

**“MEJORAMIENTO Y CONSTRUCCIÓN DEL ESCENARIO RECREODEPORTIVO
“EL PARQUE” PARA EL FORTALECIMIENTO DEL DEPORTE Y MEJORAMIENTO
DE LA CALIDAD DE VIDA, DISTRITO DE SANTA MARTA”**

GRADERIAS

CALCULÓ Y DISEÑÓ:

ING. FRANCISCO DUICA BARRERA

ESP. EN ESTRUCTURAS

M.P. 08202-415834 ATL

SANTA MARTA, MAGDALENA

AGOSTO DE 2025

1. Localización

El presente diseño se refiere al proyecto CONSTRUCCIÓN DE CANCHA PARA EL BARRIO EL PARQUE en el municipio de Santa Marta, departamento del Magdalena.

2. Estudio de suelos

El estudio de suelos utilizado para los diseños estructurales fue ejecutado por el Ing. MIGUEL ANGEL VILLAZON con matrícula profesional T.P. 08202-280925, de fecha de junio de 2025.

3. Normas

Ley 400 de 1997 y sus decretos reglamentarios

- Decreto 926 del 19 de marzo de 2010
- Decreto 2525 del 13 de julio de 2010
- Decreto 092 del 17 de enero de 2011
- Decreto 340 del 13 de febrero de 2012
- Decreto 945 del 5 de junio de 2017
- Decreto 2113 del 25 de noviembre de 2019
- Resolución 0017 del 4 de diciembre de 2017

4. Descripción de la estructura.

Es una cubierta liviana soportada por cerchas metálicas apoyadas por medio de placa base a columnas en concreto reforzado.

CIMENTACIÓN

"Dada las características del proyecto se considera entonces viable el uso de un sistema de cimentación superficial para la transmisión de las cargas de las estructuras al terreno por medio de zapatas desplantadas a una profundidad mínima de 1,00 metros y unidas entre sí por vigas de amarre. La capacidad admisible del terreno será de 6.0 Ton/m2."

SISTEMA ESTRUCTURAL

Sistema de muros de carga en mampostería parcialmente reforzada de bloque de perforación vertical.

SISTEMA DE RESISTENCIA SÍSMICA

Mampostería parcialmente reforzada DMO

COEFICIENTE DE DISIPACIÓN DE ENERGÍA BÁSICO

2.00

FACTOR DE SOBRE RESISTENCIA

2.50

ALTURA MÁXIMA

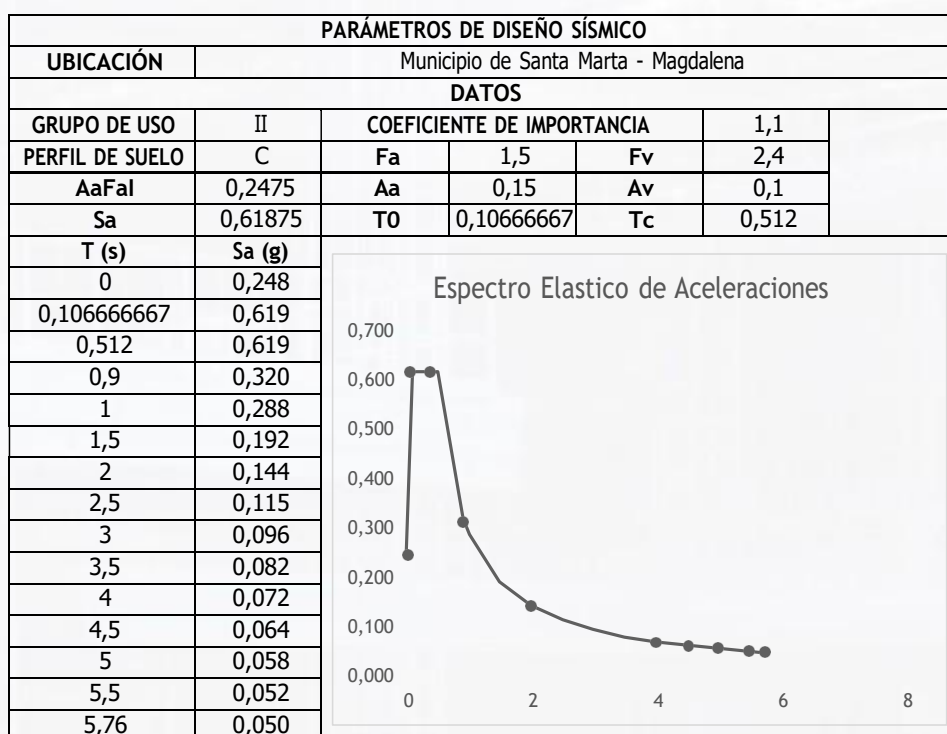
12.0 metros.

GRADO DE CAPACIDAD DE DISIPACIÓN DE ENERGÍA

Moderado - DMO

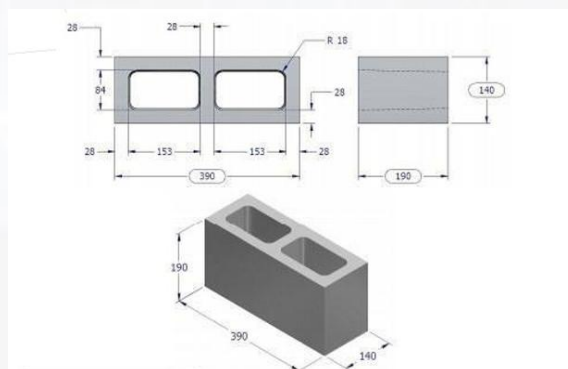
5. Parámetros De Diseño Sísmico

PERFIL DE SUELO	D
ACELERACIÓN HORIZONTAL PICO EFECTIVA A_a	0.15
VELOCIDAD HORIZONTAL PICO EFECTIVA A_v	0.10
COEFICIENTE DE AMPLIACIÓN SÍSMICA EN PERIODOS CORTOS F_a	1.50
COEFICIENTE DE AMPLIACIÓN SÍSMICA EN PERIODOS MEDIOS F_v	2.40
GRUPO DE USO	II – Estructuras de ocupación espe
COEFICIENTE DE IMPORTANCIA	1.10



6. Características de materiales

Bloque de perforación vertical



Dimensiones en mm					
Características Físicas		Dimensiones	Nominal (mm)	Estándar (mm)	Tolerancia (mm)
Peso Seco (kg)	12.4	Alto	200	190	+/- (2.0)
Área Neta (mm ²)	30,025	Ancho	150	140	+/- (2.0)
Área Nominal (mm ²)	0.08	Largo	400	390	+/- (2.0)
Rendimiento m ² (Unid.)	12.5	Color	Gris, Rojo, Amarillo, Negro, Verde, Salmón, Caramelo, Ocre, Ivory		
Características Mecánicas		Resistencia a la Compresión a 28 días (MPa).		Absorción de Agua % Máximo	
Norma NTC-4026 (Bloques de concreto para mampostería estructural)		13		9%	

- Resistencia a la compresión de la unidad de mampostería: $f'_{cu} = 13 \text{ MPa}$. (Especificaciones de fábrica)
- Resistencia a la compresión del mortero de pega: $f'_{cp} = 12.5 \text{ MPa}$.
- Resistencia a la compresión de la mampostería: $f'_m = 0.75R_m$ (D.3.7-2)
- Factor de corrección por absorción de la unidad: $K_p = 1.4$ (D.3.0)
- Relación entre el área neta y el área bruta de las unidades de mampostería: $r=0.549$
- Factor de correlación por absorción de la unidad de mampostería inyectada: $K_r=0.9$
- Resistencia a la compresión del mortero de relleno: $f'_{cr}=12.5 \text{ MPa}$.

$$R_m = \left(\frac{2h}{75 + 3h} \right) f'_{cu} + \left(\frac{50k_p}{75 + 3h} \right) f'_{cp} \leq 0.8f'_{cu} \quad (\text{D.3.7-1})$$

$$R_m = 9.01 \text{ MPa}$$

$$0.8f'_{cu} = 10.4 \text{ MPa}$$

$$f'_m = 0.75(rR_m + 0.9K_r(1-r)f'_{cr}) \leq 0.94R_m$$

$$f'_m = 7.707 \text{ MPa}$$

$$0.94R_m = 9.776$$

Módulo de elasticidad de la mampostería: $E_m = 900f'_m = 6936.3 \text{ MPa}$. (D.5.2 – 2)

Módulo de cortante: $G_m = 0.4E_m = 2774.52 \text{ MPa}$. (D.5.2 – 5)

Mortero de pega

Se toma un mortero de pega tipo S según lo indicado en la clasificación de morteros de pega de la tabla D.3.4-1 de la norma NSR-10, con resistencia mínima a la compresión.

$$f'_{cp} = 12.5 \text{ MPa}.$$

Mortero de relleno

La resistencia a la compresión del mortero de relleno debe ser igual a $f'_{cr} = 12.5 \text{ MPa}$, teniendo en cuenta lo establecido en el art. D.3.5.3 de la norma NSR-10.

Resistencia a compresión del concreto

La resistencia a la compresión del concreto establecida es de:

- Columnas: 28 MPa.
- Vigas y Losas: 28 MPa.
- Cimentación: 28 MPa.

Módulo de elasticidad del concreto

El agregado usado para el concreto estructural deberá ser de origen metamórfico.

Su módulo de elasticidad se calcula según lo indica C.8.5.1.

Módulo de elasticidad del concreto: $3900\sqrt{28\text{MPa}}=20636 \text{ MPa}$

Acero de refuerzo

Acero de refuerzo

El refuerzo de los elementos de concreto consiste en varillas corrugadas de acero con diámetros desde 4mm hasta 1" y las siguientes resistencias a tensión f_y .

- Varillas de refuerzo: 420 MPa. Mallas Electrosoldadas: 480 MPa.
- Perfiles estructurales Tipo I: ASTM A572 G50 $F_y=345 \text{ MPa}$ $F_u=450 \text{ MPa}$
- Tubería estructural: ASTM A500 $F_y=345 \text{ MPa}$ $F_u=425 \text{ MPa}$
- Platinas: ASTM A36
- Tornillos y Pernos: A325

El acero de refuerzo utilizado debe cumplir con la norma NTC-2289, con módulo de elasticidad de 200000 MPa

7. Cargas

Peso propio de los elementos estructurales:

- Todos los elementos de concreto reforzado: 2400 Kg/m³
- Todos los elementos en acero: 7800 Kg/m³

Cargas adicionales al peso propio de los elementos estructurales (gravitacionales):

- Carga Viva en gradería: 500 Kg/m² (Tabla B.4.2.1-2 NSR-10)
- Carga muerta sobreimpuesta en gradería: 100 kg/m²

8. Identificación de cargas en modelo

Condiciones de carga:

- D Carga muerta – Peso Propio
- DS Carga muerta sobreimpuesta
- L Carga Viva
- SX Cargas sísmicas En dirección X
- SY Cargas sísmicas En dirección Y
- W Cargas de viento

9. Combinaciones de carga

Name	Load Name	SF	Load Name	SF	Load Name	SF	Load Name	SF
CIM 0,6D	Dead	0.6	DS	0.6				
CIM 0,6D+0.7SX	Dead	0.6	DS	0.6	SX	0.7		
CIM 0,6D+0.7SY	Dead	0.6	DS	0.6	SY	0.7		
CIM 1.0D	Dead	1	DS	1				
CIM 1.0D+0.7SX	Dead	1	DS	1	SX	0.7		
CIM 1.0D+0.7SY	Dead	1	DS	1	SY	0.7		
CIM 1.0D+0.75L+0.5SX	Dead	1	DS	1	Live	0.75	SX	0.5
CIM 1.0D+0.75L+0.5SY	Dead	1	DS	1	Live	0.75	SY	0.5
CIM 1.0D+1.0L	Dead	1	DS	1	Live	1		
DES 0.6D+1.0SX	Dead	0.6	DS	0.6	SX	1		
DES 0.6D+1.0SY	Dead	0.6	DS	0.6	SY	1		
DES 1.0D+0.75L+0.75SX	Dead	1	DS	1	Live	0.75	SX	0.75
DES 1.0D+0.75L+0.75SY	Dead	1	DS	1	Live	0.75	SY	0.75
DES 1.0D+1.0SX	Dead	1	DS	1	SX	1		
DES 1.0D+1.0SY	Dead	1	DS	1	SY	1		
ELS 0.6D+0.7SX	Dead	0.6	DS	0.6	SX	0.7		
ELS 0.6D+0.7SY	Dead	0.6	DS	0.6	SY	0.7		
ELS 0.6D+1.0W1	Dead	0.6	DS	0.6	W1	1		
ELS 0.6D+1.0W2	Dead	0.6	DS	0.6	W2	1		
ELS 1.0D	Dead	1	DS	1				
ELS 1.0D+0.7SX	Dead	1	DS	1	SX	0.7		
ELS 1.0D+0.7SY	Dead	1	DS	1	SY	0.7		
ELS 1.0D+0.75L	Dead	1	DS	1	Live	0.75		
ELS 1.0D+0.75L+0.525SX	Dead	1	DS	1	Live	0.75	SX	0.525
ELS 1.0D+0.75L+0.525SY	Dead	1	DS	1	Live	0.75	SY	0.525
ELS 1.0D+0.75W1+0.75L	Dead	1	DS	1	Live	0.75	W1	0.75
ELS 1.0D+0.75W2+0.75L	Dead	1	DS	1	Live	0.75	W2	0.75
ELS 1.0D+1.0L	Dead	1	DS	1	Live	1		
ELS 1.0D+1.0W1	Dead	1	DS	1	W1	1		
ELS 1.0D+1.0W2	Dead	1	DS	1	W2	1		
ELU 0.9D	Dead	0.9	DS	0.9				
ELU 0.9D-1.0SX-0.3SY	Dead	0.9	DS	0.9	SX	-1	SY	-0.3
ELU 0.9D-1.0SX+0.3SY	Dead	0.9	DS	0.9	SX	-1	SY	0.3

Name	Load Name	SF	Load Name	SF	Load Name	SF	Load Name	SF
ELU 0.9D-1.0SY-0.3SX	Dead	0.9	DS	0.9	SX	-0.3	SY	-1
ELU 0.9D-1.0SY+0.3SX	Dead	0.9	DS	0.9	SX	0.3	SY	-1
ELU 0.9D+1.0SX-0.3SY	Dead	0.9	DS	0.9	SX	1	SY	-0.3
ELU 0.9D+1.0SX+0.3SY	Dead	0.9	DS	0.9	SX	1	SY	0.3
ELU 0.9D+1.0SY-0.3SX	Dead	0.9	DS	0.9	SX	-0.3	SY	1
ELU 0.9D+1.0SY+0.3SX	Dead	0.9	DS	0.9	SX	0.3	SY	1
ELU 0.9D+1.6W1	Dead	0.9	DS	0.9	W1	1.6		
ELU 0.9D+1.6W2	Dead	0.9	DS	0.9	W2	1.6		
ELU 1.2D+0.8W1	Dead	1.2	DS	1.2	W1	0.8		
ELU 1.2D+0.8W2	Dead	1.2	DS	1.2	W2	0.8		
ELU 1.2D+1.0L-1.0SX-0.3SY	Dead	1.2	DS	1.2	Live	1	SX	-1
ELU 1.2D+1.0L-1.0SX-0.3SY							SY	-0.3
ELU 1.2D+1.0L-1.0SX+0.3SY	Dead	1.2	DS	1.2	Live	1	SX	-1
ELU 1.2D+1.0L-1.0SX+0.3SY							SY	0.3
ELU 1.2D+1.0L-1.0SY-0.3SX	Dead	1.2	DS	1.2	Live	1	SX	-0.3
ELU 1.2D+1.0L-1.0SY-0.3SX							SY	-1
ELU 1.2D+1.0L-1.0SY+0.3SX	Dead	1.2	DS	1.2	Live	1	SX	0.3
ELU 1.2D+1.0L-1.0SY+0.3SX							SY	-1
ELU 1.2D+1.0L+1.0SX-0.3SY	Dead	1.2	DS	1.2	Live	1	SX	1
ELU 1.2D+1.0L+1.0SX-0.3SY							SY	-0.3
ELU 1.2D+1.0L+1.0SX+0.3SY	Dead	1.2	DS	1.2	Live	1	SX	1
ELU 1.2D+1.0L+1.0SX+0.3SY							SY	0.3
ELU 1.2D+1.0L+1.0SY-0.3SX	Dead	1.2	DS	1.2	Live	1	SX	-0.3
ELU 1.2D+1.0L+1.0SY-0.3SX							SY	1
ELU 1.2D+1.0L+1.0SY+0.3SX	Dead	1.2	DS	1.2	Live	1	SX	0.3
ELU 1.2D+1.0L+1.0SY+0.3SX							SY	1
ELU 1.2D+1.6L	Dead	1.2	DS	1.2	Live	1.6		
ELU 1.2D+1.6W1+1.0L	Dead	1.2	DS	1.2	Live	1	W1	1.6
ELU 1.2D+1.6W2+1.0L	Dead	1.2	DS	1.2	Live	1	W2	1.6
ELU 1.4D	Dead	1.4	DS	1.4				

10. Modelo analítico

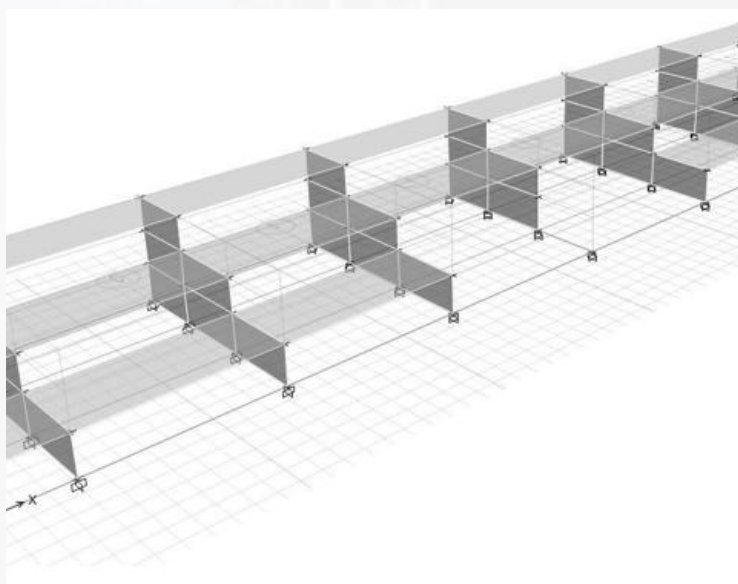


Ilustración 1. Modelo tridimensional.

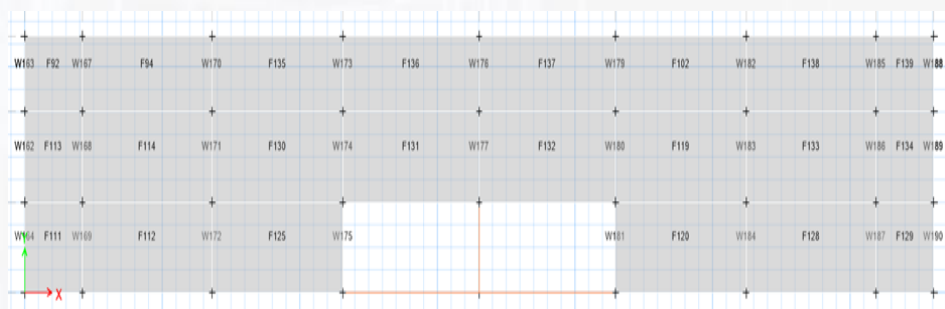


Ilustración 2. Alzado tipo de estructura de cubierta. Identificación de secciones elementos estructurales

11. Introducción De Cargas En graderías

Story	Label	UniqueName	Load Pattern	Direction	Load
					tonf/m ²
Story3	F92	82	L	Gravity	0,5
Story3	F94	83	L	Gravity	0,5
Story3	F102	87	L	Gravity	0,5
Story3	F135	84	L	Gravity	0,5
Story3	F136	85	L	Gravity	0,5
Story3	F137	86	L	Gravity	0,5
Story3	F138	88	L	Gravity	0,5

Story3	F139	89	L	Gravity	0,5
Story2	F113	74	L	Gravity	0,5
Story2	F114	75	L	Gravity	0,5
Story2	F119	79	L	Gravity	0,5
Story2	F130	76	L	Gravity	0,5
Story2	F131	77	L	Gravity	0,5
Story2	F132	78	L	Gravity	0,5
Story2	F133	80	L	Gravity	0,5
Story2	F134	81	L	Gravity	0,5
Story1	F111	66	L	Gravity	0,5
Story1	F112	67	L	Gravity	0,5
Story1	F120	71	L	Gravity	0,5
Story1	F125	68	L	Gravity	0,5
Story1	F128	72	L	Gravity	0,5
Story1	F129	73	L	Gravity	0,5
Story3	F92	82	DS	Gravity	0,1
Story3	F94	83	DS	Gravity	0,1
Story3	F102	87	DS	Gravity	0,1
Story3	F135	84	DS	Gravity	0,1
Story3	F136	85	DS	Gravity	0,1
Story3	F137	86	DS	Gravity	0,1

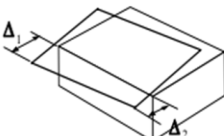
Story	Label	UniqueName	Load Pattern	Direction	Load
					tonf/m ²
Story3	F138	88	DS	Gravity	0,1
Story3	F139	89	DS	Gravity	0,1
Story2	F113	74	DS	Gravity	0,1
Story2	F114	75	DS	Gravity	0,1
Story2	F119	79	DS	Gravity	0,1
Story2	F130	76	DS	Gravity	0,1
Story2	F131	77	DS	Gravity	0,1
Story2	F132	78	DS	Gravity	0,1
Story2	F133	80	DS	Gravity	0,1
Story2	F134	81	DS	Gravity	0,1
Story1	F111	66	DS	Gravity	0,1

Story1	F112	67	DS	Gravity	0,1
Story1	F120	71	DS	Gravity	0,1
Story1	F125	68	DS	Gravity	0,1
Story1	F128	72	DS	Gravity	0,1
Story1	F129	73	DS	Gravity	0,1

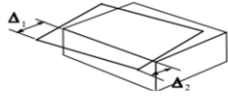
12. Análisis de irregularidades

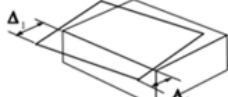
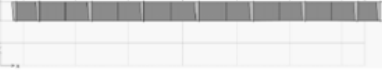
Irregularidades en planta

- Tipo 1aP y 1bP

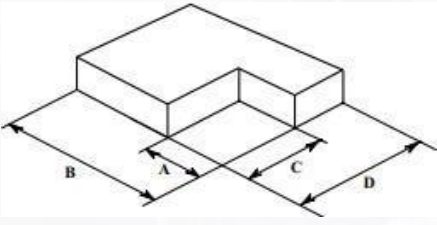
IRREGULARIDAD TORSIONAL - TIPO 1aP		IRREGULARIDAD TORSIONAL EXTREMA - TIPO 1bP	
$\phi_p = 0.90$		$\phi_p = 0.80$	
$1.4 \left(\frac{\Delta_1 + \Delta_2}{2} \right) \geq \Delta_1 > 1.2 \left(\frac{\Delta_1 + \Delta_2}{2} \right)$		$\Delta_1 > 1.4 \left(\frac{\Delta_1 + \Delta_2}{2} \right)$	
		DATOS DE ENTRADA	
		Δ1 =	19.63 mm
		Δ2 =	9.83 mm
		PISO 1	
		SISMO X	
		TIPO 1aP	¡NO CUMPLE! OP=1.0
		TIPO 1bP	¡NO CUMPLE! OP=1.0

SISMO X			
		$1.4 \left(\frac{\Delta_1 + \Delta_2}{2} \right) = 0,091 \text{ mm}$	
		$1.2 \left(\frac{\Delta_1 + \Delta_2}{2} \right) = 0,078 \text{ mm}$	
		Δ1 =	0,0027 mm
		Δ2 =	0,0019 mm
		N+3,10	
SISMO Y		SISMO Y	
		TIPO 1aP	¡NO CUMPLE! OP=1.0
		TIPO 1bP	¡NO CUMPLE! OP=1.0
		$1.4 \left(\frac{\Delta_1 + \Delta_2}{2} \right) = 0,00322 \text{ mm}$	
		$1.2 \left(\frac{\Delta_1 + \Delta_2}{2} \right) = 0,00276 \text{ mm}$	

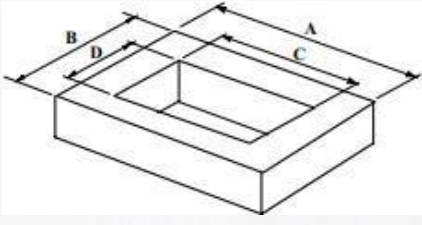
IRREGULARIDAD TORSIONAL - TIPO 1aP		IRREGULARIDAD TORSIONAL EXTREMA - TIPO 1bP	
$\phi_p=0.90$		$\phi_p=0.80$	
$1.4 \left(\frac{\Delta_1 + \Delta_2}{2} \right) \geq \Delta_1 > 1.2 \left(\frac{\Delta_1 + \Delta_2}{2} \right)$		$\Delta_1 > 1.4 \left(\frac{\Delta_1 + \Delta_2}{2} \right)$	
		DATOS DE ENTRADA	
		$\Delta_1 =$	0,19 mm
		$\Delta_2 =$	0,17 mm
		N+2,8	
SISMO X		SISMO X	
		TIPO 1aP	
		TIPO 1bP	
		iNO CUMPLE! OP=1.0	
		iNO CUMPLE! OP=1.0	
		$1.4 \left(\frac{\Delta_1 + \Delta_2}{2} \right) = 0,252 \text{ mm}$	
		$1.2 \left(\frac{\Delta_1 + \Delta_2}{2} \right) = 0,216 \text{ mm}$	
		$\Delta_1 =$	0,01 mm
		$\Delta_2 =$	0,0049 mm
		N+2,8	
SISMO Y		SISMO Y	
		TIPO 1aP	
		TIPO 1bP	
		iNO CUMPLE! OP=1.0	
		iNO CUMPLE! OP=1.0	
		$1.4 \left(\frac{\Delta_1 + \Delta_2}{2} \right) = 0,01043 \text{ mm}$	
		$1.2 \left(\frac{\Delta_1 + \Delta_2}{2} \right) = 0,00894 \text{ mm}$	

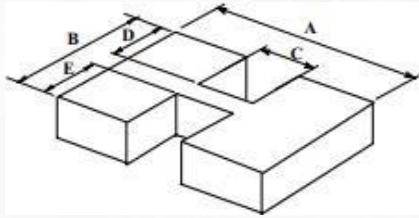
IRREGULARIDAD TORSIONAL - TIPO 1aP		IRREGULARIDAD TORSIONAL EXTREMA - TIPO 1bP	
$\phi_p=0.90$		$\phi_p=0.80$	
$1.4 \left(\frac{\Delta_1 + \Delta_2}{2} \right) \geq \Delta_1 > 1.2 \left(\frac{\Delta_1 + \Delta_2}{2} \right)$		$\Delta_1 > 1.4 \left(\frac{\Delta_1 + \Delta_2}{2} \right)$	
		DATOS DE ENTRADA	
		$\Delta_1 =$	0,24 mm
		$\Delta_2 =$	0,24 mm
		N+3,20	
SISMO X		SISMO X	
		TIPO 1aP	
		TIPO 1bP	
		iNO CUMPLE! OP=1.0	
		iNO CUMPLE! OP=1.0	
		$1.4 \left(\frac{\Delta_1 + \Delta_2}{2} \right) = 0,336 \text{ mm}$	
		$1.2 \left(\frac{\Delta_1 + \Delta_2}{2} \right) = 0,288 \text{ mm}$	
		$\Delta_1 =$	0,01 mm
		$\Delta_2 =$	0,01 mm
		N+3,20	
SISMO Y		SISMO Y	
		TIPO 1aP	
		TIPO 1bP	
		iNO CUMPLE! OP=1.0	
		iNO CUMPLE! OP=1.0	
		$1.4 \left(\frac{\Delta_1 + \Delta_2}{2} \right) = 0,014 \text{ mm}$	
		$1.2 \left(\frac{\Delta_1 + \Delta_2}{2} \right) = 0,012 \text{ mm}$	

- Tipo 2p

N O A P L I C A	RETROCESO EN LAS ESQUINAS - TIPO 2P			
	$\Phi p=0.90$			
	$A > 0.15B$ y $C > 0.15D$			
				
	DATOS DE ENTRADA			
	A=	0 mm	N+	
	B=	0 mm		
	C=	0 mm		
	D=	0 mm		
	A>0.15B	¡NO CUMPLE! OP=1.00		
C>0.15D	¡NO CUMPLE! OP=1.00			

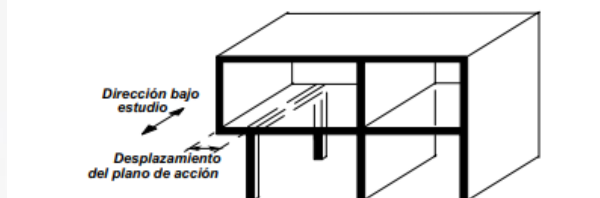
- Tipo 3p

N O A P L I C A	IRREGULARIDAD DEL DIAFRAGMA - TIPO 3P			
	$\Phi p=0.90$			
	$C * D > 0.5A * B$			
				
	DATOS DE ENTRADA			
	A=	0 mm	N+	
	B=	0 mm		
	C=	0 mm		
	D=	0 mm		
	C*D=	0	0.5A*B=	0
¡NO CUMPLE! OP=1.00				

N O A P L I C A	IRREGULARIDAD DEL DIAFRAGMA - TIPO 3P				
	Φp=0.90				
	(C * D + C * E) > 0.5A * B				
					
	DATOS DE ENTRADA				
	A=	0	mm	N+	
	B=	0	mm		
	C=	0	mm		
	D=	0	mm		
	E=	0	mm		
	(C*D+C*E)=		0	0.5A*B=	0
	¡NO CUMPLE! OP=1.00				

- Tipo 4p (No aplica)

Tipo 4P — Desplazamiento de los planos de Acción — $\phi_p = 0.8$



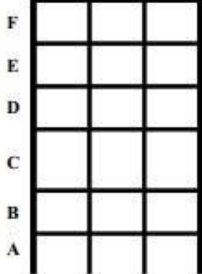
Tipo 5p (No aplica)

Tipo 5P — Sistemas no paralelos — $\phi_p = 0.9$

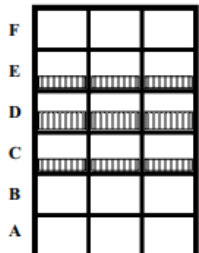


Irregularidades en altura

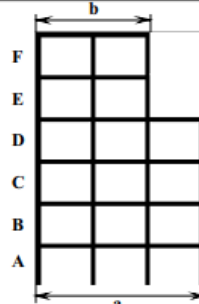
- Tipo 5aA y 5bA (No Aplica.)

