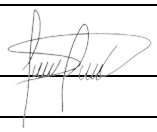
MEMORIA DE CALCULO ESTRUCTURAL	**Proyecto:** "CONSULTORÍA PARA LOS ESTUDIOS TÉCNICOS Y DISEÑOS PARA EL MEJORAMIENTO DEL ESPACIO PÚBLICO DEL MUNICIPIO DE SUESCA, CUNDINAMARCA."	**FECHA: 2026/05/06** **Versión** 1	

ESPACIO PUBLICO SUESCA.

Revisión	Modificaciones	Fecha
1	Emisión para aprobación de Interventoría	06/05/2023

Elaboración – Revisión – Aprobación				
Revisión	**Elaborado por:**		**Revisor Estructural Independiente**	
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BOGOTA D.C., 06 DE MAYO 2026

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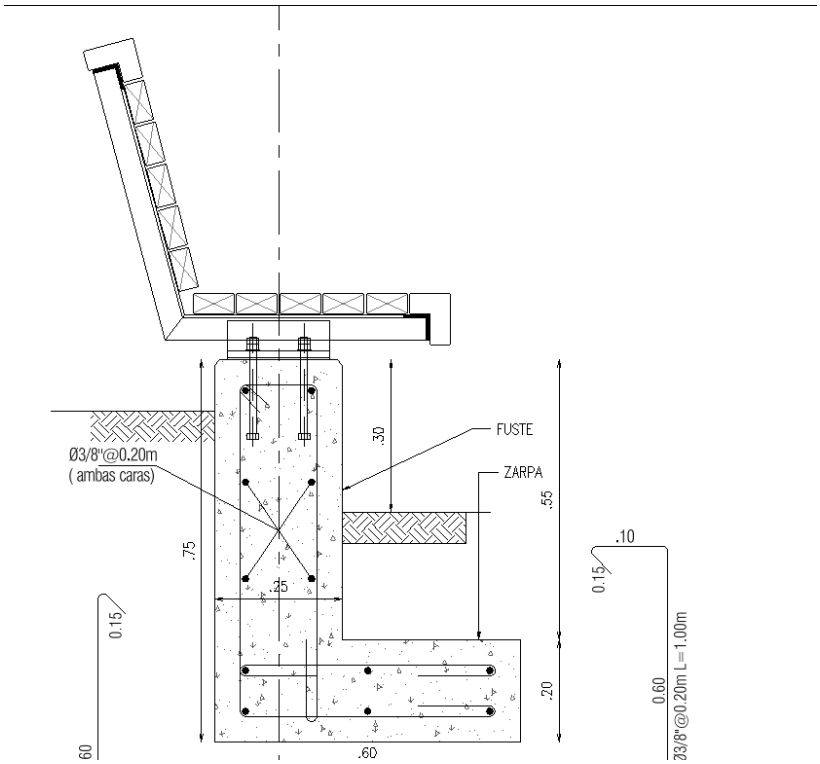
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1. INTRODUCCIÓN

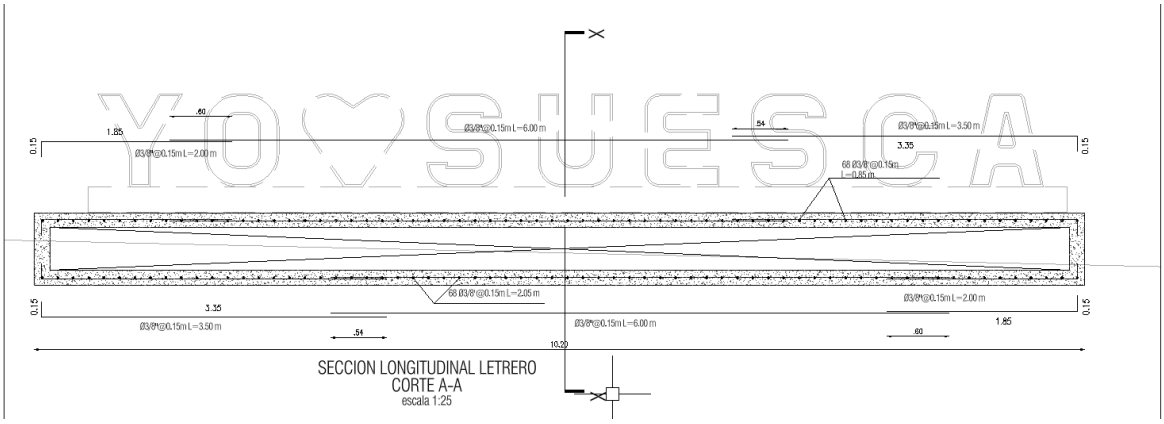
Dentro de las actividades de la consultoría para mejorar el espacio publico del parque principal del municipio de Suesca se hace necesario verificar el diseño y detallado constructivo en términos de verificación de materiales, estabilidad y resistencia de algunos elementos propuestos a instalar.

Las estructuras a verificar son

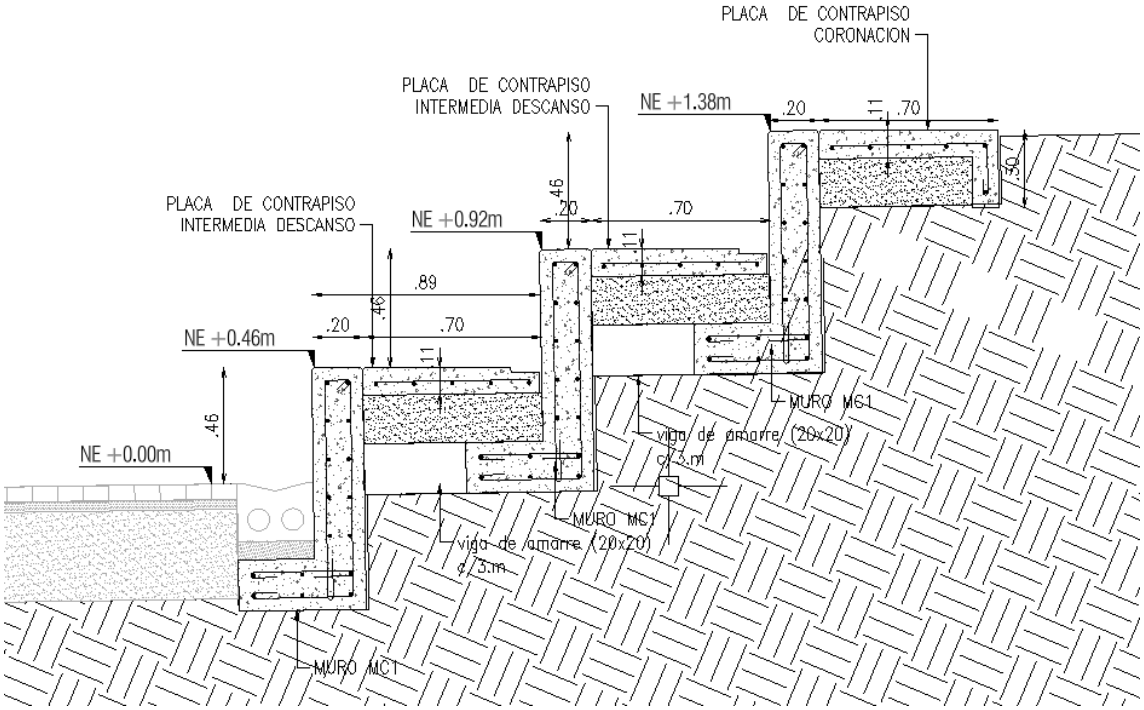
1. **BANCA CORRIDA EN MADERA SOBRE BORDILLO EN CONCRETO**: consiste en un elemento corrido de concreto reforzado sobre el cual se apoya una banca en madera, el elemento corrido contiene un desnivel de terreno de máximo 30 cm.

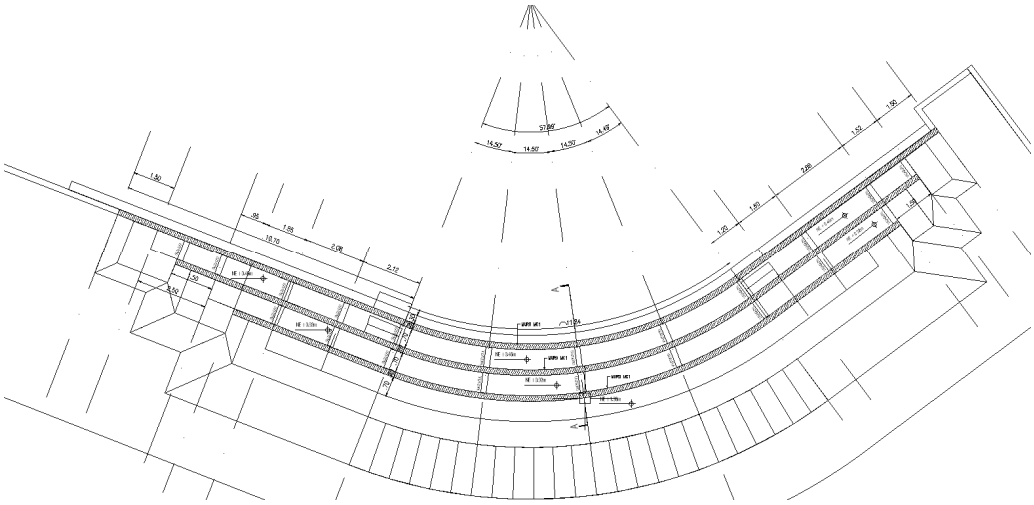


2. **SOPORTE DEL LETRERO DE SUESCA**: consiste en un cajón de concreto hueco de sección transversal 75cm de alto por 70 de ancho con paredes de 15 cm con una longitud total de 10.2 m sobre el que se apoya las letras escultóricas "YO ♥ SUESCA"



3. **GRADERIAS**: Consiste en un entramado de graderías de tres pasos con contrahuellas de aproximadamente 45 cm y huellas o bancas de 90 cm aproximadamente, se plantea mediante pequeñas contenciones de 45 cm vinculadas en la corona con vías de amarre.





En cada caso se verifica la capacidad de los materiales para cumplir los requerimientos de fuerzas y garantizar el desempeño correcto y la durabilidad de los mismos.

