=2956.80
Vu=0.00		Vu=0.00	Vu=0.00		Vu=0.00	Vu=0.00		Vu=0.00

VC16/Cimentación

B=0.80 H=1.20 L=2.60		
Mu=-25.58		Mu=-25.58
As=2956.80		As=2956.80
Mu=25.58	Mu=51.16	Mu=27.96
As=2956.80	As=2956.80	As=3301.90
Vu=-35.73		Vu=27.94

VC18/Cimentación

B=0.80 H=1.20 L=2.80			B=0.80 H=1.20 L=7.60			B=0.80 H=1.20 L=2.80		
Mu=-4.04		Mu=-42.20	Mu=-144.49		Mu=-82.55	Mu=-35.33		Mu=-8.83
As=2956.80		As=2956.80	As=3536.07		As=2956.80	As=2956.80		As=2956.80
Mu=29.58	Mu=4.71	Mu=8.44	Mu=95.90	Mu=36.12	Mu=127.45	Mu=17.67	Mu=8.83	Mu=28.01
As=2956.80	As=2956.80	As=2956.80	As=3090.07	As=3090.07	As=3105.41	As=2956.80	As=2956.80	As=2956.80
Vu=41.85		Vu=41.85	Vu=-30.06		Vu=-31.34	Vu=-35.88		Vu=-35.88

B=0.80 H=1.20 L=2.80			B=0.80 H=1.20 L=7.36			B=0.80 H=1.20 L=3.04		
Mu=-11.76		Mu=-42.31	Mu=-119.45		Mu=-143.53	Mu=-30.25		Mu=-8.36
As=2956.80		As=2956.80	As=3871.77		As=3511.70	As=2956.80		As=2956.80
Mu=47.04	Mu=18.57	Mu=21.16	Mu=162.34	Mu=40.58	Mu=120.52	Mu=15.13	Mu=8.36	Mu=33.44
As=2956.80	As=2956.80	As=2956.80	As=3991.45	As=2956.80	As=3907.52	As=2956.80	As=2956.80	As=2956.80
Vu=48.02		Vu=48.02	Vu=30.05		Vu=34.40	Vu=-42.15		Vu=-42.15

B=0.80 H=1.20 L=3.06			B=0.80 H=1.20 L=1.50			B=0.80 H=1.20 L=1.75		
Mu=-17.81		Mu=-41.07	Mu=-121.50		Mu=-236.51	Mu=-62.71		Mu=-29.62
As=2956.80		As=2956.80	As=3940.27		As=5933.16	As=2956.80		As=2956.80
Mu=71.23	Mu=53.50	Mu=41.63	Mu=289.22	Mu=72.31	Mu=118.25	Mu=31.35	Mu=28.87	Mu=40.49
As=2956.80	As=2956.80	As=2956.80	As=7365.83	As=3487.20	As=3831.88	As=2956.80	As=2956.80	As=2956.80
Vu=54.23		Vu=54.23	Vu=181.79		Vu=181.79	Vu=-23.64		Vu=-23.64

B=0.80 H=1.20 L=1.75			B=0.80 H=1.20 L=3.60			B=0.80 H=1.20 L=3.20		
Mu=-51.30		Mu=-24.67	Mu=-21.69		Mu=-46.25	Mu=-18.49		Mu=-16.51
As=2956.80		As=2956.80	As=2956.80		As=2956.80	As=2956.80		As=2956.80
Mu=63.12	Mu=21.04	Mu=15.78	Mu=21.69	Mu=28.81	Mu=86.78	Mu=16.36	Mu=24.13	Mu=42.71
As=2956.80	As=2956.80	As=2956.80	As=2956.80	As=2956.80	As=2956.80	As=2956.80	As=2956.80	As=2956.80
Vu=52.79		Vu=52.79	Vu=-14.07		Vu=-73.68	Vu=-13.06		Vu=-13.06

B=0.80 H=1.20 L=2.59			B=0.80 H=1.20 L=4.61		
Mu=-202.18		Mu=-113.31	Mu=-48.10		Mu=-105.06
As=5024.18		As=3831.04	As=2956.80		As=3392.99
Mu=453.25	Mu=219.06	Mu=113.31	Mu=27.06	Mu=39.43	Mu=53.64
As=12162.83	As=7297.70	As=7297.70	As=2956.80	As=2956.80	As=2956.80
Vu=171.99		Vu=171.99	Vu=11.28		Vu=11.28

VC19/Cimentación

B=1.00 H=0.60 L=2.60			B=1.00 H=0.60 L=1.10			B=1.00 H=0.60 L=1.10		
Mu=-0.00		Mu=-103.92	Mu=-14.29		Mu=-34.00	Mu=-76.30		Mu=-19.08
As=1716.00		As=5872.01	As=1716.00		As=1783.74	As=4177.95		As=1716.00
Mu=0.00	Mu=125.08	Mu=250.16	Mu=57.16	Mu=24.05	Mu=17.00	Mu=38.15	Mu=19.08	Mu=19.08
As=8162.31	As=9014.79	As=13603.86	As=3067.70	As=2138.12	As=1716.00	As=2009.39	As=1716.00	As=1716.00
Vu=-93.80		Vu=-93.80	Vu=52.98		Vu=52.98	Vu=-66.46		Vu=-66.46

B=1.00 H=0.60 L=11.78			B=1.00 H=0.60 L=1.27			B=1.00 H=0.60 L=1.10		
Mu=-63.54		Mu=-91.62	Mu=-6.43		Mu=-25.70	Mu=-43.28		Mu=-10.82
As=3432.53		As=5103.05	As=1716.00		As=1783.37	As=2290.93		As=1716.00
Mu=92.84	Mu=23.21	Mu=77.72	Mu=6.43	Mu=7.77	Mu=20.25	Mu=21.64	Mu=16.88	Mu=16.32
As=5178.23	As=2150.07	As=4262.27	As=1716.00	As=1716.00	As=1716.00	As=1716.00	As=1716.00	As=1716.00
Vu=18.05		Vu=21.14	Vu=17.74		Vu=17.74	Vu=-34.33		Vu=-34.33

B=1.00 H=0.60 L=5.44			B=1.00 H=0.60 L=7.11			B=1.00 H=0.60 L=1.35		
Mu=-136.87		Mu=-169.62	Mu=-91.04		Mu=-68.51	Mu=-49.28		Mu=-13.45
As=8067.70		As=10500.29	As=5067.38		As=3720.30	As=2623.95		As=1716.00
Mu=219.64	Mu=64.67	Mu=116.15	Mu=92.55	Mu=23.14	Mu=68.20	Mu=49.83	Mu=19.30	Mu=22.36
As=12179.02	As=5565.85	As=6662.30	As=5160.34	As=2026.41	As=3702.26	As=2654.68	As=1762.77	As=1716.00
Vu=73.89		Vu=73.95	Vu=-19.09		Vu=19.07	Vu=-93.98		Vu=-93.98

VC2/Cimentación

B=0.80 H=1.20 L=3.90			B=0.80 H=1.20 L=9.25		
Mu=-54.88		Mu=-34.63	Mu=-269.55		Mu=-10.43
As=2956.80		As=2956.80	As=6825.73		As=2956.80
Mu=115.26	Mu=115.26	Mu=134.85	Mu=337.83	Mu=132.61	Mu=13.26
As=3731.99	As=3384.23	As=3312.41	As=8730.30	As=5238.18	As=5238.18
Vu=73.22		Vu=5.61	Vu=-53.22		Vu=-33.47

VC20/Cimentación

B=1.00 H=0.60 L=2.25			B=1.00 H=0.60 L=1.05			B=1.00 H=0.60 L=2.80		
Mu=-28.16		Mu=-20.67	Mu=-178.13		Mu=-44.53	Mu=-5.04		Mu=-16.80
As=1958.54		As=1716.00	As=11139.94		As=2360.11	As=1716.00		As=1716.00
Mu=31.94	Mu=8.81	Mu=35.24	Mu=89.07	Mu=44.53	Mu=132.35	Mu=20.17	Mu=8.83	Mu=8.40
As=2229.32	As=1716.00	As=2020.69	As=4946.34	As=2360.11	As=7753.36	As=1716.00	As=1716.00	As=1716.00
Vu=-63.76		Vu=-63.76	Vu=-100.51		Vu=-100.51	Vu=18.04		Vu=18.04

B=1.00 H=0.60 L=2.80			B=1.00 H=0.60 L=7.60			B=1.00 H=0.60 L=2.80		
Mu=-34.82		Mu=-8.70	Mu=-27.84		Mu=-36.29	Mu=-6.07		Mu=-8.79
As=1828.18		As=1716.00	As=1935.71		As=1908.03	As=1716.00		As=1716.00
Mu=17.41	Mu=8.70	Mu=9.93	Mu=40.13	Mu=10.03	Mu=28.72	Mu=3.47	Mu=3.06	Mu=12.19
As=1716.00	As=1716.00	As=1716.00	As=2117.71	As=1716.00	As=1998.53	As=1716.00	As=1716.00	As=1716.00
Vu=-23.42		Vu=-23.42	Vu=8.99		Vu=8.06	Vu=-11.90		Vu=-11.90

B=1.00 H=0.60 L=2.80			B=1.00 H=0.60 L=7.36			B=1.00 H=0.60 L=3.04		
Mu=-3.91		Mu=-3.38	Mu=-39.99		Mu=-34.67	Mu=-6.06		Mu=-7.19
As=1716.00		As=1716.00	As=2110.04		As=1820.05	As=1716.00		As=1716.00
Mu=8.91	Mu=5.36	Mu=2.23	Mu=42.12	Mu=10.53	Mu=31.89	Mu=3.15	Mu=3.14	Mu=11.25
As=1716.00	As=1716.00	As=1716.00	As=2227.01	As=1716.00	As=2225.73	As=1716.00	As=1716.00	As=1716.00
Vu=4.02		Vu=4.02	Vu=9.19		Vu=7.61	Vu=-11.93		Vu=-11.93

B=1.00 H=0.60 L=2.43			B=1.00 H=0.60 L=10.24			B=1.00 H=0.60 L=0.80		
Mu=-20.59		Mu=-36.59	Mu=-34.51		Mu=-18.54	Mu=-6.45		Mu=-7.92
As=1716.00		As=2121.55	As=1811.37		As=1716.00	As=1716.00		As=1716.00
Mu=20.59	Mu=20.59	Mu=61.18	Mu=62.92	Mu=15.73	Mu=30.84	Mu=6.45	Mu=6.45	Mu=25.82
As=2723.51	As=2723.51	As=3841.70	As=3396.85	As=1716.00	As=2150.32	As=1716.00	As=1716.00	As=1791.89
Vu=5.42		Vu=35.78	Vu=35.78		Vu=-13.32	Vu=-4.62		Vu=-27.49

VC21/Cimentación

B=1.00 H=0.60 L=4.35			B=1.00 H=0.60 L=1.50		
Mu=-7.33		Mu=-44.00	Mu=-82.20		Mu=-56.93
As=1716.00		As=2330.68	As=4530.16		As=3054.65
Mu=14.16	Mu=49.57	Mu=84.97	Mu=107.69	Mu=26.92	Mu=51.92
As=2818.35	As=3038.76	As=4697.25	As=6112.77	As=2211.61	As=2771.80
Vu=15.31		Vu=15.31	Vu=-101.25		Vu=-101.25

VC22/Cimentación

B=0.80 H=1.20 L=0.52			B=0.80 H=1.20 L=3.45			B=0.80 H=1.20 L=3.92		
Mu=-2.35		Mu=-14.13	Mu=-108.45		Mu=-106.70	Mu=-46.75		Mu=-38.64
As=2956.80		As=2956.80	As=3505.46		As=3447.37	As=2956.80		As=2956.80
Mu=16.27	Mu=56.93	Mu=97.60	Mu=339.14	Mu=116.22	Mu=103.85	Mu=23.38	Mu=34.79	Mu=68.49
As=2956.80	As=2956.80	As=3146.18	As=8767.69	As=3951.99	As=3352.89	As=2956.80	As=2956.80	As=2956.80
Vu=48.71		Vu=48.71	Vu=-97.41		Vu=-97.41	Vu=31.04		Vu=31.04

VC15/Cimentación

B=0.80 H=1.20 L=2.81			B=0.80 H=1.20 L=1.49			B=0.80 H=1.20 L=1.75		
Mu=-67.24		Mu=-23.24	Mu=-82.31		Mu=-136.13	Mu=-86.23		Mu=-111.39
As=2983.20		As=2983.20	As=2983.20		As=3292.84	As=2983.20		As=3569.51
Mu=92.95	Mu=63.00	Mu=36.62	Mu=177.66	Mu=56.77	Mu=68.07	Mu=43.12	Mu=37.38	Mu=149.52
As=2983.20	As=2983.20	As=2983.20	As=4343.43	As=2983.20	As=2983.20	As=2983.20	As=2983.20	As=3629.04
Vu=-60.13		Vu=-60.13	Vu=97.69		Vu=97.69	Vu=-116.66		Vu=-116.66

B=0.80 H=1.20 L=1.75			B=0.80 H=1.20 L=3.64			B=0.80 H=1.20 L=3.20		
Mu=-146.10		Mu=-64.33	Mu=-52.27		Mu=-45.69	Mu=-29.45		Mu=-13.06
As=3542.94		As=2983.20	As=2983.20		As=2983.20	As=2983.20		As=2983.20
Mu=235.67	Mu=85.67	Mu=58.92	Mu=57.49	Mu=57.49	Mu=62.44	Mu=52.22	Mu=31.18	Mu=13.06
As=5851.61	As=3710.59	As=3510.97	As=2983.20	As=3373.54	As=2983.20	As=2983.20	As=2983.20	As=2983.20
Vu=182.27		Vu=182.27	Vu=-48.90		Vu=83.31	Vu=71.65		Vu=12.61

VC17/Cimentación

B=0.80 H=1.50 L=2.60			B=0.80 H=1.50 L=1.10			B=0.80 H=1.50 L=1.55		
Mu=-0.00		Mu=-241.14	Mu=-56.21		Mu=-52.16	Mu=-131.77		Mu=-73.09
As=3775.20		As=4626.16	As=3775.20		As=3775.20	As=3775.20		As=3775.20
Mu=0.00	Mu=155.43	Mu=310.86	Mu=59.58	Mu=67.34	Mu=76.67	Mu=191.33	Mu=156.56	Mu=121.79
As=3775.20	As=4729.08	As=6031.50	As=3775.20	As=3775.20	As=3775.20	As=4854.66	As=4130.98	As=3775.20
Vu=-116.56		Vu=-116.56	Vu=-14.93		Vu=-14.93	Vu=55.62		Vu=55.62

B=0.80 H=1.50 L=1.30			B=0.80 H=1.50 L=1.40			B=0.80 H=1.50 L=1.44		
Mu=-33.83		Mu=-33.83	Mu=-20.83		Mu=-20.83	Mu=-37.76		Mu=-151.02
As=3775.20		As=3775.20	As=3775.20		As=3775.20	As=3775.20		As=3808.14
Mu=135.33	Mu=93.33	Mu=56.06	Mu=83.32	Mu=54.06	Mu=43.93	Mu=68.88	Mu=68.88	Mu=75.51
As=3775.20	As=3775.20	As=3775.20	As=3775.20	As=3775.20	As=3775.20	As=3775.20	As=3775.20	As=3775.20
Vu=53.06		Vu=53.06	Vu=38.32		Vu=38.32	Vu=105.39		Vu=130.06

B=0.80 H=1.50 L=4.92			B=0.80 H=1.50 L=1.00			B=0.80 H=1.20 L=1.00		
Mu=-827.39		Mu=-441.62	Mu=-75.82		Mu=-63.64	Mu=-213.88		Mu=-130.11
As=17731.78		As=8762.13	As=3775.20		As=3775.20	As=5279.29		As=3209.85
Mu=413.70	Mu=206.85	Mu=614.47	Mu=77.89	Mu=99.08	Mu=124.14	Mu=174.09	Mu=144.90	Mu=113.78
As=8167.93	As=3946.83	As=12590.32	As=3775.20	As=3775.20	As=3775.20	As=4252.19	As=3659.78	As=3712.24
Vu=-321.70		Vu=-284.74	Vu=-43.97		Vu=-43.97	Vu=-43.69		Vu=-43.69

B=0.80 H=1.20 L=4.30			B=0.80 H=1.20 L=1.35			B=0.80 H=1.20 L=1.35		
Mu=-132.81		Mu=-33.20	Mu=-22.81		Mu=-22.81	Mu=-29.64		Mu=-29.64
As=3209.85		As=2983.20	As=2983.20		As=2983.20	As=2983.20		As=2983.20
Mu=115.72	Mu=50.74	Mu=33.20	Mu=22.81	Mu=33.84	Mu=91.24	Mu=118.56	Mu=117.35	Mu=56.63
As=3712.24	As=2983.20	As=2983.20	As=2983.20	As=2983.20	As=2983.20	As=3806.04	As=3766.06	As=2983.20
Vu=-43.69		Vu=-45.42	Vu=-45.58		Vu=-115.21	Vu=131.74		Vu=97.44

B=0.80 H=1.20 L=3.81			B=0.80 H=1.20 L=1.50		
Mu=-123.62		Mu=-246.73	Mu=-77.13		Mu=-45.77
As=3973.49		As=6144.88	As=2983.20		As=2983.20
Mu=211.06	Mu=61.68	Mu=131.67	Mu=21.60	Mu=35.39	Mu=51.94
As=5205.75	As=2983.20	As=3776.63	As=2983.20	As=2983.20	As=2983.20
Vu=126.55		Vu=125.96	Vu=-22.34		Vu=-22.34

VC24/Cimentación

B=0.80 H=1.20 L=3.06			B=0.80 H=1.20 L=1.39		
Mu=-0.00		Mu=-90.00	Mu=-42.88		Mu=-0.00
As=2956.80		As=2956.80	As=2956.80		As=2956.80
Mu=394.82	Mu=164.69	Mu=81.21	Mu=29.31	Mu=32.83	Mu=87.77
As=10388.68	As=4990.38	As=2956.80	As=2956.80	As=2956.80	As=2956.80
Vu=-150.89		Vu=-150.89	Vu=12.12		Vu=133.61

VC3/Cimentación

B=0.80 H=1.20 L=6.33			B=0.80 H=1.20 L=1.25			B=0.80 H=1.20 L=3.34		
Mu=-14.11		Mu=-14.11	Mu=-23.33		Mu=-23.33	Mu=-200.54		Mu=-66.92
As=2956.80		As=2956.80	As=2956.80		As=2956.80	As=4981.21		As=2956.80
Mu=14.11	Mu=14.11	Mu=56.46	Mu=93.32	Mu=59.24	Mu=54.74	Mu=105.58	Mu=50.13	Mu=100.01
As=2956.80	As=2956.80	As=2956.80	As=3005.00	As=2956.80	As=2956.80	As=3410.23	As=2956.80	As=3225.81
Vu=-12.25		Vu=51.80	Vu=-48.85		Vu=-48.85	Vu=88.54		Vu=88.54

B=0.80 H=1.20 L=7.72			B=0.80 H=1.20 L=3.90			B=0.80 H=1.20 L=9.15		
Mu=-30.62		Mu=-118.43	Mu=-31.06		Mu=-31.06	Mu=-88.87		Mu=-5.55
As=2956.80		As=3837.71	As=2956.80		As=2956.80	As=2956.80		As=2956.80
Mu=72.66	Mu=42.30	Mu=59.22	Mu=69.37	Mu=111.99	Mu=87.51	Mu=143.52	Mu=108.39	Mu=8.53
As=2956.80	As=2956.80	As=2956.80	As=2956.80	As=3623.12	As=3132.05	As=3511.45	As=3736.99	As=2956.80
Vu=47.33		Vu=-16.24	Vu=28.64		Vu=-24.67	Vu=-8.44		Vu=-21.54

VC4/Cimentación

B=0.80 H=1.20 L=10.38			B=0.80 H=1.20 L=6.99			B=0.80 H=1.20 L=3.90		
Mu=-145.75		Mu=-60.56	Mu=-36.40		Mu=-145.58	Mu=-31.06		Mu=-31.06
As=3568.07		As=2956.80	As=2956.80		As=3563.75	As=2956.80		As=2956.80
Mu=72.88	Mu=36.44	Mu=138.38	Mu=93.88	Mu=36.40	Mu=72.79	Mu=62.96	Mu=110.95	Mu=77.90
As=2956.80	As=2956.80	As=3381.20	As=3023.46	As=2956.80	As=2956.80	As=2956.80	As=3588.53	As=2956.80
Vu=32.04		Vu=35.69	Vu=-44.81		Vu=-30.88	Vu=29.13		Vu=-26.31

B=0.80 H=1.20 L=9.25		
Mu=-104.06		Mu=-3.88
As=3359.85		As=2956.80
Mu=143.36	Mu=72.46	Mu=5.80
As=3507.39	As=2956.80	As=2956.80
Vu=-17.03		Vu=-14.63

VC5/Cimentación

B=0.80 H=1.20 L=5.34			B=0.80 H=1.20 L=6.06			B=0.80 H=1.20 L=3.90		
Mu=-168.61		Mu=-103.98	Mu=-31.93		Mu=-127.72	Mu=-31.59		Mu=-31.59
As=4152.46		As=3357.20	As=2956.80		As=3112.20	As=2956.80		As=2956.80
Mu=84.31	Mu=42.15	Mu=127.37	Mu=32.95	Mu=59.59	Mu=90.93	Mu=61.79	Mu=110.27	Mu=79.59
As=2956.80	As=2956.80	As=3103.39	As=2956.80	As=2956.80	As=2956.80	As=2956.80	As=3565.92	As=2956.80
Vu=64.56		Vu=64.56	Vu=-29.04		Vu=-24.21	Vu=27.73		Vu=-26.55

B=0.80 H=1.20 L=9.25		
Mu=-116.11		Mu=-5.63
As=3760.32		As=2956.80
Mu=153.86	Mu=105.65	Mu=7.93
As=3774.56	As=3732.99	As=2956.80
Vu=-11.90		Vu=-20.01

VC6/Cimentación

B=0.80 H=1.20 L=6.16			B=0.80 H=1.20 L=3.90			B=0.80 H=1.20 L=9.25		
Mu=-463.22		Mu=-527.42	Mu=-37.97		Mu=-37.97	Mu=-271.82		Mu=-13.15
As=12473.76		As=14539.82	As=2956.80		As=2956.80	As=6887.72		As=2956.80
Mu=325.05	Mu=167.48	Mu=570.73	Mu=101.53	Mu=114.48	Mu=132.42	Mu=348.65	Mu=189.65	Mu=16.66
As=8367.32	As=6426.40	As=16002.87	As=3276.08	As=3724.32	As=3339.97	As=9040.09	As=5532.16	As=5424.06
Vu=159.43		Vu=154.89	Vu=57.96		Vu=-13.53	Vu=-38.19		Vu=-42.05

VC7/Cimentación

B=0.80 H=1.50 L=1.35			B=0.80 H=1.50 L=2.60			B=0.80 H=1.50 L=2.60		
Mu=-16.55		Mu=-45.71	Mu=-45.71		Mu=-30.95	Mu=-46.77		Mu=-64.60
As=3748.80		As=3748.80	As=3748.80		As=3748.80	As=3748.80		As=3748.80
Mu=16.55	Mu=29.49	Mu=22.86	Mu=27.25	Mu=36.16	Mu=108.98	Mu=121.16	Mu=30.29	Mu=64.60
As=3748.80	As=3748.80	As=3748.80	As=3748.80	As=3748.80	As=3748.80	As=3748.80	As=3748.80	As=3748.80
Vu=-37.83		Vu=-96.47	Vu=-96.47		Vu=132.40	Vu=-105.55		Vu=40.26

B=0.80 H=1.50 L=2.38			B=0.80 H=1.50 L=1.30			B=0.80 H=1.50 L=8.20		
Mu=-283.36		Mu=-581.66	Mu=-63.26		Mu=-69.38	Mu=-489.06		Mu=-148.71
As=5515.35		As=11944.69	As=3748.80		As=3748.80	As=9867.63		As=3776.12
Mu=232.31	Mu=292.29	Mu=625.34	Mu=65.49	Mu=77.78	Mu=92.73	Mu=594.83	Mu=148.71	Mu=148.71
As=4861.16	As=7075.23	As=12953.57	As=3748.80	As=3748.80	As=3748.80	As=12246.82	As=7348.09	As=7348.09
Vu=365.97		Vu=365.97	Vu=21.90		Vu=21.90	Vu=-205.14		Vu=-36.92

VC8/Cimentación

B=0.80 H=1.20 L=4.97			B=0.80 H=1.20 L=2.39			B=0.80 H=1.20 L=2.96		
Mu=-0.00		Mu=-0.00	Mu=-29.61		Mu=-111.39	Mu=-61.32		Mu=-19.02
As=2956.80		As=2956.80	As=2956.80		As=3603.16	As=2956.80		As=2956.80
Mu=7.31	Mu=25.58	Mu=43.84	Mu=82.42	Mu=27.85	Mu=62.55	Mu=28.15	Mu=26.99	Mu=28.54
As=2956.80	As=2956.80	As=2956.80	As=2956.80	As=2956.80	As=2956.80	As=2956.80	As=2956.80	As=2956.80
Vu=7.89		Vu=7.89	Vu=-72.76		Vu=-72.76	Vu=11.89		Vu=11.89

VC9/Cimentación

B=0.80 H=1.20 L=4.97			B=0.80 H=1.20 L=4.05			B=0.80 H=1.20 L=2.87		
Mu=-20.26		Mu=-20.26	Mu=-53.76		Mu=-98.46	Mu=-53.52		Mu=-37.01
As=2956.80		As=2956.80	As=2956.80		As=3174.59	As=2956.80		As=2956.80
Mu=20.26	Mu=54.04	Mu=20.26	Mu=37.77	Mu=24.61	Mu=87.90	Mu=51.06	Mu=48.63	Mu=48.27
As=2956.80	As=2956.80	As=2956.80	As=2956.80	As=2956.80	As=2956.80	As=2956.80	As=2956.80	As=2956.80
Vu=14.57		Vu=0.00	Vu=44.23		Vu=44.23	Vu=12.78		Vu=12.78