<p>Tipo 1aA — Piso flexible $\phi_a = 0.9$ $0.60 \text{ Rigidez } K_D \leq \text{Rigidez } K_C < 0.70 \text{ Rigidez } K_D$ o $0.70 (K_D + K_E + K_F) / 3 \leq \text{Rigidez } K_C < 0.80 (K_D + K_E + K_F) / 3$</p>	
<p>Tipo 1bA — Piso flexible extremo $\phi_a = 0.8$ $\text{Rigidez } K_C < 0.60 \text{ Rigidez } K_D$ o $\text{Rigidez } K_C < 0.70 (K_D + K_E + K_F) / 3$</p>	

- Tipo 2A (No Aplica)

<p>Tipo 2A — Distribución masa — $\phi_a = 0.9$</p> <p>$m_D > 1.50 m_E$ o $m_D > 1.50 m_C$</p>	
--	--

- Tipo 3ª (Aplica)

<p>Tipo 3A — Geométrica — $\phi_a = 0.9$</p> <p>$a > 1.30 b$</p>	
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$$a = 2.83m$$

$$b = 0.83m$$

$$1.30b = 1.30 * 0.83 = 1.079$$

$$2.83m > 1.079m$$

$$\phi_a = 0.90$$

- Tipo 4A (No Aplica)

<p>Tipo 4A — Desplazamiento dentro del plano de acción — $\phi_a = 0.8$</p> <p>$b > a$</p>	
--	--

- Tipo 5aa Y 5ba (No Aplica)

<p>Tipo 5aA — Piso débil $\phi_a = 0.9$</p> <p>$0.65 \text{ Resist. Piso C} \leq \text{Resist. Piso B} < 0.80 \text{ Resist. Piso C}$</p>	
<p>Tipo 5bA — Piso débil extremo $\phi_a = 0.8$</p> <p>$\text{Resistencia Piso B} < 0.65 \text{ Resistencia Piso C}$</p>	

Ausencia de redundancia

Acorde a lo mencionado en el artículo A.3.3.8 de la norma NSR-10, se evalúa que el factor de reducción por ausencia de redundancia será:

$$\phi_{rx} = 1.0$$

$$\phi_{ry} = 1.0$$

En conclusión, los factores de reducción de sismo quedan así:

$$\phi_a = 0.9$$

$$\phi_p = 1.0$$

$$\phi_{rx} = 1.0$$

$$\phi_{ry} = 1.0$$

13. Análisis sísmico

Del programa de análisis estructural se obtienen los valores de cortante basal en las direcciones X y Y, además del valor de masa participante en el sismo.

Output Case	Case Type	Step Type	FX tonf	FY tonf	FZ tonf
Dead	LinStatic		0	0	15,79
Live	LinStatic		0	0	20,9
SX	LinRespSpec	Max	11,38	1,13E-05	0
SY	LinRespSpec	Max	3,45E-06	7,93	0
SXEST	LinStatic		-10,42	0	0
SYEST	LinStatic		0	-10,42	0
DS	LinStatic		0	0	4,18
W1	LinStatic		0	0	0
W2	LinStatic		0	0	0

PESO DE LA ESTRUCTURA:	19,97 Ton	Sa:	0,61875
Vs Estático:	12,36 Ton	Vs Dinámico:	11,12
CORTANTE SÍSMICO:	10,42 Ton	Factor de corrección:	1,19
CORTANTE DINÁMICO X:	11,38 Ton	Factor de corrección:	0,98
CORTANTE DINÁMICO Y:	7,93 Ton	Factor de corrección:	1,40

a. Porcentaje de participación de masas

Número De Modos De Vibración: Deben incluirse en el análisis dinámico todos los modos de vibración que contribuyan de una manera significativa a la respuesta dinámica de la estructura. Se considera que se ha cumplido este requisito cuando se demuestra que, con el número de modos empleados, p,

se ha incluido en el cálculo de la respuesta, de cada una de las direcciones horizontales de análisis, j, por lo menos el 90% de la masa participante de la estructura. La masa participante, M_j , en cada una de las direcciones de análisis, j, para el número de modos empleados, p.

Para nuestro caso se alcanzó el 90% de aportes de masa en el modo 9 en X y en el modo 49 en Y.

Case	Mode	Period	UX	UY	UZ	SumUX	SumUY
		sec					
Modal	1	0,048	0,7625	0	0	0,7625	0
Modal	2	0,018	0,1164	0	0	0,8789	0
Modal	3	0,016	0	0,001	0	0,8789	0,001
Modal	4	0,016	0	0,3242	0	0,8789	0,3252
Modal	5	0,015	1,64E-05	0	0	0,8789	0,3252
Modal	6	0,014	0	0,1751	0	0,8789	0,5003
Modal	7	0,013	0,0005	0	0	0,8795	0,5003
Modal	8	0,013	0	0,0184	0	0,8795	0,5186
Modal	9	0,011	0,0906	0	0	0,97	0,5186
Modal	10	0,011	0	0,0251	0	0,97	0,5437

Case	Mode	Period	UX	UY	UZ	SumUX	SumUY
		sec					
Modal	11	0,01	0	0,0038	0	0,97	0,5475
Modal	12	0,009	4,08E-06	0	0	0,97	0,5475
Modal	13	0,009	0,0006	0	0	0,9707	0,5475
Modal	14	0,008	0	0,0777	0	0,9707	0,6252
Modal	15	0,008	0,0004	0	0	0,9711	0,6252
Modal	16	0,008	0	0,0054	0	0,9711	0,6306
Modal	17	0,008	0,0001	0	0	0,9711	0,6306
Modal	18	0,008	1,44E-05	0	0	0,9711	0,6306
Modal	19	0,008	0	0,023	0	0,9711	0,6537
Modal	20	0,008	0	0,0885	0	0,9711	0,7422
Modal	21	0,008	0,0003	0	0	0,9715	0,7422
Modal	22	0,008	1,63E-05	0	0	0,9715	0,7422
Modal	23	0,007	0	0,0144	0	0,9715	0,7566
Modal	24	0,007	0	0,0706	0	0,9715	0,8272
Modal	25	0,007	5,73E-06	0	0	0,9715	0,8272
Modal	26	0,007	5,22E-06	0	0	0,9715	0,8272
Modal	27	0,007	0	0,0058	0	0,9715	0,8329
Modal	28	0,007	0,007	0	0	0,9785	0,8329
Modal	29	0,007	0,0016	0	0	0,9801	0,8329
Modal	30	0,007	0	0,0026	0	0,9801	0,8355
Modal	31	0,007	0,0002	0	0	0,9803	0,8355
Modal	32	0,007	0	0,001	0	0,9803	0,8366
Modal	33	0,007	0,002	0	0	0,9823	0,8366
Modal	34	0,006	0	0,0372	0	0,9823	0,8738

Modal	35	0,006	1,99E-05	0	0	0,9823	0,8738
Modal	36	0,006	0	0,0009	0	0,9823	0,8747
Modal	37	0,006	0	0	0	0,9823	0,8747
Modal	38	0,006	0	0,0005	0	0,9823	0,8752
Modal	39	0,005	0	0,0015	0	0,9823	0,8767
Modal	40	0,005	0,0003	0	0	0,9826	0,8767
Modal	41	0,005	0	0,0003	0	0,9826	0,877
Modal	42	0,005	0	0,0001	0	0,9826	0,8771
Modal	43	0,005	0,0001	0	0	0,9826	0,8771
Modal	44	0,005	0	0,0065	0	0,9826	0,8836
Modal	45	0,005	0,0007	0	0	0,9833	0,8836
Modal	46	0,005	0	0	0	0,9833	0,8836
Modal	47	0,004	0	0,0001	0	0,9833	0,8837

Case	Mode	Period	UX	UY	UZ	SumUX	SumUY
		sec					
Modal	48	0,004	0,0007	0	0	0,984	0,8837
Modal	49	0,004	0	0,0225	0	0,984	0,9061
Modal	50	0,004	0,0001	0	0	0,9841	0,9061
Modal	51	0,004	0	0,0179	0	0,9841	0,924
Modal	52	0,004	0,0015	0	0	0,9856	0,924
Modal	53	0,004	0,0002	0	0	0,9858	0,924
Modal	54	0,004	0	0,0005	0	0,9858	0,9245
Modal	55	0,004	0	0,0003	0	0,9858	0,9248
Modal	56	0,004	0,001	0	0	0,9867	0,9248
Modal	57	0,004	0,0045	0	0	0,9912	0,9248
Modal	58	0,004	0	0,0044	0	0,9912	0,9291
Modal	59	0,004	0,0006	0	0	0,9918	0,9291
Modal	60	0,004	0,0005	0	0	0,9923	0,9291

b. Chequeo de deflexiones

TABLA C.9.5(b) — Deflexión máxima admisible calculada

Tipo de elemento	Deflexión considerada	Límite de deflexión
Cubiertas planas que no soporten ni estén ligadas a elementos no estructurales susceptibles de sufrir daños debido a deflexiones grandes.	Deflexión inmediata debida a la carga viva, L	$\ell/180^+$
Entrepisos que no soporten ni estén ligados a elementos no estructurales susceptibles de sufrir daños debido a deflexiones grandes.	Deflexión inmediata debida a la carga viva, L	$\ell/360$
Sistema de entrepiso o cubierta que soporte o esté ligado a elementos no estructurales susceptibles de sufrir daños debido a deflexiones grandes.	La parte de la deflexión total que ocurre después de la unión de los elementos no estructurales (la suma de la deflexión a largo plazo debida a todas las cargas permanentes, y la deflexión inmediata debida a cualquier carga viva adicional) ^f	$\ell/480^+$
Sistema de entrepiso o cubierta que soporte o esté ligado a elementos no estructurales no susceptibles de sufrir daños debido a deflexiones grandes.		$\ell/240^g$

$$\frac{l}{180} = \frac{2480}{180} = 13.77 \text{ mm}$$

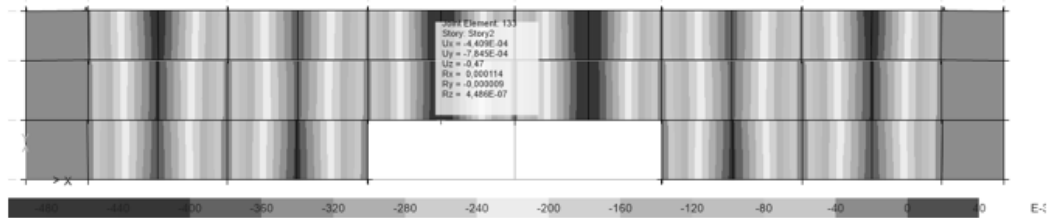


Ilustración 3. Deflexión de eje B en cercha por carga viva + carga muerta. DMAX=0.47MM

14. Diseño de elementos estructurales

Verificados los chequeos de deflexiones y análisis, procedemos a reducir el sismo de acuerdo con el capítulo A3 de la norma NSR-10. Acorde a lo mencionado en la descripción de la estructura y análisis de irregularidades

$$R_o = 2.0$$

$$\phi_a = 0.9$$

$$\phi_p = 1.0$$

$$\phi_{rx} = 1.0$$

$$\phi_{ry} = 1.0$$

$$R_x = R_o * \phi_a * \phi_p * \phi_{rx} = 1.8$$

$$R_y = R_o * \phi_a * \phi_p * \phi_{ry} = 1.8$$

Aplicados los valores de reducción en el sismo procedemos a diseñar.

a. Diseño de muros en mampostería reforzada parcialmente

TABLE: Element Forces - Area Shells							
Story	Shell Object	Unique Name	Design Type	Shell Element	F22	M22	V23
					kN/m	kN-m/m	kN/m
Story1	W162	10	EJE A	10	9,78	1,46	2,12
Story1	W163	9		9	12,29	1,59	2,42
Story1	W164	17		17	9,82	1,95	7,38
Story1	W167	18	EJE B	18	29,8	2,16	4,01
Story1	W168	19		19	23,33	1,8	3,66
Story1	W169	23		23	22,82	4,22	14,54
Story1	W170	24	EJE C	24	46,16	1,5	2,23
Story1	W171	25		25	29,7	1,41	1,99
Story1	W172	29		29	30,45	1,9	6,76
Story1	W173	30		30	46,76	1,48	2,25

Story1	W174	31	EJE D	31	30,14	1,41	2,08
Story1	W175	35		35	31,19	1,9	6,96
Story1	W176	36	EJE E	36	48,6	1,4	2,03
Story1	W177	37		37	30,89	1,37	1,93
Story1	W179	42	EJE F	42	46,76	1,48	2,25
Story1	W180	43		43	30,14	1,41	2,08
Story1	W181	47		47	31,19	1,9	6,96
Story1	W182	48	EJE G	48	46,16	1,5	2,23
Story1	W183	49		49	29,7	1,41	1,99
Story1	W184	53		53	30,45	1,9	6,76

TABLE: Element Forces - Area Shells							
Story	Shell Object	Unique Name	Design Type	Shell Element	F22	M22	V23
Story1	W185	54	EJE H	54	29,8	2,16	4,01
Story1	W186	55		55	23,33	1,8	3,66
Story1	W187	59		59	22,82	4,22	14,54
Story1	W188	60	EJE I	60	12,29	1,59	2,42
Story1	W189	61		61	9,78	1,46	2,12
Story1	W190	65		65	9,82	1,95	7,38

CHEQUEO DE ACERO LONGITUDINAL DE MUROS EN MAMPOSTERIA DE PERFORACIÓN VERTICAL							
Propiedades de materiales				Propiedades del muro EJE A			
Resistencia a la compresión de la mampostería f'm=	7,707	Mpa		Momento último Mu=	1,95	Kn-m	
Resistencia del acero fy=	420	MPa		Cortante último Vu=	7,38	Kn	
B1=	0,85			Fuerza Axial Pu=	12,29	Kn	
Modulo de elasticidad de mampostería Em=	6936,3	Mpa		Longitud=	2,83	m	
Modulo de elasticidad del acero Es=	200000	Mpa		Ancho b=	0,14	m	
				Longitud d=	2,73	m	
				Altura=	1,36	m	
				Area de acero=	2,13	mm2	
$\rho_b = \frac{0,8 * f'm}{fy} * \beta_1 * \frac{\epsilon_m}{\epsilon_m + \epsilon_s} = 0,00734$				0,75 * ρ_b = 0,005505			
$\rho = \left(1 - \sqrt{1 - \frac{2,5 * Mu}{0,8 * f'm * b * d^2}} \right) * \frac{f'm}{1,25 * fy} = 5,5632E-06$				$\rho_{diseño} = 5,5632E-06$			

CHEQUEO DE ACERO LONGITUDINAL DE MUROS EN MAMPOSTERIA DE PERFORACIÓN VERTICAL							
Propiedades de materiales				Propiedades del muro EJE B			
Resistencia a la compresión de la mampostería f'm=	7,707	Mpa		Momento último Mu=	4,22	Kn-m	
Resistencia del acero fy=	420	MPa		Cortante último Vu=	14,54	Kn	
B1=	0,85			Fuerza Axial Pu=	23,33	Kn	
Modulo de elasticidad de mampostería Em=	6936,3	Mpa		Longitud=	2,83	m	
Modulo de elasticidad del acero Es=	200000	Mpa		Ancho b=	0,14	m	
				Longitud d=	2,73	m	
				Altura=	1,36	m	
				Area de acero=	4,60	mm2	

$\rho_b = \frac{0,8 * f'm}{f_y} * \beta_1 * \frac{\epsilon_m}{\epsilon_m + \epsilon_s} = 0,00734$			$0,75 * \rho_b = 0,005505$
$\rho = \left(1 - \sqrt{1 - \frac{2,5 * Mu}{0,8 * f'm * b * d^2}} \right) * \frac{f'm}{1,25 * f_y} = 1,2042E-05$			$\rho_{diseño} = 1,2042E-05$

CHEQUEO DE ACERO LONGITUDINAL DE MUROS EN MAMPOSTERIA DE PERFORACIÓN VERTICAL			
Propiedades de materiales		Propiedades del muro EJE C	
Resistencia a la compresión de la mampostería f'm=	7,707 Mpa	Momento último Mu=	1,90 Kn-m
Resistencia del acero fy=	420 MPa	Cortante último Vu=	6,76 Kn
B1=	0,85	Fuerza Axial Pu=	46,16 Kn
Modulo de elasticidad de mampostería Em=	6936,3 Mpa	Longitud=	2,83 m
Modulo de elasticidad del acero Es=	200000 Mpa	Ancho b=	0,14 m
		Longitud d=	2,73 m
		Altura=	1,36 m
		Area de acero=	2,07 mm2
$\rho_b = \frac{0,8 * f'm}{f_y} * \beta_1 * \frac{\epsilon_m}{\epsilon_m + \epsilon_s} = 0,00734$			$0,75 * \rho_b = 0,005505$
$\rho = \left(1 - \sqrt{1 - \frac{2,5 * Mu}{0,8 * f'm * b * d^2}} \right) * \frac{f'm}{1,25 * f_y} = 5,42052E-06$			$\rho_{diseño} = 5,4205E-06$

CHEQUEO DE ACERO LONGITUDINAL DE MUROS EN MAMPOSTERIA DE PERFORACIÓN VERTICAL			
Propiedades de materiales		Propiedades del muro EJE D	
Resistencia a la compresión de la mampostería f'm=	7,707 Mpa	Momento último Mu=	1,48 Kn-m
Resistencia del acero fy=	420 MPa	Cortante último Vu=	6,76 Kn
B1=	0,85	Fuerza Axial Pu=	46,76 Kn
Modulo de elasticidad de mampostería Em=	6936,3 Mpa	Longitud=	2,83 m
Modulo de elasticidad del acero Es=	200000 Mpa	Ancho b=	0,14 m
		Longitud d=	2,73 m
		Altura=	1,36 m
		Area de acero=	1,61 mm2
$\rho_b = \frac{0,8 * f'm}{f_y} * \beta_1 * \frac{\epsilon_m}{\epsilon_m + \epsilon_s} = 0,00734$			$0,75 * \rho_b = 0,005505$
$\rho = \left(1 - \sqrt{1 - \frac{2,5 * Mu}{0,8 * f'm * b * d^2}} \right) * \frac{f'm}{1,25 * f_y} = 4,22213E-06$			$\rho_{diseño} = 4,2221E-06$

CHEQUEO DE ACERO LONGITUDINAL DE MUROS EN MAMPOSTERIA DE PERFORACIÓN VERTICAL			
Propiedades de materiales		Propiedades del muro EJE E	
Resistencia a la compresión de la mampostería f'm=	7,707 Mpa	Momento último Mu=	1,78 Kn-m
Resistencia del acero fy=	420 MPa	Cortante último Vu=	6,15 Kn
B1=	0,85	Fuerza Axial Pu=	48,6 Kn
Modulo de elasticidad de mampostería Em=	6936,3 Mpa	Longitud=	1,83 m
Modulo de elasticidad del acero Es=	200000 Mpa	Ancho b=	0,14 m
		Longitud d=	1,73 m
		Altura=	1,36 m
		Area de acero=	3,06 mm2

$$\rho_b = \frac{0,8 * f_m}{f_y} * \beta_1 * \frac{\varepsilon_m}{\varepsilon_m + \varepsilon_s} = 0,00734 \quad 0,75 * \rho_b = 0,005505$$

$$\rho = \left(1 - \sqrt{1 - \frac{2,5 * M_u}{0,8 * f_m * b * d^2}} \right) * \frac{f_m}{1,25 * f_y} = 1,26488E-05 \quad \rho_{diseño} = 1,2649E-05$$

CHEQUEO DE ACERO LONGITUDINAL DE MUROS EN MAMPOSTERIA DE PERFORACIÓN VERTICAL			
Propiedades de materiales		Propiedades del muro EJE F	
Resistencia a la compresión de la mampostería f'm=	7,707 Mpa	Momento último Mu=	1,90 Kn-m
Resistencia del acero fy=	420 MPa	Cortante último Vu=	6,96 Kn
B1=	0,85	Fuerza Axial Pu=	46,76 Kn
Modulo de elasticidad de mampostería Em=	6936,3 Mpa	Longitud=	2,83 m
Modulo de elasticidad del acero Es=	200000 Mpa	Ancho b=	0,14 m
		Longitud d=	2,73 m
		Altura=	1,36 m
		Area de acero=	2,07 mm2

$$\rho_b = \frac{0,8 * f_m}{f_y} * \beta_1 * \frac{\varepsilon_m}{\varepsilon_m + \varepsilon_s} = 0,00734 \quad 0,75 * \rho_b = 0,005505$$

$$\rho = \left(1 - \sqrt{1 - \frac{2,5 * M_u}{0,8 * f_m * b * d^2}} \right) * \frac{f_m}{1,25 * f_y} = 5,42052E-06 \quad \rho_{diseño} = 5,4205E-06$$

CHEQUEO DE ACERO LONGITUDINAL DE MUROS EN MAMPOSTERIA DE PERFORACIÓN VERTICAL			
Propiedades de materiales		Propiedades del muro EJE G	
Resistencia a la compresión de la mampostería f'm=	7,707 Mpa	Momento último Mu=	1,90 Kn-m
Resistencia del acero fy=	420 MPa	Cortante último Vu=	6,76 Kn
B1=	0,85	Fuerza Axial Pu=	46,16 Kn
Modulo de elasticidad de mampostería Em=	6936,3 Mpa	Longitud=	2,83 m
Modulo de elasticidad del acero Es=	200000 Mpa	Ancho b=	0,14 m
		Longitud d=	2,73 m
		Altura=	1,36 m
		Area de acero=	2,07 mm2

$$\rho_b = \frac{0,8 * f_m}{f_y} * \beta_1 * \frac{\varepsilon_m}{\varepsilon_m + \varepsilon_s} = 0,00734 \quad 0,75 * \rho_b = 0,005505$$

$$\rho = \left(1 - \sqrt{1 - \frac{2,5 * M_u}{0,8 * f_m * b * d^2}} \right) * \frac{f_m}{1,25 * f_y} = 5,42052E-06 \quad \rho_{diseño} = 5,4205E-06$$

CHEQUEO DE ACERO LONGITUDINAL DE MUROS EN MAMPOSTERIA DE PERFORACIÓN VERTICAL			
Propiedades de materiales		Propiedades del muro EJE H	
Resistencia a la compresión de la mampostería f'm=	7,707 Mpa	Momento último Mu=	4,22 Kn-m
Resistencia del acero fy=	420 MPa	Cortante último Vu=	14,54 Kn
B1=	0,85	Fuerza Axial Pu=	29,8 Kn
Modulo de elasticidad de mampostería Em=	6936,3 Mpa	Longitud=	2,83 m
Modulo de elasticidad del acero Es=	200000 Mpa	Ancho b=	0,14 m
		Longitud d=	2,73 m
		Altura=	1,36 m

Area de acero=		4,60	mm2
$\rho_b = \frac{0,8 * f'm}{f_y} * \beta_1 * \frac{\epsilon_m}{\epsilon_m + \epsilon_s} =$		0,00734	0,75 * ρ_b = 0,005505
$\rho = \left(1 - \sqrt{1 - \frac{2,5 * Mu}{0,8 * f'm * b * d^2}} \right) * \frac{f'm}{1,25 * f_y} =$		1,2042E-05	$\rho_{diseño} =$ 1,2042E-05

CHEQUEO DE ACERO LONGITUDINAL DE MUROS EN MAMPOSTERIA DE PERFORACIÓN VERTICAL			
Propiedades de materiales		Propiedades del muro EJE I	
Resistencia a la compresión de la mampostería f'm=	7,707 Mpa	Momento último Mu=	1,95 Kn-m
Resistencia del acero fy=	420 MPa	Cortante último Vu=	7,38 Kn
B1=	0,85	Fuerza Axial Pu=	12,29 Kn
Modulo de elasticidad de mampostería Em=	6936,3 Mpa	Longitud=	2,83 m
Modulo de elasticidad del acero Es=	200000 Mpa	Ancho b=	0,14 m
		Longitud d=	2,73 m
		Altura=	1,36 m
		Area de acero=	2,13 mm2
$\rho_b = \frac{0,8 * f'm}{f_y} * \beta_1 * \frac{\epsilon_m}{\epsilon_m + \epsilon_s} =$		0,00734	0,75 * ρ_b = 0,005505
$\rho = \left(1 - \sqrt{1 - \frac{2,5 * Mu}{0,8 * f'm * b * d^2}} \right) * \frac{f'm}{1,25 * f_y} =$		5,5632E-06	$\rho_{diseño} =$ 5,5632E-06

b. Cargas para diseño de elementos de cimentación

TABLE: Joint Reactions							
Story	Label	Output Case	Case Type	Step Type	FZ	MX	MY
					kN	kN-m	kN-m
Base	9	Live	LinStatic		1,27	-0,01	-0,06
Base	9	SX	LinRespSpec	Max	2,05	0,06	0,72
Base	9	SY	LinRespSpec	Max	0,49	0,01	0,04
Base	9	CIM 1.0D	Combination		1,51	0,00	-0,04
Base	399	Live	LinStatic		7,75	-0,07	0,17
Base	399	SX	LinRespSpec	Max	1,60	0,01	1,28
Base	399	SY	LinRespSpec	Max	0,42	0,06	0,05
Base	399	CIM 1.0D	Combination		7,79	-0,04	0,12
Base	401	Live	LinStatic		4,08	0,05	0,11
Base	401	SX	LinRespSpec	Max	0,42	0,01	0,62
Base	401	SY	LinRespSpec	Max	2,25	0,03	0,04
Base	401	CIM 1.0D	Combination		4,22	0,04	0,08
Base	412	Live	LinStatic		5,45	0,09	-0,01
Base	412	SX	LinRespSpec	Max	0,10	0,00	0,57
Base	412	SY	LinRespSpec	Max	5,24	0,06	0,03
Base	412	CIM 1.0D	Combination		5,16	0,07	-0,01

Base	413	Live	LinStatic		10,35	-0,15	-0,01
Base	413	SX	LinRespSpec	Max	0,05	0,00	1,19