1.1.OBJETIVO

El presente documento describe los criterios, métodos y materiales empleados en el dimensionamiento de las obras de contención dirigidas a la construcción y estabilidad de las obras de espacio publico en el municipio de Suesca.

1.2.ALCANCE

Si bien se trata de contenciones menores, tanto para la banca como para las graderías la condición más relevante es la contención de los rellenos, por lo tanto se hace una evaluación de las siguientes condiciones.

- Deslizamiento
- Volcamiento
- Estabilidad
- Resistencia estructural

2. DISEÑO MUROS DE CONTENCION BANCA Y GRADERIAS

Los parámetros geotécnicos requeridos para la verificación de la estabilidad de la estructura son tomados de los resultados de la exploración geotécnica del estudio mencionado en los párrafos anteriores.

2.1. LOCALIZACIÓN

El proyecto se encuentra ubicado en el municipio de Suesca, departamento de Cundinamarca.

2.2. NIVEL DE AMENAZA SÍSMICA

Según lo establece la Norma NSR-10, el Municipio de Manizales se encuentra ubicado dentro de una zona de amenaza sísmica **Intermadia**, por lo tanto, para el diseño se toma el espectro correspondiente del reglamento Colombiano de Construcción Sismo resistente NSR-10.

2.3. SUELO DE RELLENO

- Angulo de fricción, $\emptyset = 30°$
- Peso unitario, $\gamma = 1.60 \frac{t}{m^3}$
- Angulo de talud, $i(°) = 00.0$
- Angulo de fricción entre suelo y el muro, $\delta = 15$ se recomienda que este valor sea $\emptyset/2$.

2.4.SUELO DE FUNDACION

- Angulo de fricción interna, $\emptyset = 30°$
- Factor de fricción, $\mu = 0.38$
- Capacidad de carga del suelo $q_a = 15.0 \frac{ton}{m^2}$

2.5.MATERIAL DEL MURO

Para el cálculo se utilizó una resistencia a compresión del concreto $f'_c = 24.5 \frac{kgf}{cm^2}$.

- Peso unitario concreto, $\gamma = 2.40 \frac{t}{m^3}$
- Resistencia concreto, $f'_c = 240 \frac{kgf}{cm^2}$
- Resistencia del acero de refuerzo, $f_y = 4200(\frac{kgf}{cm^2})$

2.6.PARAMETROS SISMICOS

- Aceleración pico efectiva, $A_a = 0.15$
- Coeficiente de aceleración horizontal, $K_h = 0.075$
- Coeficiente de aceleración vertical, $K_v = 2 * \frac{\mathrm{Ka}}{3} = 0.023$

2.7.SOBRECARGA

- Sobrecarga, $W = 0.5 \frac{Ton}{m}$

2.8.METODO DE CALCULO

- **Caso estático:** Para la obtención de los empujes estáticos se empleó el método de las Cuñas de Coulomb.
- **Caso sísmico:** Para la obtención de los esfuerzos sísmicos, se empleó una extensión pseudoestático de la fórmula de la Cuña de Coulomb, conocida como la fórmula de Mononobe y Okabe.

2.9.EXPRESIONES DE DISEÑO

3.2.1 CASO ESTÁTICO

Las expresiones involucradas en el cálculo de los empujes activos del suelo sobre el muro se muestran a continuación:

Empuje estático (Ea) $Ea = \gamma * ka * H^2 / 2$

Donde:

$$Ka = \frac{1 - Sen\ \phi}{1 + Sen\ \phi}$$

El empuje activo resultante actúa a H/3 de la base del muro, el parámetro Ka se tomará como 0.27 de acuerdo con el estudio de suelos.

3.2.2 CASO DINÁMICO

Empuje sísmico (Eae) $E_{ae} = 1/2\ \gamma\ (1 - Kv)\ K_{ae}\ H^2$

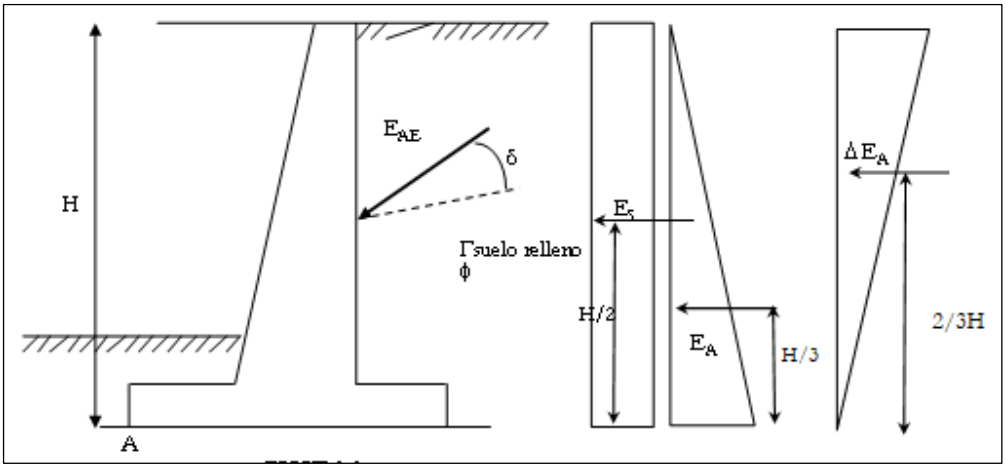
Donde:

$$Kae = \frac{Cos^2\ (\phi - \theta - \beta)}{\psi\ Cos\ \theta\ Cos^2 \beta\ Cos\ (\delta + \beta + \theta)}$$

$$\theta = Tan^{-1}\left(\frac{Kh}{1 - Kv}\right)$$

$$\psi = \left(1 + \sqrt{\frac{Sen\ (\phi + \delta)\ Sen\ (\phi - \theta - i)}{Cos\ (\delta + \beta + \theta)\ Cos\ (i - \beta)}}\right)^2$$

Kh: Coeficiente horizontal sísmico
Kv: Coeficiente vertical sísmico
La componente sísmica del empuje es ΔP_{AE} y actúa a $2\frac{H}{3}$ de la base del muro



El diseño de la estructura en concreto se realizó teniendo en cuenta los parámetros y recomendaciones del estudio de suelos. La estabilidad del muro depende del diseño geotécnico del estudio mencionado, así como del proceso constructivo y el cumplimiento de todos los requerimientos de excavación, drenajes, construcción, protocolos de inyección y tensionamientos de anclajes de acuerdo con el estudio geotécnico.

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

3. DISEÑO SOPORTE LETRERO

Al tratarse de un elemento puesto directamente en el terreno se verifica para la carga aproximada del letrero, al tratarse de un pedestal que sobre sale aproximadamente 50 cm por encima del terreno se evalúa para cargas gravitacionales únicamente, ya que no se considera susceptible de vibrar libremente.

3.1. Cargas muertas sobre impuestas

- Peso letras: 150 kg/m2
- Instalaciones/otros= 20 kg/m2

3.2.Cargas vivas sobre impuestas

- Conservadoramente se asigna : 200 kg/m2, aunque el uso es exclusivo de soporte de las letras se asigna un valor conservador.

ANEXOS

PREDIMENSIONAMIENTO Y ANALISIS DE MURO BANCA CORRIDA

PLANTEAMIENTO:

Diseñar un muro de contención en voladizo para el cual se tienen los siguientes datos:

GEOMETRÍA

Altura libre, H-t (m) =	**0.55**

SOBRECARGA

Sobrecarga, W (ton/m)	**0.50**

MATERIAL MURO

Peso unitario concreto, γ (t/m^3) =	**2.4**
Resistencia concreto, f'c (k/cm2) =	**210**
Resistencia acero refuerzo, Fy (k /cm2) =	**4200**

SUELO RELLENO

Angulo de fricción interna, ϕ (º)=	**30.0**
Peso unitario, γ (t/m^3) =	**1.6**
Angulo del talud, i (º)=	**0.0**
Angulo de fricción entre el suelo y el muro, δ (º)[(1)]=	**15.0**

SUELO FUNDACIÓN

Angulo de fricción interna, ϕ (º)=	**30.0**
Factor de fricción, μ = 2/3 tan ϕ	0.38
Capacidad de carga del suelo (ton/m^2)=	**15.0**

[(1)]Se recomienda que este valor sea ϕ / 2

PARAMETROS SISMICOS

Aceleración Pico Efectiva, Aa =	**0.15**
Coeficiente de Aceleración Horizontal, Kh[(2)]	**0.08**
Coeficiente de Aceleración Vertical, Kv[(3)]	**0**

[(2)] Se recomienda tomar Kh = Aa / 2

[(3)]Se desprecia la aceleración vertical del terreno en zonas localizadas lejos del foco del sismo ó 0.3Kh < Kv <0.5Kh

A continuación se presenta el esquema del muro con la designaciónde cada parámetro:

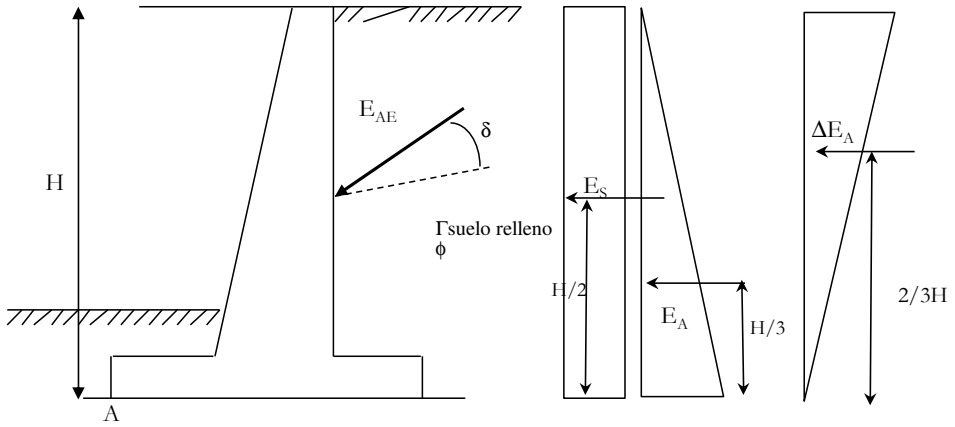


FIGURA 1

1. PREDIMENSIONAMIENTO

Según recomendaciones del Ing. Kerpel, se puede comenzar un predimensionamiento con los siguientes criterios para un muro en voladizo:

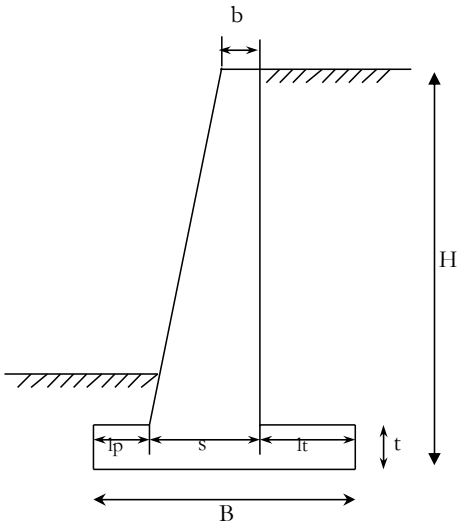


FIGURA 2

Ancho de la base:

$$B = (0.4 - 0.7)\ H$$

Base superior del vástago:

$$b = Máx\ \left[(1/24)\ H ; 0.25\ m \right]$$

Angulo del vástago con respecto a la vertical:

$$\beta = Tan^{-1}\left(\frac{b - s}{H - t}\right)$$

Espesor de la base:

$$t = (1/10)\ H$$

Base inferior del vástago

$$s = (1/10)\ H$$

Longitud del pie:

$$L_p = (1/3)\ B$$

1ª ITERACIÓN

	Intervalo		Escogido
t (m) =			**0.20**
B (m) =	0.30	0.53	**0.60**
b (m) =	0.25	0.02	**0.25**
s (m) =		0.06	**0.25**
Lp (m) =	0.15	0.20	**0.00**
Lt (m) =			0.35
β (°) =			**0.00**
H=			0.75

2. CALCULO DE FUERZAS HORIZONTALES

2.1 EMPUJE POR SOBRECARGA

0

$$Es = W * ka$$

0

Entonces:

K_a = **0.33** y **Es (t/m) = 0.17**

2.2 EMPUJE ACTIVO ESTATICO

Según la teoría de empujes de Coulomb, el empuje activo estático esta dado por la siguiente expresión:

$$Ea = \gamma * ka * H^2 / 2 \qquad \text{donde:} \quad Ka = \frac{1 - Sen\ \phi}{1 + Sen\ \phi}$$

166.10705

Entonces:

K_a = **0.33** y **Ea (t/m) = 0.08**

2.3 INCREMENTO DINAMICO DEL EMPUJE ACTIVO

Según la teoría de Mononobe Okabe, el empuje activo dinámico por unidad de longitud del estribo esta dado por la siguiente expresión:

$$E_{ae} = 1/2\ \gamma\ (1 - Kv)\ K_{ae}\ H^2$$

donde:

$$Kae = \frac{Cos^2(\phi - \theta - \beta)}{\psi\ Cos\ \theta\ Cos^2\beta\ Cos(\delta + \beta + \theta)}$$

(Coeficiente dinámico de empuje de tierras)

$$\theta = Tan^{-1}\left(\frac{Kh}{1 - Kv}\right)$$

$$\psi = \left(1 + \sqrt{\frac{Sen(\phi + \delta)\ Sen(\phi - \theta - i)}{Cos(\delta + \beta + \theta)\ Cos(i - \beta)}}\right)^2$$

Numéricamente se tiene:

θ (°)=	4.29	K_{ae} =	0.35
ψ =	2.47	E_{ae} (ton / m)=	0.08
		Δ Eae (ton/m) =	**0.00481**

3. CALCULO DE CARGAS VERTICALES

Para el cálculo de las fuerzas verticales (Peso), las fuerzas Inerciales y los momentos producidos por cada una de ellas se dividió el sistema tal como se muestra a continuación:

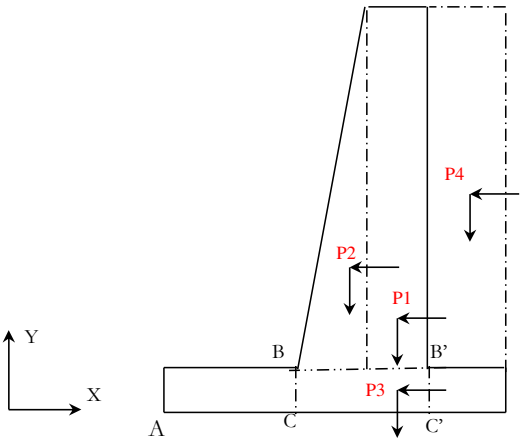


FIGURA 3

NOTA:
Todos los momentos se calcularan con respecto al punto A.

		Momento Estabilizante		Momento Desestabilizador	
ELEMENTO	PESO PROPIO (ton/m)	Xa (m)	MXA (ton-m)	Ya (m)	MYA (ton-m)
1	0.33	0.125	0.04	0.475	0.16
2	0.00	0.000	0.00	0.383	0.00
3	0.29	0.300	0.09	0.100	0.03
4	0.31	0.425	0.13	0.475	0.15
TOTAL =	0.93		0.26		0.33

Fuerza Inercial, F.I = W * Aa	0.14	ton/m
Momento debido a F.I =MYA * Aa	0.05	ton-m/m

4. ANALISIS DE ESTABILIDAD

4.1 BAJO CARGAS VERTICALES

4.1.1 Estabilidad al deslizamiento:

$$FSD = \frac{\mu \Sigma W}{Ea + Es} \quad = \quad 1.75 \quad > \quad 1.60 \quad \text{OK}$$

4.1.2 Estabilidad al volcamiento:

$$FSV = \frac{Mest}{Ea * H/3 + Es * H/2} \quad = \quad 3.16 \quad > \quad 3.00 \quad \text{OK}$$

4.2 BAJO FUERZAS DE SISMO

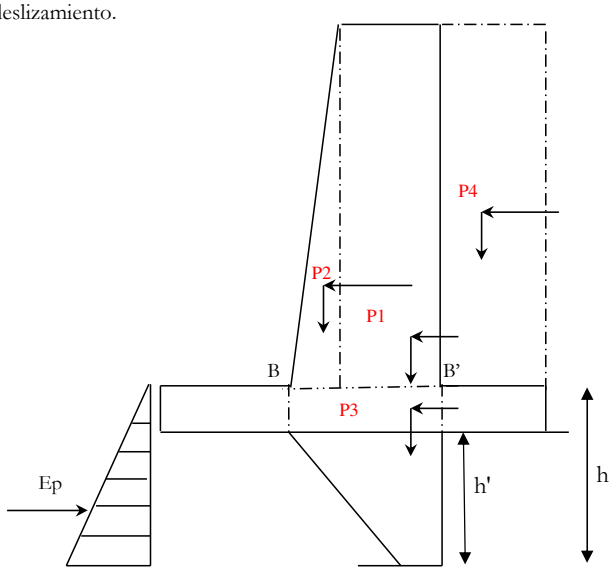
4.2.1 Estabilidad al deslizamiento:

$$FSD = \frac{\mu \Sigma W}{Es + Ea + \Delta Eae + F.I/1.4} \quad = \quad 1.23 \quad > \quad 1.05 \quad \text{OK}$$

4.2.2 Estabilidad al volcamiento:

$$FSV = \frac{Mest}{M_{Es} + M_{Ea} + M_{\Delta Eae} + M_{FI}/1.4} \quad = \quad 2.16 \quad > \quad 2.00 \quad \text{OK}$$

Dado que por estabilidad las dimensiones del muro no funcionan, se procede a calcular la altura de la llave para cumplir con la estabilidad al deslizamiento.



Teniendo en cuenta el empuje pasivo:

$$FSD = 1.12 \quad \frac{\mu \Sigma W + Ep}{Es + Ea + \Delta Eae + FI/1.4}$$

Donde:

Ep = 0.03 t/m

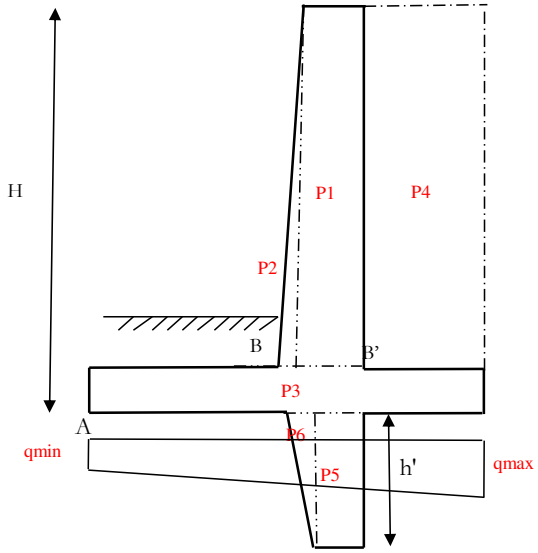
$Ep = \gamma * kp * h^2 / 2$ donde: $Kp = \frac{1 + Sen\ \phi}{1 - Sen\ \phi} =$ 3.0

Despejando h:

$h = \sqrt{\frac{2\ Ep}{\gamma Kp}} =$ 0.10 m h asumido = **0.20** m

h'=h-t=	0.00	h'= altura del dentellon

Con el valor de h asumido se procede a calcular la estabilidad al volcamiento teniendo en cuenta las nuevas dimensiones:



Tomando momentos con respecto al punto A:

		Momento Estabilizante		Momento Desestabilizador	
ELEMENTO	PESO PROPIO (ton/m)	Xa (m)	MXA (ton-m)	Ya (m)	MYA (ton-m)
1	0.33	0.125	0.04	0.475	0.16
2	0.00	0.000	0.00	0.383	0.00
3	0.29	0.300	0.09	0.100	0.03
4	0.31	0.425	0.13	0.475	0.15
5	0.12	0.125	0.02	-0.100	-0.01
6	0.00	0.000	0.00	-0.067	0.00
TOTAL =	1.05		0.27		0.32

Fuerza Inercial, F.I = W * Aa 0.16 ton/m
Momento debido a F.I =MYA * Aa 0.05 ton-m/m

5. CHEQUEO DE ESTABILIDAD

CARGAS VERTICALES:

Estabilidad al deslizamiento:

$$FSD = \frac{\mu\ \Sigma W + Ep}{Ea + Es} = 1.80 > 1.60 \text{ OK}$$

Estabilidad al volcamiento:

$$FSV = \frac{Mest}{M_{Ea} + M_{Es}} \quad = \quad 3.34 \quad > \quad 3.00 \quad \text{OK}$$

FUERZAS DE SISMO

Estabilidad al deslizamiento:

$$FSD = \frac{\mu \Sigma W + Ep}{Es + Ea + \Delta Eae + F.I/1.4} \quad = \quad 1.21 \quad > \quad 1.05 \quad \text{OK}$$

Estabilidad al volcamiento:

$$FSV = \frac{Mest}{M_{Es} + M_{Ea} + M_{\Delta Eae} + M_{FI}/1.4} \quad = \quad 2.31 \quad > \quad 2.00 \quad \text{OK}$$

4.4 CAPACIDAD DE CARGA BAJO CARGAS VERTICALES

El punto de aplicación de la resultante R, con respecto al O' es:

$$X = \frac{Mneto}{\Sigma W} = \frac{M_{est} - M_{Ea} - M_{Es}}{\Sigma W} \quad = \quad 0.19 \quad \text{m}$$

La excentricidad de la resultante con respecto al punto medio de la Base es:

$$e = B/2 - X \quad = \quad 0.11 \quad \text{m}$$

Intervalo de tercio medio: (-0.10 , 0.10) con respecto a B/2

Como la resultante cae en el tercio medio de la zapata del muro entonces la forma del diagrama de reacciones es trapezoidal.