B=0.80 H=1.20 L=4.90		
Mu=-39.35 As=2956.80		Mu=-0.00 As=2956.80
Mu=48.79 As=2956.80	Mu=24.39 As=2956.80	Mu=0.00 As=2956.80
Vu=-11.16		Vu=-11.16

VTC1/Cimentación

B=0.40 H=0.80 L=3.90			B=0.40 H=0.80 L=9.26		
Mu=-13.01		Mu=-23.25	Mu=-22.21		Mu=-8.93
As=950.40		As=1170.23	As=1116.46		As=950.40
Mu=16.19	Mu=7.83	Mu=27.83	Mu=35.70	Mu=13.42	Mu=8.93
As=950.40	As=950.40	As=1056.77	As=1369.16	As=950.40	As=950.40
Vu=10.21		Vu=10.21	Vu=-9.20		Vu=-3.39

VTC10/Cimentación

B=0.40 H=0.80 L=6.35		
Mu=-1.17		Mu=-7.02
As=950.40		As=950.40
Mu=0.05	Mu=0.16	Mu=1.40
As=950.40	As=950.40	As=950.40
Vu=-0.93		Vu=-0.93

VTC11/Cimentación

B=0.40 H=0.80 L=8.37			B=0.40 H=0.80 L=6.34			B=0.40 H=0.80 L=3.90		
Mu=-6.30		Mu=-15.69	Mu=-8.80		Mu=-7.93	Mu=-4.41		Mu=-5.79
As=950.40		As=950.40	As=950.40		As=950.40	As=950.40		As=950.40
Mu=12.12	Mu=6.30	Mu=25.22	Mu=13.68	Mu=8.34	Mu=6.01	Mu=5.17	Mu=11.24	Mu=17.62
As=950.40	As=950.40	As=954.58	As=950.40	As=950.40	As=950.40	As=950.40	As=950.40	As=950.40
Vu=-6.83		Vu=9.17	Vu=-1.58		Vu=-1.55	Vu=3.26		Vu=3.26

B=0.40 H=0.80 L=9.26		
Mu=-13.70		Mu=-0.60
As=950.40		As=950.40
Mu=25.78	Mu=9.34	Mu=0.83
As=976.45	As=950.40	As=950.40
Vu=-4.03		Vu=-2.10

VTC12/Cimentación

B=0.40 H=0.80 L=6.35			B=0.40 H=0.80 L=4.19		
Mu=-1.38		Mu=-8.30	Mu=-12.68		Mu=-16.93
As=950.40		As=950.40	As=950.40		As=950.40
Mu=1.81	Mu=6.32	Mu=10.84	Mu=13.14	Mu=4.23	Mu=8.47
As=950.40	As=950.40	As=950.40	As=950.40	As=950.40	As=950.40
Vu=1.44		Vu=1.44	Vu=-5.71		Vu=-5.71

VTC13/Cimentación

B=0.40 H=0.80 L=6.05			B=0.40 H=0.80 L=3.90			B=0.40 H=0.80 L=9.26		
Mu=-32.87		Mu=-39.13	Mu=-6.56		Mu=-13.21	Mu=-25.62		Mu=-1.27
As=1256.08		As=1507.37	As=950.40		As=950.40	As=970.20		As=950.40
Mu=19.92	Mu=15.79	Mu=50.27	Mu=16.54	Mu=12.11	Mu=25.57	Mu=39.61	Mu=19.19	Mu=1.72
As=998.57	As=1141.26	As=1965.42	As=950.40	As=950.40	As=968.24	As=1526.81	As=1171.26	As=950.40
Vu=11.74		Vu=14.45	Vu=7.20		Vu=7.20	Vu=-4.91		Vu=-4.34

VTC14/Cimentación

B=0.40 H=0.80 L=1.95			B=0.40 H=0.80 L=2.49			B=0.40 H=0.80 L=2.05		
Mu=-14.02		Mu=-84.13	Mu=-5.73		Mu=-5.73	Mu=-5.28		Mu=-7.27
As=1055.63		As=3457.43	As=950.40		As=950.40	As=950.40		As=950.40
Mu=4.95	Mu=17.34	Mu=29.73	Mu=5.73	Mu=5.73	Mu=22.92	Mu=17.69	Mu=7.81	Mu=10.75
As=950.40	As=993.44	As=1131.60	As=950.40	As=950.40	As=1153.15	As=950.40	As=950.40	As=950.40
Vu=-44.55		Vu=-44.55	Vu=-5.53		Vu=37.82	Vu=-38.57		Vu=16.03

VTC15/Cimentación

B=0.40 H=0.80 L=2.42			B=0.40 H=0.80 L=3.90			B=0.40 H=0.80 L=9.26		
Mu=-99.57		Mu=-97.37	Mu=-19.91		Mu=-19.76	Mu=-36.02		Mu=-2.77
As=4198.59		As=4090.24	As=998.06		As=990.36	As=1382.00		As=950.40
Mu=83.87	Mu=29.85	Mu=119.39	Mu=27.91	Mu=11.95	Mu=30.20	Mu=48.06	Mu=41.98	Mu=3.50
As=3445.31	As=1592.63	As=5222.31	As=1059.92	As=1150.17	As=1150.17	As=1873.40	As=1673.06	As=950.40
Vu=59.01		Vu=59.01	Vu=12.80		Vu=12.80	Vu=-1.60		Vu=-8.84

VTC16/Cimentación

B=0.40 H=0.80 L=4.00			B=0.40 H=0.80 L=7.99		
Mu=-16.77		Mu=-47.26	Mu=-10.98		Mu=-10.98
As=950.40		As=1840.23	As=950.40		As=950.40
Mu=35.55	Mu=11.81	Mu=27.62	Mu=10.98	Mu=15.51	Mu=10.98
As=1363.15	As=950.40	As=1166.60	As=950.40	As=1702.98	As=950.40
Vu=-21.21		Vu=-21.21	Vu=20.49		Vu=-4.35

VTC17/Cimentación

B=0.40 H=0.80 L=7.02		
Mu=-8.80		Mu=-0.00
As=950.40		As=950.40
Mu=7.32	Mu=2.53	Mu=0.00
As=950.40	As=950.40	As=950.40
Vu=1.60		Vu=1.35

VTC18/Cimentación

B=0.40 H=0.80 L=5.19			B=0.40 H=0.80 L=4.48		
Mu=-2.33		Mu=-5.60	Mu=-4.42		Mu=-0.00
As=950.40		As=950.40	As=950.40		As=950.40
Mu=1.05	Mu=3.23	Mu=5.41	Mu=2.23	Mu=1.11	Mu=0.00
As=950.40	As=950.40	As=950.40	As=950.40	As=950.40	As=950.40
Vu=2.24		Vu=2.24	Vu=1.12		Vu=1.12

VTC19/Cimentación

B=0.40 H=0.80 L=8.30		
Mu=-2.25		Mu=-2.25
As=950.40		As=950.40
Mu=2.25	Mu=7.06	Mu=2.25
As=950.40	As=950.40	As=950.40
Vu=-1.62		Vu=-3.50

VTC2/Cimentación

B=0.40 H=0.80 L=4.35			B=0.40 H=0.80 L=7.05		
Mu=-4.47		Mu=-26.81	Mu=-22.92		Mu=-22.54
As=950.40		As=1016.76	As=1153.15		As=1133.51
Mu=1.25	Mu=4.37	Mu=7.50	Mu=15.95	Mu=6.14	Mu=24.58
As=950.40	As=950.40	As=950.40	As=950.40	As=950.40	As=1239.19
Vu=-4.83		Vu=-4.83	Vu=17.35		Vu=8.02

VTC20/Cimentación

B=0.40 H=0.80 L=5.19			B=0.40 H=0.80 L=4.48		
Mu=-2.04		Mu=-2.26	Mu=-1.93		Mu=-0.00
As=950.40		As=950.40	As=950.40		As=950.40
Mu=1.46	Mu=1.30	Mu=1.88	Mu=1.02	Mu=0.51	Mu=0.00
As=950.40	As=950.40	As=950.40	As=950.40	As=950.40	As=950.40
Vu=1.19		Vu=1.19	Vu=0.49		Vu=0.49

VTC21/Cimentación

B=0.40 H=0.80 L=6.95			B=0.40 H=0.80 L=10.90			B=0.40 H=0.80 L=10.90		
Mu=-2.73		Mu=-54.86	Mu=-48.97		Mu=-40.36	Mu=-33.09		Mu=-8.27
As=950.40		As=2158.46	As=1911.22		As=1557.25	As=1264.84		As=950.40
Mu=4.56	Mu=51.29	Mu=80.53	Mu=63.52	Mu=15.88	Mu=33.70	Mu=27.84	Mu=13.14	Mu=8.27
As=950.40	As=2255.34	As=3290.68	As=2530.03	As=1096.34	As=1289.16	As=1057.17	As=950.40	As=950.40
Vu=-14.87		Vu=-9.05	Vu=10.70		Vu=8.84	Vu=-4.26		Vu=3.02

B=0.40 H=0.80 L=10.90			B=0.40 H=0.80 L=10.90			B=0.40 H=1.00 L=9.50		
Mu=-4.83		Mu=-15.93	Mu=-37.69		Mu=-11.70	Mu=-29.56		Mu=-101.04
As=950.40		As=950.40	As=1449.19		As=950.40	As=1214.40		As=3142.18
Mu=3.98	Mu=5.95	Mu=9.73	Mu=26.70	Mu=11.62	Mu=23.23	Mu=29.56	Mu=47.30	Mu=118.24
As=950.40	As=950.40	As=950.40	As=1012.44	As=1169.19	As=1169.19	As=1214.40	As=1850.26	As=3734.43
Vu=-1.30		Vu=2.41	Vu=-6.04		Vu=-5.48	Vu=-9.45		Vu=-16.57

B=0.40 H=1.00 L=9.02			B=0.40 H=1.00 L=11.16		
Mu=-100.04		Mu=-96.18	Mu=-62.15		Mu=-3.14
As=3108.36		As=2978.40	As=1871.10		As=1214.40
Mu=125.66	Mu=34.07	Mu=66.05	Mu=36.87	Mu=14.67	Mu=1.55
As=3996.34	As=1219.83	As=1994.70	As=1451.14	As=1214.40	As=1214.40
Vu=38.31		Vu=13.99	Vu=-6.60		Vu=-3.84

VTC22/Cimentación

B=0.40 H=0.80 L=5.63			B=0.40 H=0.80 L=5.75			B=0.40 H=0.80 L=4.64		
Mu=-1.22		Mu=-9.78	Mu=-6.09		Mu=-1.52	Mu=-1.24		Mu=-1.24
As=950.40		As=950.40	As=950.40		As=950.40	As=950.40		As=950.40
Mu=3.16	Mu=4.57	Mu=7.99	Mu=3.05	Mu=1.52	Mu=1.52	Mu=1.96	Mu=3.37	Mu=4.96
As=950.40	As=950.40	As=950.40	As=950.40	As=950.40	As=950.40	As=950.40	As=950.40	As=950.40
Vu=2.46		Vu=2.46	Vu=-1.27		Vu=-1.27	Vu=-0.73		Vu=-0.73

VTC23/Cimentación

B=0.40 H=0.80 L=8.36			B=0.40 H=0.80 L=10.87		
Mu=-0.88		Mu=-1.19	Mu=-9.18		Mu=-20.64
As=950.40		As=950.40	As=950.40		As=1035.56
Mu=2.07	Mu=1.65	Mu=0.60	Mu=9.76	Mu=5.16	Mu=15.28
As=950.40	As=950.40	As=950.40	As=950.40	As=950.40	As=950.40
Vu=0.17		Vu=0.48	Vu=-1.89		Vu=4.54

VTC24/Cimentación

B=0.40 H=0.80 L=11.00		
Mu=-24.52		Mu=-78.94
As=1236.20		As=3217.71
Mu=24.52	Mu=24.52	Mu=98.09
As=1236.20	As=1236.20	As=4125.59
Vu=11.46		Vu=-53.79

VTC25/Cimentación

B=0.40 H=0.80 L=12.54			B=0.40 H=0.80 L=10.90		
Mu=-26.14		Mu=-8.55	Mu=-9.91		Mu=-9.91
As=990.52		As=950.40	As=950.40		As=1528.44
Mu=34.18	Mu=8.55	Mu=8.55	Mu=9.94	Mu=9.94	Mu=11.24
As=1308.32	As=950.40	As=950.40	As=950.40	As=950.40	As=950.40
Vu=10.27		Vu=2.41	Vu=0.79		Vu=-16.93

VTC26/Cimentación

B=0.40 H=0.80 L=8.72		
Mu=-62.15		Mu=-4.82
As=2470.59		As=950.40
Mu=36.87	Mu=9.43	Mu=2.37
As=1416.16	As=950.40	As=950.40
Vu=-6.60		Vu=-3.84

VTC3/Cimentación

B=0.40 H=0.80 L=3.97			B=0.40 H=0.80 L=3.90			B=0.40 H=0.80 L=9.26		
Mu=-14.93		Mu=-21.79	Mu=-6.31		Mu=-12.11	Mu=-22.88		Mu=-1.64
As=950.40		As=1094.79	As=950.40		As=950.40	As=1151.08		As=950.40
Mu=12.58	Mu=19.41	Mu=24.79	Mu=10.02	Mu=11.89	Mu=25.25	Mu=36.45	Mu=22.61	Mu=2.26
As=950.40	As=1018.09	As=1250.09	As=950.40	As=950.40	As=955.75	As=1399.27	As=1189.90	As=950.40
Vu=-5.14		Vu=3.38	Vu=6.83		Vu=6.83	Vu=-3.85		Vu=-5.71

VTC4/Cimentación

B=0.40 H=0.80 L=4.45			B=0.40 H=0.80 L=1.60			B=0.40 H=0.80 L=4.16		
Mu=-5.68		Mu=-34.09	Mu=-24.42		Mu=-26.23	Mu=-20.33		Mu=-22.23
As=950.40		As=1304.73	As=1230.88		As=1154.70	As=1019.63		As=1117.49
Mu=3.05	Mu=10.69	Mu=18.32	Mu=12.21	Mu=8.28	Mu=33.14	Mu=23.31	Mu=5.83	Mu=23.22
As=950.40	As=950.40	As=950.40	As=950.40	As=950.40	As=1266.83	As=1173.33	As=950.40	As=1168.67
Vu=-6.01		Vu=-6.01	Vu=31.65		Vu=31.65	Vu=-10.71		Vu=-10.71

VTC5/Cimentación

B=0.40 H=0.80 L=6.35		
Mu=-0.45		Mu=-2.71
As=950.40		As=950.40
Mu=2.17	Mu=7.58	Mu=12.99
As=950.40	As=950.40	As=950.40
Vu=1.73		Vu=1.73

VTC6/Cimentación

B=0.40 H=0.80 L=8.35		
Mu=-22.18		Mu=-7.13
As=1114.91		As=950.40
Mu=11.09	Mu=8.91	Mu=10.35
As=950.40	As=950.40	As=950.40
Vu=10.00		Vu=3.99

VTC7/Cimentación

B=0.40 H=0.80 L=7.63		
Mu=-0.00		Mu=-0.00
As=950.40		As=950.40
Mu=2.22	Mu=7.76	Mu=13.30
As=950.40	As=950.40	As=950.40
Vu=1.52		Vu=1.52

VTC8/Cimentación

B=0.40 H=0.80 L=10.12			B=0.40 H=0.80 L=7.21			B=0.40 H=0.80 L=3.90		
Mu=-4.79		Mu=-6.22	Mu=-3.65		Mu=-11.43	Mu=-4.40		Mu=-5.04
As=950.40		As=950.40	As=950.40		As=950.40	As=950.40		As=950.40
Mu=3.66	Mu=3.66	Mu=14.65	Mu=10.91	Mu=4.42	Mu=5.72	Mu=4.92	Mu=11.06	Mu=17.59
As=950.40	As=950.40	As=950.40	As=950.40	As=950.40	As=950.40	As=950.40	As=950.40	As=950.40
Vu=-1.25		Vu=3.58	Vu=-2.50		Vu=-2.02	Vu=3.34		Vu=3.34

B=0.40 H=0.80 L=9.26		
Mu=-12.94		Mu=-0.50
As=950.40		As=950.40
Mu=26.03	Mu=8.08	Mu=0.81
As=986.22	As=950.40	As=950.40
Vu=-4.36		Vu=-2.04

VTC9/Cimentación

B=0.40 H=0.80 L=9.85			B=0.40 H=0.80 L=6.61		
Mu=-11.47		Mu=-10.19	Mu=-10.19		Mu=-10.19
As=950.40		As=950.40	As=950.40		As=950.40
Mu=6.14	Mu=6.14	Mu=17.73	Mu=4.43	Mu=17.73	Mu=17.73
As=950.40	As=950.40	As=950.40	As=950.40	As=950.40	As=950.40
Vu=1.20		Vu=4.92	Vu=4.92		Vu=4.92

DISEÑO DE PLACA MACIZA EN DOS DIRECCIONES

PROYECTO: **BLOQUE 1 - TORRE**
PLACA DE SUBPRESIÓN

CALCULO: DCC

ANALISIS DE CARGAS

Carga Muerta =	0.72 T/m^2	1.20 x CM =	0.86 T/m^2
Carga Viva =	3.00 T/m^2	1.60 x CV =	4.80 T/m^2
Carga Total =	**3.72 T/m^2**	**Carga Última=**	**5.66 T/m^2**

CARACTERISTICAS DE LA PLACA

Relación $m = \frac{\ell_{na}}{\ell_{nb}}$	Caso 1	Caso 2	Caso 3	Caso 4	Caso 5	Caso 6	Caso 7	Caso 8	Caso 9
	ℓ_{nb}, ℓ_{na}								

Un borde achurado indica que la losa continúa a traves o está restingida a momento por la rigidez del apoyo. Un borde sin achurar indica que hay apoyo vertical, pero que este da una restricción a momento despreciable.

Placa caso #: 2

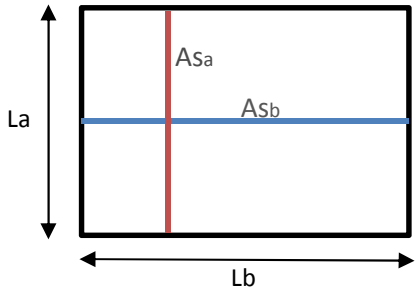
L_a (m)= 4.50
L_b (m)= 4.50

$m = L_a / L_b$ = 1.00

Ca_{neg} =	0.0450		
Cb_{neg} =	0.0450	A_a(m^2)=	5.06
$Ca_{pos\ cv}$ =	0.0270	A_b(m^2)=	5.06
$Cb_{pos\ cv}$ =	0.0270		
$Ca_{pos\ cm}$ =	0.0180	d_a(m)=	1.13
$Cb_{pos\ cm}$ =	0.0180	d_b(m)=	1.13
W_a	0.5000		
W_b	0.5000		

DISEÑO A FLEXIÓN

Ma_{neg}=	Ca_{neg} x CU x L_a^2=	5.16 T.m	
Mb_{neg}=	Cb_{neg} x CU x L_b^2=	5.16 T.m	
Ma_{pos}=	($Ca_{pos\ cv}$ x 1.6xCV + $Ca_{pos\ cm}$ x 1.2xCM) x L_a^2=	2.94 T.m	
Mb_{pos}=	($Cb_{pos\ cv}$ x 1.6xCV + $Cb_{pos\ cm}$ x 1.2xCM) x L_b^2=	2.94 T.m	
V_a =	W_a x L_a x CU / 2 =	6.37 T/m	
V_b =	W_b x L_b x CU / 2 =	6.37 T/m	
ϕV_c=	ϕ0.17 x $\sqrt{f'_c}$ x d =	14.17 T/m	CUMPLE



espesor = 25 cm
d = 21 cm

f'_c (kg/cm^2)= 280
F_y (kg/cm^2)= 4200

Cuantía Ma_{neg} =	0.0032	A_s Ma_{neg} =	6.69	cm^2/mL	#4@.20
Cuantía Mb_{neg} =	0.0032	A_s Mb_{neg} =	6.69	cm^2/mL	#4@.20
Cuantía Ma_{pos} =	0.0018	A_s Ma_{pos} =	3.76	cm^2/mL	#3@.15
Cuantía Mb_{pos} =	0.0018	A_s Mb_{pos} =	3.76	cm^2/mL	#3@.15

CUANTÍA MÍNIMA

Cuantía mínima = 0.0018
Ref mín. cada cara = 4.50 cm^2/m #3/8@.15

```
*****************************************************
*                                                   *
*           STAAD.Pro V8i SELECTseries6             *
*           Version  20.07.11.90                    *
*           Proprietary Program of                  *
*           Bentley Systems, Inc.                   *
*           Date=    JUN 22, 2017                   *
*           Time=    12:29:42                       *
*                                                   *
*      USER ID:                                     *
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    2. START JOB INFORMATION
    3. ENGINEER DATE 22-JUN-17
    4. END JOB INFORMATION
    5. INPUT WIDTH 79
    6. UNIT METER MTON
    7. JOINT COORDINATES
    8. 1 0 0 0; 2 11.7 0 0; 3 23.4 0 0; 4 35.1 0 0; 5 46.8 0 0; 6 58.5 0 0; 7 -1 0 0
    9. 8 10.7 0 0; 9 22.4 0 0; 10 34.1 0 0; 11 45.8 0 0; 12 57.5 0 0; 13 1 0 0
   10. 14 12.7 0 0; 15 24.4 0 0; 16 36.1 0 0; 17 47.8 0 0; 18 59.5 0 0; 19 0 -4.5 0
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   12. 25 -1 -4.5 0; 26 10.7 -4.5 0; 27 22.4 -4.5 0; 28 34.1 -4.5 0; 29 45.8 -4.5 0
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568. 65 TO 896 THICKNESS 0.4
569. DEFINE MATERIAL START
570. ISOTROPIC CONCRETE
571. E 2.21467E+006
572. POISSON 0.17
573. DENSITY 2.40262
574. ALPHA 1E-005
575. DAMP 0.05
576. TYPE CONCRETE
577. STRENGTH FCU 2812.28
578. END DEFINE MATERIAL
579. CONSTANTS
580. MATERIAL CONCRETE ALL
581. SUPPORTS
582. 1 TO 18 FIXED BUT FX FY MX MY MZ
583. 37 TO 54 73 TO 123 166 TO 216 259 TO 309 352 TO 402 445 TO 495 562 TO 584 -
584. 585 FIXED BUT FY MX MY MZ KFX 538 KFZ 538
585. 616 TO 639 655 TO 666 697 TO 720 736 TO 747 778 TO 801 817 TO 828 859 TO 882 -
586. 898 TO 909 940 TO 963 979 TO 990 1021 TO 1044 1060 TO 1070 -
587. 1071 FIXED BUT FY MX MY MZ KFX 375 KFZ 375
588. 610 TO 615 652 TO 654 691 TO 696 733 TO 735 772 TO 777 814 TO 816 853 TO 858 -
589. 895 TO 897 934 TO 939 976 TO 978 1015 TO 1020 1057 TO 1058 -
590. 1059 FIXED BUT FY MX MY MZ KFX 1207 KFZ 1207
591. 602 TO 609 648 TO 651 683 TO 690 729 TO 732 764 TO 771 810 TO 813 845 TO 852 -
592. 891 TO 894 926 TO 933 972 TO 975 1007 TO 1014 1053 TO 1055 -
593. 1056 FIXED BUT FY MX MY MZ KFX 1143 KFZ 1143
594. 600 601 647 681 682 728 762 763 809 843 844 890 924 925 971 1005 1006 -
595. 1052 FIXED BUT FY MX MY MZ KFX 4158 KFZ 4158
596. 592 TO 599 643 TO 646 673 TO 680 724 TO 727 754 TO 761 805 TO 808 835 TO 842 -
597. 886 TO 889 916 TO 923 967 TO 970 997 TO 1004 1048 TO 1050 -
598. 1051 FIXED BUT FY MX MY MZ KFX 3525 KFZ 3525
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599. 586 TO 591 640 TO 642 667 TO 672 721 TO 723 748 TO 753 802 TO 804 829 TO 834 -
600. 883 TO 885 910 TO 915 964 TO 966 991 TO 996 1045 TO 1046 -
601. 1047 FIXED BUT FY MX MY MZ KFX 2877 KFZ 2877
602. 55 TO 72 FIXED BUT FX FZ MX MY MZ KFY 1872
603. 124 126 TO 133 135 137 TO 144 146 148 TO 155 157 TO 165 217 219 TO 226 228 -
604. 230 TO 237 239 241 TO 248 250 TO 258 310 312 TO 319 321 323 TO 330 332 334 -
605. 335 TO 341 343 TO 351 403 405 TO 412 414 416 TO 423 425 427 TO 434 -
606. 436 TO 444 496 498 TO 505 507 509 TO 516 518 520 TO 527 529 TO 536 -
607. 537 FIXED BUT FY MX MY MZ KFX 394 KFZ 394
608. LOAD 1 LOADTYPE SOIL  TITLE EMPUJE
609. ELEMENT LOAD
610. 135 144 215 216 224 295 304 375 384 455 464 468 472 476 480 484 488 492 496 -
611. 500 504 508 512 TRAP GZ Y 2.3 0
612. 125 134 205 214 285 294 365 374 445 454 467 471 475 479 483 487 491 495 499 -
613. 503 507 511 TRAP GZ Y 4.6 2.3
614. 95 104 105 114 115 124 175 184 185 194 195 204 255 264 265 274 275 284 335 -
615. 344 345 354 355 364 415 424 425 434 435 444 465 466 469 470 473 474 477 478 -
616. 481 482 485 486 489 490 493 494 497 498 501 502 505 506 509 510 516 520 524 -
617. 528 532 536 540 544 548 552 556 560 PR GZ 22.4
618. LOAD COMB 2 COMB1
619. 1 1.6
620. PERFORM ANALYSIS
```