TABLE: Joint Reactions							
Story	Label	Output Case	Case Type	Step Type	FZ	MX	MY
					kN	kN-m	kN-m
Base	413	SY	LinRespSpec	Max	0,76	0,15	0,05
Base	413	CIM 1.0D	Combination		9,55	-0,10	-0,01
Base	422	Live	LinStatic		1,68	0,00	-0,04
Base	422	SX	LinRespSpec	Max	1,79	0,10	1,21
Base	422	SY	LinRespSpec	Max	0,23	0,04	0,05
Base	422	CIM 1.0D	Combination		3,65	0,01	-0,03
Base	425	Live	LinStatic		0,58	-0,01	-0,03
Base	425	SX	LinRespSpec	Max	0,55	0,01	0,57
Base	425	SY	LinRespSpec	Max	1,51	0,02	0,05
Base	425	CIM 1.0D	Combination		1,84	0,00	-0,02
Base	429	Live	LinStatic		10,27	-0,13	-0,03
Base	429	SX	LinRespSpec	Max	0,15	0,01	1,17
Base	429	SY	LinRespSpec	Max	0,76	0,13	0,03
Base	429	CIM 1.0D	Combination		9,50	-0,09	-0,02
Base	431	Live	LinStatic		5,60	0,09	-0,02
Base	431	SX	LinRespSpec	Max	0,60	0,01	0,56
Base	431	SY	LinRespSpec	Max	4,67	0,05	0,03
Base	431	CIM 1.0D	Combination		5,26	0,07	-0,01
Base	439	Live	LinStatic		10,27	-0,13	0,03
Base	439	SX	LinRespSpec	Max	0,15	0,01	1,17
Base	439	SY	LinRespSpec	Max	0,76	0,13	0,03
Base	439	CIM 1.0D	Combination		9,50	-0,09	0,02
Base	442	Live	LinStatic		5,60	0,09	0,02
Base	442	SX	LinRespSpec	Max	0,60	0,01	0,56
Base	442	SY	LinRespSpec	Max	4,67	0,05	0,03
Base	442	CIM 1.0D	Combination		5,26	0,07	0,01
Base	449	Live	LinStatic		2,21	-0,02	-0,06
Base	449	SX	LinRespSpec	Max	3,18	0,02	1,22
Base	449	SY	LinRespSpec	Max	1,06	0,03	0,06
Base	449	CIM 1.0D	Combination		3,30	-0,02	-0,04
Base	450	Live	LinStatic		4,59	-0,08	0,23
Base	450	SX	LinRespSpec	Max	1,12	0,01	0,80
Base	450	SY	LinRespSpec	Max	0,98	0,03	0,05
Base	450	CIM 1.0D	Combination		3,76	-0,06	0,16
Base	451	Live	LinStatic		8,43	0,11	0,22
Base	451	SX	LinRespSpec	Max	2,09	0,03	1,28

TABLE: Joint Reactions							
Story	Label	Output Case	Case Type	Step Type	FZ	MX	MY
					kN	kN-m	kN-m
Base	451	SY	LinRespSpec	Max	1,53	0,05	0,07
Base	451	CIM 1.0D	Combination		7,53	0,08	0,15
Base	452	Live	LinStatic		6,16	-0,15	-0,03
Base	452	SX	LinRespSpec	Max	0,25	0,01	0,75
Base	452	SY	LinRespSpec	Max	1,93	0,06	0,03
Base	452	CIM 1.0D	Combination		4,84	-0,10	-0,02
Base	453	Live	LinStatic		11,11	0,22	-0,05
Base	453	SX	LinRespSpec	Max	0,35	0,02	1,18
Base	453	SY	LinRespSpec	Max	3,32	0,10	0,05
Base	453	CIM 1.0D	Combination		9,35	0,15	-0,03
Base	457	Live	LinStatic		11,43	0,22	-0,02
Base	457	SX	LinRespSpec	Max	0,10	0,00	1,21
Base	457	SY	LinRespSpec	Max	3,73	0,11	0,04
Base	457	CIM 1.0D	Combination		9,57	0,15	-0,01
Base	458	Live	LinStatic		11,11	0,22	0,05
Base	458	SX	LinRespSpec	Max	0,35	0,02	1,18
Base	458	SY	LinRespSpec	Max	3,32	0,10	0,05
Base	458	CIM 1.0D	Combination		9,35	0,15	0,03
Base	459	Live	LinStatic		6,41	-0,17	-0,02
Base	459	SX	LinRespSpec	Max	0,04	0,00	0,76
Base	459	SY	LinRespSpec	Max	2,11	0,07	0,02
Base	459	CIM 1.0D	Combination		5,01	-0,11	-0,01
Base	460	Live	LinStatic		6,16	-0,15	0,03
Base	460	SX	LinRespSpec	Max	0,25	0,01	0,75
Base	460	SY	LinRespSpec	Max	1,93	0,06	0,03
Base	460	CIM 1.0D	Combination		4,84	-0,10	0,02
Base	471	Live	LinStatic		10,35	-0,15	0,01
Base	471	SX	LinRespSpec	Max	0,05	0,00	1,19
Base	471	SY	LinRespSpec	Max	0,76	0,15	0,05
Base	471	CIM 1.0D	Combination		9,55	-0,10	0,01
Base	472	Live	LinStatic		5,45	0,09	0,01
Base	472	SX	LinRespSpec	Max	0,10	0,00	0,57
Base	472	SY	LinRespSpec	Max	5,24	0,06	0,03
Base	472	CIM 1.0D	Combination		5,16	0,07	0,01
Base	473	Live	LinStatic		11,43	0,22	0,02
Base	473	SX	LinRespSpec	Max	0,10	0,00	1,21

TABLE: Joint Reactions							
Story	Label	Output Case	Case Type	Step Type	FZ	MX	MY
					kN	kN-m	kN-m
Base	473	SY	LinRespSpec	Max	3,73	0,11	0,04
Base	473	CIM 1.0D	Combination		9,57	0,15	0,01
Base	474	Live	LinStatic		6,41	-0,17	0,02
Base	474	SX	LinRespSpec	Max	0,04	0,00	0,76
Base	474	SY	LinRespSpec	Max	2,11	0,07	0,02
Base	474	CIM 1.0D	Combination		5,01	-0,11	0,01
Base	475	Live	LinStatic		10,64	-0,16	0,00
Base	475	SX	LinRespSpec	Max	0,00	0,00	1,19
Base	475	SY	LinRespSpec	Max	0,78	0,16	0,00
Base	475	CIM 1.0D	Combination		9,75	-0,10	0,00
Base	476	Live	LinStatic		5,63	0,10	0,00
Base	476	SX	LinRespSpec	Max	0,00	0,00	0,57
Base	476	SY	LinRespSpec	Max	5,53	0,06	0,00
Base	476	CIM 1.0D	Combination		5,28	0,07	0,00
Base	477	Live	LinStatic		11,69	0,24	0,00
Base	477	SX	LinRespSpec	Max	0,00	0,00	1,22
Base	477	SY	LinRespSpec	Max	3,91	0,11	0,00
Base	477	CIM 1.0D	Combination		9,75	0,17	0,00
Base	479	Live	LinStatic		7,75	-0,07	-0,17
Base	479	SX	LinRespSpec	Max	1,60	0,01	1,28
Base	479	SY	LinRespSpec	Max	0,42	0,06	0,05
Base	479	CIM 1.0D	Combination		7,79	-0,04	-0,12
Base	480	Live	LinStatic		4,08	0,05	-0,11
Base	480	SX	LinRespSpec	Max	0,42	0,01	0,62
Base	480	SY	LinRespSpec	Max	2,25	0,03	0,04
Base	480	CIM 1.0D	Combination		4,22	0,04	-0,08
Base	481	Live	LinStatic		8,43	0,11	-0,22
Base	481	SX	LinRespSpec	Max	2,09	0,03	1,28
Base	481	SY	LinRespSpec	Max	1,53	0,05	0,07
Base	481	CIM 1.0D	Combination		7,53	0,08	-0,15
Base	482	Live	LinStatic		4,59	-0,08	-0,23
Base	482	SX	LinRespSpec	Max	1,12	0,01	0,80
Base	482	SY	LinRespSpec	Max	0,98	0,03	0,05
Base	482	CIM 1.0D	Combination		3,76	-0,06	-0,16
Base	483	Live	LinStatic		1,68	0,00	0,04
Base	483	SX	LinRespSpec	Max	1,79	0,10	1,21

TABLE: Joint Reactions

Story	Label	Output Case	Case Type	Step Type	FZ	MX	MY
					kN	kN-m	kN-m
Base	483	SY	LinRespSpec	Max	0,23	0,04	0,05
Base	483	CIM 1.0D	Combination		3,65	0,01	0,03
Base	484	Live	LinStatic		0,58	-0,01	0,03
Base	484	SX	LinRespSpec	Max	0,55	0,01	0,57
Base	484	SY	LinRespSpec	Max	1,51	0,02	0,05
Base	484	CIM 1.0D	Combination		1,84	0,00	0,02
Base	485	Live	LinStatic		2,21	-0,02	0,06
Base	485	SX	LinRespSpec	Max	3,18	0,02	1,22
Base	485	SY	LinRespSpec	Max	1,06	0,03	0,06
Base	485	CIM 1.0D	Combination		3,30	-0,02	0,04
Base	486	Live	LinStatic		1,27	-0,01	0,06
Base	486	SX	LinRespSpec	Max	2,05	0,06	0,72
Base	486	SY	LinRespSpec	Max	0,49	0,01	0,04
Base	486	CIM 1.0D	Combination		1,51	0,00	0,04

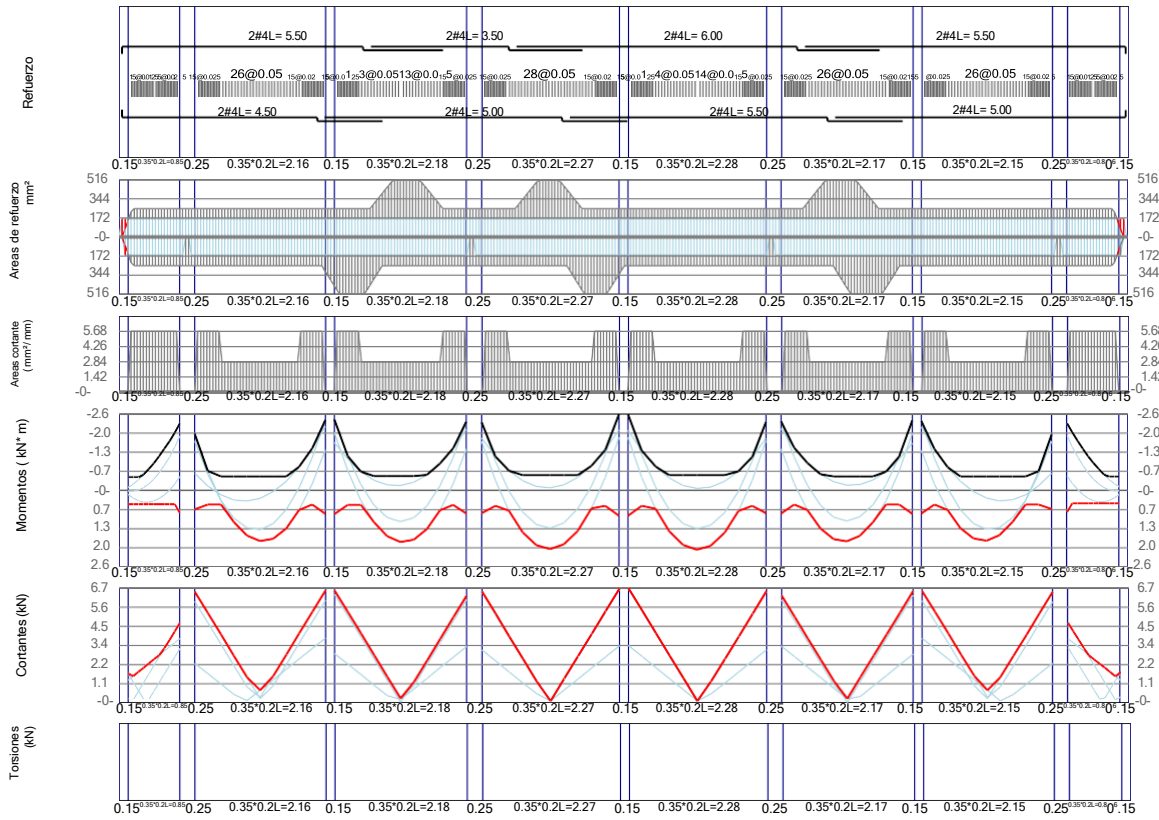

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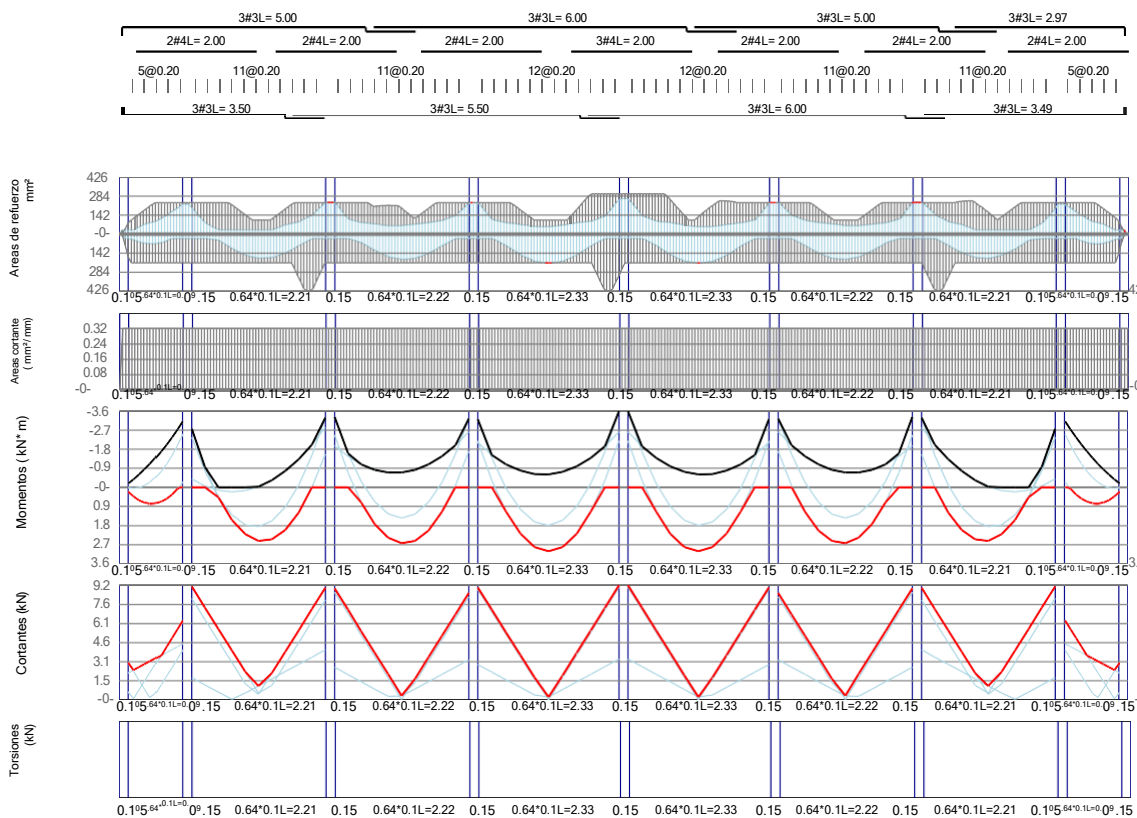
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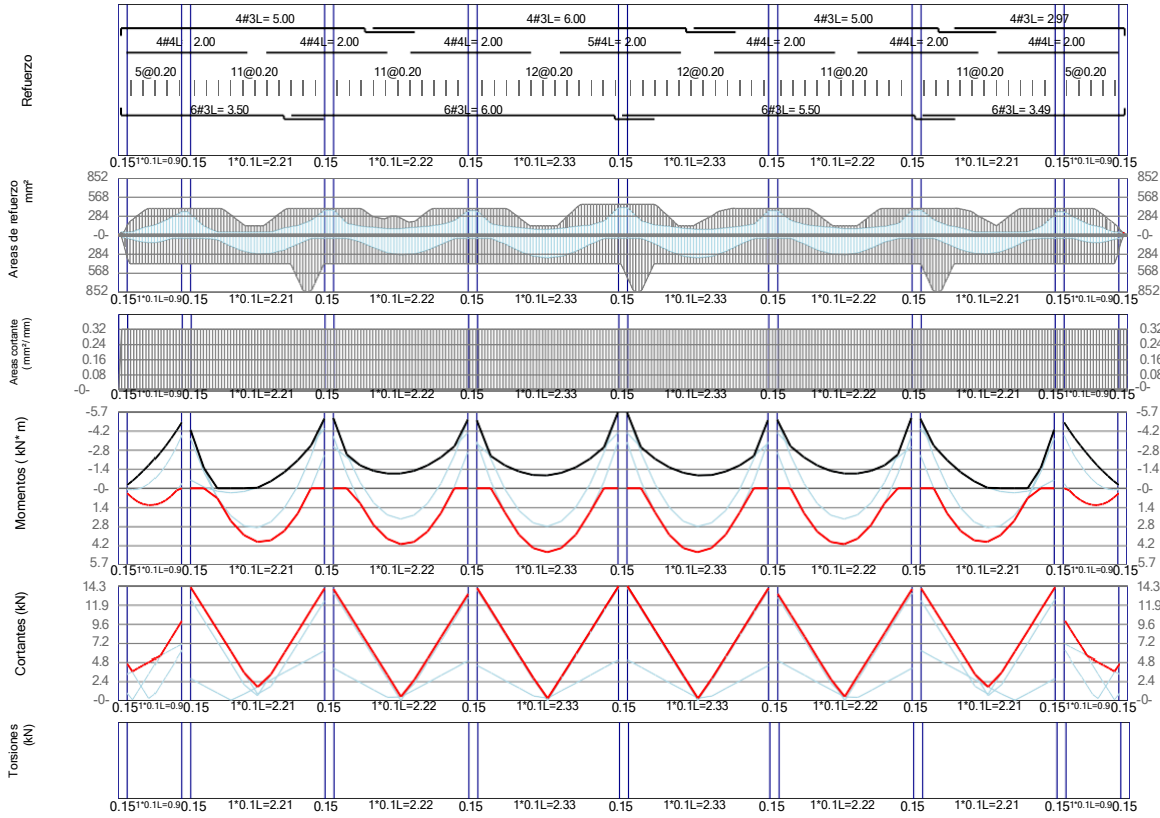
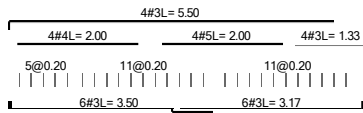
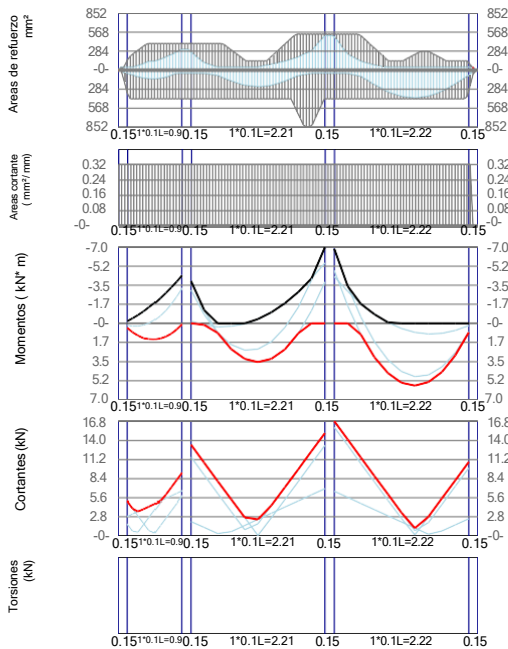
VigaLosa / Viguetas



Reinforcement



Loseta2 / Viguetas



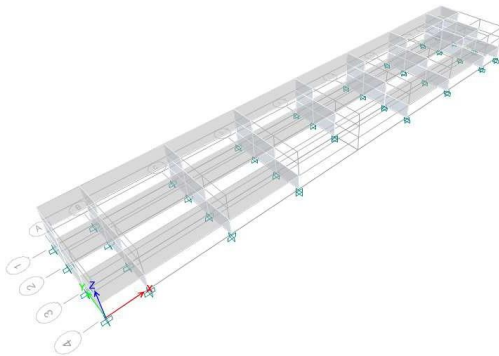
1 Structure Data

This chapter provides model geometry information, including items such as story levels, point coordinates, and element connectivity.

1.1 Story Data

Table 1.1 - Story Definitions

Tower	Name	Height m	Master Story	Similar To	Splice Story	Splice Height m	Color
T1	Story3	0,43	Yes	None	No		Gray&Dark
T1	Story2	0,43	Yes	None	No		Gray&Dark
T1	Story1	0,5	No	Story2	No		Blue



Summary Report

Model File: CafeteriaAstrea, Revision 0

ETABS v20.1.0

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Loads

2 Loads

This chapter provides loading information as applied to the model.

2.1 Load Patterns

Table 2.1 - Load Pattern Definitions

Name	Is Auto Load	Type	Self Weight Multiplier	Auto Load
~LLRF	Yes	Other	0	
D	No	Dead	1	
DS	No	Super Dead	0	
L	No	Live	0	
SX	No	Seismic	0	User Coefficient
SY	No	Seismic	0	User Coefficient
W1	No	Wind	0	None
W2	No	Wind	0	None

2.2 Functions

2.2.1 Response Spectrum Functions

Table 2.2 - Functions - Response Spectrum - Columbia NSR-10

Name	Period sec	Value	Aa	Av	Ae	Ad	Group of Use	Fa	Fv	Damping Ratio
Santa Marta	0	0,61875	0,15	0,1	0,1	0,04	2	1,5	2,4	0,05
Santa Marta	0,1	0,61875								
Santa Marta	0,2	0,61875								
Santa Marta	0,3	0,61875								
Santa Marta	0,4	0,61875								
Santa Marta	0,5	0,61875								
Santa Marta	0,6	0,528								
Santa Marta	0,7	0,452571								
Santa Marta	0,8	0,396								
Santa Marta	0,9	0,352								
Santa Marta	1	0,3168								
Santa Marta	1,2	0,264								
Santa Marta	1,5	0,2112								
Santa Marta	1,7	0,186353								
Santa Marta	2	0,1584								
Santa Marta	2,5	0,12672								
Santa Marta	3	0,1056								
Santa Marta	3,5	0,090514								
Santa Marta	4	0,0792								
Santa Marta	5	0,06336								
Santa Marta	8	0,028512								
Santa Marta	11	0,015081								
Santa Marta	15	0,00811								

2.3 Load Cases

Table 2.3 - Load Case Definitions - Summary

Name	Type	Notes
Modal	Modal - Eigen	
Dead	Linear Static	

Loads

Name	Type	Notes
Live	Linear Static	
SX	Response Spectrum	
SY	Response Spectrum	
SXEST	Linear Static	
SYEST	Linear Static	
DS	Linear Static	
W1	Linear Static	
W2	Linear Static	

3 Analysis Results

This chapter provides analysis results.

3.1 Structure Results

Table 3.1 - Base Reactions (Part 1 of 2)

Output Case	Case Type	Step Type	Step Number	Step Label	FX tonf	FY tonf	FZ tonf	MX tonf-m
Dead	LinStatic				0	0	15.79	25.27
Live	LinStatic				0	0	20.9	31.84
SK	LinRespSpec	Max			11.38	1,131E-05	0	5,755E-06
SY	LinRespSpec	Max			4,825E-06	11.1	0	11.74
SWEST	LinStatic				-12.4	0	0	0
SYEST	LinStatic				0	-12.4	0	9.83
DS	LinStatic				0	0	41.8	6.37
W1	LinStatic				0	0	0	0
W2	LinStatic				0	0	0	0
ELS 1.0D	Combination				0	0	19.97	31.63
ELS 1.0D+1.0L	Combination				0	0	40.86	63.47
ELS 1.0D+0.75L	Combination				0	0	35.64	55.51
ELS 1.0D+0.75K	Combination	Max			7.97	7,915E-06	19.97	31.63
ELS 1.0D+0.75Y	Combination	Min			-7.97	-7,915E-06	19.97	31.63
ELS 1.0D+0.75Y	Combination	Max			3,377E-06	7.77	19.97	39.85
ELS 1.0D+0.75Y	Combination	Min			-3,377E-06	-7.77	19.97	23.42
ELS 1.0D+0.75L+0.5Z5SX	Combination	Max			5.97	5,936E-06	35.64	55.51
ELS 1.0D+0.75L+0.5Z5SX	Combination	Min			-5.97	-5,936E-06	35.64	55.51
ELS 1.0D+0.75L+0.5Z5SY	Combination	Max			2,533E-06	5.83	35.64	61.68
ELS 1.0D+0.75L+0.5Z5SY	Combination	Min			-2,533E-06	-5.83	35.64	49.35
ELS 0.6D+0.75K	Combination	Max			7.97	7,915E-06	11.98	18.98
ELS 0.6D+0.75K	Combination	Min			-7.97	-7,915E-06	11.98	18.98
ELS 0.6D+0.75Y	Combination	Max			3,377E-06	7.77	11.98	27.2
ELS 0.6D+0.75Y	Combination	Min			-3,377E-06	-7.77	11.98	10.76
ELU 1.4D	Combination				0	0	27.95	44.29
ELU 1.2D+1.6L	Combination				0	0	57.39	88.9
ELU 1.2D+1.0L+1.0SX+0.3SY	Combination	Max			11.38	3.33	44.85	73.32
ELU 1.2D+1.0L+1.0SX+0.3SY	Combination	Min			-11.38	-3.33	44.85	66.28
ELU 1.2D+1.0L+1.0SY+0.3SX	Combination	Max			3.41	11.1	44.85	81.54
ELU 1.2D+1.0L+1.0SY+0.3SX	Combination	Min			-3.41	-11.1	44.85	58.06
ELU 1.2D+1.0L+1.0SX+0.3SY	Combination	Max			11.38	3.33	44.85	73.32
ELU 1.2D+1.0L+1.0SX+0.3SY	Combination	Min			-11.38	-3.33	44.85	66.28
ELU 1.2D+1.0L+1.0SY+0.3SX	Combination	Max			3.41	11.1	44.85	81.54
ELU 1.2D+1.0L+1.0SY+0.3SX	Combination	Min			-3.41	-11.1	44.85	58.06
ELU 1.2D+1.0L+1.0SY+0.3SX	Combination	Max			11.38	3.33	44.85	73.32
ELU 1.2D+1.0L+1.0SY+0.3SX	Combination	Min			-11.38	-3.33	44.85	66.28
ELU 1.2D+1.0L+1.0SY+0.3SX	Combination	Max			3.41	11.1	44.85	81.54
ELU 1.2D+1.0L+1.0SY+0.3SX	Combination	Min			-3.41	-11.1	44.85	58.06
ELU 0.9D	Combination				0	0	17.97	28.47
ELU 0.9D+1.0SX+0.3SY	Combination	Max			11.38	3.33	17.97	31.99
ELU 0.9D+1.0SX+0.3SY	Combination	Min			-11.38	-3.33	17.97	24.95
ELU 0.9D+1.0SY+0.3SX	Combination	Max			3.41	11.1	17.97	40.21
ELU 0.9D+1.0SY+0.3SX	Combination	Min			-3.41	-11.1	17.97	16.73
ELU 0.9D+1.0SX+0.3SY	Combination	Max			11.38	3.33	17.97	31.99
ELU 0.9D+1.0SX+0.3SY	Combination	Min			-11.38	-3.33	17.97	24.95