Las presiones máximas y mínimas en la punta y el talón, respectivamente serán:

$$q_{mín} = q_{punta} = \frac{\Sigma W}{B}\left(1 + \frac{6e}{B}\right) \quad \text{y} \quad q_{máx} = q_{talón} = \frac{\Sigma W}{B}\left(1 - \frac{6e}{B}\right)$$

$qmáx =$	3.69	<	20.0	ton/m^2	($q_{máx} < 1{,}33 q_{adm}$)
$qmín =$	-0.20	<	20.0	ton/m^2	($q_{mín} < 1{,}33 q_{adm}$)

5. ANALISIS ESTRUCTURAL Y DISEÑO

5.1 DISEÑO DEL VÁSTAGO

Para efectos de diseño, cada parte del muro se considera como una placa. Las fuerzas que actúan sobre el vástago, cuya sección crítica es la sección B-B' (fig. 3), son:

Empuje del relleno debido a H m de altura:

$$E'a = 1/2\ Ka\ \gamma\ (H)^2 \quad = \quad 0.08 \quad \text{ton / m}$$

Incremento del empuje activo debido al sismo:

$$E'ae = 1/2\ Kae\ \gamma\ (H)^2 \quad = \quad 0.08 \quad \text{ton / m}$$

$$\Delta' Eae = E'ae - E'a \quad = \quad 0.00 \quad \text{ton / m}$$

Fuerzas inerciales: Se debe tener en cuenta que la fuerza inercial debido a 3 no produce momento en la sección B-B'

$$F.I' = (\Sigma W - W3) * Aa \quad = \quad 0.10 \quad \text{ton / m}$$

La fuerza actuante horizontal total es:

$$Fh_{total} = E'a + \Delta'Eae + F.I' \qquad = \qquad 0.18 \quad \text{ton / m}$$

5.1.1 Chequeo a Corte

Antes del diseño se hace necesario verificar si la sección de concreto resiste el cortante, es decir:

$$\upsilon_u \leq \phi\, \upsilon_c = 0,53 \sqrt{f'c}$$

donde:

$Vu =$ 1,7 * Fh = 0.31 ton

$d =$ **0.18** m Tomando un recubrimiento de 7 cm

$\upsilon_u = \frac{Vu}{bd} =$ 0.17 Kg / cm^2

$\phi\, \upsilon_c =$ 6.53 Kg / cm^2 OK

5.1.2 Diseño a Flexión

El momento en la sección crítica B-B' es:

$$Mreal = M_{E'a} + M_{E'ae} + (M_{F.I'}/1.4)$$

donde:

$ME'a =$ Ea * H/3 = 0.01

$M\Delta E'ae =$ ΔEae * H * 2/3 = 0.00

$M_{FI/1.4}$ = 0.22

$M_{real} =$ 0.17 ton-m / m

$M_{ult} = 1.6*Mreal =$ **0.27** **ton-m/m**

$\rho =$ 0.0002 < $\rho_{mín} = 0,0020$ **tomar: $\rho =$ 0.0020**

As = 3.60 (cm^2 / m)

Colocar: **1 ϕ 3/8"** c / **20 cm** del lado del relleno
ϕ 3/8" c / **20 cm** del lado exterior

Como el diagrama de momento en la altura del vástago es una parábola de tercer grado, no se coloca todo el refuerzo hasta arriba donde el momento es nulo, para ello desde el punto de vista práctico, Kepler recomienda:

" Dividir el muro en dos o tres partes iguales y recortar la mitad o una tercera parte de la armadura en cada división". En este caso si dividimos la altura del muro en tres partes iguales, la armadura principal del muro se distribuye de la siguiente forma:

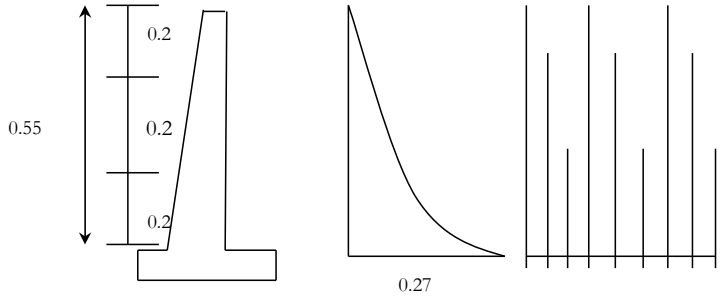


FIGURA 4

5.1.3 Refuerzo horizontal por retracción y temperatura

$\rho min =$ 0.0020

$As = (\rho_{min} * 100 * (b+s)/2)/2 =$ 2.50 cm^2/m

Colocar: ϕ 3/8" c / **0.25** en cada cara del muro

5.2 DISEÑO DEL VOLADIZO DELANTERO

La sección crítica es la B-C (según la figura 3), sobre esta sección actúa el relleno sobre el voladizo hacia abajo y la reacción del terreno hacia arriba. Para efectos de seguridad no se considera el efecto del relleno, entonces:

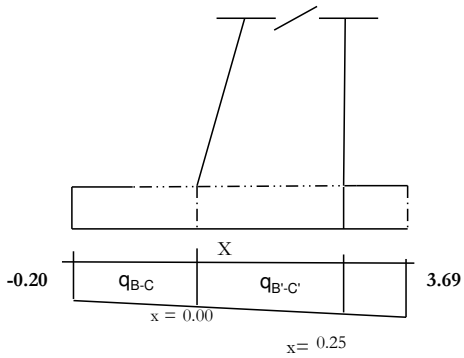


FIGURA 5

5.2.1 Chequeo a Corte

$$q_{B-C} = q_{mín} + \frac{Lp}{B}(q_{máx} - q_{mín}) = \text{-0.20 ton/m}$$

$V_{B-C} = Lp * (q_{B-C} + qmin)/2 =$ 0.00 ton/m

$Vu = 1{,}6 * V_{B-C} =$ 0.00 ton / m

Tomando d = **0.13** m

$\upsilon u =$ 0.00 < 6.53 Kg / cm^2 OK

5.2.2 Diseño a flexión

El momento en la sección B-C es:

	Fuerza (ton/m)	Brazo (m)	Momento (ton-m)
Reacción cuadrado (-)	0.00	0.00	0.00
Reacción triangulo (-)	0.00	0.00	0.00
Peso Propio (+)	0.00	0.00	0.00

MB-C = 0.00

Mult = 0.00 ton-m

$\rho =$ 0.0000 < ρmín = 0,002 **tomar: ρ = 0.0020**

As = 2.60 (cm2 / m)

Colocar: ϕ 3/8" c / **0.20**

5.2.3 Refuerzo por retracción y temperatura

ρ = 0.002

As = ρ_{min} * 100 * tprom /2 = 2.00 cm^2/m

Colocar: ϕ 3/8" c / **0.25**

5.3 DISEÑO DEL TALON

La sección crítica es la B'-C', sobre esta sección actúa el relleno sobre el talón hacia abajo y la reacción del terreno hacia arriba. Entonces: Se desprecia la reacción del terreno.

5.3.1 Chequeo a Corte

$$q_{B'-C'} = q_{mín} + \frac{Lp+s}{B}(q_{máx} - q_{mín}) = 1.42 \text{ ton / m}$$

$V_{B'-C'}$ = P4 + Lt*t*γ 0.42 ton/m

Vu = 1,6 * $V_{B'-C'}$ = 0.67 ton / m

Tomando d = **0.13** m

υu = 0.52 < 6.53 Kg / cm^2 OK

5.3.2 Diseño a flexión

El momento en la sección B'-C' es:

	Fuerza (ton/m)	Brazo (m)	Momento (ton-m)
Relleno	0.31	0.175	0.05
Peso Propio	0.17	0.175	0.03

MB-C = 0.08

Mult = 0.14 ton-m

ρ = 0.0002 < $\rho_{mín}$ = 0,002 tomar: ρ = 0.0020

As = 2.60 (cm2 / m)