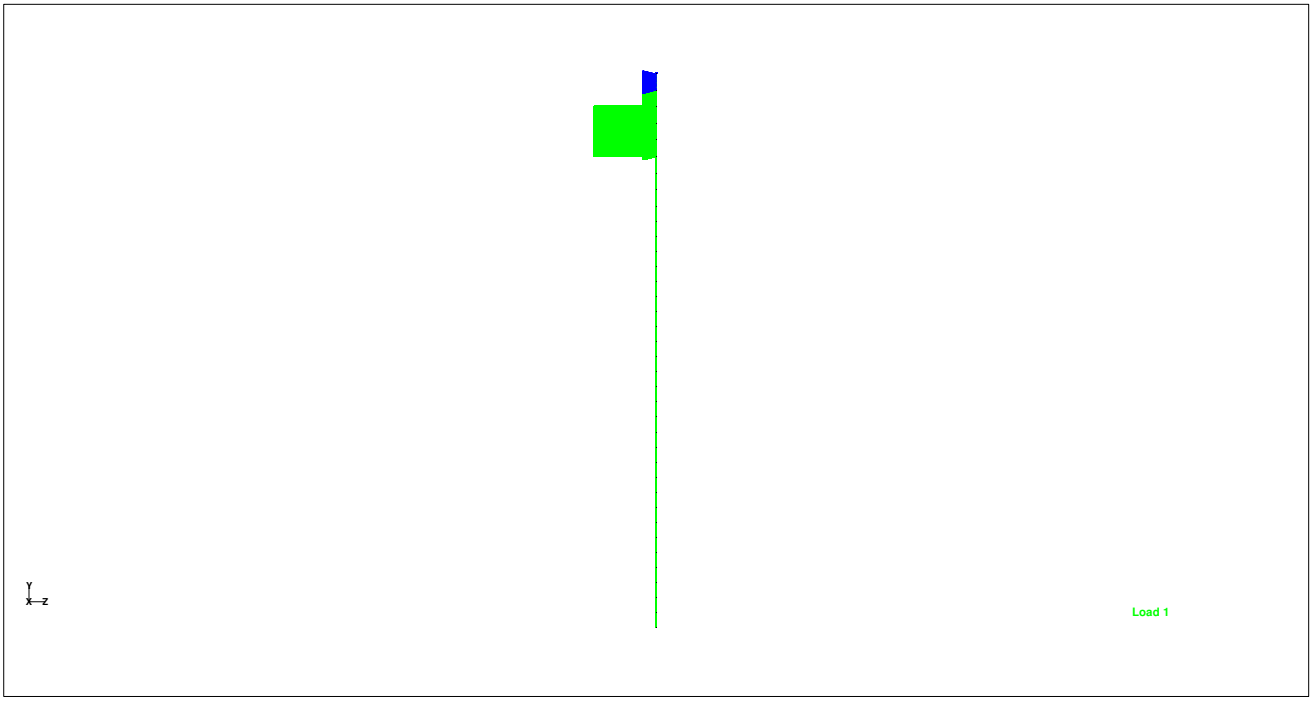
P R O B L E M S T A T I S T I C S

NUMBER OF JOINTS	**1071**	**NUMBER OF MEMBERS**	**0**
NUMBER OF PLATES	**832**	**NUMBER OF SOLIDS**	**0**
NUMBER OF SURFACES	**0**	**NUMBER OF SUPPORTS**	**999**

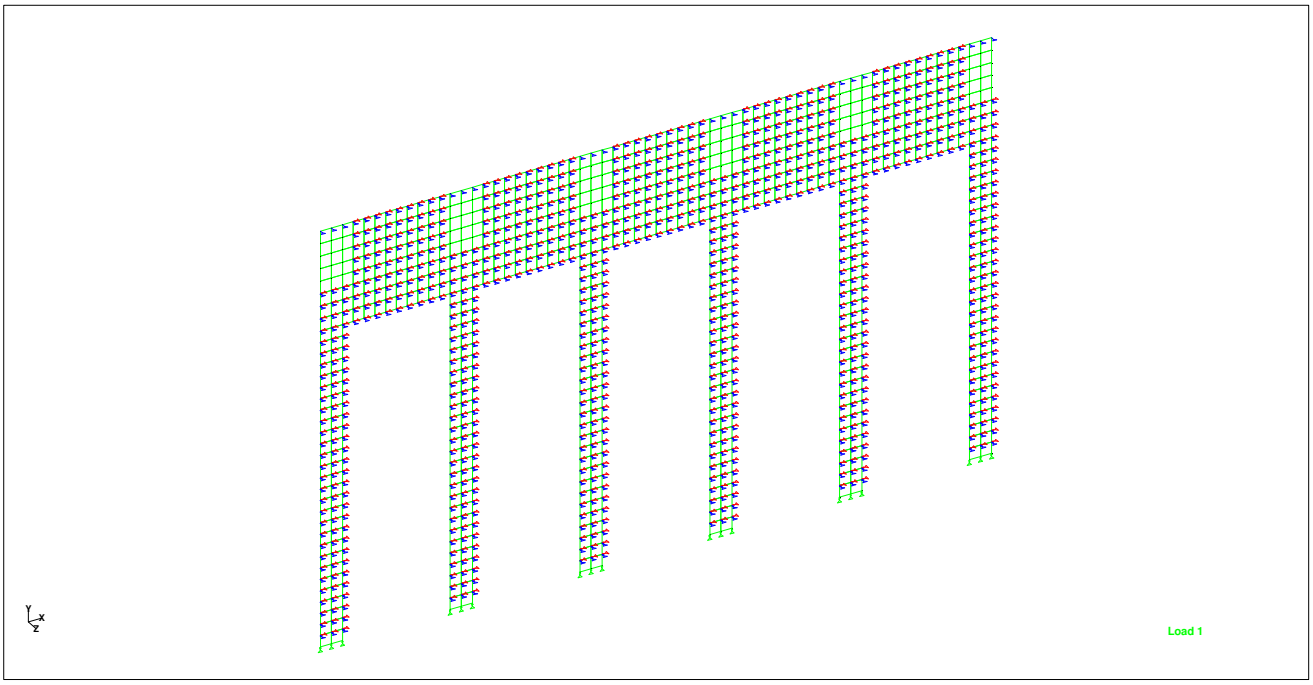
SOLVER USED IS THE OUT-OF-CORE BASIC SOLVER

ORIGINAL/FINAL BAND-WIDTH= 1029/ 20/ 126 DOF
TOTAL PRIMARY LOAD CASES = 1, TOTAL DEGREES OF FREEDOM = 6408
TOTAL LOAD COMBINATION CASES = 1 SO FAR.
SIZE OF STIFFNESS MATRIX = 808 DOUBLE KILO-WORDS
REQRD/AVAIL. DISK SPACE = 25.1/ 456767.5 MB

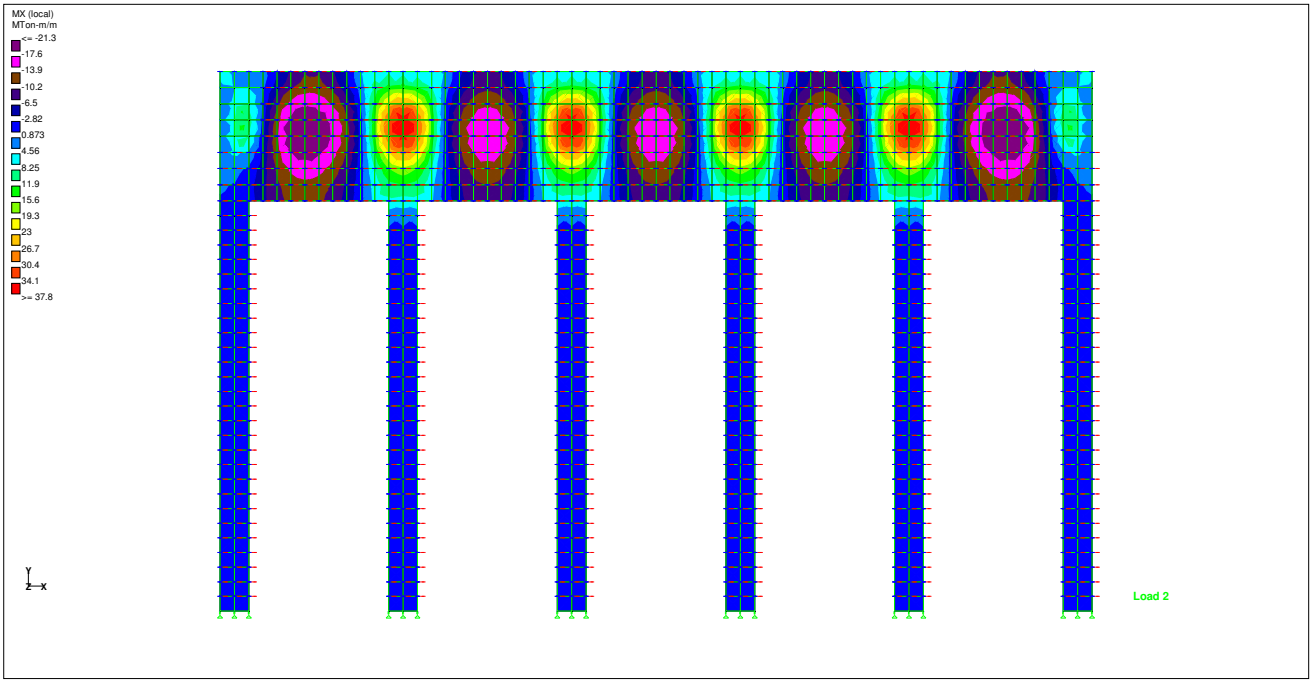
```
***WARNING -  INSTABILITY AT JOINT    72   DIRECTION = MZ
 PROBABLE CAUSE SINGULAR-ADDING WEAK SPRING
 K-MATRIX DIAG=  1.9146201E+06 L-MATRIX DIAG=  4.1909516E-08 EQN NO    6408
 ***NOTE - VERY WEAK SPRING ADDED FOR STABILITY
```