Analysis Results

Output Case	Case Type	Step Type	Step Number	Step Label	FX tonf	FY tonf	FZ tonf	MX tonf-m
ELU 0.9D+1.0SY+0.3SX	Combination	Max			3.41	11.1	17.97	40.21
ELU 0.9D+1.0SY+0.3SX	Combination	Min			-3.41	-11.1	17.97	16.73
ELU 0.9D+1.0SX+0.3SY	Combination	Max			11.38	3.33	17.97	31.99
ELU 0.9D+1.0SX+0.3SY	Combination	Min			-11.38	-3.33	17.97	24.95
ELU 0.9D+1.0SY+0.3SX	Combination	Max			3.41	11.1	17.97	40.21
ELU 0.9D+1.0SY+0.3SX	Combination	Min			-3.41	-11.1	17.97	16.73
ELU 0.9D+1.0SX+0.3SY	Combination	Max			11.38	3.33	17.97	31.99
ELU 0.9D+1.0SX+0.3SY	Combination	Min			-11.38	-3.33	17.97	24.95
ELU 0.9D+1.0SY+0.3SX	Combination	Max			3.41	11.1	17.97	40.21
ELU 0.9D+1.0SY+0.3SX	Combination	Min			-3.41	-11.1	17.97	16.73
CIM 1.0D	Combination				0	0	19.97	31.63
CIM 1.0D+1.0L	Combination				0	0	40.86	63.47
CIM 0.6D	Combination				0	0	11.98	18.98
CIM 0.6D+0.75K	Combination	Max			7.97	7,915E-06	11.98	18.98
CIM 0.6D+0.75K	Combination	Min			-7.97	-7,915E-06	11.98	18.98
CIM 0.6D+0.75Y	Combination	Max			3,377E-06	7.77	11.98	27.2
CIM 0.6D+0.75Y	Combination	Min			-3,377E-06	-7.77	11.98	10.76
CIM 1.0D+0.75K	Combination	Max			7.97	7,915E-06	19.97	31.63
CIM 1.0D+0.75K	Combination	Min			-7.97	-7,915E-06	19.97	31.63
CIM 1.0D+0.75Y	Combination	Max			3,377E-06	7.77	19.97	39.85
CIM 1.0D+0.75Y	Combination	Min			-3,377E-06	-7.77	19.97	23.42
CIM 1.0D+0.75L+0.5SX	Combination	Max			5.69	5,654E-06	35.64	55.51
CIM 1.0D+0.75L+0.5SX	Combination	Min			-5.69	-5,654E-06	35.64	55.51
CIM 1.0D+0.75L+0.5SY	Combination	Max			2,412E-06	5.55	35.64	61.38
CIM 1.0D+0.75L+0.5SY	Combination	Min			-2,412E-06	-5.55	35.64	49.64
DES 1.0D+1.0SX	Combination	Max			11.38	1,131E-05	19.97	31.63
DES 1.0D+1.0SX	Combination	Min			-11.38	-1,131E-05	19.97	31.63
DES 1.0D+1.0SY	Combination	Max			4,825E-06	11.1	19.97	43.38
DES 1.0D+1.0SY	Combination	Min			-4,825E-06	-11.1	19.97	19.89
DES 1.0D+0.75L+0.75SX	Combination	Max			8.53	8,48E-06	35.64	55.51
DES 1.0D+0.75L+0.75SX	Combination	Min			-8.53	-8,48E-06	35.64	55.51
DES 1.0D+0.75L+0.75SY	Combination	Max			3,619E-06	8.32	35.64	64.32
DES 1.0D+0.75L+0.75SY	Combination	Min			-3,619E-06	-8.32	35.64	46.71
DES 0.6D+1.0SX	Combination	Max			11.38	1,131E-05	11.98	18.98
DES 0.6D+1.0SX	Combination	Min			-11.38	-1,131E-05	11.98	18.98
DES 0.6D+1.0SY	Combination	Max			4,825E-06	11.1	11.98	30.72
DES 0.6D+1.0SY	Combination	Min			-4,825E-06	-11.1	11.98	7.24
ELS 1.0D+1.0W1	Combination				0	0	19.97	31.63
ELS 1.0D+1.0W2	Combination				0	0	19.97	31.63
ELS 1.0D+0.75W1+0.75L	Combination				0	0	35.64	55.51
ELS 1.0D+0.75W2+0.75L	Combination				0	0	35.64	55.51
ELS 0.6D+1.0W1	Combination				0	0	11.98	18.98
ELS 0.6D+1.0W2	Combination				0	0	11.98	18.98
ELU 1.2D+0.8W1	Combination				0	0	23.96	37.96
ELU 1.2D+0.8W2	Combination				0	0	23.96	37.96
ELU 0.9D+1.6W1	Combination				0	0	17.97	28.47
ELU 0.9D+1.6W2	Combination				0	0	17.97	28.47
ELU 1.2D+1.6W1+1.0L	Combination				0	0	44.85	69.8
ELU 1.2D+1.6W2+1.0L	Combination				0	0	44.85	69.8
DSID1	Combination				0	0	19.97	31.63
DSID2	Combination				0	0	40.86	63.47

Table 3.1 - Base Reactions (Part 2 of 2)

MY tonf-m	MZ tonf-m	X m	Y m	Z m
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MY tonf-m	MZ tonf-m	X m	Y m	Z m
-130.4	0	0	0	0
-172.6	0	0	0	0
12.27	21.51	0	0	0
1,011E-06	91.67	0	0	0
-9.83	16.74	0	0	0
0	-102.43	0	0	0
-34.52	0	0	0	0
0	0	0	0	0
0	0	0	0	0
-164.92	0	0	0	0
-337.52	0	0	0	0
-294.37	0	0	0	0
-156.33	15.06	0	0	0
-173.5	-15.06	0	0	0
-164.92	64.17	0	0	0
-164.92	-64.17	0	0	0
-287.93	11.29	0	0	0
-300.81	-11.29	0	0	0
-294.37	48.13	0	0	0
-294.37	-48.13	0	0	0
-90.36	15.06	0	0	0
-107.54	-15.06	0	0	0
-98.95	64.17	0	0	0
-98.95	-64.17	0	0	0
-230.88	0	0	0	0
-474.06	0	0	0	0
-358.23	49.01	0	0	0
-382.77	-49.01	0	0	0
-366.82	98.13	0	0	0
-374.18	-98.13	0	0	0
-358.23	49.01	0	0	0
-382.77	-49.01	0	0	0
-366.82	98.13	0	0	0
-374.18	-98.13	0	0	0
-358.23	49.01	0	0	0
-382.77	-49.01	0	0	0
-366.82	98.13	0	0	0
-374.18	-98.13	0	0	0
-358.23	49.01	0	0	0
-382.77	-49.01	0	0	0
-366.82	98.13	0	0	0
-374.18	-98.13	0	0	0
-148.42	0	0	0	0
-136.16	49.01	0	0	0
-160.69	-49.01	0	0	0
-144.74	98.13	0	0	0
-152.11	-98.13	0	0	0
-136.16	49.01	0	0	0
-160.69	-49.01	0	0	0
-144.74	98.13	0	0	0
-152.11	-98.13	0	0	0

MY tonf-m	MZ tonf-m	X m	Y m	Z m
-136.16	49.01	0	0	0
-160.69	-49.01	0	0	0
-144.74	98.13	0	0	0
-152.11	-98.13	0	0	0
-164.92	0	0	0	0
-337.52	0	0	0	0
-98.95	0	0	0	0
-90.36	15.06	0	0	0
-107.54	-15.06	0	0	0
-98.95	64.17	0	0	0
-98.95	-64.17	0	0	0
-156.33	15.06	0	0	0
-173.5	-15.06	0	0	0
-164.92	64.17	0	0	0
-164.92	-64.17	0	0	0
-288.23	10.75	0	0	0
-300.5	-10.75	0	0	0
-294.37	45.84	0	0	0
-294.37	-45.84	0	0	0
-152.65	21.51	0	0	0
-177.18	-21.51	0	0	0
-164.92	91.67	0	0	0
-164.92	-91.67	0	0	0
-285.17	16.13	0	0	0
-303.57	-16.13	0	0	0
-294.37	68.75	0	0	0
-294.37	-68.75	0	0	0
-86.68	21.51	0	0	0
-111.22	-21.51	0	0	0
-98.95	91.67	0	0	0
-98.95	-91.67	0	0	0
-164.92	0	0	0	0
-164.92	0	0	0	0

SpecCase	ModalCase	Mode	Period sec	DampRatio	U1Acc m/sec2	U2Acc m/sec2	U3Acc m/sec2	U1Amp mm	U2Amp mm	U3Amp mm
SK	Modal	7	0.013	0.05	6.0638	0	0	0.002792	0	0
SK	Modal	8	0.013	0.05	6.0638	0	0	1.14E-10	0	0
SK	Modal	9	0.011	0.05	6.0638	0	0	0.03	0	0
SK	Modal	10	0.011	0.05	6.0638	0	0	2.986E-08	0	0
SK	Modal	11	0.01	0.05	6.0638	0	0	-2.456E-08	0	0
SK	Modal	12	0.009	0.05	6.0638	0	0	-0.000135	0	0
SK	Modal	13	0.009	0.05	6.0638	0	0	0.001356	0	0
SK	Modal	14	0.008	0.05	6.0638	0	0	-5.319E-09	0	0
SK	Modal	15	0.008	0.05	6.0638	0	0	0.001001	0	0
SK	Modal	16	0.008	0.05	6.0638	0	0	5.87E-09	0	0
SK	Modal	17	0.008	0.05	6.0638	0	0	0.0003466	0	0
SK	Modal	18	0.008	0.05	6.0638	0	0	-0.0001666	0	0
SK	Modal	19	0.008	0.05	6.0638	0	0	9.494E-09	0	0
SK	Modal	20	0.008	0.05	6.0638	0	0	-3.81E-08	0	0
SK	Modal	21	0.008	0.05	6.0638	0	0	0.0007472	0	0
SK	Modal	22	0.008	0.05	6.0638	0	0	-0.0001697	0	0
SK	Modal	23	0.007	0.05	6.0638	0	0	1.633E-08	0	0
SK	Modal	24	0.007	0.05	6.0638	0	0	1.618E-08	0	0
SK	Modal	25	0.007	0.05	6.0638	0	0	9.889E-05	0	0
SK	Modal	26	0.007	0.05	6.0638	0	0	9.342E-05	0	0
SK	Modal	27	0.007	0.05	6.0638	0	0	1.673E-08	0	0
SK	Modal	28	0.007	0.05	6.0638	0	0	0.003262	0	0
SK	Modal	29	0.007	0.05	6.0638	0	0	-0.00152	0	0
SK	Modal	30	0.007	0.05	6.0638	0	0	2.564E-08	0	0
SK	Modal	31	0.007	0.05	6.0638	0	0	-0.0005124	0	0
SK	Modal	32	0.007	0.05	6.0638	0	0	3.726E-09	0	0
SK	Modal	33	0.007	0.05	6.0638	0	0	0.001492	0	0
SK	Modal	34	0.006	0.05	6.0638	0	0	-3.861E-08	0	0
SK	Modal	35	0.006	0.05	6.0638	0	0	0.0001398	0	0
SK	Modal	36	0.006	0.05	6.0638	0	0	-2.16E-10	0	0
SK	Modal	37	0.006	0.05	6.0638	0	0	8.94E-06	0	0
SK	Modal	38	0.006	0.05	6.0638	0	0	1.214E-09	0	0
SK	Modal	39	0.005	0.05	6.0638	0	0	3.052E-09	0	0
SK	Modal	40	0.005	0.05	6.0638	0	0	0.0003397	0	0
SK	Modal	41	0.005	0.05	6.0638	0	0	-7.147E-09	0	0
SK	Modal	42	0.005	0.05	6.0638	0	0	-6.013E-09	0	0
SK	Modal	43	0.005	0.05	6.0638	0	0	-0.0001434	0	0
SK	Modal	44	0.005	0.05	6.0638	0	0	3.973E-09	0	0
SK	Modal	45	0.005	0.05	6.0638	0	0	0.0004166	0	0
SK	Modal	46	0.005	0.05	6.0638	0	0	-6.515E-06	0	0
SK	Modal	47	0.004	0.05	6.0638	0	0	2.485E-09	0	0
SK	Modal	48	0.004	0.05	6.0638	0	0	-0.0004016	0	0
SK	Modal	49	0.004	0.05	6.0638	0	0	5.501E-09	0	0
SK	Modal	50	0.004	0.05	6.0638	0	0	-0.0001042	0	0
SK	Modal	51	0.004	0.05	6.0638	0	0	2.676E-09	0	0
SK	Modal	52	0.004	0.05	6.0638	0	0	0.000517	0	0
SK	Modal	53	0.004	0.05	6.0638	0	0	0.0001717	0	0
SK	Modal	54	0.004	0.05	6.0638	0	0	3.245E-09	0	0
SK	Modal	55	0.004	0.05	6.0638	0	0	4.43E-09	0	0
SK	Modal	56	0.004	0.05	6.0638	0	0	-0.000391	0	0
SK	Modal	57	0.004	0.05	6.0638	0	0	-0.0008364	0	0
SK	Modal	58	0.004	0.05	6.0638	0	0	4.513E-09	0	0
SK	Modal	59	0.004	0.05	6.0638	0	0	-0.0002865	0	0
SK	Modal	60	0.004	0.05	6.0638	0	0	-0.0002567	0	0
SY	Modal	1	0.048	0.05	0	8.4893	0	0	-4.13E-08	0

SpecCase	ModalCase	Mode	Period sec	DampRatio	U1Acc m/sec2	U2Acc m/sec2	U3Acc m/sec2	U1Amp mm	U2Amp mm	U3Amp mm
SY	Modal	2	0.018	0.05	0	8.4893	0	0	1.986E-08	0
SY	Modal	3	0.016	0.05	0	8.4893	0	0	-0.01	0
SY	Modal	4	0.016	0.05	0	8.4893	0	0	0.14	0
SY	Modal	5	0.015	0.05	0	8.4893	0	0	3.381E-08	0
SY	Modal	6	0.014	0.05	0	8.4893	0	0	-0.09	0
SY	Modal	7	0.013	0.05	0	8.4893	0	0	1.137E-08	0
SY	Modal	8	0.013	0.05	0	8.4893	0	0	0.02	0
SY	Modal	9	0.011	0.05	0	8.4893	0	0	3.157E-09	0
SY	Modal	10	0.011	0.05	0	8.4893	0	0	0.02	0
SY	Modal	11	0.01	0.05	0	8.4893	0	0	-0.01	0
SY	Modal	12	0.009	0.05	0	8.4893	0	0	3.359E-08	0
SY	Modal	13	0.009	0.05	0	8.4893	0	0	2.12E-08	0
SY	Modal	14	0.008	0.05	0	8.4893	0	0	0.02	0
SY	Modal	15	0.008	0.05	0	8.4893	0	0	-1.235E-08	0
SY	Modal	16	0.008	0.05	0	8.4893	0	0	-0.004783	0
SY	Modal	17	0.008	0.05	0	8.4893	0	0	3.861E-08	0
SY	Modal	18	0.008	0.05	0	8.4893	0	0	-1.55E-07	0
SY	Modal	19	0.008	0.05	0	8.4893	0	0	-0.01	0
SY	Modal	20	0.008	0.05	0	8.4893	0	0	-0.02	0
SY	Modal	21	0.008	0.05	0	8.4893	0	0	1.089E-07	0
SY	Modal	22	0.008	0.05	0	8.4893	0	0	1.451E-08	0
SY	Modal	23	0.007	0.05	0	8.4893	0	0	-0.01	0
SY	Modal	24	0.007	0.05	0	8.4893	0	0	0.02	0
SY	Modal	25	0.007	0.05	0	8.4893	0	0	9.735E-08	0
SY	Modal	26	0.007	0.05	0	8.4893	0	0	2.705E-08	0
SY	Modal	27	0.007	0.05	0	8.4893	0	0	-0.004285	0
SY	Modal	28	0.007	0.05	0	8.4893	0	0	-8.659E-08	0
SY	Modal	29	0.007	0.05	0	8.4893	0	0	-9.26E-09	0
SY	Modal	30	0.007	0.05	0	8.4893	0	0	0.002648	0
SY	Modal	31	0.007	0.05	0	8.4893	0	0	-1.772E-08	0
SY	Modal	32	0.007	0.05	0	8.4893	0	0	0.001637	0
SY	Modal	33	0.007	0.05	0	8.4893	0	0	-1.767E-08	0
SY	Modal	34	0.006	0.05	0	8.4893	0	0	0.01	0
SY	Modal	35	0.006	0.05	0	8.4893	0	0	-1.414E-08	0
SY	Modal	36	0.006	0.05	0	8.4893	0	0	0.000239	0
SY	Modal	37	0.006	0.05	0	8.4893	0	0	-4.337E-09	0
SY	Modal	38	0.006	0.05	0	8.4893	0	0	0.0007315	0
SY	Modal	39	0.005	0.05	0	8.4893	0	0	-0.001124	0
SY	Modal	40	0.005	0.05	0	8.4893	0	0	9.817E-09	0
SY	Modal	41	0.005	0.05	0	8.4893	0	0	0.0004686	0
SY	Modal	42	0.005	0.05	0	8.4893	0	0	-0.0001943	0
SY	Modal	43	0.005	0.05	0	8.4893	0	0	1.883E-10	0
SY	Modal	44	0.005	0.05	0	8.4893	0	0	0.001908	0
SY	Modal	45	0.005	0.05	0	8.4893	0	0	1.371E-08	0
SY	Modal	46	0.005	0.05	0	8.4893	0	0	-9.459E-09	0
SY	Modal	47	0.004	0.05	0	8.4893	0	0	0.0002205	0
SY	Modal	48	0.004	0.05	0	8.4893	0	0	1.403E-08	0
SY	Modal	49	0.004	0.05	0	8.4893	0	0	-0.003032	0
SY	Modal	50	0.004	0.05	0	8.4893	0	0	2.898E-09	0
SY	Modal	51	0.004	0.05	0	8.4893	0	0	0.002503	0
SY	Modal	52	0.004	0.05	0	8.4893	0	0	-3.32E-10	0
SY	Modal	53	0.004	0.05	0	8.4893	0	0	8.649E-09	0
SY	Modal	54	0.004	0.05	0	8.4893	0	0	-0.0003869	0
SY	Modal	55	0.004	0.05	0	8.4893	0	0	0.0002942	0
SY	Modal	56	0.004	0.05	0	8.4893	0	0	1.32E-09	0

SpecCase	ModalCase	Mode	Period sec	DampRatio	U1Acc m/sec2	U2Acc m/sec2	U3Acc m/sec2	U1Amp mm	U2Amp mm	U3Amp mm
SY	Modal	57	0.004	0.05	0	8.4893	0	0	-3.095E-10	0
SY	Modal	58	0.004	0.05	0	8.4893	0	0	0.001098	0
SY	Modal	59	0.004	0.05	0	8.4893	0	0	1.94E-09	0
SY	Modal	60	0.004	0.05	0	8.4893	0	0	-1.298E-09	0

3.2 Story Results

Table 3.3 - Story Drifts (Part 1 of 2)

Story	Output Case	Case Type	Step Type	Step Number	Step Label	Direction	Drift	Drift/	Label
Story3	Dead	LinStatic				Y	4E-06		429
Story3	Live	LinStatic				Y	7E-06		429
Story3	SK	LinRespSpec	Max			X	0.000471		475
Story3	SY	LinRespSpec	Max			X	3.2E-05		479
Story3	SY	LinRespSpec	Max			Y	0.000111		475
Story3	SXEST	LinStatic				X	0.000193		476
Story3	SYEST	LinStatic				Y	1.2E-05		476
Story3	DS	LinStatic				Y	1E-06		429
Story3	ELS 1.0D	Combination				Y	6E-06		429
Story3	ELS 1.0D+1.0L	Combination				Y	1.3E-05		429
Story3	ELS 1.0D+0.75L	Combination				Y	1.1E-05		429
Story3	ELS 1.0D+0.75K	Combination	Max			X	0.000333		429
Story3	ELS 1.0D+0.75K	Combination	Min			X	0.000333		439
Story3	ELS 1.0D+0.75Y	Combination	Max			X	5.3E-05		401
Story3	ELS 1.0D+0.75Y	Combination	Max			Y	8.3E-05		475
Story3	ELS 1.0D+0.75Y	Combination	Min			X	5.3E-05		480
Story3	ELS 1.0D+0.75Y	Combination	Min			Y	7.2E-05		4

Analysis Results

Story	Output Case	Case Type	Step Type	Step Number	Step Label	Direction	Drift	Drift/	Label
Story3	CIM 1.0D+0.75L+0.55SY	Combination	Min			Y	4,8E-05		476
Story3	DES 1.0D+1.05X	Combination	Max			X	0,000474		429
Story3	DES 1.0D+1.05X	Combination	Min			X	0,000474		439
Story3	DES 1.0D+1.05Y	Combination	Max			X	5,7E-05		401
Story3	DES 1.0D+1.05Y	Combination	Max			Y	0,000116		475
Story3	DES 1.0D+1.05Y	Combination	Min			X	5,7E-05		480
Story3	DES 1.0D+1.05Y	Combination	Min			Y	0,000105		475
Story3	DES 1.0D+0.75L+0.75SX	Combination	Max			X	0,00036		429
Story3	DES 1.0D+0.75L+0.75SX	Combination	Min			X	0,00036		439
Story3	DES 1.0D+0.75L+0.75SY	Combination	Max			X	0,000101		401
Story3	DES 1.0D+0.75L+0.75SY	Combination	Max			Y	9,3E-05		475
Story3	DES 1.0D+0.75L+0.75SY	Combination	Min			X	0,000101		480
Story3	DES 1.0D+0.75L+0.75SY	Combination	Min			Y	7,3E-05		476
Story3	DES 0.6D+1.05X	Combination	Max			X	0,000473		429
Story3	DES 0.6D+1.05X	Combination	Min			X	0,000473		439
Story3	DES 0.6D+1.05Y	Combination	Max			X	4E-05		401
Story3	DES 0.6D+1.05Y	Combination	Max			Y	0,000114		475
Story3	DES 0.6D+1.05Y	Combination	Min			X	4E-05		480
Story3	DES 0.6D+1.05Y	Combination	Min			Y	0,000108		475
Story3	ELS 1.0D+1.0W1	Combination				Y	6E-06		429
Story3	ELS 1.0D+1.0W2	Combination				Y	6E-06		429
Story3	ELS 1.0D+0.75W1+0.75L	Combination				Y	1,1E-05		429
Story3	ELS 1.0D+0.75W2+0.75L	Combination				Y	1,1E-05		429
Story3	ELS 0.6D+1.0W1	Combination				Y	3E-06		429
Story3	ELS 0.6D+1.0W2	Combination				Y	3E-06		429
Story3	ELU 1.2D+0.8W1	Combination				Y	7E-06		429
Story3	ELU 1.2D+0.8W2	Combination				Y	7E-06		429
Story3	ELU 0.9D+1.6W1	Combination				Y	5E-06		429
Story3	ELU 0.9D+1.6W2	Combination				Y	5E-06		429
Story3	ELU 1.2D+1.6W1+1.0L	Combination				Y	1,4E-05		429
Story3	ELU 1.2D+1.6W2+1.0L	Combination				Y	1,4E-05		429
Story3	DSID1	Combination				Y	6E-06		429
Story3	DSID2	Combination				Y	1,3E-05		429
Story2	Dead	LinStatic				Y	4E-06		431
Story2	Live	LinStatic				Y	8E-06		431
Story2	SK	LinRespSpec	Max			X	0,000516		480
Story2	SY	LinRespSpec	Max			X	2E-05		425
Story2	SY	LinRespSpec	Max			Y	6,6E-05		476
Story2	SVEXT	LinStatic				X	0,000356		457
Story2	SVEXT	LinStatic				Y	2,7E-05		457
Story2	DS	LinStatic				Y	2E-06		431
Story2	ELS 1.0D	Combination				Y	6E-06		431
Story2	ELS 1.0D+1.0L	Combination				Y	1,4E-05		431
Story2	ELS 1.0D+0.75L	Combination				Y	1,2E-05		431
Story2	ELS 1.0D+0.75X	Combination	Max			X	0,00038		480
Story2	ELS 1.0D+0.75X	Combination	Min			X	0,00038		401
Story2	ELS 1.0D+0.75Y	Combination	Max			X	3,2E-05		480
Story2	ELS 1.0D+0.75Y	Combination	Max			Y	5,2E-05		476
Story2	ELS 1.0D+0.75Y	Combination	Min			X	3,2E-05		401
Story2	ELS 1.0D+0.75Y	Combination	Min			Y	4,1E-05		476
Story2	ELS 1.0D+0.75L+0.525SX	Combination	Max			X	0,00031		480
Story2	ELS 1.0D+0.75L+0.525SX	Combination	Min			X	0,00031		401
Story2	ELS 1.0D+0.75L+0.525SY	Combination	Max			X	4,9E-05		476
Story2	ELS 1.0D+0.75L+0.525SY	Combination	Max			Y	4,5E-05		476
Story2	ELS 1.0D+0.75L+0.525SY	Combination	Min			X	4,9E-05		401

Analysis Results

Story	Output Case	Case Type	Step Type	Step Number	Step Label	Direction	Drift	Drift/	Label
Story2	ELS 1.0D+0.75L+0.525SY	Combination	Min			Y	3,1E-05		475
Story2	ELS 0.6D+0.75X	Combination	Max			X	0,000372		480
Story2	ELS 0.6D+0.75X	Combination	Min			X	0,000372		401
Story2	ELS 0.6D+0.75Y	Combination	Max			X	2,5E-05		480
Story2	ELS 0.6D+0.75Y	Combination	Max			Y	5E-05		476
Story2	ELS 0.6D+0.75Y	Combination	Min			X	2,5E-05		401
Story2	ELS 0.6D+0.75Y	Combination	Min			Y	4,3E-05		476
Story2	ELU 1.4D	Combination				Y	8E-06		431
Story2	ELU 1.2D+1.6L	Combination				Y	1,9E-05		431
Story2	ELU 1.2D+1.0L+1.05X+0.35Y	Combination	Max			X	0,000571		480
Story2	ELU 1.2D+1.0L+1.05X+0.35Y	Combination	Min			X	0,000571		480
Story2	ELU 1.2D+1.0L+1.05Y+0.35X	Combination	Max			X	0,000224		480
Story2	ELU 1.2D+1.0L+1.05Y+0.35X	Combination	Max			Y	7,9E-05		476
Story2	ELU 1.2D+1.0L+1.05Y+0.35X	Combination	Min			X	0,000224		401
Story2	ELU 1.2D+1.0L+1.05Y+0.35X	Combination	Min			Y	5,3E-05		475
Story2	ELU 1.2D+1.0L+1.05X+0.35Y	Combination	Max			X	0,000571		480
Story2	ELU 1.2D+1.0L+1.05X+0.35Y	Combination	Min			X	0,000571		401
Story2	ELU 1.2D+1.0L+1.05Y+0.35X	Combination	Max			X	0,000224		480
Story2	ELU 1.2D+1.0L+1.05Y+0.35X	Combination	Max			Y	7,9E-05		476
Story2	ELU 1.2D+1.0L+1.05Y+0.35X	Combination	Min			X	0,000224		401
Story2	ELU 1.2D+1.0L+1.05Y+0.35X	Combination	Min			Y	5,3E-05		475
Story2	ELU 1.2D+1.0L+1.05X+0.35Y	Combination	Max			X	0,000571		480
Story2	ELU 1.2D+1.0L+1.05X+0.35Y	Combination	Min			X	0,000571		401
Story2	ELU 1.2D+1.0L+1.05Y+0.35X	Combination	Max			X	0,000224		480
Story2	ELU 1.2D+1.0L+1.05Y+0.35X	Combination	Max			Y	7,9E-05		476
Story2	ELU 1.2D+1.0L+1.05Y+0.35X	Combination	Min			X	0,000224		401
Story2	ELU 1.2D+1.0L+1.05Y+0.35X	Combination	Min			Y	5,3E-05		475
Story2	ELU 1.2D+1.0L+1.05X+0.35Y	Combination	Max			X	0,000571		480
Story2	ELU 1.2D+1.0L+1.05X+0.35Y	Combination	Min			X	0,000571		401
Story2	ELU 1.2D+1.0L+1.05Y+0.35X	Combination	Max			X	0,000224		480
Story2	ELU 1.2D+1.0L+1.05Y+0.35X	Combination	Max			Y	7,9E-05		476
Story2	ELU 1.2D+1.0L+1.05Y+0.35X	Combination	Min			X	0,000224		401
Story2	ELU 1.2D+1.0L+1.05Y+0.35X	Combination	Min			Y	5,3E-05		475
Story2	ELU 0.9D	Combination				Y	5E-06		431
Story2	ELU 0.9D+1.05X+0.35Y	Combination	Max			X	0,000539		480
Story2	ELU 0.9D+1.05X+0.35Y	Combination	Max			X	0,000539		401
Story2	ELU 0.9D+1.05Y+0.35X	Combination	Max			X	0,000191		480
Story2	ELU 0.9D+1.05Y+0.35X	Combination	Max			Y	7,1E-05		476
Story2	ELU 0.9D+1.05Y+0.35X	Combination	Min			X	0,000191		401
Story2	ELU 0.9D+1.05Y+0.35X	Combination	Min			Y	6,2E-05		476
Story2	ELU 0.9D+1.05X+0.35Y	Combination	Max			X	0,000539		480
Story2	ELU 0.9D+1.05X+0.35Y	Combination	Min			X	0,000539		401
Story2	ELU 0.9D+1.05Y+0.35X	Combination	Max			X	0,000191		480
Story2	ELU 0.9D+1.05Y+0.35X	Combination	Max			Y	7,1E-05		476
Story2	ELU 0.9D+1.05Y+0.35X	Combination	Min			X	0,000191		401
Story2	ELU 0.9D+1.05Y+0.35X	Combination	Min			Y	6,2E-05		476
Story2	ELU 0.9D+1.05X+0.35Y	Combination	Max			X	0,000539		480
Story2	ELU 0.9D+1.05X+0.35Y	Combination	Min			X	0,000539		401
Story2	ELU 0.9D+1.05Y+0.35X	Combination	Max			X	0,000191		480
Story2	ELU 0.9D+1.05Y+0.35X	Combination	Max			Y	7,1E-05		476
Story2	ELU 0.9D+1.05Y+0.35X	Combination	Min			X	0,000191		401
Story2	ELU 0.9D+1.05Y+0.35X	Combination	Min			Y	6,2E-05		476
Story2	ELU 0.9D+1.05X+0.35Y	Combination	Max			X	0,000539		480
Story2	ELU 0.9D+1.05X+0.35Y	Combination	Min			X	0,000539		401
Story2	ELU 0.9D+1.05Y+0.35X	Combination	Max			X	0,000191		480