Colocar: ϕ 3/8" c / **0.20**

5.3.3 Refuerzo por retracción y temperatura

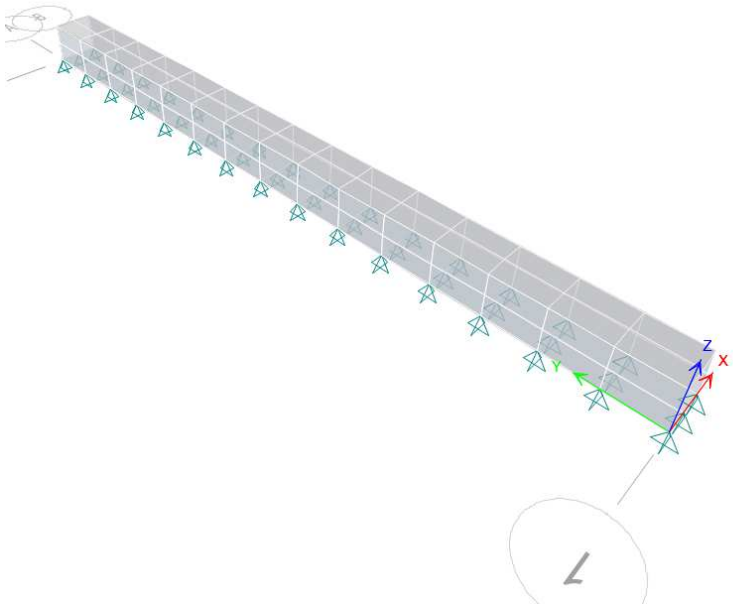
ρ = 0.002

As = ρ_{min} * 100 * t/2 = 2.00 cm^2/m

Colocar: ϕ 3/8" c / **0.20**

MEMORIAS LETRERO

ETABS®



DATOS DE ENTRADA

Model File: SUESCA, Revision 0
6/05/2026

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	Color
T1	LET	0.6	No	None	No	Green

1.2 Grid Data

Table 1.2 - Grid Definitions - General

Tower	Name	Type	Ux m	Uy m	Rz deg	Story Range	Bubble Size m	Color
T1	G	Cartesian	0	0	0	Default	1	Gray6

Table 1.3 - Grid Definitions - Grid Lines

Name	Grid Line Type	ID	Ordinate m	Bubble Location	Visible
G	X (Cartesian)	A	0	End	Yes
G	X (Cartesian)	B	0.6	End	Yes
G	Y (Cartesian)	1	0	Start	Yes
G	Y (Cartesian)	2	10.2	Start	Yes

1.3 Mass

Table 1.4 - Mass Source Definition

Name	Is Default	Include Lateral Mass?	Include Vertical Mass?	Lump Mass?	Source Self Mass?	Source Added Mass?	Source Load Patterns?	Move Mass Centroid?	Load Pattern	Multiplier
MsSrc1	Yes	Yes	No	Yes	Yes	Yes	Yes	No	Dead	1

Table 1.5 - Mass Summary by Story

Story	UX tonf-s2/m	UY tonf-s2/m	UZ tonf-s2/m
LET	0.55594	0.55594	0
Base	0.44985	0.44985	0

Table 1.6 - Mass Summary by Group

Group	Self Mass tonf-s2/m	Mass X tonf-s2/m	Mass Y tonf-s2/m	Mass Z tonf-s2/m
All	0.89969	1.00578	1.00578	0

2 Properties

This chapter provides property information for materials, frame sections, shell sections, and links.

2.1 Materials

Table 2.1 - Material Properties - General

Material	Type	SymType	Grade	Color	Notes
A36	Steel	Isotropic	Unknown	Gray8Dark	
A416Gr270	Tendon	Uniaxial	Unknown	Red	
A615Gr60	Rebar	Uniaxial	Unknown	Green	
C21MPa	Concrete	Isotropic	Unknown	Yellow	

2.2 Shell Sections

Table 2.2 - Area Section Property Definitions - Summary

Name	Type	Element Type	Material	Total Thickness m	Deck Material	Deck Depth m
M15	Wall	Shell-Thin	C21MPa	0.15		
PLACA 15cm	Slab	Shell-Thin	C21MPa	0.15		

3 Assignments

This chapter provides a listing of the assignments applied to the model.

3.1 Joint Assignments

Table 3.1 - Joint Assignments - Summary

Story	Label	UniqueName	Diaphragm	Restraints
LET	1	1	From Area	
LET	2	2	From Area	
LET	3	3	From Area	
LET	4	4	From Area	
LET	49	364	From Area	
LET	50	451	From Area	
LET	51	452	From Area	
LET	52	366	From Area	
LET	53	454	From Area	
LET	54	368	From Area	
LET	56	456	From Area	
LET	57	370	From Area	
LET	58	458	From Area	
LET	59	372	From Area	
LET	60	460	From Area	
LET	61	374	From Area	
LET	62	462	From Area	
LET	63	376	From Area	
LET	64	464	From Area	
LET	65	378	From Area	
LET	66	466	From Area	
LET	67	380	From Area	
LET	68	468	From Area	
LET	69	382	From Area	
LET	70	470	From Area	
LET	71	384	From Area	
LET	72	472	From Area	
LET	73	386	From Area	
LET	74	474	From Area	
LET	75	388	From Area	
LET	76	476	From Area	
LET	77	390	From Area	
LET	78	478	From Area	
LET	79	479	From Area	
LET	80	392	From Area	
LET	81	525	From Area	
LET	82	526	From Area	
LET	83	393	From Area	
LET	84	528	From Area	
LET	85	394	From Area	
LET	86	530	From Area	
LET	87	395	From Area	
LET	88	532	From Area	
LET	89	396	From Area	
LET	90	534	From Area	

Table 3.1 - Joint Assignments - Summary (continued)

Story	Label	UniqueName	Diaphragm	Restraints
LET	91	397	From Area	
LET	92	536	From Area	
LET	93	398	From Area	
LET	94	538	From Area	
LET	95	399	From Area	
LET	96	540	From Area	
LET	97	400	From Area	
LET	98	542	From Area	
LET	99	401	From Area	
LET	100	544	From Area	
LET	101	402	From Area	
LET	102	546	From Area	
LET	103	403	From Area	
LET	104	548	From Area	
LET	105	404	From Area	
LET	106	550	From Area	
LET	107	405	From Area	
LET	108	552	From Area	
LET	109	553	From Area	
LET	110	362	From Area	
LET	111	363	From Area	
LET	112	365	From Area	
LET	113	367	From Area	
LET	114	369	From Area	
LET	115	371	From Area	
LET	116	373	From Area	
LET	117	375	From Area	
LET	118	377	From Area	
LET	119	379	From Area	
LET	120	381	From Area	
LET	121	383	From Area	
LET	122	385	From Area	
LET	123	387	From Area	
LET	124	389	From Area	
LET	125	391	From Area	
Base	1	5	From Area	UX; UY; UZ
Base	2	6	From Area	UX; UY; UZ
Base	3	7	From Area	UX; UY; UZ
Base	4	8	From Area	UX; UY; UZ
Base	49	450	From Area	UX; UY; UZ
Base	52	453	From Area	UX; UY; UZ
Base	54	455	From Area	UX; UY; UZ
Base	57	457	From Area	UX; UY; UZ
Base	59	459	From Area	UX; UY; UZ
Base	61	461	From Area	UX; UY; UZ
Base	63	463	From Area	UX; UY; UZ
Base	65	465	From Area	UX; UY; UZ
Base	67	467	From Area	UX; UY; UZ
Base	69	469	From Area	UX; UY; UZ
Base	71	471	From Area	UX; UY; UZ

Table 3.1 - Joint Assignments - Summary (continued)

Story	Label	UniqueName	Diaphragm	Restraints
Base	73	473	From Area	UX; UY; UZ
Base	75	475	From Area	UX; UY; UZ
Base	77	477	From Area	UX; UY; UZ
Base	80	524	From Area	UX; UY; UZ
Base	83	527	From Area	UX; UY; UZ
Base	85	529	From Area	UX; UY; UZ
Base	87	531	From Area	UX; UY; UZ
Base	89	533	From Area	UX; UY; UZ
Base	91	535	From Area	UX; UY; UZ
Base	93	537	From Area	UX; UY; UZ
Base	95	539	From Area	UX; UY; UZ
Base	97	541	From Area	UX; UY; UZ
Base	99	543	From Area	UX; UY; UZ
Base	101	545	From Area	UX; UY; UZ
Base	103	547	From Area	UX; UY; UZ
Base	105	549	From Area	UX; UY; UZ
Base	107	551	From Area	UX; UY; UZ
Base	110	598	From Area	UX; UY; UZ
Base	111	599	From Area	UX; UY; UZ
Base	112	600	From Area	UX; UY; UZ
Base	113	601	From Area	UX; UY; UZ
Base	114	602	From Area	UX; UY; UZ
Base	115	603	From Area	UX; UY; UZ
Base	116	604	From Area	UX; UY; UZ
Base	117	605	From Area	UX; UY; UZ
Base	118	606	From Area	UX; UY; UZ
Base	119	607	From Area	UX; UY; UZ
Base	120	608	From Area	UX; UY; UZ
Base	121	609	From Area	UX; UY; UZ
Base	122	610	From Area	UX; UY; UZ
Base	123	611	From Area	UX; UY; UZ
Base	124	612	From Area	UX; UY; UZ
Base	125	613	From Area	UX; UY; UZ

3.2 Shell Assignments

Table 3.2 - Area Assignments - Summary

Story	Label	UniqueName	Section Property	Property Type
LET	F32	245	PLACA 15cm	Slab
LET	F33	246	PLACA 15cm	Slab
LET	F34	247	PLACA 15cm	Slab
LET	F35	248	PLACA 15cm	Slab
LET	F36	249	PLACA 15cm	Slab
LET	F37	250	PLACA 15cm	Slab
LET	F38	251	PLACA 15cm	Slab
LET	F39	252	PLACA 15cm	Slab
LET	F40	253	PLACA 15cm	Slab
LET	F41	254	PLACA 15cm	Slab
LET	F42	255	PLACA 15cm	Slab

Table 3.2 - Area Assignments - Summary (continued)