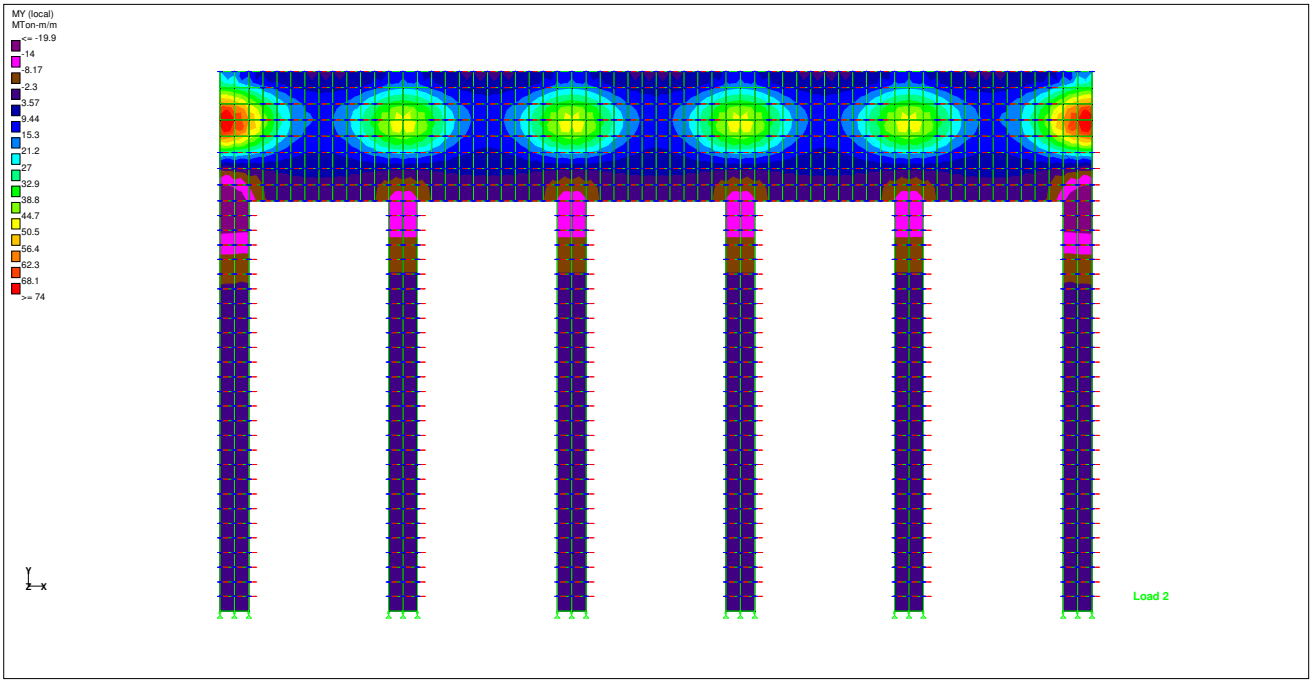
CARGAS



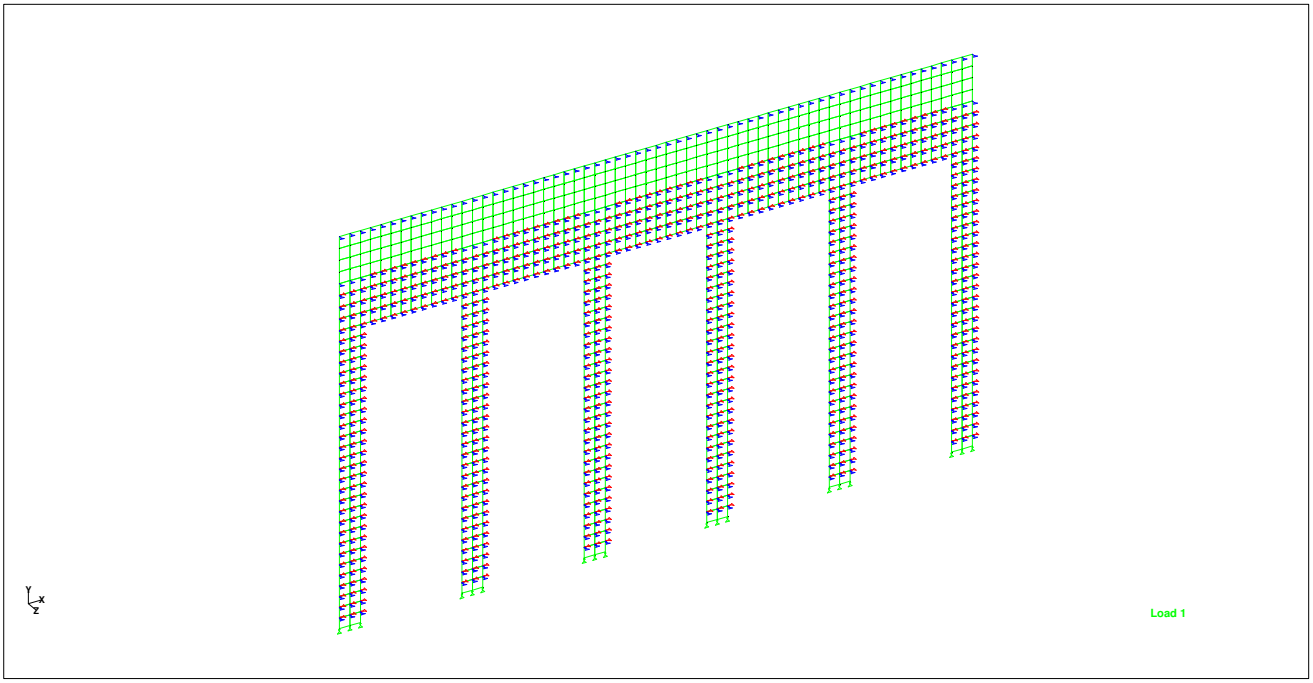
ETAPA 1



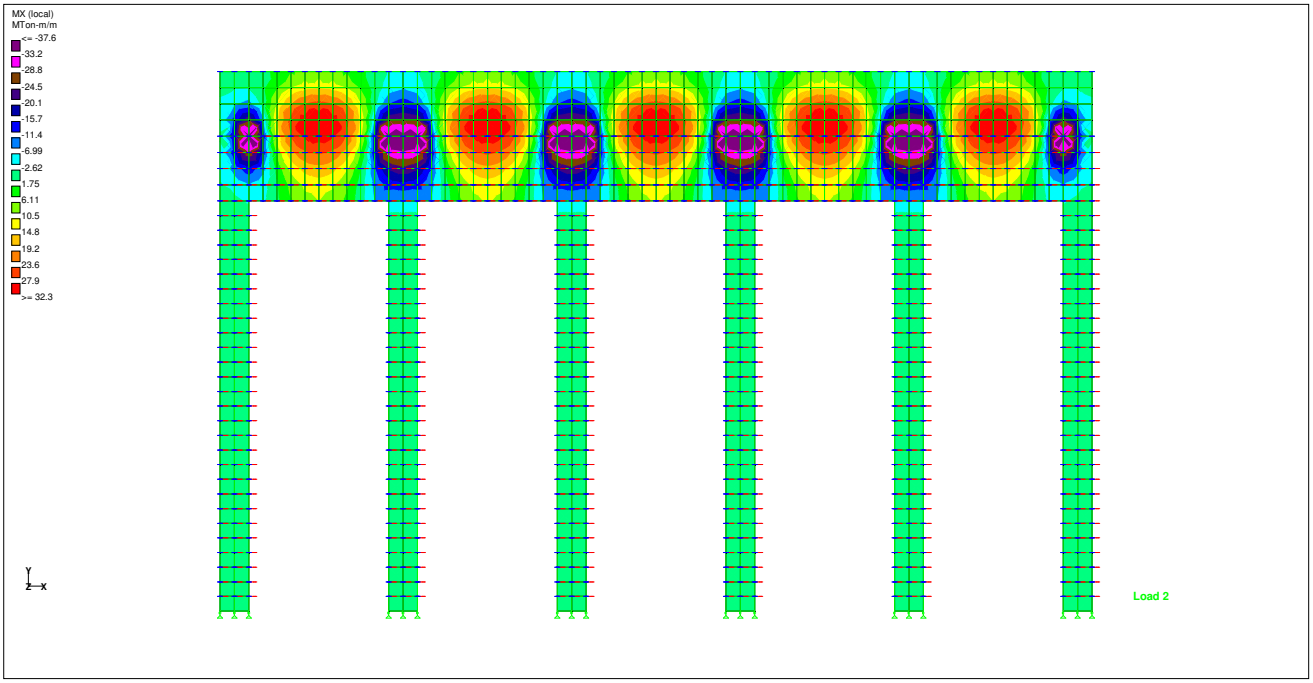
MOMENTO EN X - ETAPA 1



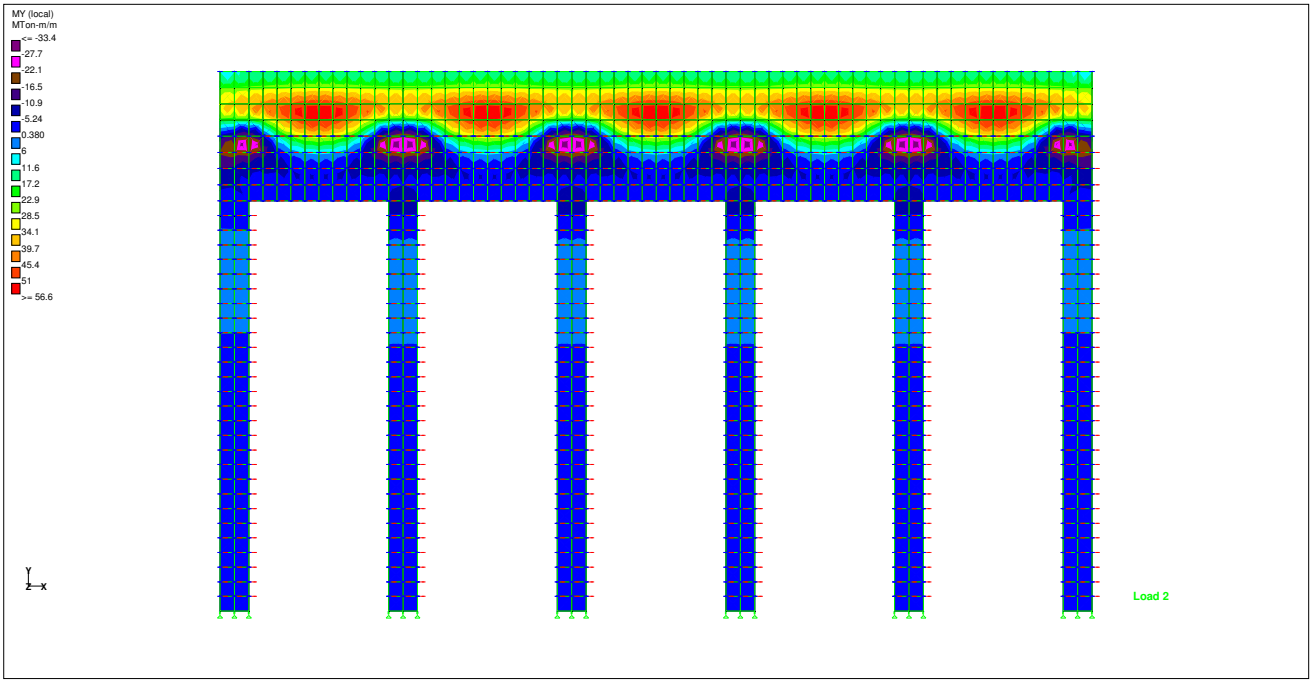
MOMENTO EN Y - ETAPA 1



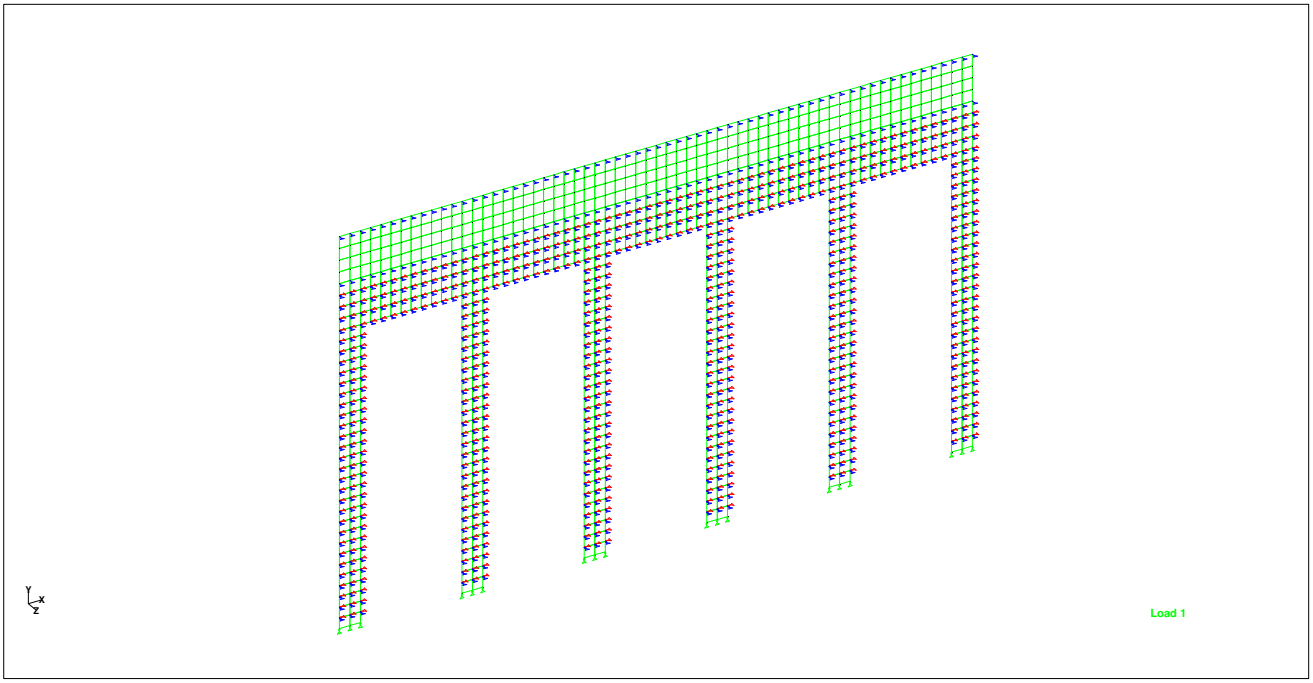
ETAPA 2



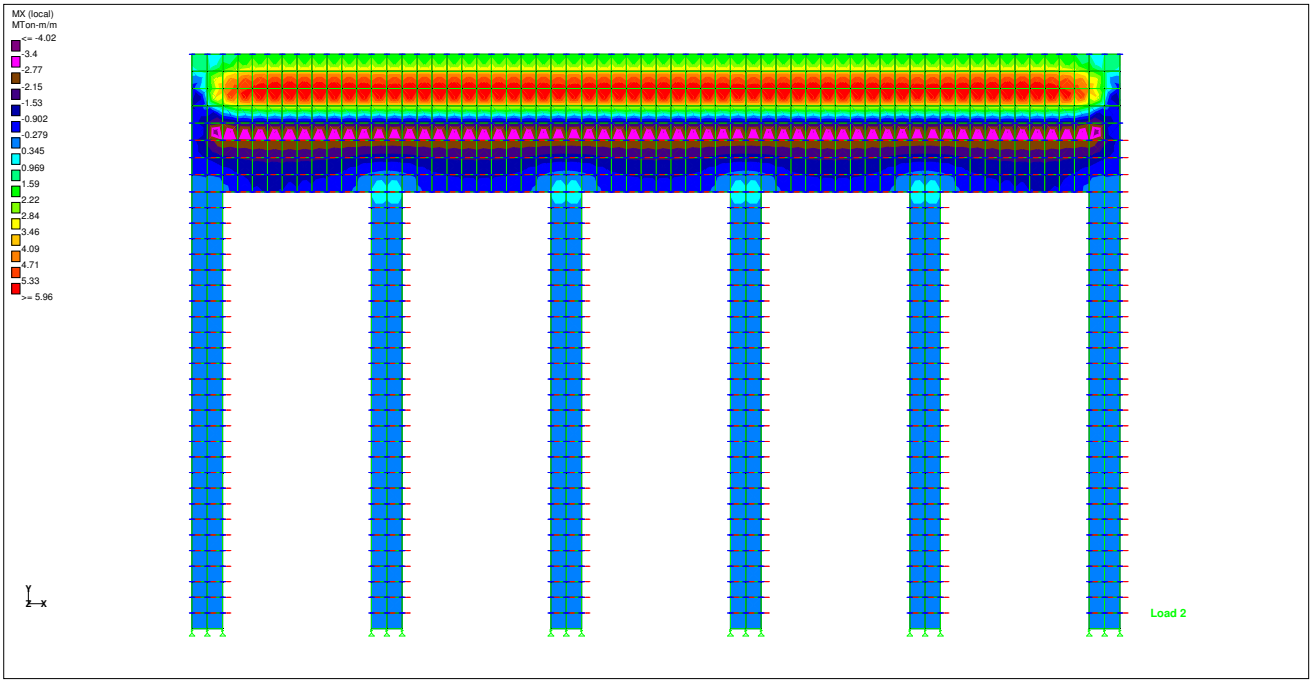
MOMENTO EN X - ETAPA 1



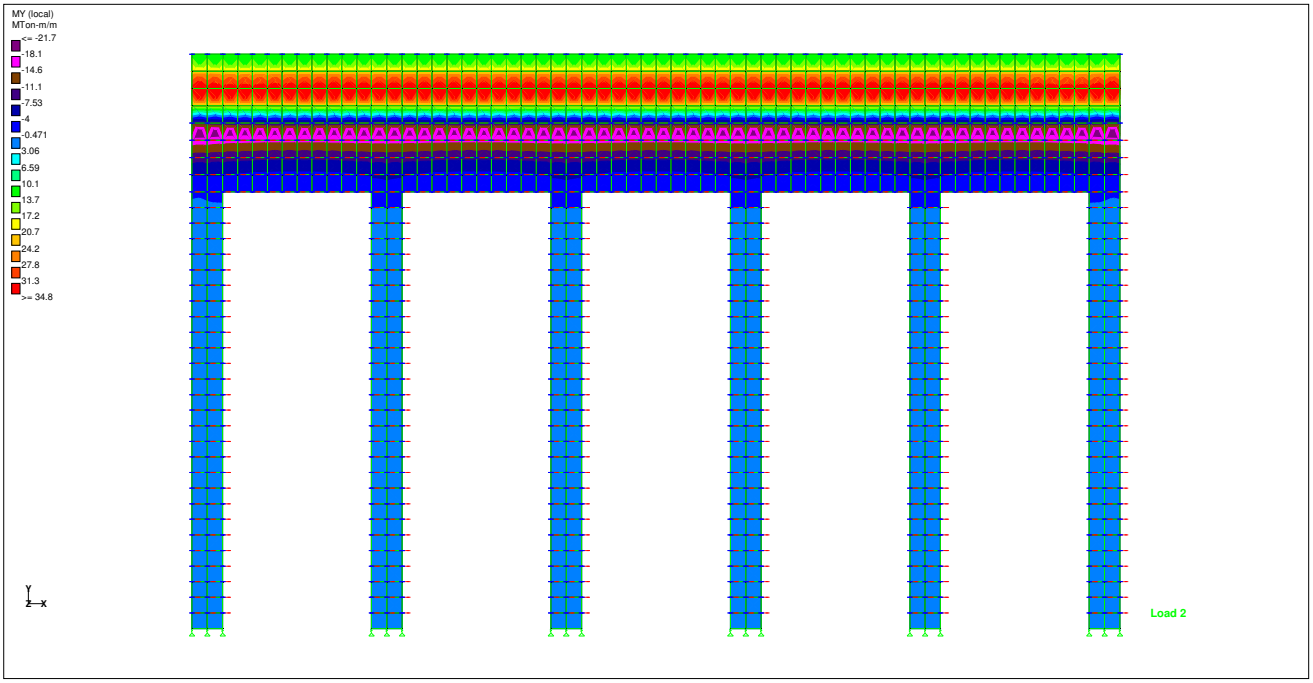
MOMENTO EN Y - ETAPA 1



ETAPA 3



MOMENTO EN X - ETAPA 3



MOMENTO EN Y - ETAPA 3

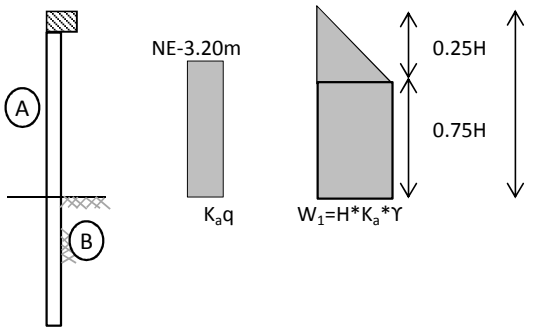
DISEÑO DE PANTALLA PREEXCAVADA

PROYECTO: **UNAL-SGC** CALCULÓ: DCC

Parámetros ***Geometría***

Υ (T/m^3)=	2.25	t=	40 cm	f'c (MPa) =	28
K_a=	1	d'=	7 cm	Fy (MPa) =	420
FC=	1.6	d=	33 cm	b (m) =	1.00
				k =	0.0667
q=	5.9 T/m2				

Etapa 1: EXCAVACIÓN POR TRINCHERAS DE 2.00m DE ANCHO EN CADA EJE Y APUNTALAMIENTO DE LA PANTALLA DENTRO DE LA TRINCHERA A NIVEL DE PLANTA BAJA

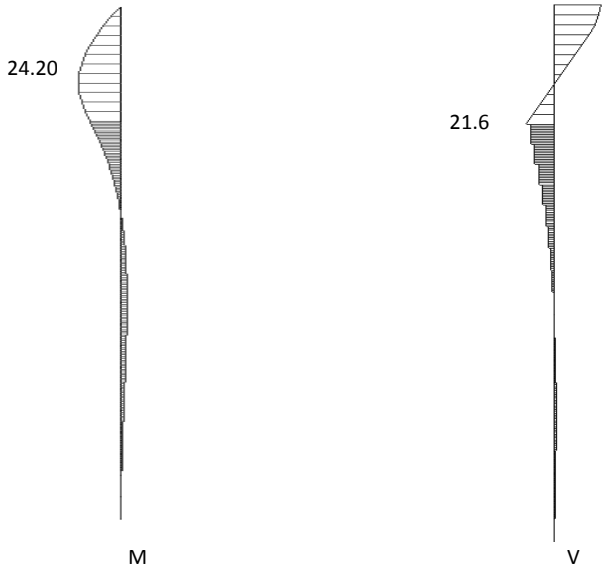


H= 5.70 m

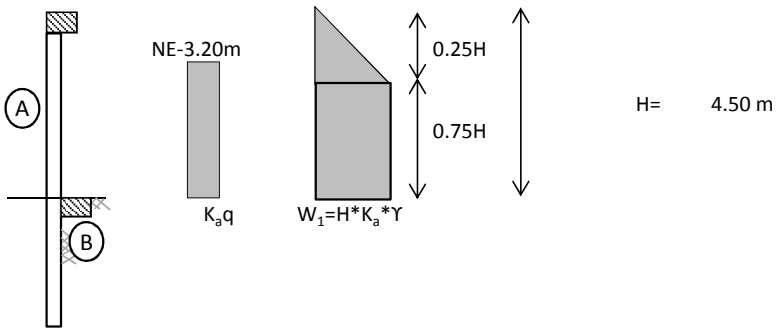
Fuerzas actuantes:

W_1 = 4.50 T/m^2

q = 5.90 T/m^2



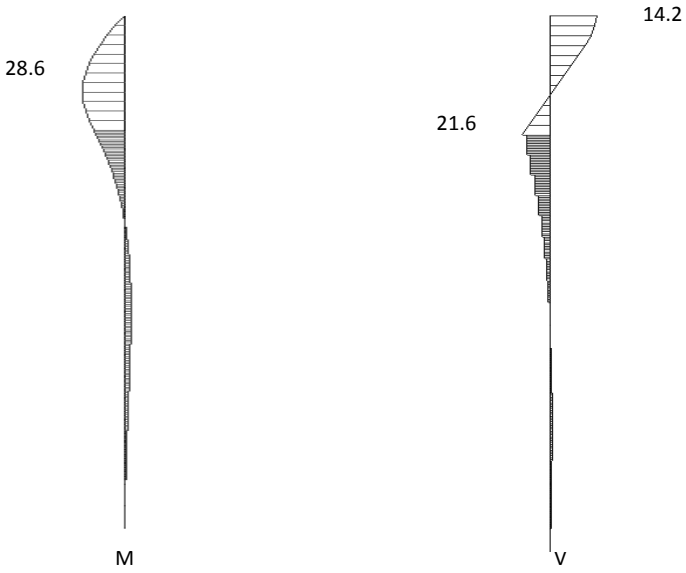
Etapa 2: APUNTALAMIENTO A NIVEL DE CIMENTACIÓN EN LA FRANJA DE TRINCHERA DE EXCAVACIÓN



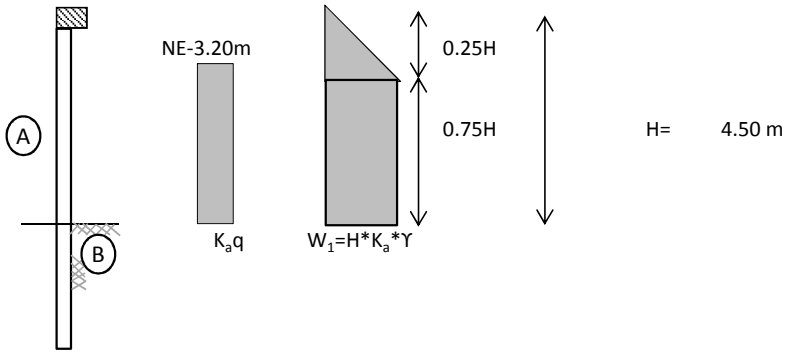
Fuerzas actuantes:

W_1 = 4.50 T/m^2

q = 5.90 T/m^2



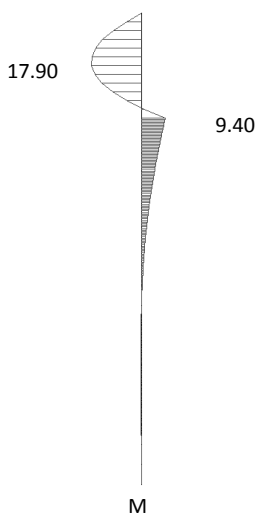
Etapa 3: APUNTALAMIENTO COMPLETO A N IVEL DE PLANTA BAJA Y CIMENTACIÓN

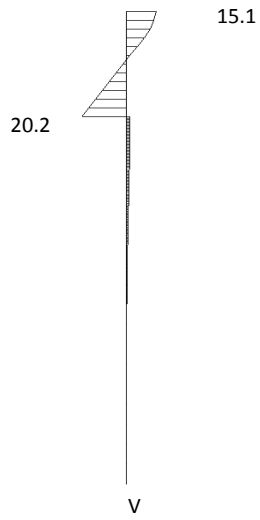


Fuerzas actuantes:

W_1 = 4.50 T/m^2

q = 5.90 T/m^2





CHEQUEO A CORTANTE

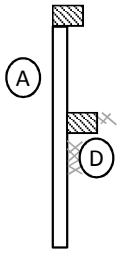
V_A (T/m)	V_B (T/m)
15.1	21.6

ϕ= 0.75

λ= 1

$\phi V_c = \phi 0.17 \lambda \sqrt{f'_c} * d =$ 22.26 T-m **OK**

ENVOLVENTE DE DISEÑO A FLEXIÓN



Nivel	M^+ (T-m/m)	M^- (T-m/m)	R (kg/cm^2)	ρ	A_s (cm^2-m)			
Planta Baja	28.6		29.181	0.0079	26.23	*#7*	*c/*	*0.14*
Sótano		9.4	9.591	0.0025	8.19	*#5*	*c/*	*0.20*