Analysis Results

Story	Output Case	Case Type	Step Type	Step Number	Step Label	Direction	Drift	Drift/	Label
Story2	ELU 0.9D+1.05Y+0.35X	Combination	Max			Y	7,1E-05		476
Story2	ELU 0.9D+1.05Y+0.35X	Combination	Min			X	0,000191		401
Story2	ELU 0.9D+1.05Y+0.35X	Combination	Min			Y	6,2E-05		476
Story2	CIM 1.0D	Combination				Y	6E-06		431
Story2	CIM 1.0D+1.0L	Combination				Y	1,4E-05		431
Story2	CIM 0.6D	Combination				Y	3E-06		431
Story2	CIM 0.6D+0.75X	Combination	Max			X	0,000372		480
Story2	CIM 0.6D+0.75X	Combination	Min			X	0,000372		401
Story2	CIM 0.6D+0.75Y	Combination	Max			X	2,5E-05		480
Story2	CIM 0.6D+0.75Y	Combination	Max			Y	5E-06		476
Story2	CIM 0.6D+0.75Y	Combination	Min			X	2,5E-05		401
Story2	CIM 0.6D+0.75Y	Combination	Min			Y	4,3E-05		476
Story2	CIM 1.0D+0.75X	Combination	Max			X	0,000372		480
Story2	CIM 1.0D+0.75X	Combination	Min			X	0,000372		401
Story2	CIM 1.0D+0.75Y	Combination	Max			X	2,5E-05		480
Story2	CIM 1.0D+0.75Y	Combination	Max			Y	5,2E-05		476
Story2	CIM 1.0D+0.75Y	Combination	Min			X	3,2E-05		401
Story2	CIM 1.0D+0.75Y	Combination	Min			Y	4,1E-05		476
Story2	CIM 1.0D+0.75L+0.55X	Combination	Max			X	0,000297		480
Story2	CIM 1.0D+0.75L+0.55X	Combination	Min			X	0,000297		401
Story2	CIM 1.0D+0.75L+0.55Y	Combination	Max			X	4,9E-05		480
Story2	CIM 1.0D+0.75L+0.55Y	Combination	Max			Y	4,3E-05		476
Story2	CIM 1.0D+0.75L+0.55Y	Combination	Min			X	4,9E-05		401
Story2	CIM 1.0D+0.75L+0.55Y	Combination	Min			Y	3E-05		475
Story2	DES 1.0D+1.05X	Combination	Max			X	0,000535		480
Story2	DES 1.0D+1.05X	Combination	Min			X	0,000535		401
Story2	DES 1.0D+1.05Y	Combination	Max			X	3,8E-05		480
Story2	DES 1.0D+1.05Y	Combination	Max			Y	7,2E-05		476
Story2	DES 1.0D+1.05Y	Combination	Min			X	3,8E-05		401
Story2	DES 1.0D+1.05Y	Combination	Min			Y	6,1E-05		476
Story2	DES 1.0D+0.75L+0.75X	Combination	Max			X	0,000426		480
Story2	DES 1.0D+0.75L+0.75X	Combination	Min			X	0,000426		401
Story2	DES 1.0D+0.75L+0.75Y	Combination	Max			X	5,3E-05		480
Story2	DES 1.0D+0.75L+0.75Y	Combination	Max			Y	6E-06		476
Story2	DES 1.0D+0.75L+0.75Y	Combination	Min			X	5,3E-05		401
Story2	DES 1.0D+0.75L+0.75Y	Combination	Min			Y	4E-05		475
Story2	DES 0.6D+1.05X	Combination	Max			X	0,000527		480
Story2	DES 0.6D+1.05X	Combination	Min			X	0,000527		401
Story2	DES 0.6D+1.05Y	Combination	Max			X	3,1E-05		480
Story2	DES 0.6D+1.05Y	Combination	Max			Y	7E-05		476
Story2	DES 0.6D+1.05Y	Combination	Min			X	3,1E-05		401
Story2	DES 0.6D+1.05Y	Combination	Min			Y	6,3E-05		476
Story2	ELS 1.0D+1.0W1	Combination				Y	6E-06		431
Story2	ELS 1.0D+1.0W2	Combination				Y	6E-06		431
Story2	ELS 1.0D+0.75W1+0.75L	Combination				Y	1,2E-05		431
Story2	ELS 1.0D+0.75W2+0.75L	Combination				Y	1,2E-05		431
Story2	ELS 0.6D+1.0W1	Combination				Y	3E-06		431
Story2	ELS 0.6D+1.0W2	Combination				Y	3E-06		431
Story2	ELU 1.2D+0.8W1	Combination				Y	7E-06		431
Story2	ELU 1.2D+0.8W2	Combination				Y	7E-06		431
Story2	ELU 0.9D+1.6W1	Combination				Y	5E-06		431
Story2	ELU 0.9D+1.6W2	Combination				Y	5E-06		431
Story2	ELU 1.2D+1.6W1+1.0L	Combination				Y	1,5E-05		431
Story2	ELU 1.2D+1.6W2+1.0L	Combination				Y	1,5E-05		431
Story2	DSHD1	Combination				Y	6E-06		431

Story	Output Case	Case Type	Step Type	Step Number	Step Label	Direction	Drift	Drift/	Label
Story1	ELU 1.2D+1.0L-1.0SY-0.3SX	Combination	Min			Y	4,9E-05		477
Story1	ELU 0,0D	Combination				Y	4E-06		477
Story1	ELU 0.9D+1.0SX+0.3SY	Combination	Max			X	0,000279		480
Story1	ELU 0.9D+1.0SX+0.3SY	Combination	Min			X	0,000279		401
Story1	ELU 0.9D+1.0SY+0.3SX	Combination	Max			X	0,000114		480
Story1	ELU 0.9D+1.0SY+0.3SX	Combination	Max			Y	3,3E-05		477
Story1	ELU 0.9D+1.0SY+0.3SX	Combination	Min			X	0,000114		401
Story1	ELU 0.9D+1.0SY+0.3SX	Combination	Min			Y	4,1E-05		477
Story1	ELU 0.9D+1.0SX+0.3SY	Combination	Max			X	0,000279		480
Story1	ELU 0.9D+1.0SX+0.3SY	Combination	Max			X	0,000279		401
Story1	ELU 0.9D+1.0SY+0.3SX	Combination	Max			X	0,000114		480
Story1	ELU 0.9D+1.0SY+0.3SX	Combination	Max			Y	3,3E-05		477
Story1	ELU 0.9D+1.0SY+0.3SX	Combination	Min			X	0,000114		401
Story1	ELU 0.9D+1.0SY+0.3SX	Combination	Min			Y	4,1E-05		477
Story1	ELU 0.9D+1.0SX+0.3SY	Combination	Max			X	0,000279		480
Story1	ELU 0.9D+1.0SX+0.3SY	Combination	Min			X	0,000279		401
Story1	ELU 0.9D+1.0SY+0.3SX	Combination	Max			X	0,000114		480
Story1	ELU 0.9D+1.0SY+0.3SX	Combination	Max			Y	3,3E-05		477
Story1	ELU 0.9D+1.0SY+0.3SX	Combination	Min			X	0,000114		401
Story1	ELU 0.9D+1.0SY+0.3SX	Combination	Min			Y	4,1E-05		477
Story1	CIM 1.0D	Combination					4E-06		477
Story1	CIM 1.0D+1.0L	Combination				Y	1,1E-05		477
Story1	CIM 0,6D	Combination				Y	3E-06		477
Story1	CIM 0,6D+0.7SX	Combination	Max			X	0,00019		480
Story1	CIM 0,6D+0.7SX	Combination	Min			X	0,00019		401
Story1	CIM 0,6D+0.7SY	Combination	Max			X	2,5E-05		480
Story1	CIM 0,6D+0.7SY	Combination	Max			Y	2,4E-05		477
Story1	CIM 0,6D+0.7SY	Combination	Min			X	2,5E-05		401
Story1	CIM 0,6D+0.7SY	Combination	Min			Y	2,9E-05		477
Story1	CIM 1.0D+0.7SX	Combination	Max			X	0,000197		480
Story1	CIM 1.0D+0.7SX	Combination	Min			X	0,000197		401
Story1	CIM 1.0D+0.7SY	Combination	Max			X	3,1E-05		480
Story1	CIM 1.0D+0.7SY	Combination	Max			Y	2,3E-05		476
Story1	CIM 1.0D+0.7SY	Combination	Min			X	3,1E-05		401
Story1	CIM 1.0D+0.7SY	Combination	Min			Y	3E-05		477
Story1	CIM 1.0D+0.7SL+0.5SX	Combination	Max			X	0,000162		480
Story1	CIM 1.0D+0.7SL+0.5SX	Combination	Min			X	0,000162		401
Story1	CIM 1.0D+0.7SL+0.5SY	Combination	Max			X	4,4E-05		480
Story1	CIM 1.0D+0.7SL+0.5SY	Combination	Max			Y	1,9E-05		475
Story1	CIM 1.0D+0.7SL+0.5SY	Combination	Min			X	4,4E-05		401
Story1	CIM 1.0D+0.7SL+0.5SY	Combination	Min			Y	2,8E-05		477
Story1	DES 1.0D+1.0SX	Combination	Max			X	0,000274		480
Story1	DES 1.0D+1.0SX	Combination	Min			X	0,000274		401
Story1	DES 1.0D+1.0SY	Combination	Max			X	3,8E-05		480
Story1	DES 1.0D+1.0SY	Combination	Max			Y	3,3E-05		477
Story1	DES 1.0D+1.0SY	Combination	Min			X	3,8E-05		401
Story1	DES 1.0D+1.0SY	Combination	Min			Y	4,2E-05		477
Story1	DES 1.0D+0.7SL+0.75SX	Combination	Max			X	0,000227		480
Story1	DES 1.0D+0.7SL+0.75SX	Combination	Min			X	0,000227		401

Story	Output Case	Case Type	Step Type	Step Number	Step Label	Direction	Drift	Drift/	Label
Story1	DES 1.0D+0.7SL+0.75SY	Combination	Max			X	4,9E-05		480
Story1	DES 1.0D+0.7SL+0.75SY	Combination	Max			Y	2,6E-05		475
Story1	DES 1.0D+0.7SL+0.75SY	Combination	Min			X	4,9E-05		401
Story1	DES 1.0D+0.7SL+0.75SY	Combination	Min			Y	3,7E-05		477
Story1	DES 0.6D+1.0SX	Combination	Max			X	0,000272		477
Story1	DES 0.6D+1.0SX	Combination	Min			X	0,000272		477
Story1	DES 0.6D+1.0SY	Combination	Max			X	3,2E-05		480
Story1	DES 0.6D+1.0SY	Combination	Max			Y	3,5E-05		477
Story1	DES 0.6D+1.0SY	Combination	Min			X	3,2E-05		401
Story1	DES 0.6D+1.0SY	Combination	Min			Y	4E-05		477
Story1	ELS 1.0D+1.0W1	Combination				Y	4E-06		477
Story1	ELS 1.0D+1.0W2	Combination				Y	4E-06		477
Story1	ELS 1.0D+0.7SW1+0.7SL	Combination				Y	9E-06		477
Story1	ELS 1.0D+0.7SW2+0.7SL	Combination				Y	9E-06		477
Story1	ELS 0.6D+1.0W1	Combination				Y	3E-06		477
Story1	ELS 0.6D+1.0W2	Combination				Y	3E-06		477
Story1	ELU 1.2D+0.8W1	Combination				Y	5E-06		477
Story1	ELU 1.2D+0.8W2	Combination				Y	5E-06		477
Story1	ELU 0.9D+1.6W1	Combination				Y	4E-06		477
Story1	ELU 0.9D+1.6W2	Combination				Y	4E-06		477
Story1	ELU 1.2D+1.6W1+1.0L	Combination				Y	1,1E-05		477
Story1	ELU 1.2D+1.6W2+1.0L	Combination				Y	1,1E-05		477
Story1	DSID1	Combination				Y	4E-06		477
Story1	DSID2	Combination				Y	1,1E-05		477

Table 3.3 - Story Drifts (Part 2 of 2)

Story	X m	Y m	Z m
Story3	3,41	2	1,36
Story2	3,41	2	1,36
Story3	8,26	2	1,36
Story3	15,47	2	1,36
Story3	8,26	2	1,36
Story3	8,26	2,83	1,36
Story3	8,26	2,83	1,36
Story3	3,41	2	1,36
Story3	3,41	2	1,36
Story3	3,41	2	1,36
Story3	3,41	2	1,36
Story3	13,11	2	1,36
Story3	1,05	2,83	1,36
Story3	8,26	2	1,36
Story3	15,47	2,83	1,36
Story3	8,26	2	1,36
Story3	1,05	2,83	1,36
Story3	8,26	2	1,36
Story3	15,47	2,83	1,36
Story3	8,26	2,83	1,36
Story3	3,41	2	1,36
Story3	13,11	2	1,36
Story3	1,05	2,83	1,36
Story3	8,26	2	1,36

Story	X m	Y m	Z m
Story3	15,47	2,83	1,36
Story3	8,26	2	1,36
Story3	3,41	2	1,36
Story3	3,41	2	1,36
Story3	3,41	2	1,36
Story3	13,11	2	1,36
Story3	1,05	2,83	1,36
Story3	8,26	2	1,36
Story3	15,47	2,83	1,36
Story3	8,26	2	1,36
Story3	1,05	2,83	1,36
Story3	8,26	2	1,36
Story3	15,47	2,83	1,36
Story3	8,26	2	1,36
Story3	3,41	2	1,36
Story3	13,11	2	1,36
Story3	1,05	2,83	1,36
Story3	8,26	2	1,36
Story3	15,47	2,83	1,36
Story3	8,26	2	1,36
Story3	3,41	2	1,36
Story3	13,11	2	1,36
Story3	1,05	2,83	1,36
Story3	8,26	2	1,36
Story3	15,47	2,83	1,36
Story3	8,26	2	1,36
Story3	3,41	2	1,36
Story3	13,11	2	1,36
Story3	1,05	2,83	1,36
Story3	8,26	2	1,36
Story3	15,47	2,83	1,36
Story3	8,26	2	1,36
Story3	3,41	2	1,36
Story3	13,11	2	1,36
Story3	1,05	2,83	1,36
Story3	8,26	2	1,36
Story3	15,47	2,83	1,36
Story3	8,26	2	1,36
Story3	3,41	2	1,36
Story3	13,11	2	1,36
Story3	1,05	2,83	1,36
Story3	8,26	2	1,36
Story3	15,47	2,83	1,36
Story3	8,26	2	1,36
Story3	3,41	2	1,36
Story3	13,11	2	1,36
Story3	1,05	2,83	1,36
Story3	8,26	2	1,36
Story3	15,47	2,83	1,36
Story3	8,26	2	1,36
Story3	3,41	2	1,36
Story3	13,11	2	1,36
Story3	1,05	2,83	1,36
Story3	8,26	2	1,36
Story3	15,47	2,83	1,36
Story3	8,26	2	1,36
Story3	3,41	2	1,36
Story3	13,11	2	1,36
Story3	1,05	2,83	1,36
Story3	8,26	2	1,36
Story3	15,47	2,83	1,36
Story3	8,26	2	1,36
Story3	3,41	2	1,36
Story3	13,11	2	1,36
Story3	1,05	2,83	1,36
Story3	8,26	2	1,36
Story3	15,47	2,83	1,36
Story3	8,26	2	1,36
Story3	3,41	2	1,36
Story3	13,11	2	1,36
Story3	1,05	2,83	1,36
Story3	8,26	2	1,36
Story3	15,47	2,83	1,36
Story3	8,26	2	1,36
Story3	3,41	2	1,36
Story3	13,11	2	1,36
Story3	1,05	2,83	1,36
Story3	8,26	2	1,36
Story3	15,47	2,83	1,36
Story3	8,26	2	1,36
Story3	3,41	2	1,36
Story3	13,11	2	1,36
Story3	1,05	2,83	1,36
Story3	8,26	2	1,36
Story3	15,47	2,83	1,36
Story3	8,26	2	1,36
Story3	3,41	2	1,36
Story3	13,11	2	1,36
Story3	1,05	2,83	1,36
Story3	8,26	2	1,36
Story3	15,47	2,83	1,36
Story3	8,26	2	1,36
Story3	3,41	2	1,36
Story3	13,11	2	1,36
Story3	1,05	2,83	1,36
Story3	8,26	2	1,36
Story3	15,47	2,83	1,36
Story3	8,26	2	1,36
Story3	3,41	2	1,36
Story3	13,11	2	1,36
Story3	1,05	2,83	1,36
Story3	8,26	2	1,36
Story3	15,47	2,83	1,36
Story3	8,26	2	1,36
Story3	3,41	2	1,36
Story3	13,11	2	1,36
Story3	1,05	2,83	1,36
Story3	8,26	2	1,36
Story3	15,47	2,83	1,36
Story3	8,26	2	1,36
Story3	3,41	2	1,36
Story3	13,11	2	1,36
Story3	1,05	2,83	1,36
Story3	8,26	2	1,36
Story3	15,47	2,83	1,36
Story3	8,26	2	1,36
Story3	3,41	2	1,36
Story3	13,11	2	1,36
Story3	1,05	2,83	1,36
Story3	8,26	2	1,36
Story3	15,47	2,83	1,36
Story3	8,26	2	1,36
Story3	3,41	2	1,36
Story3	13,11	2	1,36
Story3	1,05	2,83	1,36
Story3	8,26	2	1,36
Story3	15,47	2,83	1,36
Story3	8,26	2	1,36
Story3	3,41	2	1,36
Story3	13,11	2	1,36
Story3	1,05	2,83	1,36
Story3	8,26	2	1,36
Story3	15,47	2,83	1,36
Story3	8,26	2	1,36
Story3	3,41	2	1,36
Story3	13,11	2	1,36
Story3	1,05	2,83	1,36
Story3	8,26	2	1,36
Story3	15,47	2,83	1,36

Story	X	Y	Z
Story2	8,26	2,83	0,93
Story2	1,05	2,83	0,93
Story2	8,26	2,83	0,93
Story2	15,47	2,83	0,93
Story2	1,05	2,83	0,93
Story2	15,47	2,83	0,93
Story2	8,26	2,83	0,93
Story2	1,05	2,83	0,93
Story2	8,26	2,83	0,93
Story2	15,47	2,83	0,93
Story2	1,05	2,83	0,93
Story2	15,47	2,83	0,93
Story2	8,26	2,83	0,93
Story2	1,05	2,83	0,93
Story2	8,26	2,83	0,93
Story2	1,05	2,83	0,93
Story2	8,26	2,83	0,93
Story2	3,41	2,83	0,93
Story2	3,41	2,83	0,93
Story2	3,41	2,83	0,93
Story2	15,47	2,83	0,93
Story2	1,05	2,83	0,93
Story2	15,47	2,83	0,93
Story2	8,26	2,83	0,93
Story2	1,05	2,83	0,93
Story2	8,26	2,83	0,93
Story2	15,47	2,83	0,93
Story2	1,05	2,83	0,93
Story2	15,47	2,83	0,93
Story2	8,26	2,83	0,93
Story2	1,05	2,83	0,93
Story2	15,47	2,83	0,93
Story2	8,26	2,83	0,93
Story2	1,05	2,83	0,93
Story2	15,47	2,83	0,93
Story2	8,26	2	0,93
Story2	15,47	2,83	0,93
Story2	1,05	2,83	0,93
Story2	8,26	2,83	0,93
Story2	15,47	2,83	0,93
Story2	1,05	2,83	0,93
Story2	15,47	2,83	0,93
Story2	8,26	2,83	0,93
Story2	1,05	2,83	0,93
Story2	8,26	2	0,93
Story2	15,47	2,83	0,93

Story	X	Y	Z
Story1	8.26	1	0.5
Story1	15.47	2.83	0.5
Story1	1.05	2.83	0.5
Story1	15.47	2.83	0.5
Story1	8.26	2	0.5
Story1	1.05	2.83	0.5
Story1	8.26	1	0.5
Story1	15.47	2.83	0.5
Story1	1.05	2.83	0.5
Story1	15.47	2.83	0.5
Story1	8.26	2	0.5
Story1	1.05	2.83	0.5
Story1	8.26	1	0.5
Story1	8.26	1	0.5
Story1	15.47	2.83	0.5
Story1	1.05	2.83	0.5
Story1	8.26	1	0.5
Story1	15.47	2.83	0.5
Story1	1.05	2.83	0.5
Story1	15.47	2.83	0.5
Story1	8.26	1	0.5
Story1	1.05	2.83	0.5
Story1	8.26	1	0.5
Story1	15.47	2.83	0.5
Story1	1.05	2.83	0.5
Story1	15.47	2.83	0.5
Story1	8.26	1	0.5
Story1	1.05	2.83	0.5
Story1	8.26	1	0.5
Story1	8.26	1	0.5
Story1	8.26	1	0.5
Story1	15.47	2.83	0.5
Story1	1.05	2.83	0.5
Story1	15.47	2.83	0.5
Story1	8.26	1	0.5
Story1	1.05	2.83	0.5
Story1	15.47	2.83	0.5
Story1	1.05	2.83	0.5

[illegible]

Story	Location	Output Case	Case Type	Step Type	Step Number	Step Label	P tonf	VX tonf	VY tonf
Story3	Top	Dead	LinStatic				3,29	0	0
Story3	Bottom	Dead	LinStatic				4,11	0	0
Story3	Top	Live	LinStatic				6,86	0	0
Story3	Bottom	Live	LinStatic				6,86	0	0
Story3	Top	SK	LinRespSpec	Max			0	5,76	5,66E-06
Story3	Bottom	SK	LinRespSpec	Max			0	5,76	5,66E-06
Story3	Top	SY	LinRespSpec	Max			0	5,115E-06	6,1
Story3	Bottom	SY	LinRespSpec	Max			0	5,115E-06	6,1
Story3	Top	SXEST	LinStatic				0	0	0

Story	Location	Output Case	Case Type	Step Type	Step Number	Step Label	P tonf	WX tonf	VY tonf
Story3	Top	ELU 1.2D+1.0L+1.05Y+0.35X	Combination	Max			12,45	1,73	6,1
Story3	Bottom	ELU 1.2D+1.0L+1.05Y+0.35X	Combination	Max			13,44	1,73	6,1
Story3	Top	ELU 1.2D+1.0L+1.05Y+0.35X	Combination	Min			12,45	-1,73	-6,1
Story3	Bottom	ELU 1.2D+1.0L+1.05Y+0.35X	Combination	Min			13,44	-1,73	-6,1
Story3	Top	ELU 1.2D+1.0L+1.05X+0.35Y	Combination	Max			12,45	5,76	1,83
Story3	Bottom	ELU 1.2D+1.0L+1.05X+0.35Y	Combination	Max			13,44	5,76	1,83
Story3	Top	ELU 1.2D+1.0L+1.05X+0.35Y	Combination	Min			12,45	-5,76	-1,83
Story3	Bottom	ELU 1.2D+1.0L+1.05X+0.35Y	Combination	Min			13,44	-5,76	-1,83
Story3	Top	ELU 1.2D+1.0L+1.05Y+0.35X	Combination	Max			12,45	1,73	6,1
Story3	Bottom	ELU 1.2D+1.0L+1.05Y+0.35X	Combination	Max			13,44	1,73	6,1
Story3	Top	ELU 1.2D+1.0L+1.05Y+0.35X	Combination	Min			12,45	-1,73	-6,1
Story3	Bottom	ELU 1.2D+1.0L+1.05Y+0.35X	Combination	Min			13,44	-1,73	-6,1
Story3	Top	ELU 1.2D+1.0L+1.05X+0.35Y	Combination	Max			12,45	5,76	1,83
Story3	Bottom	ELU 1.2D+1.0L+1.05X+0.35Y	Combination	Max			13,44	5,76	1,83
Story3	Top	ELU 1.2D+1.0L+1.05X+0.35Y	Combination	Min			12,45	-5,76	-1,83
Story3	Bottom	ELU 1.2D+1.0L+1.05X+0.35Y	Combination	Min			13,44	-5,76	-1,83
Story3	Top	ELU 1.2D+1.0L+1.05Y+0.35X	Combination	Max			13,44	1,73	6,1
Story3	Bottom	ELU 1.2D+1.0L+1.05Y+0.35X	Combination	Max			13,44	1,73	6,1
Story3	Top	ELU 1.2D+1.0L+1.05Y+0.35X	Combination	Min			12,45	-1,73	-6,1
Story3	Bottom	ELU 1.2D+1.0L+1.05Y+0.35X	Combination	Min			13,44	-1,73	-6,1
Story3	Top	ELU 0.9D	Combination				4,2	0	0
Story3	Bottom	ELU 0.9D	Combination				4,94	0	0
Story3	Top	ELU 0.9D+1.05X+0.35Y	Combination	Max			4,2	5,76	1,83
Story3	Bottom	ELU 0.9D+1.05X+0.35Y	Combination	Max			4,94	5,76	1,83
Story3	Top	ELU 0.9D+1.05X+0.35Y	Combination	Min			4,2	-5,76	-1,83
Story3	Bottom	ELU 0.9D+1.05X+0.35Y	Combination	Min			4,94	-5,76	-1,83
Story3	Top	ELU 0.9D+1.05Y+0.35X	Combination	Max			4,2	1,73	6,1
Story3	Bottom	ELU 0.9D+1.05Y+0.35X	Combination	Max			4,94	1,73	6,1
Story3	Top	ELU 0.9D+1.05Y+0.35X	Combination	Min			4,2	-1,73	-6,1
Story3	Bottom	ELU 0.9D+1.05Y+0.35X	Combination	Min			4,94	-1,73	-6,1
Story3	Top	ELU 0.9D+1.05X+0.35Y	Combination	Max			4,2	5,76	1,83
Story3	Bottom	ELU 0.9D+1.05X+0.35Y	Combination	Max			4,94	5,76	1,83
Story3	Top	ELU 0.9D+1.05X+0.35Y	Combination	Min			4,2	-5,76	-1,83
Story3	Bottom	ELU 0.9D+1.05X+0.35Y	Combination	Min			4,94	-5,76	-1,83
Story3	Top	ELU 0.9D+1.05Y+0.35X	Combination	Max			4,2	1,73	6,1
Story3	Bottom	ELU 0.9D+1.05Y+0.35X	Combination	Max			4,94	1,73	6,1
Story3	Top	ELU 0.9D+1.05Y+0.35X	Combination	Min			4,2	-1,73	-6,1
Story3	Bottom	ELU 0.9D+1.05Y+0.35X	Combination	Min			4,94	-1,73	-6,1
Story3	Top	ELU 0.9D+1.05X+0.35Y	Combination	Max			4,2	5,76	1,83
Story3	Bottom	ELU 0.9D+1.05X+0.35Y	Combination	Max			4,94	5,76	1,83
Story3	Top	ELU 0.9D+1.05X+0.35Y	Combination	Min			4,2	-5,76	-1,83
Story3	Bottom	ELU 0.9D+1.05X+0.35Y	Combination	Min			4,94	-5,76	-1,83
Story3	Top	ELU 0.9D+1.05Y+0.35X	Combination	Max			4,2	1,73	6,1
Story3	Bottom	ELU 0.9D+1.05Y+0.35X	Combination	Max			4,94	1,73	6,1
Story3	Top	ELU 0.9D+1.05Y+0.35X	Combination	Min					