Story	Label	UniqueName	Section Property	Property Type
LET	F43	256	PLACA 15cm	Slab
LET	F44	257	PLACA 15cm	Slab
LET	F45	258	PLACA 15cm	Slab
LET	F46	259	PLACA 15cm	Slab
LET	F47	260	PLACA 15cm	Slab
LET	F48	261	PLACA 15cm	Slab
LET	F49	262	PLACA 15cm	Slab
LET	F50	263	PLACA 15cm	Slab
LET	F51	264	PLACA 15cm	Slab
LET	F52	265	PLACA 15cm	Slab
LET	F53	266	PLACA 15cm	Slab
LET	F54	267	PLACA 15cm	Slab
LET	F55	268	PLACA 15cm	Slab
LET	F56	269	PLACA 15cm	Slab
LET	F57	270	PLACA 15cm	Slab
LET	F58	271	PLACA 15cm	Slab
LET	F59	272	PLACA 15cm	Slab
LET	F60	273	PLACA 15cm	Slab
LET	F61	274	PLACA 15cm	Slab
LET	W3	305	M15	Wall
LET	W4	306	M15	Wall
LET	W5	307	M15	Wall
LET	W6	308	M15	Wall
LET	W7	309	M15	Wall
LET	W8	310	M15	Wall
LET	W9	311	M15	Wall
LET	W10	312	M15	Wall
LET	W11	313	M15	Wall
LET	W12	314	M15	Wall
LET	W13	315	M15	Wall
LET	W14	316	M15	Wall
LET	W15	317	M15	Wall
LET	W16	318	M15	Wall
LET	W17	319	M15	Wall
LET	W18	320	M15	Wall
LET	W19	321	M15	Wall
LET	W20	322	M15	Wall
LET	W21	323	M15	Wall
LET	W22	324	M15	Wall
LET	W23	325	M15	Wall
LET	W24	326	M15	Wall
LET	W25	327	M15	Wall
LET	W26	328	M15	Wall
LET	W27	329	M15	Wall
LET	W28	330	M15	Wall
LET	W29	331	M15	Wall
LET	W30	332	M15	Wall
LET	W31	333	M15	Wall
LET	W32	334	M15	Wall

Table 3.2 - Area Assignments - Summary (continued)

Story	Label	UniqueName	Section Property	Property Type
LET	W33	365	M15	Wall
LET	W34	366	M15	Wall
LET	W35	367	M15	Wall
LET	W36	368	M15	Wall
LET	W37	369	M15	Wall
LET	W38	370	M15	Wall
LET	W39	371	M15	Wall
LET	W40	372	M15	Wall
LET	W41	373	M15	Wall
LET	W42	374	M15	Wall
LET	W43	375	M15	Wall
LET	W44	376	M15	Wall
LET	W45	377	M15	Wall
LET	W46	378	M15	Wall
LET	W47	379	M15	Wall
LET	W48	380	M15	Wall
LET	W49	381	M15	Wall
LET	W50	382	M15	Wall
LET	W51	383	M15	Wall
LET	W52	384	M15	Wall
LET	W53	385	M15	Wall
LET	W54	386	M15	Wall
LET	W55	387	M15	Wall
LET	W56	388	M15	Wall
LET	W57	389	M15	Wall
LET	W58	390	M15	Wall
LET	W59	391	M15	Wall
LET	W60	392	M15	Wall
LET	W61	393	M15	Wall
LET	W62	394	M15	Wall
Base	F32	425	PLACA 15cm	Slab
Base	F33	426	PLACA 15cm	Slab
Base	F34	427	PLACA 15cm	Slab
Base	F35	428	PLACA 15cm	Slab
Base	F36	429	PLACA 15cm	Slab
Base	F37	430	PLACA 15cm	Slab
Base	F38	431	PLACA 15cm	Slab
Base	F39	432	PLACA 15cm	Slab
Base	F40	433	PLACA 15cm	Slab
Base	F41	434	PLACA 15cm	Slab
Base	F42	435	PLACA 15cm	Slab
Base	F43	436	PLACA 15cm	Slab
Base	F44	437	PLACA 15cm	Slab
Base	F45	438	PLACA 15cm	Slab
Base	F46	439	PLACA 15cm	Slab
Base	F47	440	PLACA 15cm	Slab
Base	F48	441	PLACA 15cm	Slab
Base	F49	442	PLACA 15cm	Slab
Base	F50	443	PLACA 15cm	Slab

Table 3.2 - Area Assignments - Summary (continued)

Story	Label	UniqueName	Section Property	Property Type
Base	F51	444	PLACA 15cm	Slab
Base	F52	445	PLACA 15cm	Slab
Base	F53	446	PLACA 15cm	Slab
Base	F54	447	PLACA 15cm	Slab
Base	F55	448	PLACA 15cm	Slab
Base	F56	449	PLACA 15cm	Slab
Base	F57	450	PLACA 15cm	Slab
Base	F58	451	PLACA 15cm	Slab
Base	F59	452	PLACA 15cm	Slab
Base	F60	453	PLACA 15cm	Slab
Base	F61	454	PLACA 15cm	Slab

4 Loads

This chapter provides loading information as applied to the model.

4.1 Load Patterns

Table 4.1 - Load Pattern Definitions

Name	Is Auto Load	Type	Self Weight Multiplier
~LLRF	Yes	Other	0
~WV-Walk1-1	Yes	Other	0
~WV-Walk1-2	Yes	Other	0
~WV-Walk1-3	Yes	Other	0
~WV-Walk1-4	Yes	Other	0
~WV-Walk1-5	Yes	Other	0
~WV-Walk1-6	Yes	Other	0
~WV-Walk1-7	Yes	Other	0
Dead	No	Dead	0
Live	No	Live	0
PP	No	Dead	1

4.2 Applied Loads

4.2.1 Area Loads

Table 4.2 - Area Load Assignments - Uniform

Story	Label	UniqueName	Load Pattern	Direction	Load tonf/m2
LET	F32	245	Dead	Gravity	0.17
LET	F33	246	Dead	Gravity	0.17
LET	F34	247	Dead	Gravity	0.17
LET	F35	248	Dead	Gravity	0.17
LET	F36	249	Dead	Gravity	0.17
LET	F37	250	Dead	Gravity	0.17
LET	F38	251	Dead	Gravity	0.17
LET	F39	252	Dead	Gravity	0.17
LET	F40	253	Dead	Gravity	0.17
LET	F41	254	Dead	Gravity	0.17
LET	F42	255	Dead	Gravity	0.17
LET	F43	256	Dead	Gravity	0.17
LET	F44	257	Dead	Gravity	0.17
LET	F45	258	Dead	Gravity	0.17
LET	F46	259	Dead	Gravity	0.17
LET	F47	260	Dead	Gravity	0.17
LET	F48	261	Dead	Gravity	0.17
LET	F49	262	Dead	Gravity	0.17
LET	F50	263	Dead	Gravity	0.17
LET	F51	264	Dead	Gravity	0.17
LET	F52	265	Dead	Gravity	0.17
LET	F53	266	Dead	Gravity	0.17
LET	F54	267	Dead	Gravity	0.17
LET	F55	268	Dead	Gravity	0.17
LET	F56	269	Dead	Gravity	0.17
LET	F57	270	Dead	Gravity	0.17

Table 4.2 - Area Load Assignments - Uniform (continued)

Story	Label	UniqueName	Load Pattern	Direction	Load tonf/m2
LET	F58	271	Dead	Gravity	0.17
LET	F59	272	Dead	Gravity	0.17
LET	F60	273	Dead	Gravity	0.17
LET	F61	274	Dead	Gravity	0.17
LET	F32	245	Live	Gravity	0.2
LET	F33	246	Live	Gravity	0.2
LET	F34	247	Live	Gravity	0.2
LET	F35	248	Live	Gravity	0.2
LET	F36	249	Live	Gravity	0.2
LET	F37	250	Live	Gravity	0.2
LET	F38	251	Live	Gravity	0.2
LET	F39	252	Live	Gravity	0.2
LET	F40	253	Live	Gravity	0.2
LET	F41	254	Live	Gravity	0.2
LET	F42	255	Live	Gravity	0.2
LET	F43	256	Live	Gravity	0.2
LET	F44	257	Live	Gravity	0.2
LET	F45	258	Live	Gravity	0.2
LET	F46	259	Live	Gravity	0.2
LET	F47	260	Live	Gravity	0.2
LET	F48	261	Live	Gravity	0.2
LET	F49	262	Live	Gravity	0.2
LET	F50	263	Live	Gravity	0.2
LET	F51	264	Live	Gravity	0.2
LET	F52	265	Live	Gravity	0.2
LET	F53	266	Live	Gravity	0.2
LET	F54	267	Live	Gravity	0.2
LET	F55	268	Live	Gravity	0.2
LET	F56	269	Live	Gravity	0.2
LET	F57	270	Live	Gravity	0.2
LET	F58	271	Live	Gravity	0.2
LET	F59	272	Live	Gravity	0.2
LET	F60	273	Live	Gravity	0.2
LET	F61	274	Live	Gravity	0.2

4.3 Load Cases

Table 4.3 - Load Case Definitions - Summary

Name	Type
Modal	Modal - Eigen
Dead	Linear Static
Live	Linear Static
PP	Linear Static
PDELTA	Nonlinear Static

4.4 Load Combinations

Table 4.4 - Load Combination Definitions

Name	Type	Is Auto	Load Name	SF	Notes
1.2D+0.5L+1.6Lr	Linear Add	No	Dead	1.2	
1.2D+0.5L+1.6Lr			PP	1.2	
1.2D+0.5L+1.6Lr			Live	0.5	
1.2D+1.6L+0.5Lr	Linear Add	No	Dead	1.2	
1.2D+1.6L+0.5Lr			PP	1.2	
1.2D+1.6L+0.5Lr			Live	1.6	
1.4D	Linear Add	No	Dead	1.4	
1.4D			PP	1.4	
CIM1	Linear Add	No	Dead	1	
CIM1			PP	1	
CIM2	Linear Add	No	Dead	1	
CIM2			PP	1	
CIM2			Live	1	
CIM3	Linear Add	No	Dead	1	
CIM3			PP	1	
CIM3			Live	1	
D	Linear Add	No	Dead	1	
D			PP	1	
L+Lr	Linear Add	No	Live	1	

5 Analysis Results

This chapter provides analysis results.