CUANTÍA MÍNIMA HORIZONTAL

$\rho_{mín}$	A_s (cm^2-m)				
0.002	4.00	*Colocar*	*#4*	*cada*	*0.25 m*

```
**************************************************
*                                                *
*           STAAD.Pro V8i SELECTseries6           *
*           Version  20.07.11.90                 *
*           Proprietary Program of               *
*           Bentley Systems, Inc.                *
*           Date=    JUN 22, 2017                *
*           Time=    11: 6: 6                    *
*                                                *
*      USER ID:                                  *
**************************************************
```

```
     1. STAAD SPACE
INPUT FILE: Z:\PROYECTOS 2016\140_EDIFICIO SGS_UNAL\2. MODELOS\CONTENCIONES\140_Muro de contencion_jun.. .STD
     2. START JOB INFORMATION
     3. ENGINEER DATE 21-JUN-17
     4. END JOB INFORMATION
     5. INPUT WIDTH 79
     6. UNIT METER MTON
     7. JOINT COORDINATES
     8. 1 0 0 0; 2 13.8 0 0; 3 27.6 0 0; 4 41.4 0 0; 5 55.2 0 0; 6 -1 0 0; 7 12.8 0 0
     9. 8 26.6 0 0; 9 40.4 0 0; 10 54.2 0 0; 11 1 0 0; 12 14.8 0 0; 13 28.6 0 0
    10. 14 42.4 0 0; 15 56.2 0 0; 16 0 -4.2 0; 17 13.8 -4.2 0; 18 27.6 -4.2 0
    11. 19 41.4 -4.2 0; 20 55.2 -4.2 0; 21 -1 -4.2 0; 22 12.8 -4.2 0; 23 26.6 -4.2 0
    12. 24 40.4 -4.2 0; 25 54.2 -4.2 0; 26 1 -4.2 0; 27 14.8 -4.2 0; 28 28.6 -4.2 0
    13. 29 42.4 -4.2 0; 30 56.2 -4.2 0; 31 0 -37.2 0; 32 13.8 -37.2 0; 33 27.6 -37.2 0
    14. 34 41.4 -37.2 0; 35 55.2 -37.2 0; 36 -1 -37.2 0; 37 12.8 -37.2 0
    15. 38 26.6 -37.2 0; 39 40.4 -37.2 0; 40 54.2 -37.2 0; 41 1 -37.2 0
    16. 42 14.8 -37.2 0; 43 28.6 -37.2 0; 44 42.4 -37.2 0; 45 56.2 -37.2 0
    17. 46 0 -3.15 0; 47 -1 -3.15 0; 48 0 -2.1 0; 49 -1 -2.1 0; 50 0 -1.05 0
    18. 51 -1 -1.05 0; 52 1 -3.15 0; 53 1 -2.1 0; 54 1 -1.05 0; 55 12.8 -3.15 0
    19. 56 12.8 -2.1 0; 57 12.8 -1.05 0; 58 13.8 -3.15 0; 59 13.8 -2.1 0
    20. 60 13.8 -1.05 0; 61 14.8 -3.15 0; 62 14.8 -2.1 0; 63 14.8 -1.05 0
    21. 64 26.6 -3.15 0; 65 26.6 -2.1 0; 66 26.6 -1.05 0; 67 27.6 -3.15 0
    22. 68 27.6 -2.1 0; 69 27.6 -1.05 0; 70 28.6 -3.15 0; 71 28.6 -2.1 0
    23. 72 28.6 -1.05 0; 73 40.4 -3.15 0; 74 40.4 -2.1 0; 75 40.4 -1.05 0
    24. 76 41.4 -3.15 0; 77 41.4 -2.1 0; 78 41.4 -1.05 0; 79 42.4 -3.15 0
    25. 80 42.4 -2.1 0; 81 42.4 -1.05 0; 82 54.2 -3.15 0; 83 54.2 -2.1 0
    26. 84 54.2 -1.05 0; 85 55.2 -3.15 0; 86 55.2 -2.1 0; 87 55.2 -1.05 0
    27. 88 56.2 -3.15 0; 89 56.2 -2.1 0; 90 56.2 -1.05 0; 91 1.98333 -4.2 0
    28. 92 1.98333 -3.15 0; 93 2.96667 -4.2 0; 94 2.96667 -3.15 0; 95 3.95 -4.2 0
    29. 96 3.95 -3.15 0; 97 4.93333 -4.2 0; 98 4.93333 -3.15 0; 99 5.91667 -4.2 0
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```

39. 134 11.8167 -1.05 0; 135 1.98333 0 0; 136 2.96667 0 0; 137 3.95 0 0
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55. 193 18.7333 0 0; 194 19.7167 0 0; 195 20.7 0 0; 196 21.6833 0 0
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80. 286 51.25 -2.1 0; 287 52.2333 -2.1 0; 288 53.2167 -2.1 0; 289 43.3833 -1.05 0
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1418. ELEMENT PROPERTY
1419. 39 TO 46 51 TO 58 63 TO 70 75 TO 82 87 TO 94 96 98 100 102 104 106 108 110 -
1420. 112 114 116 TO 153 155 157 159 161 163 165 167 169 171 173 175 TO 212 214 -
1421. 216 218 220 222 224 226 228 230 232 234 TO 271 273 275 277 279 281 283 285 -
1422. 287 289 291 293 TO 660 719 TO 1280 1522 TO 2083 THICKNESS 0.4
1423. 1290 TO 1463 2084 TO 2257 THICKNESS 0.3
1424. DEFINE MATERIAL START
1425. ISOTROPIC CONCRETE
1426. E 2.21467E+006
1427. POISSON 0.17
1428. DENSITY 2.40262
1429. ALPHA 1E-005
1430. DAMP 0.05
1431. TYPE CONCRETE
1432. STRENGTH FCU 2812.28
1433. END DEFINE MATERIAL
1434. MEMBER PROPERTY AMERICAN
1435. 25 TO 38 95 97 99 101 103 105 107 109 111 113 115 154 156 158 160 162 164 -
1436. 166 168 170 172 174 213 215 217 219 221 223 225 227 229 231 233 272 274 276 -
1437. 278 280 282 284 286 288 290 292 661 TO 718 1464 TO 1521 PRIS YD 0.6 ZD 1
1438. CONSTANTS
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1439. MATERIAL CONCRETE ALL
1440. SUPPORTS
1441. 367 TO 374 403 TO 406 463 TO 470 499 TO 502 559 TO 566 595 TO 598 655 TO 662 -
1442. 691 TO 694 751 TO 758 787 TO 790 1157 TO 1164 1193 TO 1196 1253 TO 1260 1289 -
1443. 1290 TO 1292 1349 TO 1356 1385 TO 1388 1445 TO 1452 1481 TO 1484 1541 TO 1548 -
1444. 1577 TO 1580 2124 TO 2131 2160 TO 2163 2220 TO 2227 2256 TO 2259 -
1445. 2316 TO 2323 2352 TO 2355 2412 TO 2419 2448 TO 2451 2508 TO 2515 -
1446. 2544 TO 2547 FIXED BUT FY MX MY MZ KFX 359 KFZ 359
1447. 343 TO 366 391 TO 402 439 TO 462 487 TO 498 535 TO 558 583 TO 594 631 TO 654 -
1448. 679 TO 690 727 TO 750 775 TO 786 1133 TO 1156 1181 TO 1192 1229 TO 1252 1277 -
1449. 1278 TO 1288 1325 TO 1348 1373 TO 1384 1421 TO 1444 1469 TO 1480 1517 TO 1540 -
1450. 1565 TO 1576 2100 TO 2123 2148 TO 2159 2196 TO 2219 2244 TO 2255 -
1451. 2292 TO 2315 2340 TO 2351 2388 TO 2411 2436 TO 2447 2484 TO 2507 -
1452. 2532 TO 2543 FIXED BUT FY MX MY MZ KFX 375 KFZ 375
1453. 337 TO 342 388 TO 390 433 TO 438 484 TO 486 529 TO 534 580 TO 582 625 TO 630 -
1454. 676 TO 678 721 TO 726 772 TO 774 1127 TO 1132 1178 TO 1180 1223 TO 1228 1274 -
1455. 1275 TO 1276 1319 TO 1324 1370 TO 1372 1415 TO 1420 1466 TO 1468 1511 TO 1516 -
1456. 1562 TO 1564 2094 TO 2099 2145 TO 2147 2190 TO 2195 2241 TO 2243 -
1457. 2286 TO 2291 2337 TO 2339 2382 TO 2387 2433 TO 2435 2478 TO 2483 -
1458. 2529 TO 2531 FIXED BUT FY MX MY MZ KFX 1207 KFZ 1207
1459. 329 TO 336 384 TO 387 425 TO 432 480 TO 483 521 TO 528 576 TO 579 617 TO 624 -
1460. 672 TO 675 713 TO 720 768 TO 771 1119 TO 1126 1174 TO 1177 1215 TO 1222 1270 -
1461. 1271 TO 1273 1311 TO 1318 1366 TO 1369 1407 TO 1414 1462 TO 1465 1503 TO 1510 -
1462. 1558 TO 1561 2086 TO 2093 2141 TO 2144 2182 TO 2189 2237 TO 2240 -
1463. 2278 TO 2285 2333 TO 2336 2374 TO 2381 2429 TO 2432 2470 TO 2477 -
1464. 2525 TO 2528 FIXED BUT FY MX MY MZ KFX 1143 KFZ 1143
1465. 327 328 383 423 424 479 519 520 575 615 616 671 711 712 767 1117 1118 1173 -
1466. 1213 1214 1269 1309 1310 1365 1405 1406 1461 1501 1502 1557 2084 2085 2140 -
1467. 2180 2181 2236 2276 2277 2332 2372 2373 2428 2468 2469 -
1468. 2524 FIXED BUT FY MX MY MZ KFX 4158 KFZ 4158
1469. 319 TO 326 379 TO 382 415 TO 422 475 TO 478 511 TO 518 571 TO 574 607 TO 614 -
1470. 667 TO 670 703 TO 710 763 TO 766 1109 TO 1116 1169 TO 1172 1205 TO 1212 1265 -
1471. 1266 TO 1268 1301 TO 1308 1361 TO 1364 1397 TO 1404 1457 TO 1460 1493 TO 1500 -
1472. 1553 TO 1556 2076 TO 2083 2136 TO 2139 2172 TO 2179 2232 TO 2235 -
1473. 2268 TO 2275 2328 TO 2331 2364 TO 2371 2424 TO 2427 2460 TO 2467 -
1474. 2520 TO 2523 FIXED BUT FY MX MY MZ KFX 3525 KFZ 3525
1475. 311 TO 318 375 TO 378 407 TO 414 471 TO 474 503 TO 510 567 TO 570 599 TO 606 -
1476. 663 TO 666 695 TO 702 759 TO 762 1101 TO 1108 1165 TO 1168 1197 TO 1204 1261 -
1477. 1262 TO 1264 1293 TO 1300 1357 TO 1360 1389 TO 1396 1453 TO 1456 1485 TO 1492 -
1478. 1549 TO 1552 2068 TO 2075 2132 TO 2135 2164 TO 2171 2228 TO 2231 -
1479. 2260 TO 2267 2324 TO 2327 2356 TO 2363 2420 TO 2423 2452 TO 2459 -
1480. 2516 TO 2519 FIXED BUT FY MX MY MZ KFX 2877 KFZ 2877
1481. 31 TO 45 821 TO 835 1788 TO 1802 FIXED BUT FX FZ MX MY MZ KFY 1872
1482. 1 TO 30 91 93 95 97 99 101 103 105 107 109 111 135 TO 146 148 150 152 154 -
1483. 156 158 160 162 164 166 190 TO 201 203 205 207 209 211 213 215 217 219 221 -
1484. 245 TO 256 258 260 262 264 266 268 270 272 274 276 300 TO 310 791 TO 820 -
1485. 881 883 885 887 889 891 893 895 897 899 901 925 TO 936 938 940 942 944 946 -
1486. 948 950 952 954 956 980 TO 991 993 995 997 999 1001 1003 1005 1007 1009 1011 -
1487. 1035 TO 1046 1048 1050 1052 1054 1056 1058 1060 1062 1064 1066 1090 TO 1100 -
1488. 1581 TO 1639 1758 TO 1787 1848 1850 1852 1854 1856 1858 1860 1862 1864 1866 -
1489. 1868 1892 TO 1903 1905 1907 1909 1911 1913 1915 1917 1919 1921 1923 1947 -
1490. 1948 TO 1958 1960 1962 1964 1966 1968 1970 1972 1974 1976 1978 2002 TO 2013 -
1491. 2015 2017 2019 2021 2023 2025 2027 2029 2031 2033 2057 TO 2066 -
1492. 2067 FIXED BUT FX FY MX MY MZ
1493. LOAD 1 LOADTYPE SOIL  TITLE EMPUJE
```

```
 **WARNING- THIS STRUCTURE IS DISJOINTED. IGNORE IF
           MASTER/SLAVE OR IF UNCONNECTED JOINTS.
1494. ELEMENT LOAD
1495. 42 46 54 58 66 70 78 82 90 94 142 TO 153 201 TO 212 260 TO 271 319 TO 330 -
1496. 1294 1295 1300 1301 1306 1307 1312 1313 1318 1319 1344 TO 1355 1380 TO 1391 -
1497. 1416 TO 1427 1452 TO 1463 2088 2089 2094 2095 2100 2101 2106 2107 2112 2113 -
1498. 2138 TO 2149 2174 TO 2185 2210 TO 2221 2246 TO 2257 TRAP GZ Y 4.8 0
1499. 40 41 44 45 52 53 56 57 64 65 68 69 76 77 80 81 88 89 92 93 118 TO 141 177 -
1500. 178 TO 200 236 TO 259 295 TO 318 1290 TO 1293 1296 TO 1299 1302 TO 1305 1308 -
1501. 1309 TO 1311 1314 TO 1317 1320 TO 1343 1356 TO 1379 1392 TO 1415 1428 TO 1451 -
1502. 2084 TO 2087 2090 TO 2093 2096 TO 2099 2102 TO 2105 2108 TO 2111 -
1503. 2114 TO 2137 2150 TO 2173 2186 TO 2209 2222 TO 2245 PR GZ 4.8
1504. 39 43 51 55 63 67 75 79 87 91 96 98 100 102 104 106 108 110 112 114 116 117 -
1505. 155 157 159 161 163 165 167 169 171 173 175 176 214 216 218 220 222 224 226 -
1506. 228 230 232 234 235 273 275 277 279 281 283 285 287 289 291 293 294 722 726 -
1507. 730 734 738 742 746 750 754 758 795 TO 806 843 TO 854 891 TO 902 939 TO 950 -
1508. 1525 1529 1533 1537 1541 1545 1549 1553 1557 1561 1598 TO 1609 1646 TO 1657 -
1509. 1694 TO 1705 1742 TO 1753 TRAP GZ Y 5.6 4.8
1510. 721 725 729 733 737 741 745 749 753 757 783 TO 794 831 TO 842 879 TO 890 927 -
1511. 928 TO 938 1524 1528 1532 1536 1540 1544 1548 1552 1556 1560 1586 TO 1597 -
1512. 1634 TO 1645 1682 TO 1693 1730 TO 1741 TRAP GZ Y 6.4 5.6
1513. 720 724 728 732 736 740 744 748 752 756 771 TO 782 819 TO 830 867 TO 878 915 -
1514. 916 TO 926 1523 1527 1531 1535 1539 1543 1547 1551 1555 1559 1574 TO 1585 -
1515. 1622 TO 1633 1670 TO 1681 1718 TO 1729 TRAP GZ Y 7.2 6.4
1516. 719 723 727 731 735 739 743 747 751 755 759 TO 770 807 TO 818 855 TO 866 903 -
1517. 904 TO 914 1522 1526 1530 1534 1538 1542 1546 1550 1554 1558 1562 TO 1573 -
1518. 1610 TO 1621 1658 TO 1669 1706 TO 1717 TRAP GZ Y 8 7.2
1519. LOAD COMB 2 COMB1
1520. 1 1.6
1521. PERFORM ANALYSIS


         P R O B L E M   S T A T I S T I C S
         -----------------------------------

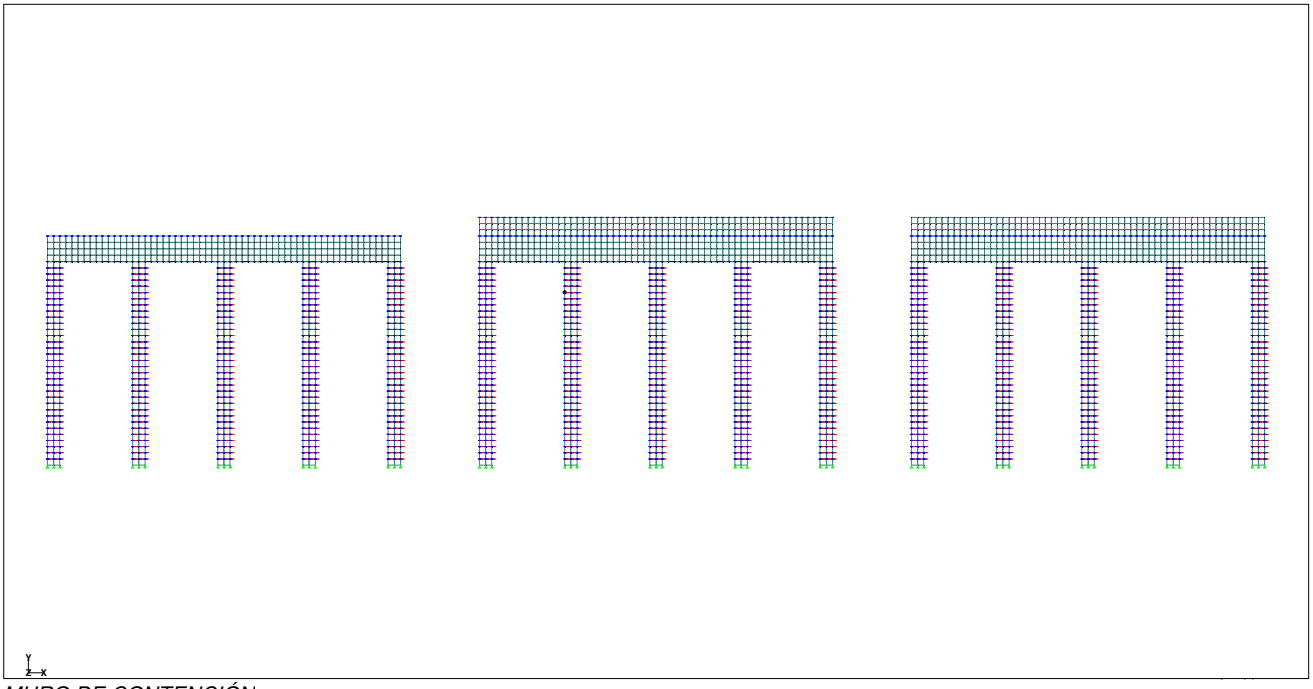
   NUMBER OF JOINTS       2724  NUMBER OF MEMBERS     174
   NUMBER OF PLATES       2034  NUMBER OF SOLIDS        0
   NUMBER OF SURFACES        0  NUMBER OF SUPPORTS   1898


        SOLVER USED IS THE OUT-OF-CORE BASIC SOLVER

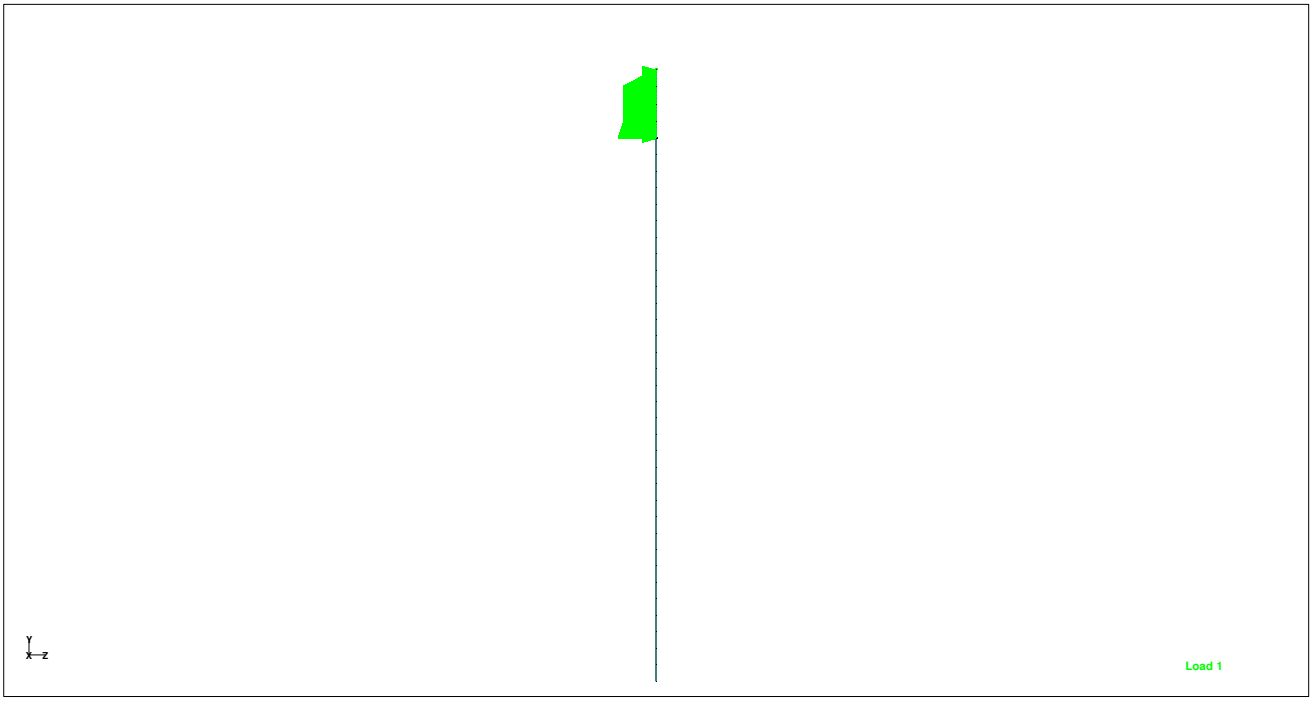
   ORIGINAL/FINAL BAND-WIDTH=   946/    19/    118 DOF
 TOTAL      PRIMARY LOAD CASES =     1, TOTAL DEGREES OF FREEDOM =   15931
 TOTAL LOAD COMBINATION  CASES =     1  SO FAR.
   SIZE OF STIFFNESS MATRIX =     1880 DOUBLE  KILO-WORDS
   REQRD/AVAIL. DISK SPACE  =     43.2/ 456860.3 MB



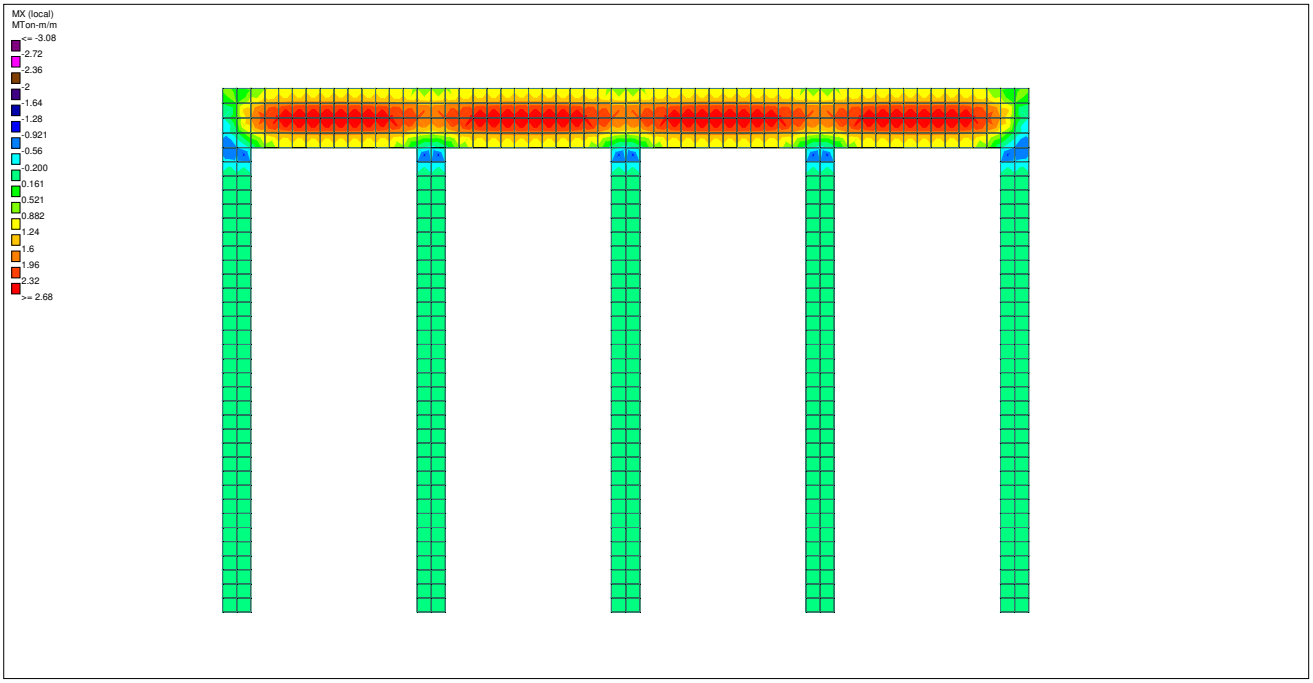
1522. PRINT ALL
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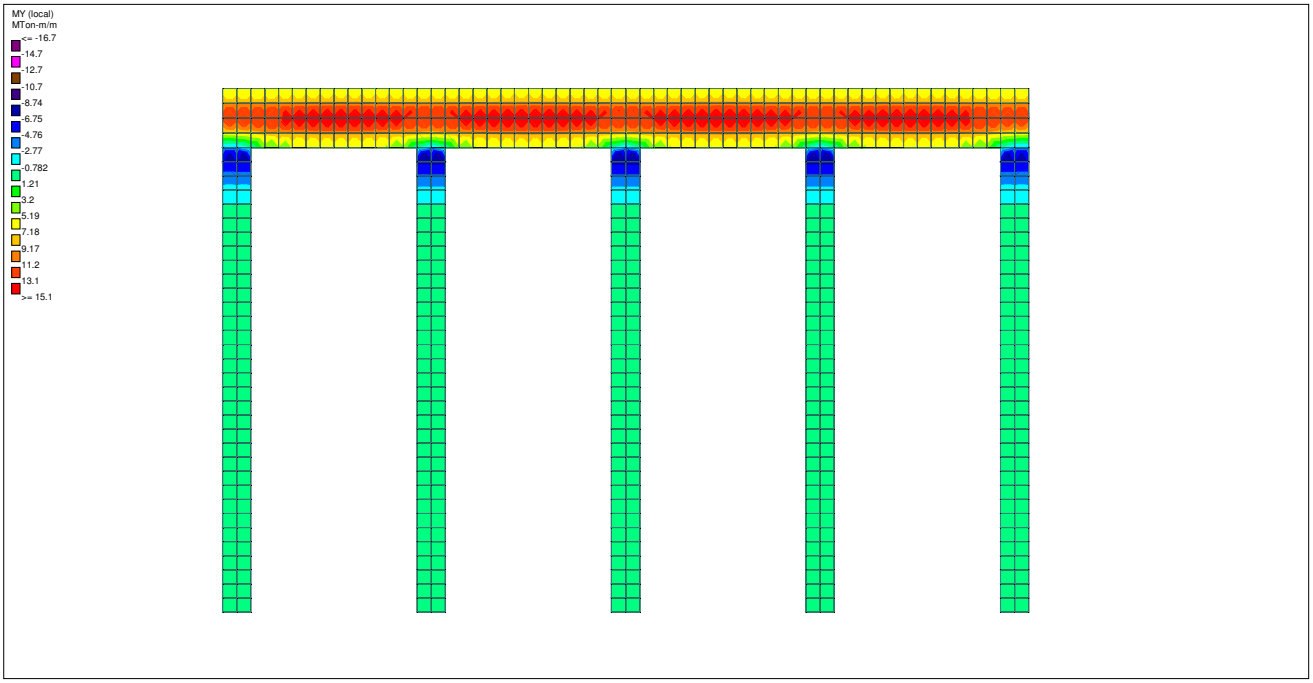