Story	Location	Output Case	Case Type	Step Type	Step Number	Step Label	P tonf	W tonf	VY tonf
Story3	Bottom	SYEST	LinStatic				0	0	0
Story3	Top	SYEST	LinStatic				0	0	0
Story3	Bottom	SYEST	LinStatic				0	0	0
Story3	Top	DS	LinStatic				1.37	0	0
Story3	Bottom	DS	LinStatic				1.37	0	0
Story3	Top	W1	LinStatic				0	0	0
Story3	Bottom	W1	LinStatic				0	0	0
Story3	Top	W2	LinStatic				0	0	0
Story3	Bottom	W2	LinStatic				0	0	0
Story3	Top	ELS 1.00	Combination				4.67	0	0
Story3	Bottom	ELS 1.00	Combination				4.68	0	0
Story3	Top	ELS 1.00+1.0L	Combination				11.52	0	0
Story3	Bottom	ELS 1.00+1.0L	Combination				12.34	0	0
Story3	Top	ELS 1.00+0.75X	Combination				9.81	0	0
Story3	Bottom	ELS 1.00+0.75X	Combination				10.63	0	0
Story3	Top	ELS 1.00+0.75X	Combination	Max			4.67	4.03	3.965E-06
Story3	Bottom	ELS 1.00+0.75X	Combination	Max			5.48	-4.03	3.965E-06
Story3	Top	ELS 1.00+0.75X	Combination	Min			4.67	-4.03	-3.965E-06
Story3	Bottom	ELS 1.00+0.75X	Combination	Min			5.48	-4.03	-3.965E-06
Story3	Top	ELS 1.00+0.75Y	Combination	Max			4.67	3.86E-06	4.27
Story3	Bottom	ELS 1.00+0.75Y	Combination	Max			5.48	3.86E-06	4.27
Story3	Top	ELS 1.00+0.75Y	Combination	Min			4.67	-3.86E-06	-4.27
Story3	Bottom	ELS 1.00+0.75Y	Combination	Min			5.48	-3.86E-06	-4.27
Story3	Top	ELS 1.00+0.75L+0.525SX	Combination	Max			9.81	3.02	2.974E-06
Story3	Bottom	ELS 1.00+0.75L+0.525SX	Combination	Max			10.63	3.02	2.974E-06
Story3	Top	ELS 1.00+0.75L+0.525SX	Combination	Min			9.81	-3.02	-2.974E-06
Story3	Bottom	ELS 1.00+0.75L+0.525SX	Combination	Min			10.63	-3.02	-2.974E-06
Story3	Top	ELS 1.00+0.75L+0.525SY	Combination	Max			9.81	2.895E-06	3.2
Story3	Bottom	ELS 1.00+0.75L+0.525SY	Combination	Max			10.63	2.895E-06	3.2
Story3	Top	ELS 1.00+0.75L+0.525SY	Combination	Min			9.81	-2.895E-06	-3.2
Story3	Bottom	ELS 1.00+0.75L+0.525SY	Combination	Min			10.63	-2.895E-06	-3.2
Story3	Top	ELS 0.60+0.75X	Combination	Max			2.8	4.03	3.965E-06
Story3	Bottom	ELS 0.60+0.75X	Combination	Max			3.29	4.03	3.965E-06
Story3	Top	ELS 0.60+0.75X	Combination	Min			2.8	-4.03	-3.965E-06
Story3	Bottom	ELS 0.60+0.75X	Combination	Min			3.29	-4.03	-3.965E-06
Story3	Top	ELS 0.60+0.75Y	Combination	Max			2.8	3.86E-06	4.27
Story3	Bottom	ELS 0.60+0.75Y	Combination	Max			3.29	3.86E-06	4.27
Story3	Top	ELS 0.60+0.75Y	Combination	Min			2.8	-3.86E-06	-4.27
Story3	Bottom	ELS 0.60+0.75Y	Combination	Min			3.29	-3.86E-06	-4.27
Story3	Top	ELU 1.4D	Combination				6.53	0	0
Story3	Bottom	ELU 1.4D	Combination				7.68	0	0
Story3	Top	ELU 1.2D+1.6L	Combination				16.57	0	0
Story3	Bottom	ELU 1.2D+1.6L	Combination				17.55	0	0
Story3	Top	ELU 1.2D+1.0L+1.05X+0.35Y	Combination	Max			12.45	5.76	1.83
Story3	Bottom	ELU 1.2D+1.0L+1.05X+0.35Y	Combination	Max			13.44	5.76	1.83
Story3	Top	ELU 1.2D+1.0L+1.05X+0.35Y	Combination	Min			12.45	-5.76	-1.83
Story3	Bottom	ELU 1.2D+1.0L+1.05X+0.35Y	Combination	Min			13.44	-5.76	-1.83
Story3	Top	ELU 1.2D+1.0L+1.05Y+0.35X	Combination	Max			12.45	1.73	6.1
Story3	Bottom	ELU 1.2D+1.0L+1.05Y+0.35X	Combination	Max			13.44	-1.73	-6.1
Story3	Top	ELU 1.2D+1.0L+1.05Y+0.35							

Story	Location	Output Case	Case Type	Step Type	Step Number	Step Label	P tonf	W tonf	VY tonf
Story3	Bottom	CIM 1.0D	Combination				5,48	0	0
Story3	Top	CIM 1.0D+1.0L	Combination				11,52	0	0
Story3	Bottom	CIM 1.0D+1.0L	Combination				12,34	0	0
Story3	Top	CIM 0.6D	Combination				2,8	0	0
Story3	Bottom	CIM 0.6D	Combination				3,29	0	0
Story3	Top	CIM 0.6D+0.75X	Combination	Max			2,8	4,03	3,955E-06
Story3	Bottom	CIM 0.6D+0.75X	Combination	Max			3,29	4,03	3,955E-06
Story3	Top	CIM 0.6D+0.75X	Combination	Min			2,8	-4,03	-3,955E-06
Story3	Bottom	CIM 0.6D+0.75X	Combination	Min			3,29	-4,03	-3,955E-06
Story3	Top	CIM 0.6D+0.75Y	Combination	Max			3,28	3,86E-06	4,27
Story3	Bottom	CIM 0.6D+0.75Y	Combination	Max			3,29	3,86E-06	4,27
Story3	Top	CIM 0.6D+0.75Y	Combination	Min			2,8	-3,86E-06	-4,27
Story3	Bottom	CIM 0.6D+0.75Y	Combination	Min			3,29	-3,86E-06	-4,27
Story3	Top	CIM 1.0D+0.75X	Combination	Max			4,67	4,03	3,955E-06
Story3	Bottom	CIM 1.0D+0.75X	Combination	Max			5,48	4,03	3,955E-06
Story3	Top	CIM 1.0D+0.75X	Combination	Min			4,67	-4,03	-3,955E-06
Story3	Bottom	CIM 1.0D+0.75X	Combination	Min			5,48	-4,03	-3,955E-06
Story3	Top	CIM 1.0D+0.75Y	Combination	Max			4,67	3,86E-06	4,27
Story3	Bottom	CIM 1.0D+0.75Y	Combination	Max			5,48	3,86E-06	4,27
Story3	Top	CIM 1.0D+0.75Y	Combination	Min			4,67	-3,86E-06	-4,27
Story3	Bottom	CIM 1.0D+0.75Y	Combination	Min			5,48	-3,86E-06	-4,27
Story3	Top	CIM 1.0D+0.75L+0.55X	Combination	Max			9,81	2,88	2,832E-06
Story3	Bottom	CIM 1.0D+0.75L+0.55X	Combination	Max			10,63	2,88	2,832E-06
Story3	Top	CIM 1.0D+0.75L+0.55X	Combination	Min			9,81	-2,88	-2,832E-06
Story3	Bottom	CIM 1.0D+0.75L+0.55X	Combination	Min			10,63	-2,88	-2,832E-06
Story3	Top	CIM 1.0D+0.75L+0.55Y	Combination	Max			9,81	2,575E-06	3,05
Story3	Bottom	CIM 1.0D+0.75L+0.55Y	Combination	Max			10,63	2,575E-06	3,05
Story3	Top	CIM 1.0D+0.75L+0.55Y	Combination	Min			9,81	-2,575E-06	-3,05
Story3	Bottom	CIM 1.0D+0.75L+0.55Y	Combination	Min			10,63	-2,575E-06	-3,05
Story3	Bottom	DES 1.0D+1.05X	Combination	Max			5,48	5,76	5,646E-06
Story3	Top	DES 1.0D+1.05X	Combination	Max			5,48	5,76	5,646E-06
Story3	Bottom	DES 1.0D+1.05Y	Combination	Min			4,67	-5,76	-5,646E-06
Story3	Top	DES 1.0D+1.05Y	Combination	Min			5,48	-5,76	-5,646E-06
Story3	Bottom	DES 1.0D+1.05Y	Combination	Max			4,67	5,515E-06	6,1
Story3	Top	DES 1.0D+1.05Y	Combination	Max			5,48	5,515E-06	6,1
Story3	Bottom	DES 1.0D+1.05Y	Combination	Min			4,67	-5,515E-06	-6,1
Story3	Top	DES 1.0D+1.05Y	Combination	Min			5,48	-5,515E-06	-6,1
Story3	Bottom	DES 1.0D+0.75L+0.755X	Combination	Max			9,81	4,32	4,248E-06
Story3	Top	DES 1.0D+0.75L+0.755X	Combination	Max			10,63	4,32	4,248E-06
Story3	Bottom	DES 1.0D+0.75L+0.755X	Combination	Min			9,81	-4,32	-4,248E-06
Story3	Top	DES 1.0D+0.75L+0.755X	Combination	Min			10,63	-4,32	-4,248E-06
Story3	Bottom	DES 1.0D+0.75L+0.755Y	Combination	Max			9,81	4,136E-06	4,58
Story3	Top	DES 1.0D+0.75L+0.755Y	Combination	Max			10,63	4,136E-06	4,58
Story3	Bottom	DES 1.0D+0.75L+0.755Y	Combination	Min			9,81	-4,136E-06	-4,58
Story3	Top	DES 1.0D+0.75L+0.755Y	Combination	Min			10,63	-4,136E-06	-4,58
Story3	Bottom	DES 0.6D+1.05X	Combination	Max			2,8	5,76	5,646E-06

Story	Location	Output Case	Case Type	Step Type	Step Number	Step Label	P tonf	VX tonf	VY tonf
Story3	Top	ELS 1.0D+1.0W2	Combination				4,67	0	0
Story3	Bottom	ELS 1.0D+1.0W2	Combination				5,48	0	0
Story3	Top	ELS 1.0D+0.75W1+0.75L	Combination				9,81	0	0
Story3	Bottom	ELS 1.0D+0.75W1+0.75L	Combination				10,63	0	0
Story3	Top	ELS 1.0D+0.75W2+0.75L	Combination				9,81	0	0
Story3	Bottom	ELS 1.0D+0.75W2+0.75L	Combination				10,63	0	0
Story3	Top	ELS 0.6D+1.0W1	Combination				2,8	0	0
Story3	Bottom	ELS 0.6D+1.0W1	Combination				3,29	0	0
Story3	Top	ELS 0.6D+1.0W2	Combination				2,8	0	0
Story3	Bottom	ELS 0.6D+1.0W2	Combination				3,29	0	0
Story3	Top	ELU 1.2D+0.8W1	Combination				5,6	0	0
Story3	Bottom	ELU 1.2D+0.8W1	Combination				6,58	0	0
Story3	Top	ELU 1.2D+0.8W2	Combination				5,6	0	0
Story3	Bottom	ELU 1.2D+0.8W2	Combination				6,58	0	0
Story3	Top	ELU 0.9D+1.6W1	Combination				4,2	0	0
Story3	Bottom	ELU 0.9D+1.6W1	Combination				4,94	0	0
Story3	Top	ELU 0.9D+1.6W2	Combination				4,2	0	0
Story3	Bottom	ELU 0.9D+1.6W2	Combination				4,94	0	0
Story3	Top	ELU 1.2D+1.6W1+1.0L	Combination				12,45	0	0
Story3	Bottom	ELU 1.2D+1.6W1+1.0L	Combination				13,44	0	0
Story3	Top	ELU 1.2D+1.6W2+1.0L	Combination				12,45	0	0
Story3	Bottom	ELU 1.2D+1.6W2+1.0L	Combination				13,44	0	0
Story3	Top	DSKD1	Combination				4,67	0	0
Story3	Bottom	DSKD1	Combination				5,48	0	0
Story3	Top	DSKD2	Combination				11,52	0	0
Story3	Bottom	DSKD2	Combination				12,34	0	0
Story2	Top	Dead	LinStatic				8,08	0	0
Story2	Bottom	Dead	LinStatic				9,89	0	0
Story2	Top	Live	LinStatic				15,12	0	0
Story2	Bottom	Live	LinStatic				15,12	0	0
Story2	Top	SK	LinRespSpec	Max			0	9,98	9,34E-06
Story2	Bottom	SK	LinRespSpec	Max			0	9,98	9,34E-06
Story2	Top	SY	LinRespSpec	Max			0	2,897E-06	9,4
Story2	Bottom	SY	LinRespSpec	Max			0	2,897E-06	9,4
Story2	Top	SVEST	LinStatic				0	-8,44	0
Story2	Bottom	SVEST	LinStatic				0	-8,44	0
Story2	Top	SVEST	LinStatic				0	0	-8,44
Story2	Bottom	SVEST	LinStatic				0	0	-8,44
Story2	Top	DS	LinStatic				3,02	0	0
Story2	Bottom	DS	LinStatic				3,02	0	0
Story2	Top	W1	LinStatic				0	0	0
Story2	Bottom	W1	LinStatic				0	0	0
Story2	Top	W2	LinStatic				0	0	0
Story2	Bottom	W2	LinStatic				0	0	0
Story2	Top	ELS 1.0D	Combination				11,11	0	0
Story2	Bottom	ELS 1.0D	Combination				12,91	0	0
Story2	Top	ELS 1.0D+1.0L	Combination				26,22	0	0
Story2	Bottom	ELS 1.0D+1.0L	Combination				28,03	0	0
Story2	Top	ELS 1.0D+0.75L	Combination				22,44	0	0
Story2	Bottom	ELS 1.0D+0.75L	Combination				24,25	0	0
Story2	Top	ELS 1.0D+0.75SX	Combination	Max			11,11	6,99	6,538E-06
Story2	Bottom	ELS 1.0D+0.75SX	Combination	Max			12,91	6,99	6,538E-06
Story2	Top	ELS 1.0D+0.75SX	Combination	Min			11,11	-6,99	-6,538E-06
Story2	Bottom	ELS 1.0D+0.75SX	Combination	Min			12,91	-6,99	-6,538E-06
Story2	Top	ELS 1.0D+0.75Y	Combination	Max			11,11	2,028E-06	6,58

Story	Location	Output Case	Case Type	Step Type	Step Number	Step Label	P tonf	VX tonf	VY tonf
Story2	Bottom	ELS 1.0D+0.75Y	Combination	Max			12,91	2,028E-06	6,58
Story2	Top	ELS 1.0D+0.75Y	Combination	Min			11,11	-2,028E-06	-6,58
Story2	Bottom	ELS 1.0D+0.75Y	Combination	Min			12,91	-2,028E-06	-6,58
Story2	Top	ELS 1.0D+0.75L+0.525SX	Combination	Max			22,44	5,24	4,903E-06
Story2	Bottom	ELS 1.0D+0.75L+0.525SX	Combination	Max			24,25	5,24	4,903E-06
Story2	Top	ELS 1.0D+0.75L+0.525SX	Combination	Min			22,44	-5,24	-4,903E-06
Story2	Bottom	ELS 1.0D+0.75L+0.525SX	Combination	Min			24,25	-5,24	-4,903E-06
Story2	Top	ELS 1.0D+0.75L+0.525SY	Combination	Max			22,44	1,521E-06	4,94
Story2	Bottom	ELS 1.0D+0.75L+0.525SY	Combination	Max			24,25	1,521E-06	4,94
Story2	Top	ELS 0.6D+0.75SX	Combination	Max			6,66	6,99	6,538E-06
Story2	Bottom	ELS 0.6D+0.75SX	Combination	Max			7,75	6,99	6,538E-06
Story2	Top	ELS 0.6D+0.75SX	Combination	Min			6,66	-6,99	-6,538E-06
Story2	Bottom	ELS 0.6D+0.75SX	Combination	Min			7,75	-6,99	-6,538E-06
Story2	Top	ELS 0.6D+0.75Y	Combination	Max			6,66	2,028E-06	6,58
Story2	Bottom	ELS 0.6D+0.75Y	Combination	Max			7,75	2,028E-06	6,58
Story2	Top	ELS 0.6D+0.75Y	Combination	Min			6,66	-2,028E-06	-6,58
Story2	Bottom	ELS 0.6D+0.75Y	Combination	Min			7,75	-2,028E-06	-6,58
Story2	Top	ELU 1.4D	Combination				15,55	0	0
Story2	Bottom	ELU 1.4D	Combination				18,08	0	0
Story2	Top	ELU 1.2D+1.6L	Combination				37,51	0	0
Story2	Bottom	ELU 1.2D+1.6L	Combination				39,68	0	0
Story2	Top	ELU 1.2D+1.0L+1.05X+0.35Y	Combination	Max			28,44	9,98	2,82
Story2	Bottom	ELU 1.2D+1.0L+1.05X+0.35Y	Combination	Max			30,61	9,98	2,82
Story2	Top	ELU 1.2D+1.0L+1.05X+0.35Y	Combination	Min			28,44	-9,98	-2,82
Story2	Bottom	ELU 1.2D+1.0L+1.05X+0.35Y	Combination	Min			30,61	-9,98	-2,82
Story2	Top	ELU 1.2D+1.0L+1.05Y+0.35X	Combination	Max			28,44	2,99	9,4
Story2	Bottom	ELU 1.2D+1.0L+1.05Y+0.35X	Combination	Max			30,61	2,99	9,4
Story2	Top	ELU 1.2D+1.0L+1.05Y+0.35X	Combination	Min			28,44	-2,99	-9,4
Story2	Bottom	ELU 1.2D+1.0L+1.05Y+0.35X	Combination	Min			30,61	-2,99	-9,4
Story2	Top	ELU 1.2D+1.0L+1.05X+0.35Y	Combination	Max			28,44	9,98	2,82
Story2	Bottom	ELU 1.2D+1.0L+1.05X+0.35Y	Combination	Max			30,61	9,98	2,82
Story2	Top	ELU 1.2D+1.0L+1.05X+0.35Y	Combination	Min			28,44	-9,98	-2,82
Story2	Bottom	ELU 1.2D+1.0L+1.05X+0.35Y	Combination	Min			30,61	-9,98	-2,82
Story2	Top	ELU 1.2D+1.0L+1.05Y+0.35X	Combination	Max			28,44	2,99	9,4
Story2	Bottom	ELU 1.2D+1.0L+1.05Y+0.35X	Combination	Max			30,61	2,99	9,4
Story2	Top	ELU 1.2D+1.0L+1.05Y+0.35X	Combination	Min			28,44	-2,99	-9,4
Story2	Bottom	ELU 1.2D+1.0L+1.05Y+0.35X	Combination	Min			30,61	-2,99	-9,4
Story2	Top	ELU 1.2D+1.0L+1.05X+0.35Y	Combination	Max			28,44	9,98	2,82
Story2	Bottom	ELU 1.2D+1.0L+1.05X+0.35Y	Combination	Max			30,61	9,98	2,82
Story2	Top	ELU 1.2D+1.0L+1.05X+0.35Y	Combination	Min			28,44	-9,98	-2,82
Story2	Bottom	ELU 1.2D+1.0L+1.05X+0.35Y	Combination	Min			30,61	-9,98	-2,82
Story2	Top	ELU 1.2D+1.0L+1.05Y+0.35X	Combination	Max			28,44	2,99	9,4
Story2	Bottom	ELU 1.2D+1.0L+1.05Y+0.35X	Combination	Max			30,61	2,99	9,4
Story2	Top	ELU 1.2D+1.0L+1.05Y+0.35X	Combination	Min			28,44	-2,99	-9,4
Story2	Bottom	ELU 1.2D+1.0L+1.05Y+0.35X	Combination	Min			30,61	-2,99	-9,4

Story	Location	Output Case	Case Type	Step Type	Step Number	Step Label	P tonf	VX tonf	VY tonf
Story2	Top	ELU 0.9D	Combination				10	0	0
Story2	Bottom	ELU 0.9D	Combination				11,62	0	0
Story2	Top	ELU 0.9D+1.05X+0.35Y	Combination	Max			10	9,98	2,82
Story2	Bottom	ELU 0.9D+1.05X+0.35Y	Combination	Max			11,62	9,98	2,82
Story2	Top	ELU 0.9D+1.05X+0.35Y	Combination	Min			10	-9,98	-2,82
Story2	Bottom	ELU 0.9D+1.05X+0.35Y	Combination	Min			11,62	-9,98	-2,82
Story2	Top	ELU 0.9D+1.05Y+0.35X	Combination	Max			10	2,99	9,4
Story2	Bottom	ELU 0.9D+1.05Y+0.35X	Combination	Max			11,62	2,99	9,4
Story2	Top	ELU 0.9D+1.05Y+0.35X	Combination	Min			10	-2,99	-9,4
Story2	Bottom	ELU 0.9D+1.05Y+0.35X	Combination	Min			11,62	-2,99	-9,4
Story2	Top	ELU 0.9D+1.05X+1.05X+0.35X	Combination	Max			10	9,98	2,82
Story2	Bottom	ELU 0.9D+1.05X+1.05X+0.35X	Combination	Max			11,62	9,98	2,82
Story2	Top	ELU 0.9D+1.05X+0.35Y	Combination	Min			10	-9,98	-2,82
Story2	Bottom	ELU 0.9D+1.05X+0.35Y	Combination	Min			11,62	-9,98	-2,82
Story2	Top	ELU 0.9D+1.05Y+0.35X	Combination	Max			10	2,99	9,4
Story2	Bottom	ELU 0.9D+1.05Y+0.35X	Combination	Max			11,62	2,99	9,4
Story2	Top	ELU 0.9D+1.05Y+0.35X	Combination	Min			10	-2,99	-9,4
Story2	Bottom	ELU 0.9D+1.05Y+0.35X	Combination	Min			11,62	-2,99	-9,4
Story2	Top	ELU 0.9D+1.05X+0.35Y	Combination	Max			10	9,98	2,82
Story2	Bottom	ELU 0.9D+1.05X+0.35Y	Combination	Max			11,62	9,98	2,82
Story2	Top	ELU 0.9D+1.05X+0.35Y	Combination	Min			10	-9,98	-2,82
Story2	Bottom	ELU 0.9D+1.05X+0.35Y	Combination	Min			11,62	-9,98	-2,82
Story2	Top	ELU 0.9D+1.05Y+0.35X	Combination	Max			10	2,99	9,4
Story2	Bottom	ELU 0.9D+1.05Y+0.35X	Combination	Max			11,62	2,99	9,4
Story2	Top	ELU 0.9D+1.05Y+0.35X	Combination	Min			10	-2,99	-9,4
Story2	Bottom	ELU 0.9D+1.05Y+0.35X	Combination	Min			11,62	-2,99	-9,4
Story2	Top	CIM 1.0D	Combination				11,11	0	0
Story2	Bottom	CIM 1.0D	Combination				12,91	0	0
Story2	Top	CIM 1.0D+1.0L	Combination				26,22	0	0
Story2	Bottom	CIM 1.0D+1.0L	Combination				28,03	0	0
Story2	Top	CIM 0.6D	Combination				6,66	0	0
Story2	Bottom	CIM 0.6D	Combination				7,75	0	0
Story2	Top	CIM 0.6D+0.75X	Combination	Max			6,66	6,99	6,538E-06
Story2	Bottom	CIM 0.6D+0.75X	Combination	Max			7,75	6,99	6,538E-06
Story2	Top	CIM 0.6D+0.75X	Combination	Min			6,66	-6,99	-6,538E-06
Story2	Bottom	CIM 0.6D+0.75X	Combination	Min			7,75	-6,99	-6,538E-06
Story2	Top	CIM 0.6D+0.75Y	Combination	Max			6,66	2,028E-06	6,58
Story2	Bottom	CIM 0.6D+0.75Y	Combination	Max			7,75	2,028E-06	6,58
Story2	Top	CIM 0.6D+0.75Y	Combination	Min			6,66	-2,028E-06	-6,58
Story2	Bottom	CIM 0.6D+0.75Y	Combination	Min			7,75	-2,028E-06	-6,58
Story2	Top	CIM 1.0D+0.75X	Combination	Max			11,11	6,99	6,538E-06
Story2	Bottom	CIM 1.0D+0.75X	Combination	Max			12,91	6,99	6,538E-06
Story2	Top	CIM 1.0D+0.75X	Combination	Min			11,11	-6,99	-6,538E-06
Story2	Bottom	CIM 1.0D+0.75X	Combination	Min			12,91	-6,99	-6,538E-06
Story2	Top	CIM 1.0D+0.75Y	Combination	Max			11,11	2,028E-06	6,58
Story2	Bottom	CIM 1.0D+0.75Y	Combination	Max			12,91	2,028E-06	6,58
Story2	Top	CIM 1.0D+0.75Y	Combination	Min			11,11	-2,028E-06	-6,58

Story	Location	Output Case	Case Type	Step Type	Step Number	Step Label	P tonf	VX tonf	VY tonf
Story2	Top	ELU 1.2D+1.6W2+1.0L	Combination				28,44	0	0
Story2	Bottom	ELU 1.2D+1.6W2+1.0L	Combination				30,61	0	0
Story2	Top	DSID1	Combination				11,11	0	0
Story2	Bottom	DSID1	Combination				12,91	0	0
Story2	Top	DSID2	Combination				26,22	0	0
Story2	Bottom	DSID2	Combination				28,03	0	0
Story1	Top	Dead	LinStatic				12,67	0	0
Story1	Bottom	Dead	LinStatic				15,79	0	0
Story1	Top	Live	LinStatic				20,9	0	0
Story1	Bottom	Live	LinStatic				20,9	0	0
Story1	Top	SK	LinRespSpec	Max			0	11,38	1,131E-05
Story1	Bottom	SK	LinRespSpec	Max			0	11,38	1,131E-05
Story1	Top	SY	LinRespSpec	Max			0	4,825E-06	11,1
Story1	Bottom	SY	LinRespSpec	Max			0	4,825E-06	11,1
Story1	Top	SKEST	LinStatic				0	-12,4	0
Story1	Bottom	SKEST	LinStatic				0	-12,4	0
Story1	Top	SYEST	LinStatic				0	0	-12,4
Story1	Bottom	SYEST	LinStatic				0	0	-12,4
Story1	Top	D5	LinStatic				4,18	0	0
Story1	Bottom	D5	LinStatic				4,18	0	0
Story1	Top	W1	LinStatic				0	0	0
Story1	Bottom	W1	LinStatic				0	0	0
Story1	Top	W2	LinStatic				0	0	0
Story1	Bottom	W2	LinStatic				0	0	0
Story1	Top	ELS 1.0D	Combination				16,85	0	0
Story1	Bottom	ELS 1.0D	Combination				19,97	0	0
Story1	Top	ELS 1.0D+1.0L	Combination				37,74	0	0
Story1	Bottom	ELS 1.0D+1.0L	Combination				40,86	0	0
Story1	Top	ELS 1.0D+0.75L	Combination				32,52	0	0
Story1	Bottom	ELS 1.0D+0.75L	Combination				35,64	0	0
Story1	Top	ELS 1.0D+0.75X	Combination	Max			16,85	7,97	7,915E-06
Story1	Bottom	ELS 1.0D+0.75X	Combination	Max			19,97	7,97	7,915E-06
Story1	Top	ELS 1.0D+0.75Y	Combination	Min			16,85	-7,97	-7,915E-06
Story1	Bottom	ELS 1.0D+0.75Y	Combination	Min			19,97	-7,97	-7,915E-06
Story1	Top	ELS 1.0D+0.75Y	Combination	Min			16,85	-3,377E-06	-7,77
Story1	Bottom	ELS 1.0D+0.75Y	Combination	Min			19,97	-3,377E-06	-7,77
Story1	Top	ELS 1.0D+0.75L+0.525SX	Combination	Max			32,52	5,97	5,936E-06
Story1	Bottom	ELS 1.0D+0.75L+0.525SX	Combination	Max			35,64	5,97	5,936E-06
Story1	Top	ELS 1.0D+0.75L+0.525SX	Combination	Min			32,52	-5,97	-5,936E-06
Story1	Bottom	ELS 1.0D+0.75L+0.525SX	Combination	Min			35,64	-5,97	-5,936E-06
Story1	Top	ELS 1.0D+0.75L+0.525SY	Combination	Max			32,52	2,533E-06	5,83
Story1	Bottom	ELS 1.0D+0.75L+0.525SY	Combination	Max			35,64	2,533E-06	5,83
Story1	Top	ELS 1.0D+0.75L+0.525SY	Combination	Min			32,52	-2,533E-06	-5,83
Story1	Bottom	ELS 1.0D+0.75L+0.525SY	Combination	Min			35,64	-2,533E-06	-5,83
Story1	Top	ELS 0.6D+0.75X	Combination	Max			10,11	7,97	7,915E-06
Story1	Bottom	ELS 0.6D+0.75X	Combination	Max			11,98	7,97	7,915E-06
Story1	Top	ELS 0.6D+0.75X	Combination	Min			10,11	-7,97	-7,915E-06
Story1	Bottom	ELS 0.6D+0.75X	Combination	Min			11,98	-7,97	-7,915E-06
Story1	Top	ELS 0.6D+0.75Y	Combination	Max			10,11	3,377E-06	7,77
Story1	Bottom	ELS 0.6D+0.75Y	Combination	Max			11,98	3,377E-06	7,77
Story1	Top	ELS 0.6D+0.75Y	Combination	Min			10,11	-3,377E-06	-7,77
Story1	Bottom	ELS 0.6D+0.75Y	Combination	Min			11,98	-3,377E-06	-7,77
Story1	Top	ELU 1.4D	Combination				23,58	0	0