5.1 Point Results

Table 5.1 - Joint Reactions

Story	Label	Unique Name	Output Case	Case Type	Step Type	FX tonf	FY tonf	FZ tonf	MX tonf-m	MY tonf-m	MZ tonf-m
Base	1	5	Dead	LinStatic		0.002	0.0029	0.0204	0	0	0
Base	1	5	Live	LinStatic		0.0023	0.0034	0.024	0	0	0
Base	1	5	PP	LinStatic		0.0042	0.0132	0.1373	0	0	0
Base	1	5	PDELTA	NonStatic	Max	0.0073	0.0178	0.1696	0	0	0
Base	1	5	PDELTA	NonStatic	Min	0.0073	0.0178	0.1696	0	0	0
Base	1	5	D	Combination		0.0061	0.0161	0.1577	0	0	0
Base	1	5	L+Lr	Combination		0.0023	0.0034	0.024	0	0	0
Base	1	5	1.4D	Combination		0.0086	0.0225	0.2207	0	0	0
Base	1	5	1.2D+1.6L+0.5Lr	Combination		0.0111	0.0247	0.2276	0	0	0
Base	1	5	1.2D+0.5L+1.6Lr	Combination		0.0085	0.021	0.2012	0	0	0
Base	1	5	CIM1	Combination		0.0061	0.0161	0.1577	0	0	0
Base	1	5	CIM2	Combination		0.0084	0.0195	0.1816	0	0	0
Base	1	5	CIM3	Combination		0.0084	0.0195	0.1816	0	0	0
Base	2	6	Dead	LinStatic		-0.002	0.0029	0.0204	0	0	0
Base	2	6	Live	LinStatic		-0.0023	0.0034	0.024	0	0	0
Base	2	6	PP	LinStatic		-0.0042	0.0132	0.1373	0	0	0
Base	2	6	PDELTA	NonStatic	Max	-0.0073	0.0178	0.1696	0	0	0
Base	2	6	PDELTA	NonStatic	Min	-0.0073	0.0178	0.1696	0	0	0
Base	2	6	D	Combination		-0.0061	0.0161	0.1577	0	0	0
Base	2	6	L+Lr	Combination		-0.0023	0.0034	0.024	0	0	0
Base	2	6	1.4D	Combination		-0.0086	0.0225	0.2207	0	0	0
Base	2	6	1.2D+1.6L+0.5Lr	Combination		-0.0111	0.0247	0.2276	0	0	0
Base	2	6	1.2D+0.5L+1.6Lr	Combination		-0.0085	0.021	0.2012	0	0	0
Base	2	6	CIM1	Combination		-0.0061	0.0161	0.1577	0	0	0
Base	2	6	CIM2	Combination		-0.0084	0.0195	0.1816	0	0	0
Base	2	6	CIM3	Combination		-0.0084	0.0195	0.1816	0	0	0
Base	3	7	Dead	LinStatic		-0.002	-0.0029	0.0204	0	0	0
Base	3	7	Live	LinStatic		-0.0023	-0.0034	0.024	0	0	0
Base	3	7	PP	LinStatic		-0.0042	-0.0132	0.1373	0	0	0
Base	3	7	PDELTA	NonStatic	Max	-0.0073	-0.0178	0.1696	0	0	0
Base	3	7	PDELTA	NonStatic	Min	-0.0073	-0.0178	0.1696	0	0	0
Base	3	7	D	Combination		-0.0061	-0.0161	0.1577	0	0	0
Base	3	7	L+Lr	Combination		-0.0023	-0.0034	0.024	0	0	0
Base	3	7	1.4D	Combination		-0.0086	-0.0225	0.2207	0	0	0
Base	3	7	1.2D+1.6L+0.5Lr	Combination		-0.0111	-0.0247	0.2276	0	0	0
Base	3	7	1.2D+0.5L+1.6Lr	Combination		-0.0085	-0.021	0.2012	0	0	0
Base	3	7	CIM1	Combination		-0.0061	-0.0161	0.1577	0	0	0
Base	3	7	CIM2	Combination		-0.0084	-0.0195	0.1816	0	0	0
Base	3	7	CIM3	Combination		-0.0084	-0.0195	0.1816	0	0	0
Base	4	8	Dead	LinStatic		0.002	-0.0029	0.0204	0	0	0
Base	4	8	Live	LinStatic		0.0023	-0.0034	0.024	0	0	0
Base	4	8	PP	LinStatic		0.0042	-0.0132	0.1373	0	0	0
Base	4	8	PDELTA	NonStatic	Max	0.0073	-0.0178	0.1696	0	0	0
Base	4	8	PDELTA	NonStatic	Min	0.0073	-0.0178	0.1696	0	0	0
Base	4	8	D	Combination		0.0061	-0.0161	0.1577	0	0	0

Table 5.1 - Joint Reactions (continued)

Story	Label	Unique Name	Output Case	Case Type	Step Type	FX tonf	FY tonf	FZ tonf	MX tonf-m	MY tonf-m	MZ tonf-m
Base	4	8	L+Lr	Combination		0.0023	-0.0034	0.024	0	0	0
Base	4	8	1.4D	Combination		0.0086	-0.0225	0.2207	0	0	0
Base	4	8	1.2D+1.6L+0.5Lr	Combination		0.0111	-0.0247	0.2276	0	0	0
Base	4	8	1.2D+0.5L+1.6Lr	Combination		0.0085	-0.021	0.2012	0	0	0
Base	4	8	CIM1	Combination		0.0061	-0.0161	0.1577	0	0	0
Base	4	8	CIM2	Combination		0.0084	-0.0195	0.1816	0	0	0
Base	4	8	CIM3	Combination		0.0084	-0.0195	0.1816	0	0	0
Base	49	450	Dead	LinStatic		0.0037	0.0021	0.037	0	0	0
Base	49	450	Live	LinStatic		0.0044	0.0025	0.0436	0	0	0
Base	49	450	PP	LinStatic		0.0079	0.0084	0.2613	0	0	0
Base	49	450	PDELTA	NonStatic	Max	0.0138	0.0118	0.3201	0	0	0
Base	49	450	PDELTA	NonStatic	Min	0.0138	0.0118	0.3201	0	0	0
Base	49	450	D	Combination		0.0116	0.0106	0.2983	0	0	0
Base	49	450	L+Lr	Combination		0.0044	0.0025	0.0436	0	0	0
Base	49	450	1.4D	Combination		0.0162	0.0148	0.4176	0	0	0
Base	49	450	1.2D+1.6L+0.5Lr	Combination		0.0209	0.0167	0.4277	0	0	0
Base	49	450	1.2D+0.5L+1.6Lr	Combination		0.0161	0.0139	0.3798	0	0	0
Base	49	450	CIM1	Combination		0.0116	0.0106	0.2983	0	0	0
Base	49	450	CIM2	Combination		0.016	0.0131	0.3419	0	0	0
Base	49	450	CIM3	Combination		0.016	0.0131	0.3419	0	0	0
Base	52	453	Dead	LinStatic		0.0038	0.0008	0.0371	0	0	0
Base	52	453	Live	LinStatic		0.0044	0.0009	0.0437	0	0	0
Base	52	453	PP	LinStatic		0.008	0.0026	0.262	0	0	0
Base	52	453	PDELTA	NonStatic	Max	0.014	0.0038	0.321	0	0	0
Base	52	453	PDELTA	NonStatic	Min	0.014	0.0038	0.321	0	0	0
Base	52	453	D	Combination		0.0118	0.0033	0.2992	0	0	0
Base	52	453	L+Lr	Combination		0.0044	0.0009	0.0437	0	0	0
Base	52	453	1.4D	Combination		0.0165	0.0047	0.4188	0	0	0
Base	52	453	1.2D+1.6L+0.5Lr	Combination		0.0213	0.0055	0.4289	0	0	0
Base	52	453	1.2D+0.5L+1.6Lr	Combination		0.0164	0.0045	0.3808	0	0	0
Base	52	453	CIM1	Combination		0.0118	0.0033	0.2992	0	0	0
Base	52	453	CIM2	Combination		0.0162	0.0043	0.3428	0	0	0
Base	52	453	CIM3	Combination		0.0162	0.0043	0.3428	0	0	0
Base	54	455	Dead	LinStatic		0.0038	0.0004	0.0374	0	0	0
Base	54	455	Live	LinStatic		0.0044	0.0005	0.044	0	0	0
Base	54	455	PP	LinStatic		0.008	0.0015	0.2628	0	0	0
Base	54	455	PDELTA	NonStatic	Max	0.014	0.0022	0.3222	0	0	0
Base	54	455	PDELTA	NonStatic	Min	0.014	0.0022	0.3222	0	0	0
Base	54	455	D	Combination		0.0118	0.0019	0.3002	0	0	0
Base	54	455	L+Lr	Combination		0.0044	0.0005	0.044	0	0	0
Base	54	455	1.4D	Combination		0.0165	0.0027	0.4203	0	0	0
Base	54	455	1.2D+1.6L+0.5Lr	Combination		0.0213	0.0031	0.4307	0	0	0
Base	54	455	1.2D+0.5L+1.6Lr	Combination		0.0164	0.0025	0.3823	0	0	0
Base	54	455	CIM1	Combination		0.0118	0.0019	0.3002	0	0	0
Base	54	455	CIM2	Combination		0.0162	0.0024	0.3442	0	0	0
Base	54	455	CIM3	Combination		0.0162	0.0024	0.3442	0	0	0
Base	57	457	Dead	LinStatic		0.0038	0.0002	0.0376	0	0	0
Base	57	457	Live	LinStatic		0.0044	0.0002	0.0442	0	0	0
Base	57	457	PP	LinStatic		0.008	0.0006	0.2633	0	0	0

Table 5.1 - Joint Reactions (continued)