MURO DE CONTENCIÓN



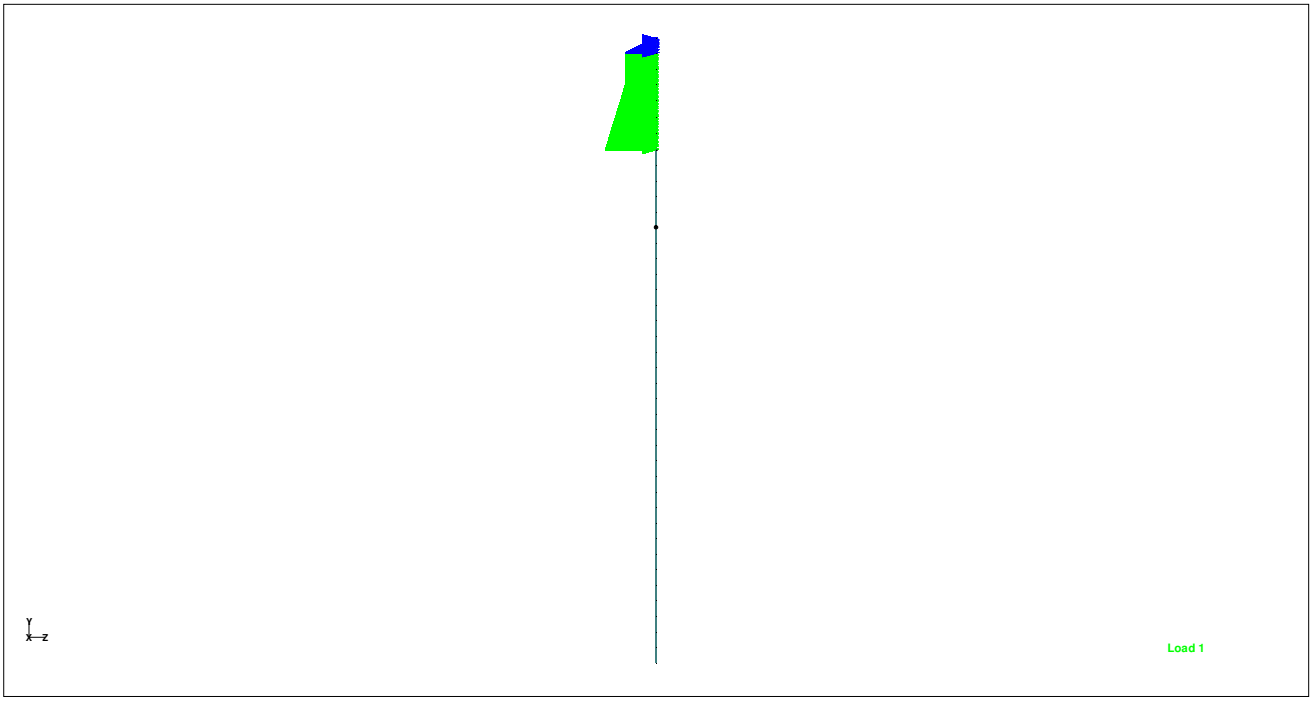
CARGAS - ETAPA 1



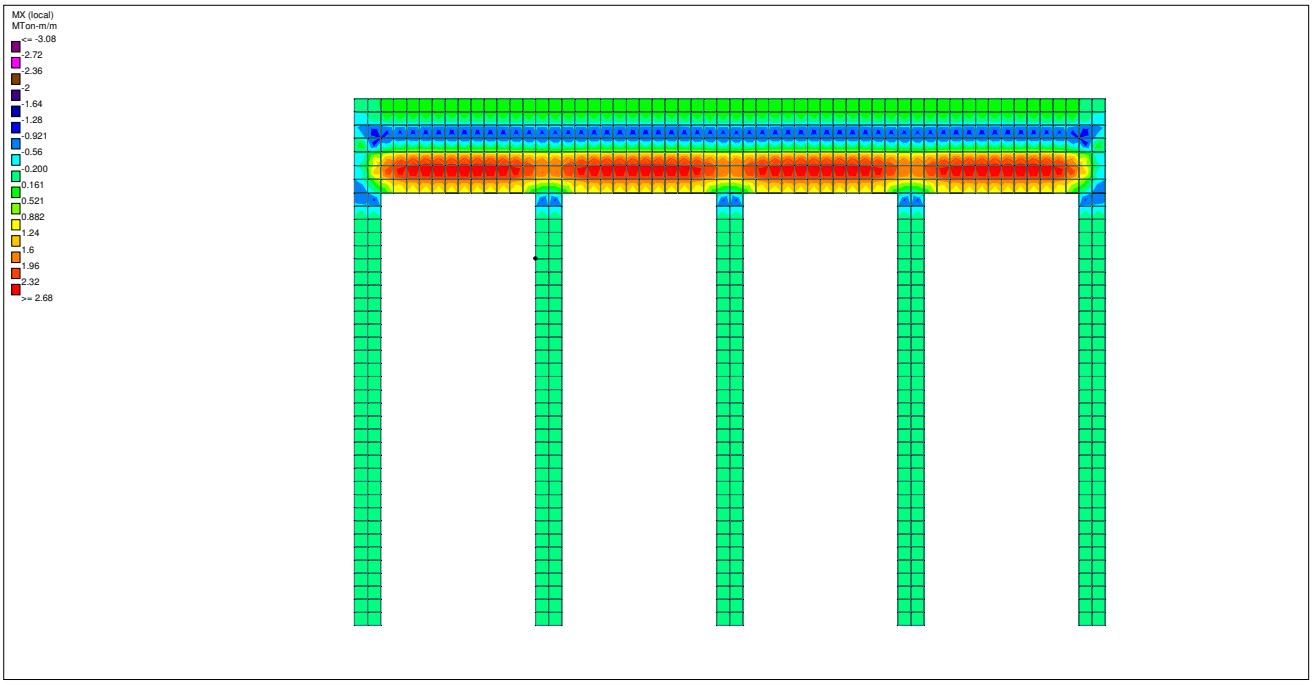
MOMENTO EN X - ETAPA 1



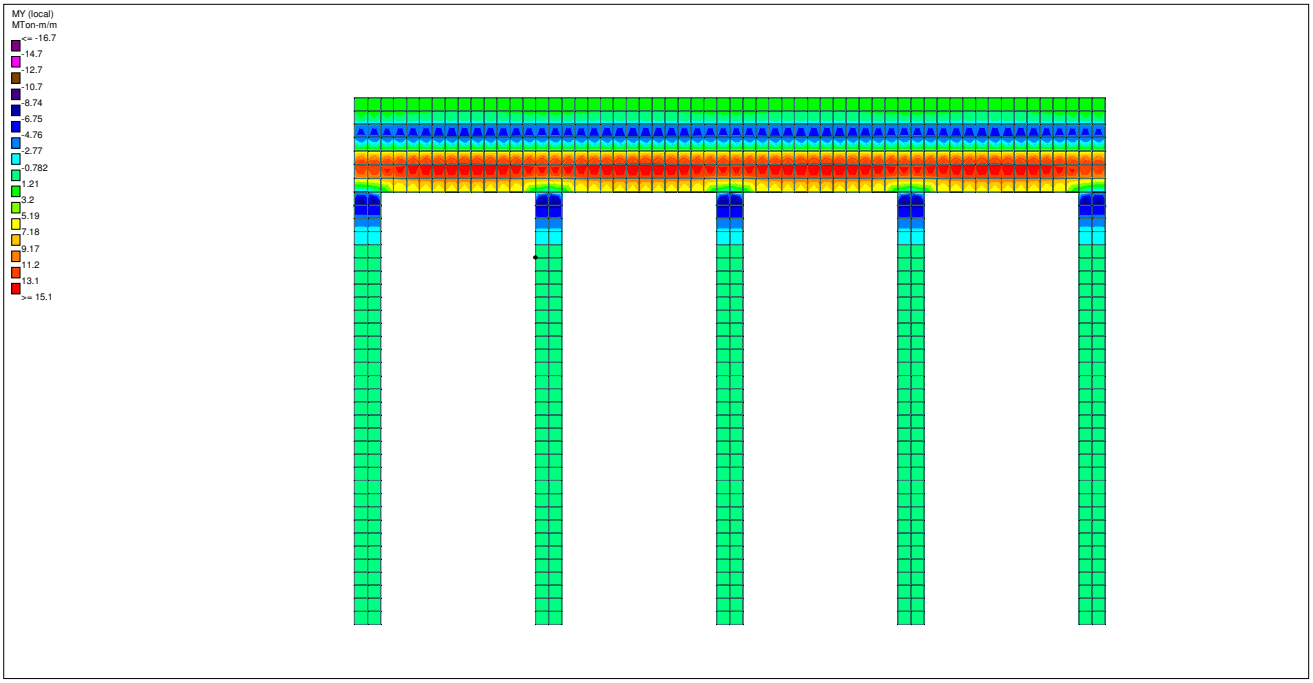
MOMENTO EN Y - ETAPA 1



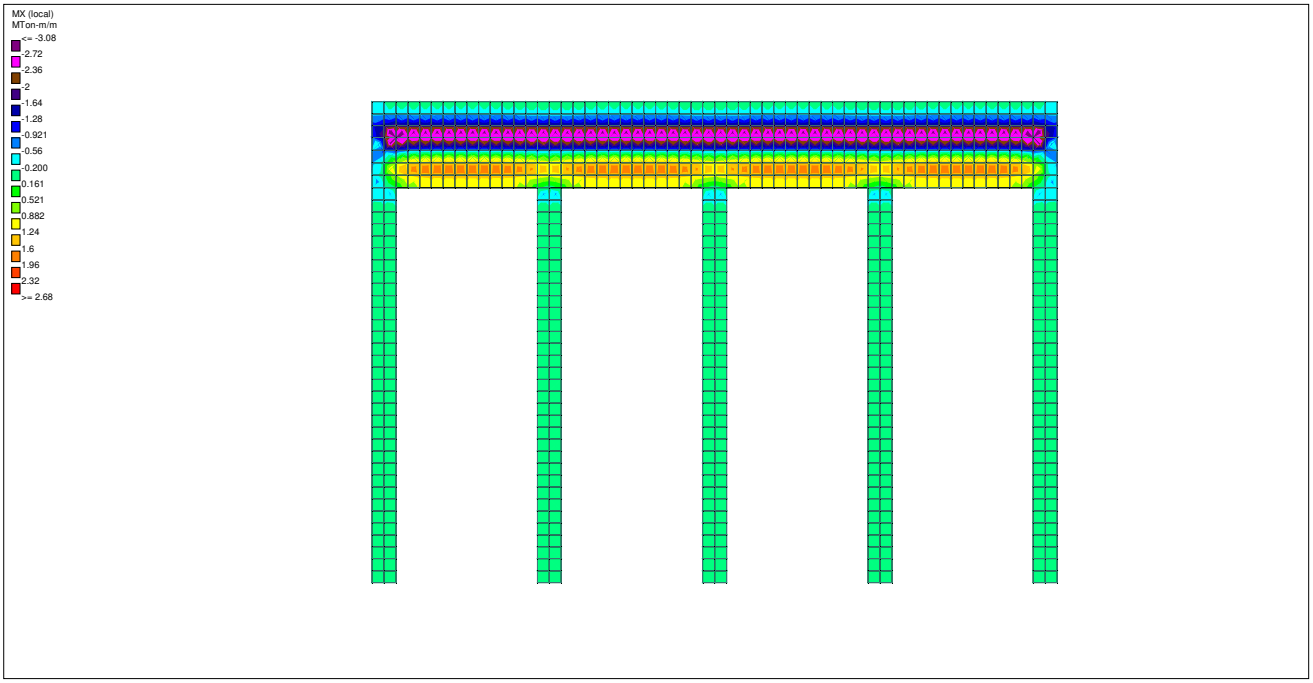
CARGAS - ETAPA 2



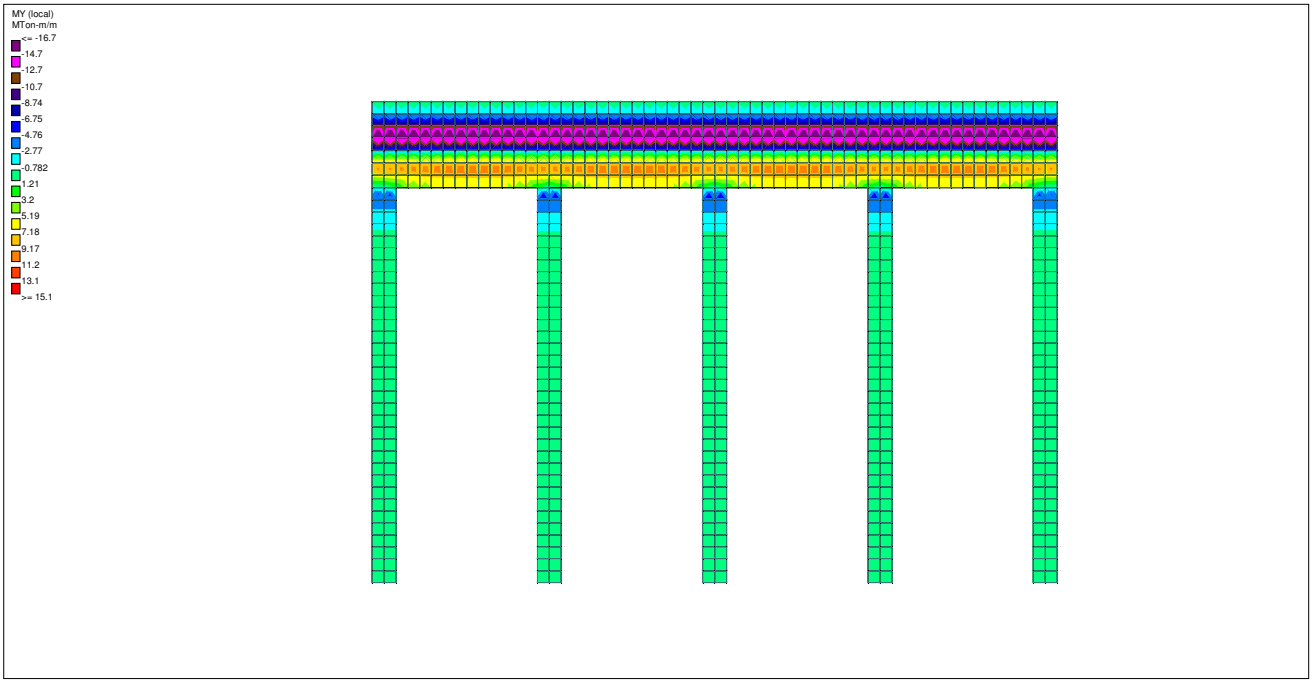
MOMENTO EN X - ETAPA 2 APUNTALADO



MOMENTO EN Y - ETAPA 2 APUNTALADO



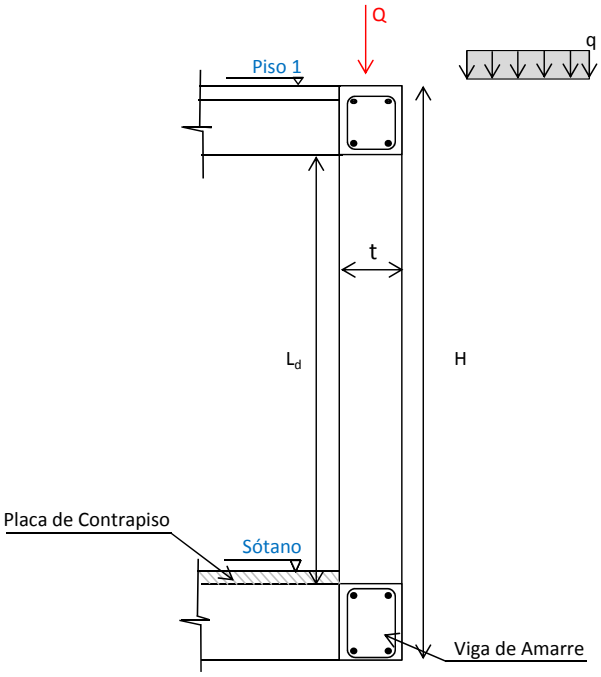
MOMENTO EN X - ETAPA 2 LIBRE



MOMENTO EN Y - ETAPA 2 LIBRE

DISEÑO MURO DE CONTENCIÓN APOYADO SOBRE CIMIENTOS PUNTUALES
DISTRIBUCIÓN TRIANGULAR DE PRESION DE TIERRAS

PROYECTO: UNAL-SGC CALCULO: DCC
TIPO: MC2



Parámetros

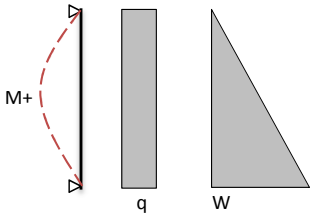
Υ=	1.80	T/m^3
K_a=	1.00	
q=	1.70	T/m^3
FC=	1.60	Factor de Carga

Geometría

H=	4.20	m
L_d=	3.60	m
t=	40	cm
d'=	5	cm
d=	35	cm

$q*K_a$= 1.70 T/m^2

1. ANÁLISIS



W = $\Upsilon*K_a*H$= **7.56 T-m/m**

$$M_{máx} = \frac{q * L_d^2}{8} + \frac{W * L_d^2}{9\sqrt{3}}$$

$M_{máx}$= **14.46 T-m/m**

2. DISEÑO A FLEXIÓN

Diseño por metro de muro:

f´c= 28 MPa
Fy= 420 MPa
b= 100 cm

M_u (t-m/m)	R (kg/cm^2)	k	ρ	A_s (cm^2-m)				
14.46	13.12	0.067	0.0036	12.54	*Colocar #*	5	*cada*	*14 cm*

3. REFUERZO HORIZONTAL

$\rho_{mín}$	A_s (cm^2-m)				
0.002	4.00	*Colocar #*	4	*cada*	*25 cm*

4. CHEQUEO DE CORTANTE

$$V_{máx} = \frac{q * L_d}{2} + \frac{W * L_d}{3}$$

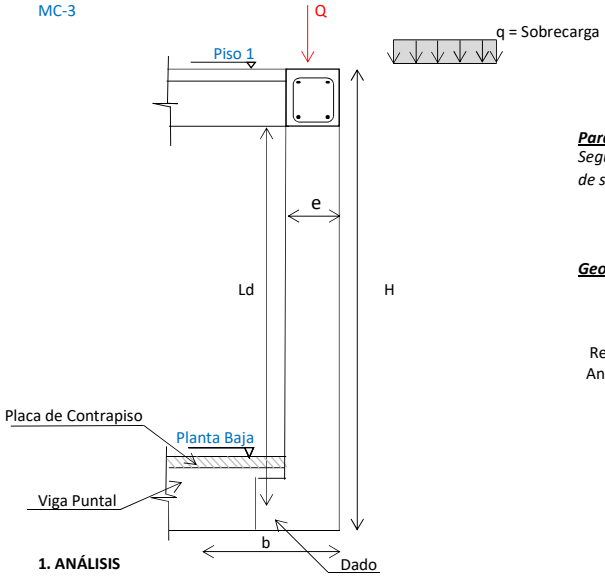
$V_{máx}$= **19.411 T-m**

ϕ= 0.75
λ= 1

$$\phi V_C = \phi * 0.17\lambda * \sqrt{f'_c} * d =$$ 23.61 T-m > V_u **OK**

DISEÑO MURO DE CONTENCIÓN APOYADO SOBRE CIMIENTO CORRIDO
DISTRIBUCIÓN TRIANGULAR DE PRESIÓN DE TIERRAS

PROYECTO: **CENTRO DE EXCELENCIA EN GEOCIENCIAS** CALCULÓ: CNI
TIPO: MC-3



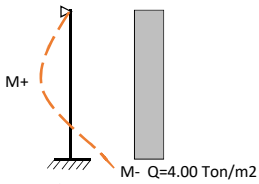
Parámetros
Según diagrama de presion de tierras Estudio de suelos Fig. 52

Q=	4.50	T/m^2
FC=	1.60	Factor de Carga

Geometría

H=	5.00	m
Ld=	3.40	m
e=	30	cm
Recubrimi. d'=	7	cm
Ancho efec. d=	23	cm
h=	25	cm

1. ANÁLISIS



$$M^-_{máx} = \frac{Q * L_d^2}{8}$$

$M^-_{máx}$= **10.40 T-m/m**

$$M^+_{máx} = \frac{9Q * L_d^2}{128}$$

$M^+_{máx}$= **5.85 T-m/m**

2. DISEÑO A FLEXIÓN

Diseño por metro de muro:

f´c= 28 MPa
Fy= 420 MPa
b= 100 cm

Para Momento Positivo

M_u (t-m/m)	R (kg/cm^2)	k	ρ	A_s (cm^2-m)
5.85	12.29	0.067	0.0034	7.71

Colocar # 5 *cada* *25 cm*

Para Momento Negativo

M_u (t-m/m)	R (kg/cm^2)	k	ρ	A_s (cm^2-m)
10.40	18.50	0.0666667	0.005	12.81

Colocar # 6 *cada* *20 cm*

3. REFUERZO HORIZONTAL

$\rho_{mín}$	As (cm^2-m)
0.002	3.00

Colocar # 3 *cada* *20 cm*

4. CHEQUEO DE CORTANTE

$$V_{máx} = \frac{5 * Q * L_d}{8}$$

$V_{máx}$= **4.50** T-m

ϕ= 0.75
λ= 1

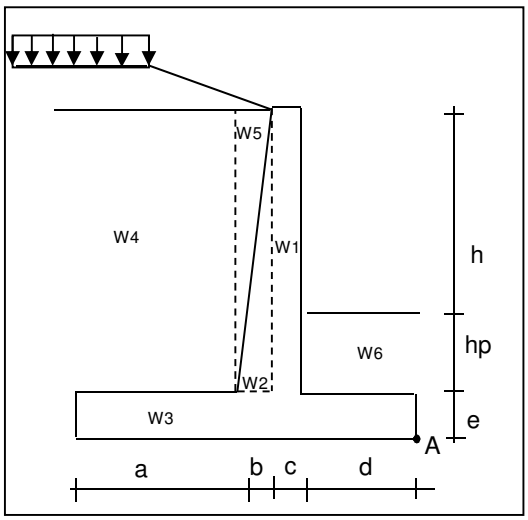
$$\phi V_C = \phi * 0.17\lambda * \sqrt{f'_c} * d =$$ 15.52 T-m > V_u **Ok**

MURO DE CONTENCION MC4 Y MC5 - SGC UNAL

ANALISIS DE CARGAS:

1. PESO PROPIO

				Momento en A	
Elemento	*Peso (kg)*	*X (m)*	*Y (m)*	*Mx (Kg m)*	*My (kg m)*
W1	1440.00	1.95	1.30	2808.00	1872.00
W2	480.00	2.17	0.97	1041.60	465.60
W3	3024.00	2.10	0.15	6350.40	453.60
W4	6840.00	3.25	1.30	22230.00	8892.00
W5	360.00	2.23	1.63	802.80	586.80
W6	2268.00	0.90	0.65	2041.20	1474.20
W Total =	12144.00			33232.80	12270.00



a (m) : 1.90 c (m) : 0.30
b (m) : 0.20 d (m) : 1.80
h (m) : 2.00 e (m) : 0.30
hp (m) : 0.70

H : Altura total del muro
h' : Altura sobrecarga
Z : Centroide del trapecio de presiones
A : Aceleración del terreno, coeficiente sismico
ϕ : Angulo de fricción interna
ψ : Angulo de inercia sismico
Kv : Aceleración vertical (g)
Kh : Aceleración horizontal (g)
γ : Peso unitario
θ : Inclinación de la interface con respecto a la vertical
δ : Angulo de las fuerzas con la normal a la cara del muro
β : Angulo del terreno con la horizontal
μ,f : Coeficiente de fricción
hp: Altura relleno

2. EMPUJE DEL TERRENO:

Peso unitario (kg/m3)	Ka	H (m)	Sobrecarga h' (m)	Empuje (kg/m)	Z (m)	Momento (kg m)
1800.00	0.49	2.70	-------o-------	12150.00	1.35	16402.50

3. FUERZA SISMICA: *Método Mononobe-Okabe*

Coeficiente activo de tierras debido al sismo

$$K_{ae} = \frac{\cos^2(\phi - \psi - \theta)}{\cos\psi \cos^2\theta \cos(\psi + \theta + \delta) Da}$$

$$Da = \left[1 + \sqrt{\frac{sen(\phi+\delta)sen(\phi-\psi-\beta)}{\cos(\beta-\theta)\cos(\psi+\theta+\delta)}}\right]^2$$

a.- Empuje Activo de Tierras debido al sismo (Método Mononobe-Okabe):

A	ϕ	δ	θ	β	Kv	Kh
0.15	20.0	0	0	0	0	0.075

Ψ	Da	Kae	Pae (kg/m)	Ef. dinámico	Ma (kg m)
4.29	1.70	0.55	4487.13	-7662.87	-12413.85

b.- Efectos inerciales sobre el muro:

Peso total (kg)	C. G. (m)	Coeficiente Sísmico	EQ (kg/ml)	Momento (kg m)
4944.00	0.56	0.15	741.60	415.30

DISEÑO DE PLACA MACIZA EN DOS DIRECCIONES

PROYECTO: **CENTRO DE EXCELENCIA EN GEOCIENCIAS-MC6A** CALCULÓ: CNI

ANALISIS DE CARGAS

Carga Muerta =	0.00	T/m^2	1.20 x CM =	0.00 T/m^2
Carga Viva =	4.00	T/m^2	1.60 x CV =	6.40 T/m^2
Carga Total =	**4.00**	**T/m^2**	**Carga Última=**	**6.40 T/m^2**

CARACTERISTICAS DE LA PLACA

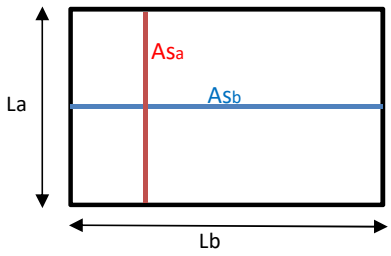
Relación $m = \frac{\ell_{na}}{\ell_{nb}}$	Caso 1	Caso 2	Caso 3	Caso 4	Caso 5	Caso 6	Caso 7	Caso 8	Caso 9
	ℓ_{nb} / ℓ_{na}								

Un borde achurado indica que la losa continúa a traves o está restingida a momento por la rigidez del apoyo. Un borde sin achurar indica que hay apoyo vertical, pero que este da una restricción a momento despreciable.

Placa caso #:	7	Ca_{neg} =	0.0000		
		Cb_{neg} =	0.0296	$A_a(m^2)$=	1.84
L_a (m)=	2.71	$Ca_{pos\ cv}$ =	0.0714	$A_b(m^2)$=	3.85
L_b (m)=	4.20	$Cb_{pos\ cv}$ =	0.0134		
		$Ca_{pos\ cm}$ =	0.0666	d_a(m)=	0.68
m = L_a / L_b =	0.65	$Cb_{pos\ cm}$ =	0.0136	d_b(m)=	0.92
		W_a	0.7040		
		W_b	0.2960		

DISEÑO A FLEXIÓN

Ma_{neg}=	Ca_{neg} x CU x L_a^2=	0.00 T.m	
Mb_{neg}=	Cb_{neg} x CU x L_b^2=	3.34 T.m	
Ma_{pos}=	($Ca_{pos\ cv}$ x 1.6xCV + $Ca_{pos\ cm}$ x 1.2xCM) x L_a^2=	3.36 T.m	
Mb_{pos}=	($Cb_{pos\ cv}$ x 1.6xCV + $Cb_{pos\ cm}$ x 1.2xCM) x L_b^2=	1.51 T.m	
V_a =	W_a x L_a x CU / 2 =	6.11 T/m	
V_b =	W_b x L_b x CU / 2 =	3.98 T/m	
ϕV_c=	ϕ0.17 x $\sqrt{f'_c}$ x d =	15.52 T/m	CUMPLE



espesor e (cm) =	30	f'_c (kg/cm^2)=	280
Ancho efectivo d (cm) =	23	F_y (kg/cm^2)=	4200

Cuantía Ma_{neg} =	0.0000	A_s Ma_{neg} =	0.00 cm^2/mL	Barras N° 0	Cada 0.20 m.
Cuantía Mb_{neg} =	0.0017	A_s Mb_{neg} =	3.90 cm^2/mL	Barras N° 4	Cada 0.25 m.
Cuantía Ma_{pos} =	0.0017	A_s Ma_{pos} =	3.92 cm^2/mL	Barras N° 3	Cada 0.18 m.
Cuantía Mb_{pos} =	0.0008	A_s Mb_{pos} =	1.75 cm^2/mL	Barras N° 3	Cada 0.20 m.

CUANTÍA MÍNIMA

Cuantía mínima = 0.0020

Ref. mín. cada cara = 3.00 cm^2/m Barras N° 3 Cada 0.2 m.

CONSIDERACIONES

Restriccion a momento proviende de la zarpa, el muro tendra restriccion lateral a dezplazamiento por accion del terreno

DISEÑO DE PLACA MACIZA EN DOS DIRECCIONES

PROYECTO: **CENTRO DE EXCELENCIA EN GEOCIENCIAS-MC6B** CALCULÓ: CNI

ANALISIS DE CARGAS

Carga Muerta =	0.00 T/m^2	1.20 x CM =	0.00 T/m^2
Carga Viva =	4.00 T/m^2	1.60 x CV =	6.40 T/m^2
Carga Total =	**4.00 T/m^2**	**Carga Última=**	**6.40 T/m^2**

CARACTERISTICAS DE LA PLACA

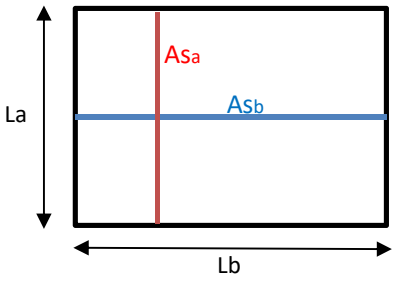
Relación $m = \frac{\ell_{na}}{\ell_{nb}}$	Caso 1	Caso 2	Caso 3	Caso 4	Caso 5	Caso 6	Caso 7	Caso 8	Caso 9
	ℓ_{nb}, ℓ_{na}								

Un borde achurado indica que la losa continúa a traves o está restingida a momento por la rigidez del apoyo. Un borde sin achurar indica que hay apoyo vertical, pero que este da una restricción a momento despreciable.

Placa caso #:	4	Ca_{neg} =	0.0770		
		Cb_{neg} =	0.0230	$A_a(m^2)$=	1.20
L_a (m)=	2.19	$Ca_{pos\ cv}$ =	0.0530	$A_b(m^2)$=	2.04
L_b (m)=	2.96	$Cb_{pos\ cv}$ =	0.0156		
		$Ca_{pos\ cm}$ =	0.0436	d_a(m)=	0.55
$m = L_a / L_b$ =	0.74	$Cb_{pos\ cm}$ =	0.0126	d_b(m)=	0.69
		W_a	0.7700		
		W_b	0.2300		

DISEÑO A FLEXIÓN

Ma_{neg}=	Ca_{neg} x CU x L_a^2=	2.36 T.m	
Mb_{neg}=	Cb_{neg} x CU x L_b^2=	1.29 T.m	
Ma_{pos}=	($Ca_{pos\ cv}$ x 1.6xCV + $Ca_{pos\ cm}$ x 1.2xCM) x L_a^2=	1.63 T.m	
Mb_{pos}=	($Cb_{pos\ cv}$ x 1.6xCV + $Cb_{pos\ cm}$ x 1.2xCM) x L_b^2=	0.87 T.m	
V_a =	W_a x L_a x CU / 2 =	5.40 T/m	
V_b =	W_b x L_b x CU / 2 =	2.18 T/m	
ϕV_c=	$\phi 0.17 \times \sqrt{f'_c} \times d$ =	15.52 T/m	CUMPLE



espesor e (cm) = 30 f'_c (kg/cm^2)= 280

Ancho efectivo d (cm) = 23 F_y (kg/cm^2)= 4200

Cuantía Ma_{neg} =	0.0012	A_s Ma_{neg} =	2.75 cm^2/mL	Barras N° 3	Cada 0.2 m.
Cuantía Mb_{neg} =	0.0006	A_s Mb_{neg} =	1.49 cm^2/mL	Barras N° 2	Cada 0.2 m.
Cuantía Ma_{pos} =	0.0008	A_s Ma_{pos} =	1.88 cm^2/mL	Barras N° 3	Cada 0.2 m.
Cuantía Mb_{pos} =	0.0004	A_s Mb_{pos} =	1.01 cm^2/mL	Barras N° 2	Cada 0.2 m.

CUANTÍA MÍNIMA

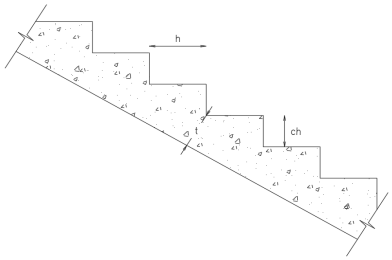
Cuantía mínima = 0.0020

Ref. mín. cada cara = 3.00 cm^2/m Barras N° 3 Cada 0.2 m.

ANÁLISIS Y DISEÑO DE ESCALERASN EN LOSA MACIZA

PROYECTO: **EDIFICION UNAL - SGC** CALCULO: ACC

ESCALERA: ESCALERA E1



h=	0.28 m
ch=	0.18 m
t=	0.20 m

CARGAS

PESO PLACA MACIZA 0.480 Kg/m^2

CARGAS SOBREIMPUESTAS [Kg/m^2]
* ACABADOS 150

C. MUERTA	**0**	**Kg/m^2**	**+**	**150**	**Kg/m^2**
C. VIVA	**500**	**Kg/m^2**			

C. TOTAL =	**650**	**Kg/m^2**
C. ULTIMA = 1.2 CM + 1.6 CV =	**981**	**Kg/m^2**
Factor de Carga, F.C.=	**1.51**	

DISEÑO DE LA ESTRUCTURA

Materiales

f'c 280 kg/cm2
fy 4200 kg/cm2

Losa simplemente apoyada

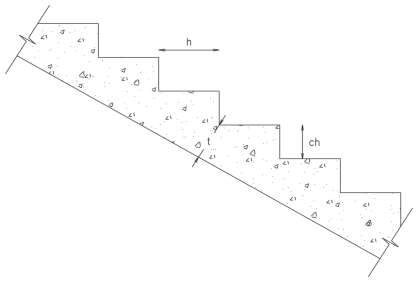
Chequeo a cortante	
L. Vano	1.20 m
Wu	###########
Vu	0.59 Ton/m
ΦVc	11.47 Ton/m
La losa resiste a cortante	

Chequeo a Flexion		
Mu	0.18 Ton-m/m	
rho	0.0018	
As	3.06 m2	
Refuerzo longitudindal	**Barras N° 3**	**Cada 0.20 m**
Refuerzo Transversal	**Barras N° 3**	**Cada 0.20 m**

ANÁLISIS Y DISEÑO DE ESCALERASN EN LOSA MACIZA

PROYECTO: **EDIFICION UNAL - SGC** CALCULO: ACC

ESCALERA: ESCALERA E2



h=	0.31 m
ch=	0.18 m
t=	0.15 m

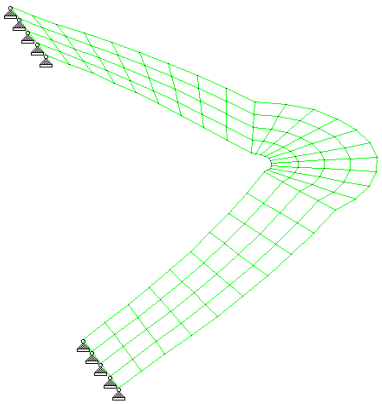
CARGAS

PESO PLACA MACIZA	413	Kg/m^2
PESO PELDAÑOS	183	Kg/m^2
CARGAS SOBREIMPUESTAS		[Kg/m^2]
* ACABADOS		100

C. MUERTA	**596**	**Kg/m^2**	**+**	**100**	**Kg/m^2**
C. VIVA	**500**	**Kg/m^2**			

C. TOTAL =	**1196**	**Kg/m^2**
C. ULTIMA = 1.2 CM + 1.6 CV =	**1636**	**Kg/m^2**
Factor de Carga, F.C.=	**1.37**	

DISEÑO DE LA LOSA



Materiales

f'c 280 kg/cm2
fy 4200 kg/cm2

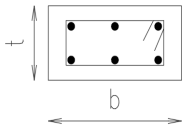
Zona	Ancho Tipico	Vu	Mu	ΦVc
Corredor	1.20 m	6.59 Ton/m	0.95 Ton-m/m	7.42 Ton/m
Descanso	NA	NA	NA	NA
Refuerzo Long. Corredor:		Barras N°4	Cada 0.25 m	
Refuerzo Long. Descanso:		NA	Cada 0.25 m	
Refuerzo transversal:		Barras N°3	Cada 0.25 m	

Observaciones:

ANÁLISIS Y DISEÑO DE ESCALERASN EN LOSA MACIZA

PROYECTO: **EDIFICION UNAL - SGC** CALCULO: ACC

ESCALERA: ESCALERA E13 y E12



t peldaño=	0.18 m
b peldaño=	0.15 m

CARGAS

PESO PLACA MACIZA 0.420 Kg/m^2 *Peldaños prefabricados*

CARGAS SOBREIMPUESTAS [Kg/m^2]

* ACABADOS 100

C. MUERTA	**0**	**Kg/m^2**	**+**	**100**	**Kg/m^2**
C. VIVA	**500**	**Kg/m^2**			

C. TOTAL =	**600**	**Kg/m^2**
C. ULTIMA = 1.2 CM + 1.6 CV =	**921**	**Kg/m^2**
Factor de Carga, F.C.=	**1.53**	

DISEÑO DE LA ESTRUCTURA

Materiales

f'c 280 kg/cm2
fy 4200 kg/cm2

Diseño Peldaño en voladizo

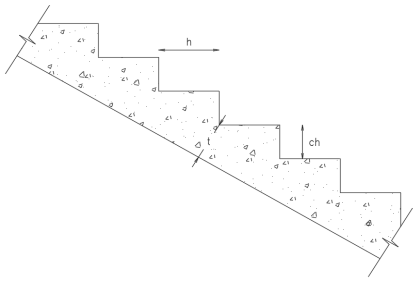
Chequeo a cortante	
L. Vano	1.85 m
Wu	###########
Vu	1.70 Ton/m
ΦVc	1.47 Ton/m
Refuerzo Transversal	