Story	Location	Output Case	Case Type	Step Type	Step Number	Step Label	P tonf	VX tonf	VY tonf
Story1	Bottom	ELU 1.4D	Combination				27,95	0	0
Story1	Top	ELU 1.2D+1.6L	Combination				53,65	0	0
Story1	Bottom	ELU 1.2D+1.6L	Combination				57,39	0	0
Story1	Top	ELU 1.2D+1.0L+1.05X+0.35Y	Combination	Max			41,11	11,38	3,33
Story1	Bottom	ELU 1.2D+1.0L+1.05X+0.35Y	Combination	Max			44,85	11,38	3,33
Story1	Top	ELU 1.2D+1.0L+1.05X+0.35Y	Combination	Min			41,11	-11,38	-3,33
Story1	Bottom	ELU 1.2D+1.0L+1.05X+0.35Y	Combination	Min			44,85	-11,38	-3,33
Story1	Top	ELU 1.2D+1.0L+1.05Y+0.35X	Combination	Max			41,11	3,41	11,1
Story1	Bottom	ELU 1.2D+1.0L+1.05Y+0.35X	Combination	Max			44,85	3,41	11,1
Story1	Top	ELU 1.2D+1.0L+1.05Y+0.35X	Combination	Min			41,11	-3,41	-11,1
Story1	Bottom	ELU 1.2D+1.0L+1.05Y+0.35X	Combination	Min			44,85	-3,41	-11,1
Story1	Top	ELU 1.2D+1.0L+1.05X+0.35Y	Combination	Max			41,11	11,38	3,33
Story1	Bottom	ELU 1.2D+1.0L+1.05X+0.35Y	Combination	Max			44,85	11,38	3,33
Story1	Top	ELU 1.2D+1.0L+1.05Y+0.35X	Combination	Min			41,11	-3,41	-11,1
Story1	Bottom	ELU 1.2D+1.0L+1.05Y+0.35X	Combination	Min			44,85	-3,41	-11,1
Story1	Top	ELU 1.2D+1.0L+1.05X+0.35Y	Combination	Max			41,11	11,38	3,33
Story1	Bottom	ELU 1.2D+1.0L+1.05X+0.35Y	Combination	Max			44,85	11,38	3,33
Story1	Top	ELU 1.2D+1.0L+1.05Y+0.35X	Combination	Min			41,11	-3,41	-11,1
Story1	Bottom	ELU 1.2D+1.0L+1.05Y+0.35X	Combination	Min			44,85	-3,41	-11,1
Story1	Top	ELU 0.9D	Combination				15,16	0	0
Story1	Bottom	ELU 0.9D	Combination				17,97	0	0
Story1	Top	ELU 0.9D+1.05X+0.35Y	Combination	Max			15,16	11,38	3,33
Story1	Bottom	ELU 0.9D+1.05X+0.35Y	Combination	Max			17,97	11,38	3,33
Story1	Top	ELU 0.9D+1.05X+0.35Y	Combination	Min			15,16	-11,38	-3,33
Story1	Bottom	ELU 0.9D+1.05X+0.35Y	Combination	Min			17,97	-11,38	-3,33
Story1	Top	ELU 0.9D+1.05Y+0.35X	Combination	Max			15,16	3,41	11,1
Story1	Bottom	ELU 0.9D+1.05Y+0.35X	Combination	Max			17,97	3,41	11,1
Story1	Top	ELU 0.9D+1.05Y+0.35X	Combination	Min			15,16	-3,41	-11,1
Story1	Bottom	ELU 0.9D+1.05Y+0.35X	Combination	Min			17,97	-3,41	-11,1
Story1	Top	ELU 0.9D+1.05X+0.35Y	Combination	Max			15,16	11,38	3,33
Story1	Bottom	ELU 0.9D+1.05X+0.35Y	Combination	Max			17,97	11,38	3,33
Story1	Top	ELU 0.9D+1.05X+0.35Y	Combination	Min			15,16	-11,38	-3,33
Story1	Bottom	ELU 0.9D+1.05X+0.35Y	Combination	Min			17,97	-11,38	-3,33
Story1	Top	ELU 0.9D+1.05Y+0.35X	Combination	Max			15,16	3,41	11,1
Story1	Bottom	ELU 0.9D+1.05Y+0.35X	Combination	Max			17,97	3,41	11,1
Story1	Top	ELU 0.9D+1.05Y+0.35X	Combination	Min			15,16	-3,41	-11,1
Story1	Bottom	ELU 0.9D+1.05Y+0.35X	Combination	Min			17,97	-3,41	-11,1
Story1	Top	ELU 0.9D+1.05X+0.35Y	Combination	Max			15,16	11,38	3,33
Story1	Bottom	ELU 0.9D+1.05X+0.35Y	Combination	Max			17,97	11,38	3,33

Story	Location	Output Case	Case Type	Step Type	Step Number	Step Label	P tonf	VX tonf	VY tonf
Story1	Top	ELU 0.9D-1.05X+0.35Y	Combination	Min			15,16	-11,38	-3,33
Story1	Bottom	ELU 0.9D-1.05X+0.35Y	Combination	Min			17,97	-11,38	-3,33
Story1	Top	ELU 0.9D-1.05Y+0.35X	Combination	Max			15,16	3,41	11,1
Story1	Bottom	ELU 0.9D-1.05Y+0.35X	Combination	Max			17,97	3,41	11,1
Story1	Top	ELU 0.9D-1.05Y+0.35X	Combination	Min			15,16	-3,41	-11,1
Story1	Bottom	ELU 0.9D-1.05Y+0.35X	Combination	Min			17,97	-3,41	-11,1
Story1	Top	ELU 0.9D-1.05X+0.35Y	Combination	Max			15,16	11,38	3,33
Story1	Bottom	ELU 0.9D-1.05X+0.35Y	Combination	Max			17,97	11,38	3,33
Story1	Top	ELU 0.9D-1.05X+0.35Y	Combination	Min			15,16	-11,38	-3,33
Story1	Bottom	ELU 0.9D-1.05X+0.35Y	Combination	Min			17,97	-11,38	-3,33
Story1	Top	ELU 0.9D-1.05Y+0.35X	Combination	Max			15,16	3,41	11,1
Story1	Bottom	ELU 0.9D-1.05Y+0.35X	Combination	Max			17,97	3,41	11,1
Story1	Top	ELU 0.9D-1.05Y+0.35X	Combination	Min			15,16	-3,41	-11,1
Story1	Bottom	ELU 0.9D-1.05Y+0.35X	Combination	Min			17,97	-3,41	-11,1
Story1	Top	CIM 1.0D	Combination				16,85	0	0
Story1	Bottom	CIM 1.0D	Combination				19,97	0	0
Story1	Top	CIM 1.0D+1.0L	Combination				37,74	0	0
Story1	Bottom	CIM 1.0D+1.0L	Combination				40,86	0	0
Story1	Top	CIM 0.6D	Combination				10,11	0	0
Story1	Bottom	CIM 0.6D	Combination				11,98	0	0
Story1	Top	CIM 0.6D+0.75X	Combination	Max			10,11	7,97	7,915E-06
Story1	Bottom	CIM 0.6D+0.75X	Combination	Max			11,98	7,97	7,915E-06
Story1	Top	CIM 0.6D+0.75X	Combination	Min			10,11	-7,97	-7,915E-06
Story1	Bottom	CIM 0.6D+0.75X	Combination	Min			11,98	-7,97	-7,915E-06
Story1	Top	CIM 0.6D+0.75Y	Combination	Max			10,11	3,377E-06	7,77
Story1	Bottom	CIM 0.6D+0.75Y	Combination	Max			11,98	3,377E-06	7,77
Story1	Top	CIM 0.6D+0.75Y	Combination	Min			10,11	-3,377E-06	-7,77
Story1	Bottom	CIM 0.6D+0.75Y	Combination	Min			11,98	-3,377E-06	-7,77
Story1	Top	CIM 1.0D+0.75X	Combination	Max			16,85	7,97	7,915E-06
Story1	Bottom	CIM 1.0D+0.75X	Combination	Max			19,97	7,97	7,915E-06
Story1	Top	CIM 1.0D+0.75X	Combination	Min			16,85	-7,97	-7,915E-06
Story1	Bottom	CIM 1.0D+0.75X	Combination	Min			19,97	-7,97	-7,915E-06
Story1	Top	CIM 1.0D+0.75Y	Combination	Max			16,85	3,377E-06	7,77
Story1	Bottom	CIM 1.0D+0.75Y	Combination	Max			19,97	3,377E-06	7,77
Story1	Top	CIM 1.0D+0.75Y	Combination	Min			16,85	-3,377E-06	-7,77
Story1	Bottom	CIM 1.0D+0.75Y	Combination	Min			19,97	-3,377E-06	-7,77
Story1	Top	CIM 1.0D+0.75L+0.55X	Combination	Max			32,52	5,69	5,654E-06
Story1	Bottom	CIM 1.0D+0.75L+0.55X	Combination	Max			35,64	5,69	5,654E-06
Story1	Top	CIM 1.0D+0.75L+0.55X	Combination	Min			32,52	-5,69	-5,654E-06
Story1	Bottom	CIM 1.0D+0.75L+0.55X	Combination	Min			35,64	-5,69	-5,654E-06
Story1	Top	CIM 1.0D+0.75L+0.55Y	Combination	Max			32,52	2,412E-06	5,55
Story1	Bottom	CIM 1.0D+0.75L+0.55Y	Combination	Max			35,64	2,412E-06	5,55
Story1	Top	CIM 1.0D+0.75L+0.55Y	Combination	Min			32,52	-2,412E-06	-5,55
Story1	Bottom	CIM 1.0D+0.75L+0.55Y	Combination	Min			35,64	-2,412E-06	-5,55
Story1	Top	DES 1.0D+1.05X	Combination	Max			16,85	11,38	1,131E-05
Story1	Bottom	DES 1.0D+1.05X	Combination	Max			19,97	11,38	1,131E-05
Story1	Top	DES 1.0D+1.05X	Combination	Min			16,85	-11,38	-1,131E-05
Story1	Bottom	DES 1.0D+1.05X	Combination	Min			19,97	-11,38	-1,131E-05
Story1	Top	DES 1.0D+1.05Y	Combination	Max			16,85	4,825E-06	11,1
Story1	Bottom	DES 1.0D+1.05Y	Combination	Max			19,97	4,825E-06	11,1
Story1	Top	DES 1.0D+1.05Y	Combination	Min			16,85	-4,825E-06	-11,1
Story1	Bottom	DES 1.0D+1.05Y	Combination	Min			19,97	-4,825E-06	-11,1
Story1	Top	DES 1.0D+0.75L+0.755X	Combination	Max			32,52	8,53	8,48E-06
Story1	Bottom	DES 1.0D+0.75L+0.755X	Combination	Max			35,64	8,53	8,48E-06
Story1	Top	DES 1.0D+0.75L+0.755X	Combination	Min			32,52	-8,53	-8,48E-06

Story	Location	T tonf-m	MX tonf-m	MY tonf-m
Story3	Top	0	0	0
Story3	Bottom	0	0	0
Story3	Top	0	3,31	-11,33
Story3	Bottom	0	3,31	-11,33
Story3	Top	0	0	0
Story3	Bottom	0	0	0
Story3	Top	0	0	0
Story3	Bottom	0	0	0
Story3	Top	0	11,27	-38,54
Story3	Bottom	0	13,25	-43,57
Story3	Top	0	27,82	-95,17
Story3	Bottom	0	29,8	-101,93
Story3	Top	0	23,69	-81,01
Story3	Bottom	0	25,66	-87,78
Story3	Top	9,61	11,27	-38,54
Story3	Bottom	9,61	13,25	-43,57
Story3	Top	-9,61	11,27	-38,54
Story3	Bottom	-9,61	13,25	-47,04
Story3	Top	35,27	11,27	-38,54
Story3	Bottom	35,27	15,08	-45,3
Story3	Top	-35,27	11,27	-38,54
Story3	Bottom	-35,27	11,41	-45,3
Story3	Top	7,21	23,69	-81,01
Story3	Bottom	7,21	25,66	-86,48
Story3	Top	-7,21	23,69	-81,01
Story3	Bottom	-7,21	25,66	-89,08
Story3	Top	26,46	23,69	-81,01
Story3	Bottom	26,46	27,04	-87,78
Story3	Top	-26,46	23,69	-81,01
Story3	Bottom	-26,46	24,29	-87,78
Story3	Top	9,61	6,76	-23,12
Story3	Bottom	9,61	7,95	-25,45
Story3	Top	-9,61	6,76	-23,12
Story3	Bottom	-9,61	7,95	-28,92
Story3	Top	35,27	6,76	-23,12
Story3	Bottom	35,27	9,78	-27,18
Story3	Top	-35,27	6,76	-23,12
Story3	Bottom	-35,27	6,11	-27,18
Story3	Top	0	15,77	-53,95
Story3	Bottom	0	18,54	-63,43
Story3	Top	0	40,01	-136,85
Story3	Bottom	0	42,39	-144,97
Story3	Top	28,85	30,08	-102,88
Story3	Bottom	28,85	33,24	-108,52
Story3	Top	-28,85	30,08	-102,88
Story3	Bottom	-28,85	31,66	-113,47
Story3	Top	54,51	30,08	-102,88
Story3	Bottom	54,51	35,08	-110,25
Story3	Top	-54,51	30,08	-102,88
Story3	Bottom	-54,51	29,83	-111,74
Story3	Top	28,85	30,08	-102,88
Story3	Bottom	28,85	33,24	-108,52
Story3	Top	-28,85	30,08	-102,88
Story3	Bottom	-28,85	31,66	-113,47
Story3	Top	54,51	30,08	-102,88
Story3	Bottom	54,51	35,08	-110,25
Story3	Top	-54,51	30,08	-102,88
Story3	Bottom	-54,51	29,83	-111,74
Story3	Top	0	10,14	-34,69
Story3	Bottom	0	11,92	-40,77
Story3	Top	28,85	10,14	-34,69
Story3	Bottom	28,85	12,71	-38,3
Story3	Top	-28,85	10,14	-34,69
Story3	Bottom	-28,85	11,13	-43,25
Story3	Top	54,51	10,14	-34,69
Story3	Bottom	54,51	14,54	-40,03
Story3	Top	-54,51	10,14	-34,69
Story3	Bottom	-54,51	9,3	-41,52
Story3	Top	28,85	10,14	-34,69
Story3	Bottom	28,85	12,71	-38,3
Story3	Top	-28,85	10,14	-34,69
Story3	Bottom	-28,85	11,13	-43,25
Story3	Top	54,51	10,14	-34,69
Story3	Bottom	54,51	14,54	-40,03
Story3	Top	-54,51	10,14	-34,69
Story3	Bottom	-54,51	9,3	-41,52
Story3	Top	28,85	10,14	-34,69
Story3	Bottom	28,85	12,71	-38,3
Story3	Top	-28,85	10,14	-34,69
Story3	Bottom	-28,85	11,13	-43,25
Story3	Top	54,51	10,14	-34,69
Story3	Bottom	54,51	14,54	-40,03
Story3	Top	-54,51	10,14	-34,69
Story3	Bottom	-54,51	9,3	-41,52
Story3	Top	0	11,27	-38,54
Story3	Bottom	0	13,25	-45,3

Story	Location	T tonf-m	MX tonf-m	MY tonf-m
Story3	Bottom	54,51	35,08	-110,25
Story3	Top	-54,51	30,08	-102,88
Story3	Bottom	-54,51	29,83	-111,74
Story3	Top	28,85	30,08	-102,88
Story3	Bottom	28,85	33,24	-108,52
Story3	Top	-28,85	30,08	-102,88
Story3	Bottom	-28,85	31,66	-113,47
Story3	Top	54,51	30,08	-102,88
Story3	Bottom	54,51	35,08	-110,25
Story3	Top	-54,51	30,08	-102,88
Story3	Bottom	-54,51	29,83	-111,74
Story3	Top	0	10,14	-34,69
Story3	Bottom	0	11,92	-40,77
Story3	Top	28,85	10,14	-34,69
Story3	Bottom	28,85	12,71	-38,3
Story3	Top	-28,85	10,14	-34,69
Story3	Bottom	-28,85	11,13	-43,25
Story3	Top	54,51	10,14	-34,69
Story3	Bottom	54,51	14,54	-40,03
Story3	Top	-54,51	10,14	-34,69
Story3	Bottom	-54,51	9,3	-41,52
Story3	Top	28,85	10,14	-34,69
Story3	Bottom	28,85	12,71	-38,3
Story3	Top	-28,85	10,14	-34,69
Story3	Bottom	-28,85	11,13	-43,25
Story3	Top	54,51	10,14	-34,69
Story3	Bottom	54,51	14,54	-40,03
Story3	Top	-54,51	10,14	-34,69
Story3	Bottom	-54,51	9,3	-41,52
Story3	Top	28,85	10,14	-34,69
Story3	Bottom	28,85	12,71	-38,3
Story3	Top	-28,85	10,14	-34,69
Story3	Bottom	-28,85	11,13	-43,25
Story3	Top	54,51	10,14	-34,69
Story3	Bottom	54,51	14,54	-40,03
Story3	Top	-54,51	10,14	-34,69
Story3	Bottom	-54,51	9,3	-41,52
Story3	Top	0	11,27	-38,54
Story3	Bottom	0	13,25	-45,3

Story	Location	T tonf-m	MX tonf-m	MY tonf-m
Story3	Top	0	27,82	-95,17
Story3	Bottom	0	29,8	-101,93
Story3	Top	0	6,76	-23,12
Story3	Bottom	0	7,95	-27,18
Story3	Top	9,61	6,76	-23,12
Story3	Bottom	9,61	7,95	-25,45
Story3	Top	-9,61	6,76	-23,12
Story3	Bottom	-9,61	7,95	-28,92
Story3	Top	35,27	6,76	-23,12
Story3	Bottom	35,27	9,78	-27,18
Story3	Top	-35,27	6,76	-23,12
Story3	Bottom	-35,27	6,11	-27,18
Story3	Top	9,61	11,27	-38,54
Story3	Bottom	9,61	13,25	-43,57
Story3	Top	-9,61	11,27	-38,54
Story3	Bottom	-9,61	13,25	-47,04
Story3	Top	35,27	11,27	-38,54
Story3	Bottom	35,27	15,08	-45,3
Story3	Top	-35,27	11,27	-38,54
Story3	Bottom	-35,27	11,41	-45,3
Story3	Top	6,86	23,69	-81,01
Story3	Bottom	6,86	25,66	-86,54
Story3	Top	-6,86	23,69	-81,01
Story3	Bottom	-6,86	25,66	-89,01
Story3	Top	25,2	23,69	-81,01
Story3	Bottom	25,2	26,98	-87,78
Story3	Top	-25,2	23,69	-81,01
Story3	Bottom	-25,2	24,35	-87,78
Story3	Top	13,73	11,27	-38,54
Story3	Bottom	13,73	13,25	-42,83
Story3	Top	-13,73	11,27	-38,54
Story3	Bottom	-13,73	13,25	-47,78
Story3	Top	50,39	11,27	-38,54
Story3	Bottom	50,39	15,87	-45,3
Story3	Top	-50,39	11,27	-38,54
Story3	Bottom	-50,39	10,62	-45,3
Story3	Top	10,3	23,69	-81,01
Story3	Bottom	10,3	25,66	-85,92
Story3	Top	-10,3	23,69	-81,01
Story3	Bottom	-10,3	25,66	-89,63
Story3	Top	37,79	23,69	-81,01
Story3	Bottom	37,79	27,63	-87,78
Story3	Top	-37,79	23,69	-81,01
Story3	Bottom	-37,79	23,7	-87,78
Story3	Top	13,73	6,76	-23,12
Story3	Bottom	13,73	7,95	-24,71
Story3	Top	-13,73	6,76	-23,12
Story3	Bottom	-13,73	7,95	-29,66
Story3	Top	50,39	6,76	-23,12
Story3	Bottom	50,39	10,57	-27,18
Story3	Top	-50,39	6,76	-23,12
Story3	Bottom	-50,39	5,32	-27,18
Story3	Top	0	11,27	-38,54
Story3	Bottom	0	13,25	-45,3
Story3	Top	0	11,27	-38,54

Story	Location	T tonf-m	MX tonf-m	MY tonf-m
Story3	Bottom	0	13,25	-45,3
Story3	Top	0	23,69	-81,01
Story3	Bottom	0	25,66	-87,78
Story3	Top	0	23,69	-81,01
Story3	Bottom	0	25,66	-87,78
Story3	Top	0	6,76	-23,12
Story3	Bottom	0	7,95	-27,18
Story3	Top	0	6,76	-23,12
Story3	Bottom	0	7,95	-27,18
Story3	Top	0	13,52	-46,25
Story3	Bottom	0	15,9	-54,37
Story3	Top	0	13,52	-46,25
Story3	Bottom	0	15,9	-54,37
Story3	Top	0	10,14	-34,69
Story3	Bottom	0	11,92	-40,77
Story3	Top	0	10,14	-34,69
Story3	Bottom	0	11,92	-40,77
Story3	Top	0	30,08	-102,88
Story3	Bottom	0	32,45	-110,99
Story3	Top	0	30,08	-102,88
Story3	Bottom	0	32,45	-110,99
Story3	Top	0	11,27	-38,54
Story3	Bottom	0	13,25	-45,3
Story3	Top	0	27,82	-95,17
Story3	Bottom	0	29,8	-101,93
Story2	Top	0	15,89	-66,77
Story2	Bottom	0	19,35	-81,68
Story2	Top	0	28,95	-124,86
Story2	Bottom	0	28,95	-124,86
Story2	Top	20,33	2,435E-06	2,48
Story2	Bottom	20,33	1,701E-06	6,68
Story2	Top	77,64	2,62	2,371E-06
Story2	Bottom	77,64	6,43	1,694E-06
Story2	Top	13,37	0	0
Story2	Bottom	13,37	0	-3,63
Story2	Top	-69,75	0	0
Story2	Bottom	-69,75	3,63	0
Story2	Top	0	5,79	-24,97
Story2	Bottom	0	5,79	-24,97
Story2	Top	0	0	0
Story2	Bottom	0	0	0
Story2	Top	0	0	0
Story2	Bottom	0	0	0
Story2	Top	0	21,68	-91,74
Story2	Bottom	0	25,14	-106,65
Story2	Top	0	50,62	-216,59
Story2	Bottom	0	54,08	-231,51
Story2	Top	0	43,39	-185,38
Story2	Bottom	0	46,85	-200,3
Story2	Top	14,23	21,68	-90
Story2	Bottom	14,23	25,14	-101,98
Story2	Top	-14,23	21,68	-93,47
Story2	Bottom	-14,23	25,14	-111,33
Story2	Top	54,35	23,51	-91,74
Story2	Bottom	54,35	29,64	-106,65

Story	Location	T tonf-m	MX tonf-m	MY tonf-m
Story2	Top	-54,35	19,84	-91,74
Story2	Bottom	-54,35	20,63	-106,65
Story2	Top	10,67	43,39	-184,08
Story2	Bottom	10,67	46,85	-196,79
Story2	Top	-10,67	43,39	-186,68
Story2	Bottom	-10,67	46,85	-203,8
Story2	Top	40,76	44,77	-185,38
Story2	Bottom	40,76	50,22	-200,3
Story2	Top	-40,76	42,01	-185,38
Story2	Bottom	-40,76	43,47	-200,3
Story2	Top	14,23	13,01	-53,31
Story2	Bottom	14,23	15,08	-59,32
Story2	Top	-14,23	13,01	-56,78
Story2	Bottom	-14,23	15,08	-68,67
Story2	Top	54,35	14,84	-55,04
Story2	Bottom	54,35	19,58	-63,99
Story2	Top	-54,35	11,17	-55,04
Story2	Bottom	-54,35	10,58	-63,99
Story2	Top	0	30,35	-128,43
Story2	Bottom	0	35,19	-149,32
Story2	Top	0	72,33	-309,86
Story2	Bottom	0	76,48	-327,76
Story2	Top	43,62	55,75	-232,47
Story2	Bottom	43,62	61,04	-246,16
Story2	Top	-43,62	54,17	-237,42
Story2	Bottom	-43,62	57,18	-259,52
Story2	Top	83,74	57,58	-234,2
Story2	Bottom	83,74	65,54	-250,84
Story2	Top	-83,74	52,34	-235,68
Story2	Bottom	-83,74	52,68	-254,84
Story2	Top	43,62	55,75	-232,47
Story2	Bottom	43,62	61,04	-246,16
Story2	Top	-43,62	54,17	-237,42
Story2	Bottom	-43,62	57,18	-259,52
Story2	Top	83,74	57,58	-234,2
Story2	Bottom	83,74	65,54	-250,84
Story2	Top	-83,74	52,34	-235,68
Story2	Bottom	-83,74	52,68	-254,84
Story2	Top	43,62	55,75	-232,47
Story2	Bottom	43,62	61,04	-246,16
Story2	Top	-43,62	54,17	-237,42
Story2	Bottom	-43,62	57,18	-259,52
Story2	Top	83,74	57,58	-234,2
Story2	Bottom	83,74	65,54	-250,84
Story2	Top	-83,74	52,34	-235,68
Story2	Bottom	-83,74	52,68	-254,84
Story2	Top	0	19,51	-82,56

Story	Location	T tonf-m	MX tonf-m	MY tonf-m
Story2	Bottom	0	22,62	-95,99
Story2	Top	43,62	20,3	-80,09
Story2	Bottom	43,62	24,55	-89,31
Story2	Top	-43,62	18,72	-85,04
Story2	Bottom	-43,62	20,69	-102,67
Story2	Top	83,74	22,13	-81,82
Story2	Bottom	83,74	29,06	-93,99
Story2	Top	-83,74	16,89	-83,31
Story2	Bottom	-83,74	16,19	-97,99
Story2	Top	43,62	20,3	-80,09
Story2	Bottom	43,62	24,55	-89,31
Story2	Top	-43,62	18,72	-85,04
Story2	Bottom	-43,62	20,69	-102,67
Story2	Top	83,74	22,13	-81,82
Story2	Bottom	83,74	29,06	-93,99
Story2	Top	-83,74	16,89	-83,31
Story2	Bottom	-83,74	16,19	-97,99
Story2	Top	43,62	20,3	-80,09
Story2	Bottom	43,62	24,55	-89,31
Story2	Top	-43,62	18,72	-85,04
Story2	Bottom	-43,62	20,69	-102,67
Story2	Top	83,74	22,13	-81,82
Story2	Bottom	83,74	29,06	-93,99
Story2	Top	-83,74	16,89	-83,31
Story2	Bottom	-83,74	16,19	-97,99
Story2	Top	43,62	20,3	-80,09
Story2	Bottom	43,62	24,55	-89,31
Story2	Top	-43,62	18,72	-85,04
Story2	Bottom	-43,62	20,69	-102,67
Story2	Top	83,74	22,13	-81,82
Story2	Bottom	83,74	29,06	-93,99
Story2	Top	-83,74	16,89	-83,31
Story2	Bottom	-83,74	16,19	-97,99
Story2	Top	0	21,68	-91,74
Story2	Bottom	0	25,14	-106,65
Story2	Top	0	50,62	-216,59
Story2	Bottom	0	54,08	-231,51
Story2	Top	0	13,01	-55,04
Story2	Bottom	0	15,08	-63,99
Story2	Top	14,23	13,01	-53,31
Story2	Bottom	14,23	15,08	-59,32
Story2	Top	-14,23	13,01	-56,78
Story2	Bottom	-14,23	15,08	-68,67
Story2	Top	54,35	14,84	-55,04
Story2	Bottom	54,35	19,58	-63,99
Story2	Top	-54,35	11,17	-55,04
Story2	Bottom	-54,35	10,58	-63,99
Story2	Top	14,23	21,68	-90
Story2	Bottom	14,23	25,14	-101,98
Story2	Top	-14,23	21,68	-93,47
Story2	Bottom	-14,23	25,14	-111,33
Story2	Top	54,35	23,51	-91,74
Story2	Bottom	54,35	29,64	-106,65
Story2	Top	-54,35	19,84	-91,74
Story2	Bottom	-54,35	20,63	-106,65