Flejes N°	**3**
Separación	**72.50 mm**

Chequeo a Flexion		
Mu	1.58 Ton-m/m	
rho	0.0020	
As	0.44 cm2	
Refuerzo longitudindal	**Barras N° 2**	**2 Barras**

ANÁLISIS Y DISEÑO DE ESCALERASN EN LOSA MACIZA

PROYECTO: **EDIFICION UNAL - SGC** CALCULO: ACC

ESCALERA: ESCALERA E4



h=	0.31 m
ch=	0.18 m
t=	0.15 m

CARGAS

PESO PLACA MACIZA	413	Kg/m^2
PESO PELDAÑOS	183	Kg/m^2
CARGAS SOBREIMPUESTAS		[Kg/m^2]
* ACABADOS		100

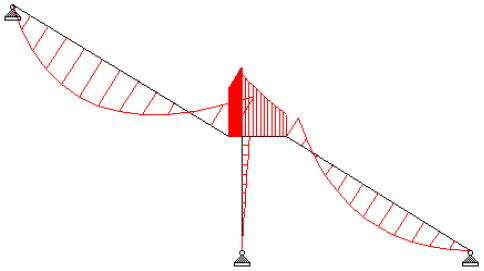
C. MUERTA	**596**	**Kg/m^2**	**+**	**100**	**Kg/m^2**
C. VIVA	**500**	**Kg/m^2**			

C. TOTAL =	**1196**	**Kg/m^2**
C. ULTIMA = 1.2 CM + 1.6 CV =	**1636**	**Kg/m^2**
Factor de Carga, F.C.=	**1.37**	

DISEÑO DE LA LOSA

Materiales

f'c 280 kg/cm2
fy 4200 kg/cm2



Zona	Ancho Tipico	Vu	Mu	ΦVc
Corredor	1.40 m	3.79 Ton/m	2.28 Ton-m/m	7.42 Ton/m
Descanso	1.40 m	5.51 Ton/m	2.98 Ton-m/m	7.42 Ton/m
Refuerzo Long. Corredor:		Barras N°4	Cada 0.25 m	
Refuerzo Long. Descanso:		Barras N°5	Cada 0.25 m	
Refuerzo transversal:		Barras N°3	Cada 0.25 m	

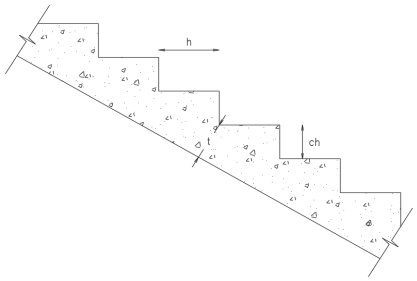
Observaciones:

Apoyar la estructura sobre muros en concreto e=12cm

ANÁLISIS Y DISEÑO DE ESCALERASN EN LOSA MACIZA

PROYECTO: **EDIFICIO SGS-UNAL** CALCULO: ACC

ESCALERA: ESCALERA E-5



h=	0.32 m
ch=	0.18 m
t=	0.12 m

CARGAS

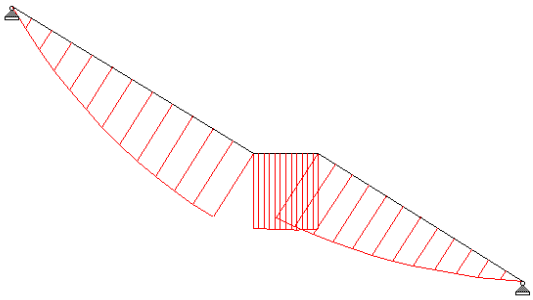
PESO PLACA MACIZA	328	Kg/m^2
PESO PELDAÑOS	184	Kg/m^2

CARGAS SOBREIMPUESTAS	[Kg/m^2]
* ACABADOS	100

C. MUERTA	**513**	**Kg/m^2**	**+**	**100**	**Kg/m^2**
C. VIVA	**500**	**Kg/m^2**			

C. TOTAL =	**1113**	**Kg/m^2**
C. ULTIMA = 1.2 CM + 1.6 CV =	**1535**	**Kg/m^2**
Factor de Carga, F.C.=	**1.38**	

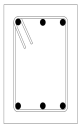
DISEÑO DE GUALDERA



Materiales

f'c 280 kg/cm2
fy 4200 kg/cm2

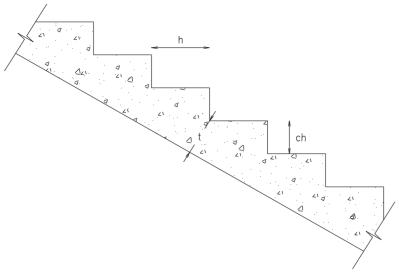
Gualderas:		**Max. refuerzo requerido**
Ancho	0.30 m	
Alto	0.50 m	Arriba: 4 N°4
Mu+ (ton-m)	0.00 Ton-m	Flejes: N°3 @ 22 cm
Mu- (ton-m)	11.00 Ton-m	Abajo: 4 N°5
Vu (Ton)	5.57 Ton	



ANÁLISIS Y DISEÑO DE ESCALERASN EN LOSA MACIZA

PROYECTO: **EDIFICIO UNAL-SGC** CALCULO: ACC

ESCALERA: ESCALERAS E6 Y E7



h=	0.31 m
ch=	0.18 m
t=	0.15 m

CARGAS

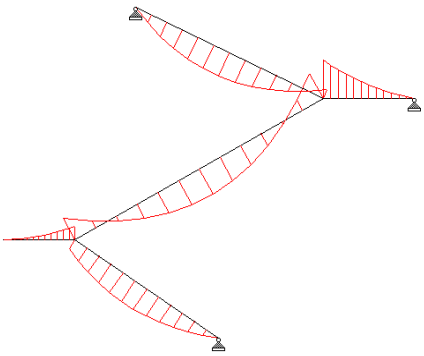
PESO PLACA MACIZA	413	Kg/m^2
PESO PELDAÑOS	183	Kg/m^2
CARGAS SOBREIMPUESTAS		[Kg/m^2]
* ACABADOS		100

C. MUERTA	**596**	**Kg/m^2**	**+**	**100**	**Kg/m^2**
C. VIVA	**500**	**Kg/m^2**			

C. TOTAL =	**1196**	**Kg/m^2**
C. ULTIMA = 1.2 CM + 1.6 CV =	**1636**	**Kg/m^2**
Factor de Carga, F.C.=	**1.37**	

DISEÑO DE LA LOSA

Segun Modelo Analitico



Tramo P1 a P2

Materiales

f'c 280 kg/cm2
fy 4200 kg/cm2

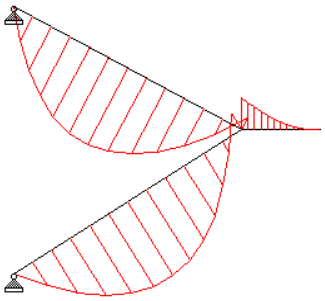
Zona	Vu	Mu	ΦVc
Corredor	3.56 Ton/m	2.27 Ton-m/m	7.42 Ton/m
Descanso	2.97 Ton/m	3.02 Ton-m/m	7.42 Ton/m

Refuerzo Long. Corredor:	Barras N°4	Cada 0.22 m
Refuerzo Long. Descanso:	Barras N°5	Cada 0.22 m
Refuerzo transversal:	Barras N°3	Cada 0.25 m

Momento torsor en Descanso	**Refuerzo**	**Flejes N° 3**	**@ 9.00 cm**
1.51 Ton-m	**requerido**	**4**	**Barras N°5**

Est. N°3 - 40x9cm

Observaciones:
Incorporar tensor en concreto en segundo descanso



Materiales

f'c 280 kg/cm2

fy 4200 kg/cm2

Zona	Vu	Mu	ΦVc
Corredor	3.05 Ton/m	2.78 Ton-m/m	7.42 Ton/m
Descanso	1.68 Ton/m	1.04 Ton-m/m	7.42 Ton/m

Refuerzo Long. Corredor:	Barras N°5	Cada 0.25 m
Refuerzo Long. Descanso:	Barras N°4	Cada 0.25 m
Refuerzo transversal:	Barras N°3	Cada 0.25 m

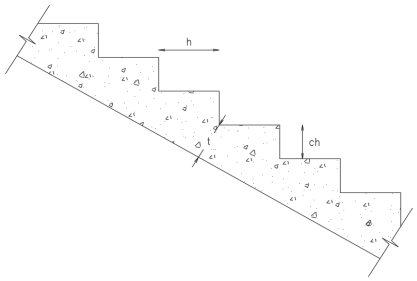
Momento torsor en Descanso	**Refuerzo**	**Flejes N° 3**	**@ 26.00 cm**
0.52 Ton-m	**requerido**	**4**	**Barras N°3**

Est. N°3 - 40x9cm

ANÁLISIS Y DISEÑO DE ESCALERASN EN LOSA MACIZA

PROYECTO: **EDIFICIO SGS-UNAL** CALCULO: ACC

ESCALERA: ESCALERA E-8



h=	0.35 m
ch=	0.18 m
t=	0.12 m

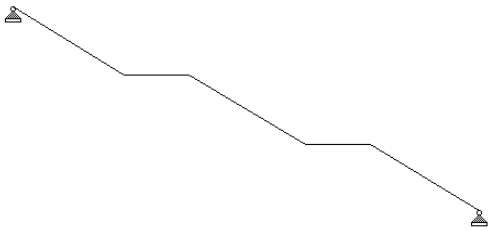
CARGAS

PESO PLACA MACIZA	322	Kg/m^2
PESO PELDAÑOS	188	Kg/m^2
CARGAS SOBREIMPUESTAS		[Kg/m^2]
* ACABADOS		0

C. MUERTA	**510**	**Kg/m^2**	**+**	**0**	**Kg/m^2**
C. VIVA	**500**	**Kg/m^2**			

C. TOTAL =	**1010**	**Kg/m^2**
C. ULTIMA = 1.2 CM + 1.6 CV =	**1412**	**Kg/m^2**
Factor de Carga, F.C.=	**1.40**	

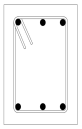
DISEÑO DE GUALDERA



Materiales

f'c 280 kg/cm2
fy 4200 kg/cm2

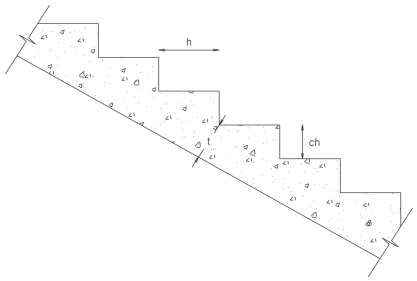
Gualderas:		**Max. refuerzo requerido**
Ancho	0.50 m	
Alto	1.00 m	Arriba: 8 N°6
Mu+ (ton-m)	0.00 Ton-m	Flejes: N°3 @ 30 cm
Mu- (ton-m)	##########	Abajo: 8 N°8
Vu (Ton)	30.38 Ton	



ANÁLISIS Y DISEÑO DE ESCALERASN EN LOSA MACIZA

PROYECTO: **EDIFICIO SGS-UNAL** CALCULO: ACC

ESCALERA: ESCALERA E-9



h=	0.32 m
ch=	0.18 m
t=	0.12 m

CARGAS

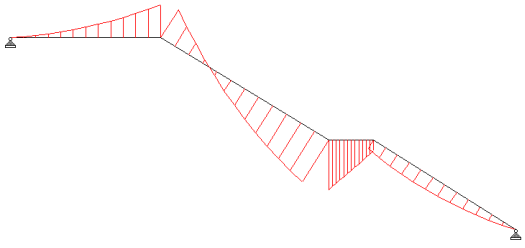
PESO PLACA MACIZA	328	Kg/m^2
PESO PELDAÑOS	184	Kg/m^2

CARGAS SOBREIMPUESTAS	[Kg/m^2]
* ACABADOS	100

C. MUERTA	**513**	**Kg/m^2**	**+**	**100**	**Kg/m^2**
C. VIVA	**500**	**Kg/m^2**			

C. TOTAL =	**1113**	**Kg/m^2**
C. ULTIMA = 1.2 CM + 1.6 CV =	**1535**	**Kg/m^2**
Factor de Carga, F.C.=	**1.38**	

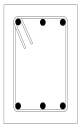
DISEÑO DE GUALDERA



Materiales

f'c 280 kg/cm2
fy 4200 kg/cm2

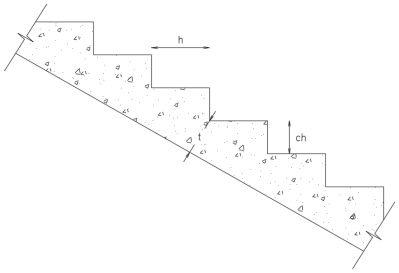
Gualderas:		**Max. refuerzo requerido**
Ancho	0.30 m	
Alto	0.50 m	Arriba: 4 N°4
Mu+ (ton-m)	7.43 Ton-m	Flejes: N°3 @ 22 cm
Mu- (ton-m)	11.20 Ton-m	Abajo: 4 N°5
Vu (Ton)	10.30 Ton	



ANÁLISIS Y DISEÑO DE ESCALERASN EN LOSA MACIZA

PROYECTO: **EDIFICION UNAL - SGC** CALCULO: ACC

ESCALERA: ESCALERA E10 y E11



h=	0.30 m
ch=	0.18 m
t=	0.15 m

CARGAS

PESO PLACA MACIZA 0 Kg/m^2 *Peldaños prefabricados*

CARGAS SOBREIMPUESTAS [Kg/m^2]

* ACABADOS 0.0128

C. MUERTA	**0**	**Kg/m^2**	**+**	**0**	**Kg/m^2**
C. VIVA	**500**	**Kg/m^2**			

C. TOTAL = 500 Kg/m^2

C. ULTIMA = 1.2 CM + 1.6 CV = 800 Kg/m^2

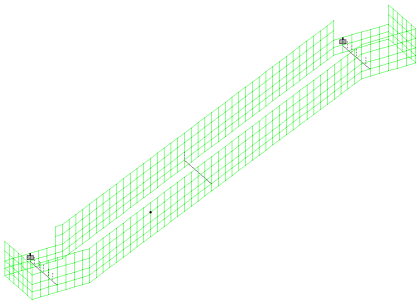
Factor de Carga, F.C.= 1.60

DISEÑO DE LA ESTRUCTURA

Materiales

f'c 280 kg/cm2

fy 4200 kg/cm2



Hmuro 1.20 m Espesor 0.15 m

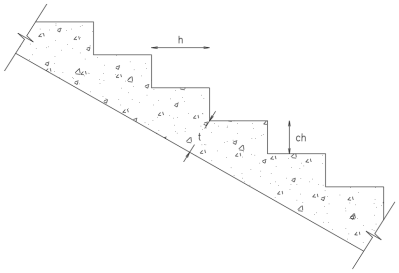
Chequeo de esfuerzos	Esfuerzo	**Refuerzo minimo Requerido** Area considerada	As requerido	
σcompresio	430.00 Ton/m2	0.04 m2	3.84 cm2	
σtension	540.00 Ton/m2	0.04 m2	4.82 cm2	
τcortante	99.50 Ton/m2	0.04 m2	2 ramas N° 3	@ 25.00 cm

Observaciones:

ANÁLISIS Y DISEÑO DE ESCALERASN EN LOSA MACIZA

PROYECTO: **EDIFICION UNAL - SGC** CALCULO: ACC

ESCALERA: ESCALERA E13 y E15



h=	0.30 m
ch=	0.18 m
t=	0.15 m

CARGAS

PESO PLACA MACIZA 0 Kg/m^2 *Peldaños prefabricados*

CARGAS SOBREIMPUESTAS [Kg/m^2]

* ACABADOS 0.0128

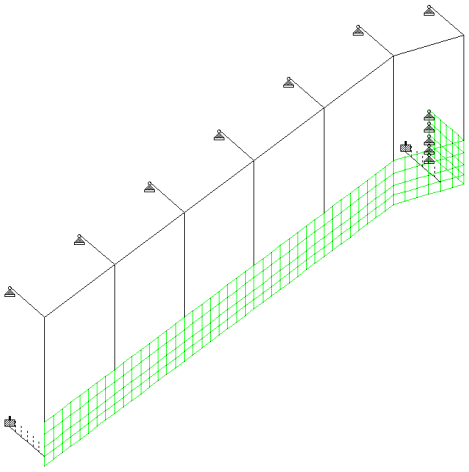
C. MUERTA	**0**	**Kg/m^2**	**+**	**0**	**Kg/m^2**
C. VIVA	**500**	**Kg/m^2**			

C. TOTAL = 500 Kg/m^2

C. ULTIMA = 1.2 CM + 1.6 CV = 800 Kg/m^2

Factor de Carga, F.C.= 1.60

DISEÑO DE LA ESTRUCTURA



Tramo tipo

Materiales

f'c 280 kg/cm2

fy 4200 kg/cm2

Hmuro 1.20 m Espesor 0.15 m

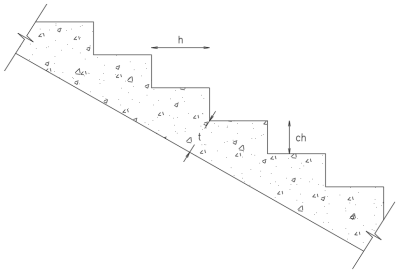
Chequeo de esfuerzos	Esfuerzo	**Refuerzo minimo Requerido** Area considerada	As requerido	
σcompresio	491.00 Ton/m2	0.04 m2	4.38 cm2	
σtension	421.00 Ton/m2	0.04 m2	3.76 cm2	
τcortante	50.10 Ton/m2	0.05 m2	2 ramas N° 3	@ 25.00 cm

Observaciones:

ANÁLISIS Y DISEÑO DE ESCALERASN EN LOSA MACIZA

PROYECTO: **EDIFICION UNAL - SGC** CALCULO: ACC

ESCALERA: ESCALERA E14



h=	0.30 m
ch=	0.18 m
t=	0.15 m

CARGAS

PESO PLACA MACIZA 0 Kg/m^2 *Peldaños prefabricados*

CARGAS SOBREIMPUESTAS [Kg/m^2]

* ACABADOS 0.0128

C. MUERTA	**0**	**Kg/m^2**	**+**	**0**	**Kg/m^2**
C. VIVA	**500**	**Kg/m^2**			

C. TOTAL = 500 Kg/m^2

C. ULTIMA = 1.2 CM + 1.6 CV = 800 Kg/m^2

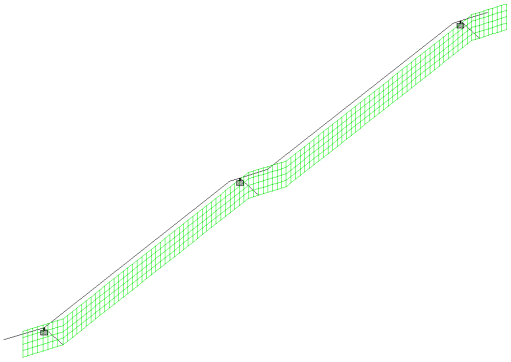
Factor de Carga, F.C.= 1.60

DISEÑO DE LA ESTRUCTURA

Materiales

f'c 280 kg/cm2

fy 4200 kg/cm2

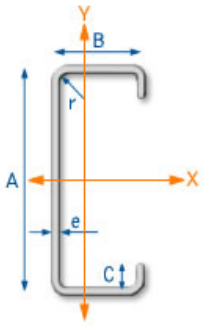


Hmuro 1.20 m Espesor 0.15 m

Chequeo de esfuerzos	Esfuerzo	**Refuerzo minimo Requerido** Area considerada	As requerido	
σcompresio	182.00 Ton/m2	0.04 m2	1.63 cm2	
σtension	146.00 Ton/m2	0.04 m2	1.30 cm2	
τcortante	20.40 Ton/m2	0.04 m2	2 ramas N° 3	@ 25.00 cm

Observaciones:

Tipo de sección: Perlín C



Materiales	
Módulo de elasticidad del acero E (kg/cm²) :	2040000
Esfuerzo de fluencia del Perlín Fy (kg/cm²) :	2800
Esfuerzo último del perlín Fu (kg/cm²) :	3650

Número de luces: 1 Luz

1.6 m



Separación correas S(m): 1

Pendiente de la cubierta M (%): 47

Tensores a: Sin tensores

Cargas Sobreimpuestas

Tipo de teja: Arquitectónica (4.32Kg/m²)

Elementos varios: Lámparas (4Kg/m²)

Impermeabilización (16Kg/m²)

Carga viva (kg/m²): 50

Granizo (kg/m²): 50

Otro adicional a los anteriores (kg/m²): 14

Viento en succión (kg/m²): -40

Viento en presión (kg/m²): 40

Notas:
- Viento en succión con signo negativo (-).
-La carga de granizo que aparece por defecto es sugerida por el programa de acuerdo a la pendiente de la cubierta. Recuerde que las regiones ubicadas a menos de 2000m sobre el nivel del mar no se debe tener en cuenta la carga de granizo.

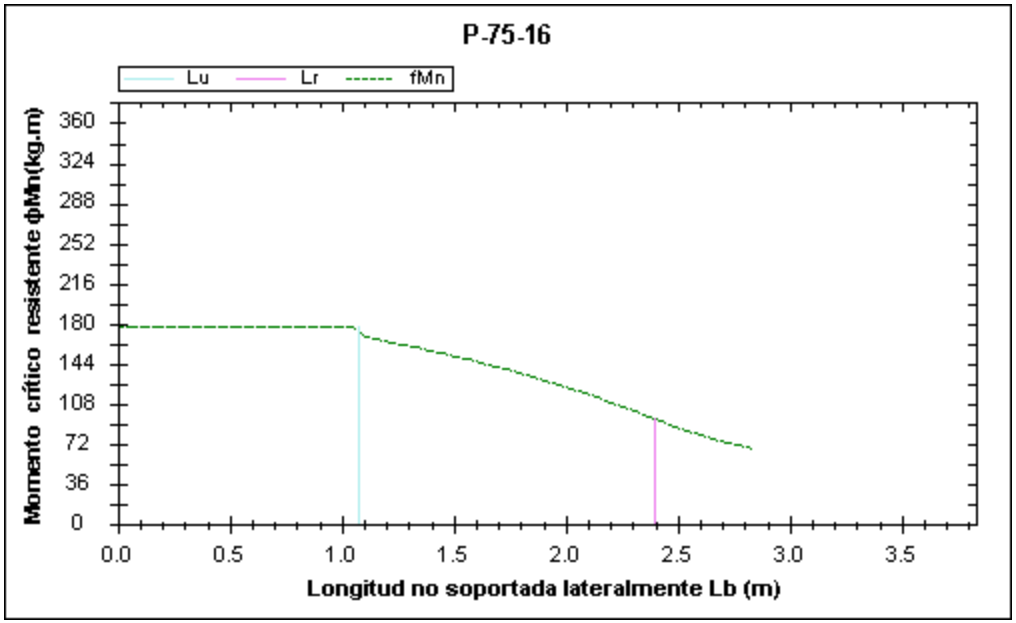
NOTA: Estas memorias de cálculo deben ser revisadas y aprobadas por un Ingeniero Calculista.

Selección: P-75-16

Designación	Peso negro Kg/m	Momento último Mu (kg-m)	Cortante último Vu (kg)	(Mux/ϕMnx)+(Muy/ϕMny)	(Mux/ϕMnx)²+(Vux/ϕVnx)²
P-75-18	1.64	46.32	115.81	0.65	N/A
P-100-18	2.02	46.46	116.14	0.44	N/A
P-75-16	2.05	46.47	116.16	0.53	N/A
P-125-18	2.26	46.54	116.35	0.38	N/A
P-150-18	2.5	46.62	116.56	0.34	N/A
P-100-16	2.52	46.63	116.57	0.34	N/A
P-75-14	2.73	46.7	116.76	0.34	N/A
P-6-18	2.78	46.72	116.8	0.26	N/A
P-125-16	2.83	46.74	116.84	0.3	N/A
P3-6-18	3.05	46.81	117.03	0.22	N/A
P-150-16	3.12	46.84	117.09	0.27	N/A
P-8-18	3.25	46.88	117.21	0.23	N/A
P-100-14	3.36	46.92	117.3	0.22	N/A
P-75-12	3.41	46.94	117.35	0.29	N/A
P-6-16	3.47	46.96	117.4	0.21	N/A
P-9-18	3.49	46.97	117.42	0.22	N/A
P3-8-18	3.53	46.98	117.45	0.19	N/A
P-10-18	3.73	47.05	117.62	0.22	N/A
P3-9-18	3.77	47.06	117.66	0.18	N/A
P-125-14	3.77	47.06	117.66	0.19	N/A
P3-6-16	3.81	47.08	117.69	0.17	N/A
P3-10-18	4.01	47.15	117.87	0.18	N/A
P-8-16	4.07	47.17	117.92	0.18	N/A
P-150-14	4.16	47.2	118	0.17	N/A
P-100-12	4.2	47.21	118.03	0.18	N/A
P-9-16	4.37	47.27	118.18	0.17	N/A
P3-8-16	4.41	47.29	118.21	0.15	N/A
P-6-14	4.63	47.36	118.41	0.13	N/A
P-10-16	4.67	47.38	118.44	0.17	N/A
P3-9-16	4.71	47.39	118.48	0.14	N/A
P-125-12	4.71	47.39	118.48	0.16	N/A
P3-10-16	5.01	47.49	118.74	0.14	N/A
P-100-11	5.04	47.5	118.76	0.16	N/A
P3-6-14	5.08	47.52	118.8	0.11	N/A
P-150-12	5.2	47.56	118.9	0.14	N/A
P-12-16	5.26	47.58	118.95	0.16	N/A
P-8-14	5.42	47.64	119.09	0.11	N/A
P3-12-16	5.61	47.7	119.26	0.13	N/A
P-125-11	5.65	47.72	119.29	0.14	N/A
P-6-12	5.78	47.76	119.41	0.11	N/A
P-9-14	5.82	47.78	119.44	0.11	N/A
P-14-16	5.86	47.79	119.47	0.15	N/A

NOTA: Estas memorias de cálculo deben ser revisadas y aprobadas por un Ingeniero Calculista.

Propiedades Físicas y Geométricas	
A (cm):	7.5
B (cm):	4.5
C (cm):	1.5
CALIBRE:	16
ESPESOR, e (cm):	0.15
PESO NEGRO (kg/m):	2.05
PESO GALV (kg/m):	2.07
AREA BRUTA (cm²):	2.74
AREA EFECTIVA (cm²):	2.61
Ix (cm4):	25.08
Iex (cm4):	25.08
Sx (cm³):	6.69
Sxe (cm³):	6.69
Iy (cm4):	8.03
Iey (cm4):	8.03
Sy (cm³):	2.88
Sye (cm³):	2.88
rx (cm):	3.03
ry (cm):	1.71
Xcg (cm):	-3.99
Ycg (cm):	0
J (cm4):	0.02
Cw (cm6):	114.33



Cargas Gravitacionales	
Carga muerta - D (kg/m²):	40.37