Story	Location	T tonf-m	MX tonf-m	MY tonf-m
Story2	Top	10,16	43,39	-184,14
Story2	Bottom	10,16	46,85	-196,96
Story2	Top	-10,16	43,39	-186,62
Story2	Bottom	-10,16	46,85	-203,64
Story2	Top	38,82	44,7	-185,38
Story2	Bottom	38,82	50,06	-200,3
Story2	Top	-38,82	42,08	-185,38
Story2	Bottom	-38,82	43,63	-200,3
Story2	Top	20,33	21,68	-89,26
Story2	Bottom	20,33	25,14	-99,98
Story2	Top	-20,33	21,68	-94,21
Story2	Bottom	-20,33	25,14	-113,33
Story2	Top	77,64	24,3	-91,74
Story2	Bottom	77,64	31,57	-106,65
Story2	Top	-77,64	19,05	-91,74
Story2	Bottom	-77,64	18,7	-106,65
Story2	Top	15,25	43,39	-183,52
Story2	Bottom	15,25	46,85	-195,29
Story2	Top	-15,25	43,39	-187,24
Story2	Bottom	-15,25	46,85	-205,31
Story2	Top	58,23	45,36	-185,38
Story2	Bottom	58,23	51,67	-200,3
Story2	Top	-58,23	41,42	-185,38
Story2	Bottom	-58,23	42,02	-200,3
Story2	Top	20,33	13,01	-52,57
Story2	Bottom	20,33	15,08	-57,31
Story2	Top	-20,33	13,01	-57,52
Story2	Bottom	-20,33	15,08	-70,67
Story2	Top	77,64	15,63	-55,04
Story2	Bottom	77,64	21,51	-63,99
Story2	Top	-77,64	10,38	-55,04
Story2	Bottom	-77,64	8,65	-63,99
Story2	Top	0	21,68	-91,74
Story2	Bottom	0	25,14	-106,65
Story2	Top	0	21,68	-91,74
Story2	Bottom	0	25,14	-106,65
Story2	Top	0	43,39	-185,38
Story2	Bottom	0	46,85	-200,3
Story2	Top	0	43,39	-185,38
Story2	Bottom	0	46,85	-200,3
Story2	Top	0	13,01	-55,04
Story2	Bottom	0	15,08	-63,99
Story2	Top	0	13,01	-55,04
Story2	Bottom	0	15,08	-63,99
Story2	Top	0	26,01	-110,08
Story2	Bottom	0	30,16	-127,99
Story2	Top	0	26,01	-110,08
Story2	Bottom	0	30,16	-127,99
Story2	Top	0	19,51	-82,56
Story2	Bottom	0	22,62	-95,99
Story2	Top	0	19,51	-82,56
Story2	Bottom	0	22,62	-95,99
Story2	Top	0	54,96	-234,94
Story2	Bottom	0	59,11	-252,84
Story2	Top	0	54,96	-234,94

Story	Location	T tonf-m	MX tonf-m	MY tonf-m
Story2	Bottom	0	59,11	-252,84
Story2	Top	0	21,68	-91,74
Story2	Bottom	0	25,14	-106,65
Story2	Top	0	50,62	-216,59
Story2	Bottom	0	54,08	-231,51
Story1	Top	0	20,74	-104,63
Story1	Bottom	0	25,27	-130,4
Story1	Top	0	31,84	-172,6
Story1	Bottom	0	31,84	-172,6
Story1	Top	21,51	1,701E-06	6,68
Story1	Bottom	21,51	5,755E-06	12,27
Story1	Top	91,67	6,43	1,694E-06
Story1	Bottom	91,67	11,74	1,611E-06
Story1	Top	16,74	0	-3,63
Story1	Bottom	16,74	0	-9,83
Story1	Top	-102,43	3,63	0
Story1	Bottom	-102,43	9,83	0
Story1	Top	0	6,37	-34,52
Story1	Bottom	0	6,37	-34,52
Story1	Top	0	0	0
Story1	Bottom	0	0	0
Story1	Top	0	0	0
Story1	Bottom	0	0	0
Story1	Top	0	27,1	-139,15
Story1	Bottom	0	31,63	-164,92
Story1	Top	0	58,94	-311,75
Story1	Bottom	0	63,47	-337,52
Story1	Top	0	50,98	-268,6
Story1	Bottom	0	55,51	-294,37
Story1	Top	15,06	27,1	-134,47
Story1	Bottom	15,06	31,63	-156,33
Story1	Top	-15,06	27,1	-143,82
Story1	Bottom	-15,06	31,63	-173,5
Story1	Top	64,17	31,61	-139,15
Story1	Bottom	64,17	39,85	-164,92
Story1	Top	-64,17	22,6	-139,15
Story1	Bottom	-64,17	23,42	-164,92
Story1	Top	11,29	50,98	-265,09
Story1	Bottom	11,29	55,51	-287,93
Story1	Top	-11,29	50,98	-272,1
Story1	Bottom	-11,29	55,51	-300,81
Story1	Top	48,13	54,36	-268,6
Story1	Bottom	48,13	61,68	-294,37
Story1	Top	-48,13	47,6	-268,6
Story1	Bottom	-48,13	49,35	-294,37
Story1	Top	15,06	16,26	-78,81
Story1	Bottom	15,06	18,98	-90,36
Story1	Top	-15,06	16,26	-88,16
Story1	Bottom	-15,06	18,98	-107,54
Story1	Top	64,17	20,76	-83,49
Story1	Bottom	64,17	27,2	-98,95
Story1	Top	-64,17	11,76	-83,49
Story1	Bottom	-64,17	10,76	-98,95
Story1	Top	0	37,94	-194,8
Story1	Bottom	0	44,29	-230,88

Story	Location	T tonf-m	MX tonf-m	MY tonf-m
Story1	Top	0	83,46	-443,13
Story1	Bottom	0	88,9	-474,06
Story1	Top	49,01	66,29	-332,9
Story1	Bottom	49,01	73,32	-358,23
Story1	Top	-49,01	62,43	-346,25
Story1	Bottom	-49,01	66,28	-382,77
Story1	Top	98,13	70,79	-337,57
Story1	Bottom	98,13	81,54	-366,82
Story1	Top	-98,13	57,93	-341,58
Story1	Bottom	-98,13	58,06	-374,18
Story1	Top	49,01	66,29	-332,9
Story1	Bottom	49,01	73,32	-358,23
Story1	Top	-49,01	62,43	-346,25
Story1	Bottom	-49,01	66,28	-382,77
Story1	Top	98,13	70,79	-337,57
Story1	Bottom	98,13	81,54	-366,82
Story1	Top	-98,13	57,93	-341,58
Story1	Bottom	-98,13	58,06	-374,18
Story1	Top	49,01	66,29	-332,9
Story1	Bottom	49,01	73,32	-358,23
Story1	Top	-49,01	62,43	-346,25
Story1	Bottom	-49,01	66,28	-382,77
Story1	Top	98,13	70,79	-337,57
Story1	Bottom	98,13	81,54	-366,82
Story1	Top	-98,13	57,93	-341,58
Story1	Bottom	-98,13	58,06	-374,18
Story1	Top	0	24,39	-125,23
Story1	Bottom	0	28,47	-146,42
Story1	Top	49,01	26,32	-118,55
Story1	Bottom	49,01	31,99	-136,16
Story1	Top	-49,01	22,46	-131,91
Story1	Bottom	-49,01	24,95	-160,69
Story1	Top	98,13	30,83	-123,23
Story1	Bottom	98,13	40,21	-144,74
Story1	Top	-98,13	17,96	-127,23
Story1	Bottom	-98,13	16,73	-152,11
Story1	Top	49,01	26,32	-118,55
Story1	Bottom	49,01	31,99	-136,16
Story1	Top	-49,01	22,46	-131,91

Story	Location	T tonf-m	MX tonf-m	MY tonf-m
Story1	Bottom	-49,01	24,95	-160,69
Story1	Top	98,13	30,83	-123,23
Story1	Bottom	98,13	40,21	-144,74
Story1	Top	-98,13	17,96	-127,23
Story1	Bottom	-98,13	16,73	-152,11
Story1	Top	49,01	26,32	-118,55
Story1	Bottom	49,01	31,99	-136,16
Story1	Top	-49,01	22,46	-131,91
Story1	Bottom	-49,01	24,95	-160,69
Story1	Top	98,13	30,83	-123,23
Story1	Bottom	98,13	40,21	-144,74
Story1	Top	-98,13	17,96	-127,23
Story1	Bottom	-98,13	16,73	-152,11
Story1	Top	0	27,1	-139,15
Story1	Bottom	0	31,63	-164,92
Story1	Top	0	58,94	-311,75
Story1	Bottom	0	63,47	-337,52
Story1	Top	0	16,26	-83,49
Story1	Bottom	0	18,98	-98,95
Story1	Top	15,06	16,26	-78,81
Story1	Bottom	15,06	18,98	-90,36
Story1	Top	-15,06	16,26	-88,16
Story1	Bottom	-15,06	18,98	-107,54
Story1	Top	64,17	20,76	-83,49
Story1	Bottom	64,17	27,2	-98,95
Story1	Top	-64,17	11,76	-83,49
Story1	Bottom	-64,17	10,76	-98,95
Story1	Top	15,06	27,1	-134,47
Story1	Bottom	15,06	31,63	-156,33
Story1	Top	-15,06	27,1	-143,82
Story1	Bottom	-15,06	31,63	-173,5
Story1	Top	64,17	31,61	-139,15
Story1	Bottom	64,17	39,85	-164,92
Story1	Top	-64,17	22,6	-139,15
Story1	Bottom	-64,17	23,42	-164,92
Story1	Top	10,75	50,98	-265,26
Story1	Bottom	10,75	55,51	-288,23
Story1	Top	-10,75	50,98	-271,93
Story1	Bottom	-10,75	55,51	-300,5
Story1	Top	45,84	54,2	-268,6
Story1	Bottom	45,84	61,38	-294,37
Story1	Top	-45,84	47,76	-268,6
Story1	Bottom	-45,84	49,64	-294,37
Story1	Top	21,51	27,1	-132,47
Story1	Bottom	21,51	31,63	-152,65
Story1	Top	-21,51	27,1	-145,82
Story1	Bottom	-21,51	31,63	-177,18
Story1	Top	91,67	33,54	-139,15
Story1	Bottom	91,67	43,38	-164,92
Story1	Top	-91,67	20,67	-139,15
Story1	Bottom	-91,67	19,89	-164,92
Story1	Top	16,13	50,98	-263,59
Story1	Bottom	16,13	55,51	-285,17
Story1	Top	-16,13	50,98	-273,6
Story1	Bottom	-16,13	55,51	-303,57

Story	Location	T tonf-m	MX tonf-m	MY tonf-m
Story1	Top	68,75	55,8	-268,6
Story1	Bottom	68,75	64,32	-294,37
Story1	Top	-68,75	46,16	-268,6
Story1	Bottom	-68,75	46,71	-294,37
Story1	Top	21,51	16,26	-76,81
Story1	Bottom	21,51	18,98	-86,68
Story1	Top	-21,51	16,26	-90,17
Story1	Bottom	-21,51	18,98	-111,22
Story1	Top	91,67	22,69	-83,49
Story1	Bottom	91,67	30,72	-98,95
Story1	Top	-91,67	9,83	-83,49
Story1	Bottom	-91,67	7,24	-98,95
Story1	Top	0	27,1	-139,15
Story1	Bottom	0	31,63	-164,92
Story1	Top	0	27,1	-139,15
Story1	Bottom	0	31,63	-164,92
Story1	Top	0	50,98	-268,6
Story1	Bottom	0	55,51	-294,37
Story1	Top	0	50,98	-268,6
Story1	Bottom	0	55,51	-294,37
Story1	Top	0	16,26	-83,49
Story1	Bottom	0	18,98	-98,95
Story1	Top	0	16,26	-83,49
Story1	Bottom	0	18,98	-98,95
Story1	Top	0	32,52	-166,97
Story1	Bottom	0	37,96	-197,9
Story1	Top	0	32,52	-166,97
Story1	Bottom	0	37,96	-197,9
Story1	Top	0	24,39	-125,23
Story1	Bottom	0	28,47	-148,42
Story1	Top	0	24,39	-125,23
Story1	Bottom	0	28,47	-148,42
Story1	Top	0	64,36	-339,57
Story1	Bottom	0	69,8	-370,5
Story1	Top	0	64,36	-339,57
Story1	Bottom	0	69,8	-370,5
Story1	Top	0	27,1	-139,15
Story1	Bottom	0	31,63	-164,92
Story1	Top	0	58,94	-311,75
Story1	Bottom	0	63,47	-337,52

Table 3.5 - Story Stiffness (Part 1 of 2)

Story	Output Case	Case Type	Step Type	Step Number	Step Label	Shear X tonf	Drift X mm	Stiff Xh tonf	Stiff X tonf/m	Shear Y tonf	Drift Y mm
Story3	SWEST	LinStatic	Step By Step	0	0,06	0	0	0	0,0004538	0	0
Story2	SWEST	LinStatic	Step By Step	8,44	0,14	62104,988	0	0,0007969	0	0	0
Story1	SWEST	LinStatic	Step By Step	12,4	0,1	129635,331	0	0,001447	0	0	0
Story3	SYEST	LinStatic	Step By Step	0	0,00168	0	0	0,002626	0	0	0
Story2	SYEST	LinStatic	Step By Step	0	0,002051	0	8,44	0,01	0	0	0
Story1	SYEST	LinStatic	Step By Step	0	0,001252	0	12,4	0,01	0	0	0

Table 3.5 - Story Stiffness (Part 2 of 2)

Story	Stiff Yh tonf	Stiff Y tonf/m	Irregular	Modifier
Story3	0			
Story2	0			
Story1	0			
Story3	0			
Story2	1175179,089			
Story1	1943765,018			

3.3 Modal Results

Table 3.6 - Modal Periods And Frequencies

Case	Mode	Period sec	Frequency cyc/sec	CircFreq rad/sec	Eigenvalue rad2/sec2
Modal	1	0,048	20,66	129,8094	16850,4928
Modal	2	0,018	56,607	355,6711	126501,9037
Modal	3	0,016	63,45	398,6684	158936,5268
Modal	4	0,016	64,32	404,132	163322,6688
Modal	5	0,015	67,802	426,0141	181488,0112
Modal	6	0,014	70,32	441,8362	195219,2227
Modal	7	0,013	78,684	494,3865	244417,9709
Modal	8	0,013	79,381	498,7668	248768,3684
Modal	9	0,011	87,66	550,7841	303363,1489
Modal	10	0,011	91,132	572,5974	327867,7862
Modal	11	0,01	96,728	607,7802	369372,5041
Modal	12	0,009	105,882	664,0191	444921,3583
Modal	13	0,009	117,528	738,451	545309,8828
Modal	14	0,008	120,826	759,2279	576436,9467
Modal	15	0,008	123,823	778,0055	605292,5187
Modal	16	0,008	126,681	795,9615	633554,6948
Modal	17	0,008	127,3	799,8466	639754,5256
Modal	18	0,008	130,312	818,7732	670389,6116
Modal	19	0,008	130,64	820,8333	673767,328
Modal	20	0,008	131,662	827,255	684350,8057
Modal	21	0,008	132,026	829,5445	688144,0368
Modal	22	0,008	133,199	836,9125	700422,572
Modal	23	0,007	134,196	843,1812	710954,468
Modal	24	0,007	134,249	843,5101	711509,315
Modal	25	0,007	134,454	844,8025	713691,2107
Modal	26	0,007	135,134	849,0898	720919,6023
Modal	27	0,007	136,027	854,6797	730477,4632
Modal	28	0,007	138,342	869,2298	755560,4573
Modal	29	0,007	140,67	883,8566	781202,4843
Modal	30	0,007	141,9	891,5831	794920,4756
Modal	31	0,007	143,485	901,54	812774,2899
Modal	32	0,007	143,52	901,764	813178,2474
Modal	33	0,007	149,055	936,5378	877103,117
Modal	34	0,006	153,928	967,1451	935389,7494
Modal	35	0,006	154,291	969,4366	939807,4025
Modal	36	0,006	157,012	986,534	973249,3536
Modal	37	0,006	176,946	1111,7825	1236060,2331
Modal	38	0,006	177,995	1118,3782	1250769,7133
Modal	39	0,005	190,356	1196,0395	1430510,4637
Modal	40	0,005	190,485	1196,8506	1432451,3693
Modal	41	0,005	191,384	1202,5041	1446016,1818
Modal	42	0,005	202,38	1271,5928	1616948,1546
Modal	43	0,005	208,455	1309,7613	1715474,5924

Case	Mode	Period sec	Frequency cyc/sec	CircFreq rad/sec	Eigenvalue rad/sec2
Modal	44	0,005	210,35	1321,6708	1746813,7822
Modal	45	0,005	214,78	1349,5003	1821150,9847
Modal	46	0,005	220,684	1386,5992	1922657,4414
Modal	47	0,004	224,773	1412,2896	1994561,9537
Modal	48	0,004	225,521	1416,9898	2007860,0519
Modal	49	0,004	227,276	1428,0178	2039234,713
Modal	50	0,004	234,191	1471,4642	2165206,8461
Modal	51	0,004	236,287	1484,6364	2204145,3071
Modal	52	0,004	236,565	1486,3792	2209323,0608
Modal	53	0,004	237,1	1489,7451	2219340,4901
Modal	54	0,004	241,183	1515,3395	2296422,1535
Modal	55	0,004	241,535	1517,6122	2303146,7003
Modal	56	0,004	243,946	1532,7674	2349345,2584
Modal	57	0,004	244,379	1535,4795	2357697,2741
Modal	58	0,004	251,005	1577,1124	2487283,4881
Modal	59	0,004	251,905	1582,7634	2505139,9565
Modal	60	0,004	255,911	1607,9333	2585449,3731

Table 3.7 - Modal Participating Mass Ratios (Part 1 of 2)

Case	Mode	Period sec	UX	UY	UZ	SumLX	SumLY	SumLZ	RX	RY	RZ
Modal	1	0,048	0,7625	0	0	0,7625	0	0	0	0,3877	0,0034
Modal	2	0,018	0,1164	0	0	0,8789	0	0	0	0,2733	0,0036
Modal	3	0,016	0	0,001	0	0,8789	0,001	0	0,0016	0	0
Modal	4	0,016	0	0,3242	0	0,8789	0,3252	0	0,2986	0	0
Modal	5	0,015	1,626E-05	0	0	0,8789	0,3252	0	0	0,0005	0,2626
Modal	6	0,014	0	0,1751	0	0,8789	0,5003	0	0,1338	0	0
Modal	7	0,013	0,0005	0	0	0,8795	0,5003	0	0	0,0021	0,099
Modal	8	0,013	0	0,0184	0	0,8795	0,5186	0	0,0155	0	0
Modal	9	0,011	0,0906	0	0	0,97	0,5186	0	0	0,2156	0,0114
Modal	10	0,011	0	0,0251	0	0,97	0,5437	0	0,0178	0	0
Modal	11	0,01	0	0,0038	0	0,97	0,5475	0	0,0008	0	0
Modal	12	0,009	4,081E-06	0	0	0,97	0,5475	0	0	2,343E-05	0,0729
Modal	13	0,009	0,0006	0	0	0,9707	0,5475	0	0	0,0019	0,0326
Modal	14	0,008	0	0,0777	0	0,9707	0,6252	0	0,0289	0	0
Modal	15	0,008	0,0004	0	0	0,9711	0,6252	0	0	0,0032	0,1464
Modal	16	0,008	0	0,0054	0	0,9711	0,6306	0	0,0002	0	0
Modal	17	0,008	0,0001	0	0	0,9711	0,6306	0	0	0,0001	0,0004
Modal	18	0,008	1,435E-05	0	0	0,9711	0,6306	0	0	1,648E-05	0,0148
Modal	19	0,008	0	0,023	0	0,9711	0,6537	0	0,0263	0	0
Modal	20	0,008	0	0,0885	0	0,9711	0,7422	0	0,0644	0	0
Modal	21	0,008	0,0003	0	0	0,9715	0,7422	0	0	0,0013	0,0308
Modal	22	0,008	1,626E-05	0	0	0,9715	0,7422	0	0	0,0002	0,0065
Modal	23	0,007	0	0,0144	0	0,9715	0,7566	0	0,01	0	0
Modal	24	0,007	0	0,0706	0	0,9715	0,8272	0	0,0297	0	0
Modal	25	0,007	5,733E-06	0	0	0,9715	0,8272	0	0	0,0002	0,0428
Modal	26	0,007	5,23E-06	0	0	0,9715	0,8272	0	0	2,657E-05	0,0841
Modal	27	0,007	0	0,0059	0	0,9715	0,8329	0	2,349E-05	0	0
Modal	28	0,007	0,007	0	0	0,9785	0,8329	0	0	0,021	0,0045
Modal	29	0,007	0,0016	0	0	0,9801	0,8329	0	0	0,0062	0,0088
Modal	30	0,007	0	0,0026	0	0,9801	0,8355	0	0,0001	0	0
Modal	31	0,007	0,0002	0	0	0,9803	0,8355	0	0	0,001	0,0031
Modal	32	0,007	0	0,001	0	0,9803	0,8366	0	0,0002	0	0
Modal	33	0,007	0,002	0	0	0,9823	0,8366	0	0	0,0099	0,0026
Modal	34	0,006	0	0,0372	0	0,9823	0,8738	0	0,0993	0	0

Case	Mode	Period sec	UX	UY	UZ	SumLX	SumLY	SumLZ	RX	RY	RZ
Modal	35	0,006	1,986E-05	0	0	0,9823	0,8738	0	0	0,0001	0,0427
Modal	36	0,006	0	0,0009	0	0,9823	0,8747	0	0,0031	0	0
Modal	37	0,006	0	0	0	0,9823	0,8747	0	0	3,257E-05	0,0014
Modal	38	0,006	0	0,0005	0	0,9823	0,8752	0	0,0006	0	0
Modal	39	0,005	0	0,0015	0	0,9823	0,8767	0	0,0011	0	0
Modal	40	0,005	0,0003	0	0	0,9826	0,8767	0	0	0,0005	0,0021
Modal	41	0,005	0	0,0003	0	0,9826	0,877	0	0,0003	0	0
Modal	42	0,005	0	0,0001	0	0,9826	0,8771	0	0,0002	0	0
Modal	43	0,005	0,0001	0	0	0,9826	0,8771	0	0	0,0002	0,0006
Modal	44	0,005	0	0,0065	0	0,9826	0,8836	0	0,0059	0	0
Modal	45	0,005	0,0007	0	0	0,9833	0,8836	0	0	0,0027	0,0002
Modal	46	0,005	0	0	0	0,9833	0,8836	0	0	1,146E-06	0,0339
Modal	47	0,004	0	0,0001	0	0,9833	0,8837	0	3,129E-05	0	0
Modal	48	0,004	0,0007	0	0	0,984	0,8837	0	0	0,0029	0,0135
Modal	49	0,004	0	0,0225	0	0,984	0,9061	0	0,0188	0	0
Modal	50	0,004	0,0001	0	0	0,9841	0,9061	0	0	0,0002	0,0001
Modal	51	0,004	0	0,0179	0	0,9841	0,924	0	0,0121	0	0
Modal	52	0,004	0,0015	0	0	0,9856	0,924	0	0	0,0069	0,0543
Modal	53	0,004	0,0002	0	0	0,9858	0,924	0	0	0,0008	0,0028
Modal	54	0,004	0	0,0005	0	0,9858	0,9245	0	3,979E-05	0	0
Modal	55	0,004	0	0,0003	0	0,9858	0,9248	0	0,0001	0	0
Modal	56	0,004	0,001	0	0	0,9867	0,9248	0	0	0,0036	0,0044
Modal	57	0,004	0,0045	0	0	0,9912	0,9248	0	0	0,0186	0,0065
Modal	58	0,004	0	0,0044	0	0,9912	0,9291	0	0,0033	0	0
Modal	59	0,004	0,0006	0	0	0,9918	0,9291	0	0	0,0025	0,0049
Modal	60	0,004	0,0005	0	0	0,9923	0,9291	0	0	0,002	0,0003

Table 3.7 - Modal Participating Mass Ratios (Part 2 of 2)

Case	Mode	SumRX	SumRY	SumRZ
Modal	1	0	0,3877	0,0034
Modal	2	0	0,661	0,007
Modal	3	0,0016	0,661	0,007
Modal	4	0,3002	0,661	0,007
Modal	5	0,3002	0,6615	0,2696
Modal	6	0,434	0,6615	0,2696
Modal	7	0,434	0,6636	0,3686
Modal	8	0,4495	0,6636	0,3686
Modal	9	0,4495	0,8792	0,38
Modal	10	0,4673	0,8792	0,38
Modal	11	0,4681	0,8792	0,38
Modal	12	0,4681	0,8792	0,4529
Modal	13	0,4681	0,8811	0,4855
Modal	14	0,497	0,8811	0,4855
Modal	15	0,497	0,8843	0,6319
Modal	16	0,4972	0,8843	0,6319
Modal	17	0,4972	0,8844	0,6323
Modal	18	0,4972	0,8844	0,6471
Modal	19	0,5224	0,8844	0,6471
Modal	20	0,5878	0,8844	0,6471
Modal	21	0,5878	0,8857	0,6779
Modal	22	0,5878	0,8859	0,6844
Modal	23	0,5978	0,8859	0,6844
Modal	24	0,6275	0,8859	0,6844
Modal	25	0,6275	0,8861	0,7272
Modal	26	0,6275	0,8861	0,7312

Case	Mode	SumRX	SumRY	SumRZ
Modal	27	0,6275	0,8861	0,7312
Modal	28	0,6275	0,9171	0,7358
Modal	29	0,6275	0,9233	0,7445
Modal	30	0,6277	0,9233	0,7445
Modal	31	0,6277	0,9243	0,7476
Modal	32	0,6279	0,9243	0,7476
Modal	33	0,6279	0,9342	0,7502
Modal	34	0,7272	0,9342	0,7502
Modal	35	0,7272	0,9343	0,7929
Modal	36	0,7603	0,9343	0,7929
Modal	37	0,7603	0,9343	0,7942
Modal	38	0,7609	0,9343	0,7942
Modal	39	0,762	0,9343	0,7942
Modal	40	0,762	0,9349	0,7963
Modal	41	0,7623	0,9349	0,7963
Modal	42	0,7625	0,9349	0,7963
Modal	43	0,7625	0,935	0,7969
Modal	44	0,7684	0,935	0,7969
Modal	45	0,7684	0,9376	0,7971
Modal	46	0,7684	0,9376	0,831
Modal	47	0,7684	0,9376	0,831
Modal	48	0,7684	0,9406	0,8445
Modal	49	0,7872	0,9406	0,8445
Modal	50	0,7872	0,9407	0,8446
Modal	51	0,7993	0,9407	0,8446
Modal	52	0,7993	0,9476	0,8889
Modal	53	0,7993	0,9484	0,9017
Modal	54	0,7994	0,9484	0,9017
Modal	55	0,7994	0,9484	0,9017
Modal	56	0,7994	0,952	0,9061
Modal	57	0,7994	0,9707	0,9126
Modal	58	0,8027	0,9707	0,9126
Modal	59	0,8027	0,9732	0,9174
Modal	60	0,8027	0,9752	0,9178

Table 3.8 - Modal Load Participation Ratios

Case	ItemType	Item	Static %	Dynamic %
Modal	Acceleration	UX	100	99,23
Modal	Acceleration	UY	99,52	92,91
Modal	Acceleration	UZ	0	0

Table 3.9 - Modal Direction Factors

Case	Mode	Period sec	UX	UY	UZ	RZ
Modal	1	0,048	0,973	0	0	0,027
Modal	2	0,018	0,378	0	0	0,622
Modal	3	0,016	0	1	0	0
Modal	4	0,016	0	1	0	0
Modal	5	0,015	0,002	0	0	0,998
Modal	6	0,014	0	1	0	0
Modal	7	0,013	0,006	0	0	0,994
Modal	8	0,013	0	1	0	0
Modal	9	0,011	0,665	0	0	0,335
Modal	10	0,011	0	1	0	0

Case	Mode	Period sec	UX	UY	UZ	RZ
Modal	11	0,01	0	1	0	0
Modal	12	0,009	0	0	0	1