Carga viva de cubierta - Lr (kg/m²):	50
Carga de granizo - G (kg/m²):	50
Viento en presión (kg/m²):	40
Viento en succión (kg/m²):	-40

NOTA: Estas memorias de cálculo deben ser revisadas y aprobadas por un Ingeniero Calculista.

Combinaciones Hipótesis de Cargas	Carga Última En Dirección Horizontal Wh(Kg/m)			Carga Última En Dirección Vertical Wv(Kg/m)				
	Wucm = γcd	W G = γ (g)	Wu	Wcm = γcd	W G = γ (g)	WCWp = γCW	WCWs = γCW	Wu
1.4CM+0CV+0W	24.04	0	24.04	51.15	0	0	0	51.15
1.2CM+1.6CV+0W	20.61	34.03	54.64	43.84	72.4	0	0	116.24
1.2CM+1.6CV+0.8W	20.61	34.03	54.64	43.84	72.4	32	-32	148.24
1.2CM+0.5CV+1.6W	20.61	10.63	31.24	43.84	22.63	64	-64	130.47
1.2CM+1CV+0W	20.61	21.27	41.87	43.84	45.25	0	0	89.09
0.9CM+0CV+1.6W	15.45	0	15.45	32.88	0	64	-64	96.88
0.9CM+0CV+0W	15.45	0	15.45	32.88	0	0	0	32.88

Combinaciones Hipótesis de Cargas	Momento Último Mu(kg·m)		Cortante Último Vu(kg)	
	Muy	Mux	Vuy	Vux
1.4CM+0CV+0W	7.69	16.37	9.62	40.92
1.2CM+1.6CV+0W	17.48	37.2	21.85	93
1.2CM+1.6CV+0.8W	17.48	46.47	21.85	116.16
1.2CM+0.5CV+1.6W	10	39.8	12.5	99.51
1.2CM+1CV+0W	13.4	28.51	16.75	71.28
0.9CM+0CV+1.6W	4.95	29.06	6.18	72.64
0.9CM+0CV+0W	4.95	10.52	6.18	26.31

Mux = 46 kg.m

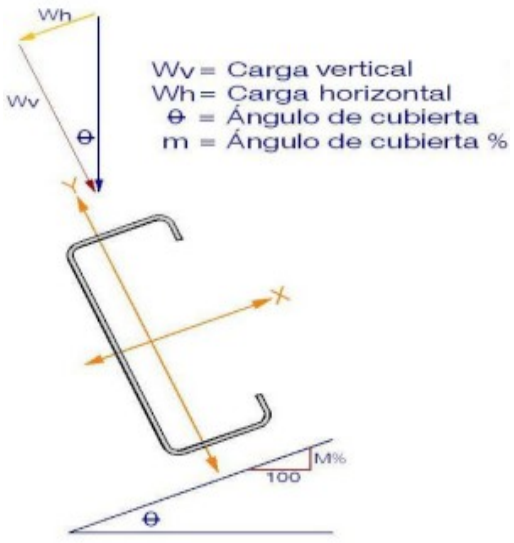
Muy = 17 kg.m

Vux = 116 kg

NOTA: Estas memorias de cálculo deben ser revisadas y aprobadas por un Ingeniero Calculista.

Capacidades de la sección	
Mnx (kg-m):	187
Mny (kg-m):	81
Mnrx (kg-m):	95
Vnx (kg):	1671
Condición de soporte lateral:	1
Lb (m) (Longitud no arriostrada):	1.6
Lu (m):	1.08
Lr (m):	2.4
Cb:	1
Fe (kg/cm²):	4430.06
Fc (kg/cm²):	2562.29
ϕMnx (kg-m):	154.2
ϕMny (kg-m):	76.95

Análisis De Deflexiones		
Inercia de la sección Ixe (cm4):	25	
Δy(cm) CV:	0.083	
Δadm(cm) CV: L/240=	0.667	OK
Δy(cm) CM+(CV ó G):	0.151	
Δadm(cm) CM+(Cv ó G): L/180=	0.889	OK
Δy(cm) CV en voladizo:	0	
Δadm(cm) CV en voladizo: L/180=	0	NA
Δy(cm) CM+(CV ó G) en voladizo:	0	
Δadm(cm) CM+(Cv ó G) en voladizo: L/120=	0	NA



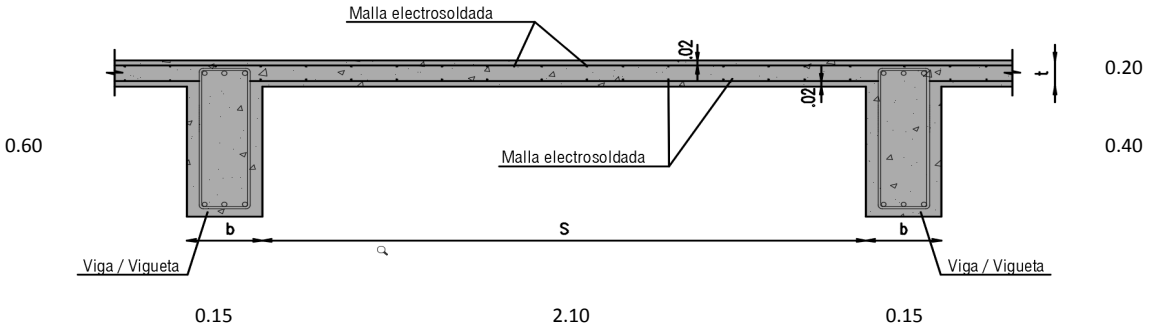
Wv = Carga vertical
Wh = Carga horizontal
θ = Ángulo de cubierta
m = Ángulo de cubierta %

NOTA: Estas memorias de cálculo deben ser revisadas y aprobadas por un Ingeniero Calculista.

ANÁLISIS DE CARGA PLACA MACIZA CON VIGAS DESCOLGADAS EN UNA DIRECCIÓN SIN TORTA INFERIOR

PROYECTO: **EDIFICIO UNAL-SGC** CALCULÓ: DCC

PISO: RAMPA



CARGAS	[Kg/m^2]	[Kg/m^2]
* PLACA	480	
* VIGUETAS	64	
* CIELO RASO		0
* ACABADOS		110
* MUROS DIVISORIOS		0

C. MUERTA **544** **Kg/m^2** **+** **110** **Kg/m^2**

C. VIVA **250** **Kg/m^2**

C. TOTAL = **904** **Kg/m^2**

C. ULTIMA = 1.2 CM + 1.6 CV = **1185** **Kg/m^2**

Factor de Carga, F.C.= **1.31**

Nota: El peso propio de vigas lo calcula automaticamente el programa

CARGA A VIGUETAS:

q_u / Vigueta = 1185 x 2.25 = **2665.8** **Kg/m**

DISEÑO DE LA LOSA

C. MUERTA =	590.0	Kg/m^2	Materiales	(kg/cm^2)	
C. VIVA =	250.0	Kg/m^2	f'c =	210	b (cm) = 100
C. ULTIMA =	1108.0	Kg/m^2	fy =	4200	d (cm) = 17

Diseño a Flexión

	M_u (kg-m/m)	R (kg/cm^2)	k	ρ	A_s (cm^2/m)
M-	488.63	0.019	0.05	0.0005	3.60
M+	349.02	0.013	0.05	0.0004	3.60

Chequeo Cortante

V_u (kg/m)	ϕV_c (kg/m)	Check
1163.40	9792.55	Ok

MEMORIA DE DISEÑO VIGAS RAMPA

VR8/RAMPA

B=0.30 H=0.60 L=4.88		
Mu=-0.00 As =5.97 As(r)=5.45		Mu=-0.00 As =5.97 As(r)=5.45
Mu=1.10 As =5.97 As(r)=5.45	Mu=10.03 As =5.97 As(r)=5.45	Mu=1.10 As =5.97 As(r)=5.45
Vu=7.32		Vu=-7.32

VR7/RAMPA

B=0.30 H=0.60 L=5.15		
Mu=-0.00 As =5.97 As(r)=5.45		Mu=-0.00 As =5.97 As(r)=5.45
Mu=1.16 As =5.97 As(r)=5.45	Mu=11.10 As =5.97 As(r)=5.45	Mu=1.16 As =5.97 As(r)=5.45
Vu=7.73		Vu=-7.72

VR6/RAMPA

B=0.30 H=0.60 L=6.41		
Mu=-0.00 As =5.97 As(r)=5.45		Mu=-0.00 As =5.97 As(r)=5.45
Mu=1.44 As =9.55 As(r)=5.45	Mu=16.85 As =9.55 As(r)=8.32	Mu=1.44 As =9.55 As(r)=5.45
Vu=9.61		Vu=-9.61

VR4/RAMPA

B=0.30 H=0.60 L=6.56		
Mu=-0.00 As =5.97 As(r)=5.45		Mu=-0.00 As =5.97 As(r)=5.45
Mu=1.48 As =10.58 As(r)=5.45	Mu=17.63 As =10.58 As(r)=8.71	Mu=1.48 As =10.58 As(r)=5.45
Vu=9.84		Vu=-9.84

VR2/RAMPA

B=0.30 H=0.60 L=7.18		
Mu=-0.00 As =5.97 As(r)=5.45		Mu=-0.00 As =5.97 As(r)=5.45
Mu=2.66 As =11.61 As(r)=5.45	Mu=21.48 As =11.61 As(r)=10.68	Mu=1.64 As =11.61 As(r)=5.45
Vu=10.63		Vu=-10.91

MEMORIA DE DISEÑO VIGAS RAMPA

VR1/RAMPA

B=0.30 H=0.60 L=3.00			B=0.30 H=0.60 L=5.25			B=0.30 H=0.60 L=2.64		
Mu=-0.00 As =5.97 As(r)=5.45		Mu=-6.13 As =5.97 As(r)=5.45	Mu=-5.84 As =5.97 As(r)=5.45		Mu=-4.26 As =5.97 As(r)=5.45	Mu=-4.90 As =5.97 As(r)=5.45		Mu=-3.84 As =5.97 As(r)=5.45
Mu=0.57 As =7.96 As(r)=5.45	Mu=0.59 As =7.96 As(r)=5.45	Mu=0.00 As =7.96 As(r)=5.45	Mu=0.00 As =7.96 As(r)=5.45	Mu=5.29 As =7.96 As(r)=5.45	Mu=0.00 As =7.96 As(r)=5.45	Mu=0.00 As =7.96 As(r)=5.45	Mu=0.00 As =7.96 As(r)=5.45	Mu=0.00 As =5.97 As(r)=5.45
Vu=2.27		Vu=-6.73	Vu=8.18		Vu=-7.57	Vu=4.36		Vu=-3.56

B=0.30 H=0.60 L=4.02		
Mu=-3.15 As =5.97 As(r)=5.45		Mu=-0.00 As =5.97 As(r)=5.45
Mu=0.00 As =5.97 As(r)=5.45	Mu=4.87 As =7.96 As(r)=5.45	Mu=0.76 As =5.97 As(r)=5.45
Vu=7.00		Vu=-5.06

VR3/RAMPA

B=0.30 H=0.60 L=4.25			B=0.30 H=0.60 L=3.25			B=0.30 H=0.60 L=4.37		
Mu=-0.00 As =5.97 As(r)=5.45		Mu=-4.50 As =5.97 As(r)=5.45	Mu=-4.91 As =5.97 As(r)=5.45		Mu=-2.63 As =5.97 As(r)=5.45	Mu=-2.31 As =5.97 As(r)=5.45		Mu=-5.67 As =5.97 As(r)=5.45
Mu=0.77 As =7.96 As(r)=5.45	Mu=4.91 As =7.96 As(r)=5.45	Mu=0.00 As =7.96 As(r)=5.45	Mu=0.00 As =7.96 As(r)=5.45	Mu=0.19 As =7.96 As(r)=5.45	Mu=0.00 As =7.96 As(r)=5.45	Mu=0.00 As =7.96 As(r)=5.45	Mu=3.17 As =7.96 As(r)=5.45	Mu=0.00 As =5.97 As(r)=5.45
Vu=5.14		Vu=-7.61	Vu=5.57		Vu=-4.18	Vu=5.79		Vu=-7.32

B=0.30 H=0.60 L=4.03		
Mu=-5.61 As =5.97 As(r)=5.45		Mu=-0.00 As =5.97 As(r)=5.45
Mu=0.00 As =5.97 As(r)=5.45	Mu=3.62 As =7.96 As(r)=5.45	Mu=0.67 As =5.97 As(r)=5.45
Vu=7.61		Vu=-4.48

VR5/RAMPA

B=0.30 H=0.60 L=7.77		
Mu=-0.00 As =5.97 As(r)=5.45		Mu=-0.00 As =5.97 As(r)=5.45
Mu=1.75 As =10.58 As(r)=5.45	Mu=24.39 As =14.20 As(r)=12.18	Mu=1.75 As =10.58 As(r)=5.45
Vu=11.65		Vu=-11.66

MEMORIA DE DISEÑO VIGUETAS RAMPA

VTR1/RAMPA

B=0.20 H=0.60 L=4.13			B=0.20 H=0.60 L=2.55			B=0.20 H=0.60 L=4.29		
Mu=-0.00 As =3.98 As(r)=3.63		Mu=-4.22 As =3.98 As(r)=3.63	Mu=-4.67 As =3.98 As(r)=3.63		Mu=-3.06 As =3.98 As(r)=3.63	Mu=-2.61 As =3.98 As(r)=3.63		Mu=-3.61 As =3.98 As(r)=3.63
Mu=1.22 As =3.98 As(r)=3.63	Mu=4.90 As =3.98 As(r)=3.63	Mu=0.00 As =3.98 As(r)=3.63	Mu=0.00 As =3.98 As(r)=3.63	Mu=0.00 As =3.98 As(r)=3.63	Mu=0.00 As =3.98 As(r)=3.63	Mu=0.00 As =3.98 As(r)=3.63	Mu=3.79 As =3.98 As(r)=3.63	Mu=0.00 As =3.98 As(r)=3.63
Vu=4.88		Vu=-7.51	Vu=4.46		Vu=-3.19	Vu=6.20		Vu=-6.67

B=0.20 H=0.60 L=3.57			B=0.20 H=0.60 L=4.08		
Mu=-3.84 As =3.98 As(r)=3.63		Mu=-4.61 As =3.98 As(r)=3.63	Mu=-4.34 As =3.98 As(r)=3.63		Mu=-0.00 As =3.98 As(r)=3.63
Mu=0.00 As =3.98 As(r)=3.63	Mu=0.55 As =3.98 As(r)=3.63	Mu=0.00 As =3.98 As(r)=3.63	Mu=0.00 As =3.98 As(r)=3.63	Mu=4.44 As =3.98 As(r)=3.63	Mu=0.73 As =3.98 As(r)=3.63
Vu=5.14		Vu=-5.57	Vu=7.36		Vu=-4.88

DISEÑO DE TANQUE (Con Tapa)
Proyecto**: EDIFICIO UNAL-SGC**

Dimensiones Ta

B (m)	L (m)	H (m)
9.37	10.45	4.2

DISEÑO MURO

Espesor muro (m)= 0.25

1. Prueba de Hermeticidad

Υ_{H2O} (T/m^3)	h (m)	P' (T/m2)	FC	P'u (T/m2)
1.00	3.70	3.70	1.4	8.23

Cálculo del factor Sd

b (cm)	r (cm)	d (cm)
100	5	19.5

fs (MPa)	$fs_{mín}$ (MPa)	Sd	Mu (T-m/m)	Vu (T)	ϕVc (T)
130	170	1.59	7.23	10.15	12.97

k (kg/cm2)	ρ	As(cm^2/m)	
21.11	0.00527	10.28	1#5-.20c/c

2. Estado de servicio (tanque vacio)

Υ_s (T/m^3)	h (m)	Ka	P (T/m2)	q (T/m2)
1.60	3.95	0.4	2.53	1

FC	Pu (T/m2)	qu (T/m2)
1.6	6.83	1.08

Cálculo del factor Sd

fs (MPa)	$fs_{mín}$ (MPa)	Sd	Mu (T-m/m)	Vu (T)	ϕVc (T)
129.9	140	1.69	8.20	10.68	12.97

k (kg/cm2)	ρ	As(cm^2/m)
23.97	0.00603	11.75

$\rho_{mín}$	$As_{mín}$ (cm^2/m)	
0.005	6.25	c/cara

DISEÑO DE ELEMENTOS NO ESTRUCTURALES

Proyecto: UNAL-SGC CALCULÓ: DCC

1. Fuerzas Horizontales en cada nivel

Aa = 0.15 I = 1.25 W (t) = 25354.15
Fa = 1.2 Sa = 0.563 Vs (t) = 12846.95

Piso	hi (m)	wi (t)	wi hik	Cvx	Fx (t)
Cubierta	56.00	860.59	719282.19	0.05	701.20
Piso 12	51.80	862.91	667853.89	0.05	651.07
Piso 11	47.60	1286.52	1073470.49	0.08	1046.49
Piso 10	43.40	1579.99	1304985.85	0.10	1272.19
Piso 9	39.20	2003.04	1643052.87	0.12	1601.76
Piso 8	35.00	2104.48	1572060.75	0.12	1532.55
Piso 7	30.80	2050.95	1334405.49	0.10	1300.87
Piso 6	26.60	2106.32	1196232.86	0.09	1166.17
Piso 5	22.40	2179.78	1056876.77	0.08	1030.31
Piso 4	18.20	2229.78	886417.27	0.07	864.14
Piso 3	14.00	2307.29	715271.78	0.05	697.29
Piso 2	9.80	3155.58	776133.40	0.06	756.63
Piso 1	4.00	2526.94	232109.49	0.02	226.28
Planta Baja	0.00	0.00	0.00	0.00	0.00
		25254.15	***13178153.10***	***1.00***	***12846.95***

2. Materiales - Muros divisorios y Fachadas

Tipo de muro	t (m)	γ (t/m^3)	w_{muro} (t/m^2)
1.Bloque perf. Hzntal	0.15	1.4	0.21
2.Bloque perf. Vtcal	0.15	1.6	0.24
3.Tolete macizo	0.12	1.85	0.222
4.Bloque de concreto	0.14	2.15	0.301
5.Concreto Arq.	0.12	2.4	0.288
6.Otro			0

Columnetas f'c = 280 kg/cm^2
Refuerzo, fy = 4200 kg/cm^2

3. Diseño de Muros

Desempeño: Superior As = 0.5625
hn (m) = 56 heq (m) = 42

A) Elementos apoyados Arriba y abajo
Tipo de muro: **5**
Seccion columnetas: b (cm) = 100 h (cm) = 12 Separación, S (m) = 2.00

NIVEL	hx (m)	ax	ap	Rp	w_{muro} (t/m^2)	Fp (t/m^2)	Hmuro (m)	M (t m)	V (t)	As (cm^2)	Conector
Cubierta	53.4	0.72	1	3	0.288	0.069					
Piso 12	50.5	0.68	1	3	0.288	0.065	3.20	0.166	0.208	0.614	1#5
Piso 11	46.5	0.62	1	3	0.288	0.06	3.20	0.154	0.192	0.569	1#5
Piso 10	42.5	0.57	1	3	0.288	0.055	3.20	0.141	0.176	0.521	1#5
Piso 9	38.5	0.56	1	3	0.288	0.054	3.20	0.138	0.173	0.510	1#5
Piso 8	34.5	0.56	1	3	0.288	0.054	3.20	0.138	0.173	0.510	1#5
Piso 7	30.5	0.56	1	3	0.288	0.054	3.20	0.138	0.173	0.510	1#5
Piso 6	27.5	0.56	1	3	0.288	0.054	3.20	0.138	0.173	0.510	1#5
Piso 5	23.5	0.56	1	3	0.288	0.054	3.20	0.138	0.173	0.510	1#5
Piso 4	19.5	0.56	1	3	0.288	0.054	3.20	0.138	0.173	0.510	1#5
Piso 3	15.5	0.56	1	3	0.288	0.054	3.20	0.138	0.173	0.510	1#5
Piso 2	11.5	0.56	1	3	0.288	0.054	3.20	0.138	0.173	0.510	1#5
Piso 1	7.98	0.56	1	3	0.288	0.054	3.60	0.175	0.194	0.648	1#5
Planta Baja	4.36	0.56	1	3	0.288	0.054	3.45	0.161	0.186	0.595	1#5

B) Elementos en voladizo (Antepechos)
Tipo de muro: **5**
Seccion columnetas: b (cm) = 100 h (cm) = 15 Separación, S (m) = 2.00

NIVEL	hx (m)	ax	ap	Rp	w_{muro} (t/m^2)	Fp (t/m^2)	Hmuro (m)	M (t m)	V (t)	As (cm^2)
Cubierta	53.4	0.72	2.5	3	0.288	0.173	1.50	0.389	0.519	1.048
Piso 12	50.5	0.68	2.5	3	0.288	0.163	1.50	0.367	0.489	0.989
Piso 11	46.5	0.62	2.5	3	0.288	0.149	1.50	0.335	0.447	0.902
Piso 10	42.5	0.57	2.5	3	0.288	0.137	1.50	0.308	0.411	0.829
Piso 9	38.5	0.56	2.5	3	0.288	0.134	1.50	0.302	0.402	0.812
Piso 8	34.5	0.56	2.5	3	0.288	0.134	1.50	0.302	0.402	0.812
Piso 7	30.5	0.56	2.5	3	0.288	0.134	1.50	0.302	0.402	0.812
Piso 6	27.5	0.56	2.5	3	0.288	0.134	1.50	0.302	0.402	0.812
Piso 5	23.5	0.56	2.5	3	0.288	0.134	1.50	0.302	0.402	0.812
Piso 4	19.5	0.56	2.5	3	0.288	0.134	1.50	0.302	0.402	0.812
Piso 3	15.5	0.56	2.5	3	0.288	0.134	1.50	0.302	0.402	0.812
Piso 2	11.5	0.56	2.5	3	0.288	0.134	1.50	0.302	0.402	0.812
Piso 1	7.98	0.56	2.5	3	0.288	0.134	1.50	0.302	0.402	0.812
Planta Baja	4.36	0.56	2.5	3	0.288	0.134	1.50	0.302	0.402	0.812