Story	Label	Unique Name	Output Case	Case Type	Step Type	FX tonf	FY tonf	FZ tonf	MX tonf-m	MY tonf-m	MZ tonf-m
Base	57	457	PDELTA	NonStatic	Max	0.014	0.0008	0.323	0	0	0
Base	57	457	PDELTA	NonStatic	Min	0.014	0.0008	0.323	0	0	0
Base	57	457	D	Combination		0.0118	0.0007	0.3009	0	0	0
Base	57	457	L+Lr	Combination		0.0044	0.0002	0.0442	0	0	0
Base	57	457	1.4D	Combination		0.0165	0.001	0.4213	0	0	0
Base	57	457	1.2D+1.6L+0.5Lr	Combination		0.0213	0.0012	0.4318	0	0	0
Base	57	457	1.2D+0.5L+1.6Lr	Combination		0.0164	0.001	0.3832	0	0	0
Base	57	457	CIM1	Combination		0.0118	0.0007	0.3009	0	0	0
Base	57	457	CIM2	Combination		0.0162	0.0009	0.3451	0	0	0
Base	57	457	CIM3	Combination		0.0162	0.0009	0.3451	0	0	0
Base	59	459	Dead	LinStatic		0.0038	0.0001	0.0376	0	0	0
Base	59	459	Live	LinStatic		0.0044	0.0001	0.0443	0	0	0
Base	59	459	PP	LinStatic		0.008	0.0003	0.2635	0	0	0
Base	59	459	PDELTA	NonStatic	Max	0.014	0.0004	0.3232	0	0	0
Base	59	459	PDELTA	NonStatic	Min	0.014	0.0004	0.3232	0	0	0
Base	59	459	D	Combination		0.0118	0.0003	0.3011	0	0	0
Base	59	459	L+Lr	Combination		0.0044	0.0001	0.0443	0	0	0
Base	59	459	1.4D	Combination		0.0165	0.0005	0.4215	0	0	0
Base	59	459	1.2D+1.6L+0.5Lr	Combination		0.0213	0.0005	0.4321	0	0	0
Base	59	459	1.2D+0.5L+1.6Lr	Combination		0.0164	0.0004	0.3835	0	0	0
Base	59	459	CIM1	Combination		0.0118	0.0003	0.3011	0	0	0
Base	59	459	CIM2	Combination		0.0162	0.0004	0.3454	0	0	0
Base	59	459	CIM3	Combination		0.0162	0.0004	0.3454	0	0	0
Base	61	461	Dead	LinStatic		0.0038	2.923E-05	0.0376	0	0	0
Base	61	461	Live	LinStatic		0.0044	3.439E-05	0.0443	0	0	0
Base	61	461	PP	LinStatic		0.008	0.0001	0.2636	0	0	0
Base	61	461	PDELTA	NonStatic	Max	0.014	0.0002	0.3234	0	0	0
Base	61	461	PDELTA	NonStatic	Min	0.014	0.0002	0.3234	0	0	0
Base	61	461	D	Combination		0.0118	0.0001	0.3012	0	0	0
Base	61	461	L+Lr	Combination		0.0044	3.439E-05	0.0443	0	0	0
Base	61	461	1.4D	Combination		0.0165	0.0002	0.4217	0	0	0
Base	61	461	1.2D+1.6L+0.5Lr	Combination		0.0213	0.0002	0.4323	0	0	0
Base	61	461	1.2D+0.5L+1.6Lr	Combination		0.0164	0.0002	0.3836	0	0	0
Base	61	461	CIM1	Combination		0.0118	0.0001	0.3012	0	0	0
Base	61	461	CIM2	Combination		0.0162	0.0002	0.3455	0	0	0
Base	61	461	CIM3	Combination		0.0162	0.0002	0.3455	0	0	0
Base	63	463	Dead	LinStatic		0.0038	8.07E-06	0.0376	0	0	0
Base	63	463	Live	LinStatic		0.0044	9.494E-06	0.0443	0	0	0
Base	63	463	PP	LinStatic		0.008	2.858E-05	0.2636	0	0	0
Base	63	463	PDELTA	NonStatic	Max	0.014	4.14E-05	0.3234	0	0	0
Base	63	463	PDELTA	NonStatic	Min	0.014	4.14E-05	0.3234	0	0	0
Base	63	463	D	Combination		0.0118	3.665E-05	0.3013	0	0	0
Base	63	463	L+Lr	Combination		0.0044	9.494E-06	0.0443	0	0	0
Base	63	463	1.4D	Combination		0.0165	0.0001	0.4218	0	0	0
Base	63	463	1.2D+1.6L+0.5Lr	Combination		0.0213	0.0001	0.4324	0	0	0
Base	63	463	1.2D+0.5L+1.6Lr	Combination		0.0164	4.873E-05	0.3836	0	0	0
Base	63	463	CIM1	Combination		0.0118	3.665E-05	0.3013	0	0	0
Base	63	463	CIM2	Combination		0.0162	4.614E-05	0.3455	0	0	0
Base	63	463	CIM3	Combination		0.0162	4.614E-05	0.3455	0	0	0

Table 5.1 - Joint Reactions (continued)

Story	Label	Unique Name	Output Case	Case Type	Step Type	FX tonf	FY tonf	FZ tonf	MX tonf-m	MY tonf-m	MZ tonf-m
Base	65	465	Dead	LinStatic		0.0038	-8.07E-06	0.0376	0	0	0
Base	65	465	Live	LinStatic		0.0044	-9.494E-06	0.0443	0	0	0
Base	65	465	PP	LinStatic		0.008	-2.858E-05	0.2636	0	0	0
Base	65	465	PDELTA	NonStatic	Max	0.014	-4.14E-05	0.3234	0	0	0
Base	65	465	PDELTA	NonStatic	Min	0.014	-4.14E-05	0.3234	0	0	0
Base	65	465	D	Combination		0.0118	-3.665E-05	0.3013	0	0	0
Base	65	465	L+Lr	Combination		0.0044	-9.494E-06	0.0443	0	0	0
Base	65	465	1.4D	Combination		0.0165	-0.0001	0.4218	0	0	0
Base	65	465	1.2D+1.6L+0.5Lr	Combination		0.0213	-0.0001	0.4324	0	0	0
Base	65	465	1.2D+0.5L+1.6Lr	Combination		0.0164	-4.873E-05	0.3836	0	0	0
Base	65	465	CIM1	Combination		0.0118	-3.665E-05	0.3013	0	0	0
Base	65	465	CIM2	Combination		0.0162	-4.614E-05	0.3455	0	0	0
Base	65	465	CIM3	Combination		0.0162	-4.614E-05	0.3455	0	0	0
Base	67	467	Dead	LinStatic		0.0038	-2.923E-05	0.0376	0	0	0
Base	67	467	Live	LinStatic		0.0044	-3.439E-05	0.0443	0	0	0
Base	67	467	PP	LinStatic		0.008	-0.0001	0.2636	0	0	0
Base	67	467	PDELTA	NonStatic	Max	0.014	-0.0002	0.3234	0	0	0
Base	67	467	PDELTA	NonStatic	Min	0.014	-0.0002	0.3234	0	0	0
Base	67	467	D	Combination		0.0118	-0.0001	0.3012	0	0	0
Base	67	467	L+Lr	Combination		0.0044	-3.439E-05	0.0443	0	0	0
Base	67	467	1.4D	Combination		0.0165	-0.0002	0.4217	0	0	0
Base	67	467	1.2D+1.6L+0.5Lr	Combination		0.0213	-0.0002	0.4323	0	0	0
Base	67	467	1.2D+0.5L+1.6Lr	Combination		0.0164	-0.0002	0.3836	0	0	0
Base	67	467	CIM1	Combination		0.0118	-0.0001	0.3012	0	0	0
Base	67	467	CIM2	Combination		0.0162	-0.0002	0.3455	0	0	0
Base	67	467	CIM3	Combination		0.0162	-0.0002	0.3455	0	0	0
Base	69	469	Dead	LinStatic		0.0038	-0.0001	0.0376	0	0	0
Base	69	469	Live	LinStatic		0.0044	-0.0001	0.0443	0	0	0
Base	69	469	PP	LinStatic		0.008	-0.0003	0.2635	0	0	0
Base	69	469	PDELTA	NonStatic	Max	0.014	-0.0004	0.3232	0	0	0
Base	69	469	PDELTA	NonStatic	Min	0.014	-0.0004	0.3232	0	0	0
Base	69	469	D	Combination		0.0118	-0.0003	0.3011	0	0	0
Base	69	469	L+Lr	Combination		0.0044	-0.0001	0.0443	0	0	0
Base	69	469	1.4D	Combination		0.0165	-0.0005	0.4215	0	0	0
Base	69	469	1.2D+1.6L+0.5Lr	Combination		0.0213	-0.0005	0.4321	0	0	0
Base	69	469	1.2D+0.5L+1.6Lr	Combination		0.0164	-0.0004	0.3835	0	0	0
Base	69	469	CIM1	Combination		0.0118	-0.0003	0.3011	0	0	0
Base	69	469	CIM2	Combination		0.0162	-0.0004	0.3454	0	0	0
Base	69	469	CIM3	Combination		0.0162	-0.0004	0.3454	0	0	0

Table 5.1 - Joint Reactions (continued)

Story	Label	Unique Name	Output Case	Case Type	Step Type	FX tonf	FY tonf	FZ tonf	MX tonf-m	MY tonf-m	MZ tonf-m
Base	71	471	Dead	LinStatic		0.0038	-0.0002	0.0376	0	0	0
Base	71	471	Live	LinStatic		0.0044	-0.0002	0.0442	0	0	0
Base	71	471	PP	LinStatic		0.008	-0.0006	0.2633	0	0	0
Base	71	471	PDELTA	NonStatic	Max	0.014	-0.0008	0.323	0	0	0
Base	71	471	PDELTA	NonStatic	Min	0.014	-0.0008	0.323	0	0	0
Base	71	471	D	Combination		0.0118	-0.0007	0.3009	0	0	0
Base	71	471	L+Lr	Combination		0.0044	-0.0002	0.0442	0	0	0
Base	71	471	1.4D	Combination		0.0165	-0.001	0.4213	0	0	0
Base	71	471	1.2D+1.6L+0.5Lr	Combination		0.0213	-0.0012	0.4318	0	0	0
Base	71	471	1.2D+0.5L+1.6Lr	Combination		0.0164	-0.001	0.3832	0	0	0
Base	71	471	CIM1	Combination		0.0118	-0.0007	0.3009	0	0	0
Base	71	471	CIM2	Combination		0.0162	-0.0009	0.3451	0	0	0
Base	71	471	CIM3	Combination		0.0162	-0.0009	0.3451	0	0	0
Base	73	473	Dead	LinStatic		0.0038	-0.0004	0.0374	0	0	0
Base	73	473	Live	LinStatic		0.0044	-0.0005	0.044	0	0	0
Base	73	473	PP	LinStatic		0.008	-0.0015	0.2628	0	0	0
Base	73	473	PDELTA	NonStatic	Max	0.014	-0.0022	0.3222	0	0	0
Base	73	473	PDELTA	NonStatic	Min	0.014	-0.0022	0.3222	0	0	0
Base	73	473	D	Combination		0.0118	-0.0019	0.3002	0	0	0
Base	73	473	L+Lr	Combination		0.0044	-0.0005	0.044	0	0	0
Base	73	473	1.4D	Combination		0.0165	-0.0027	0.4203	0	0	0
Base	73	473	1.2D+1.6L+0.5Lr	Combination		0.0213	-0.0031	0.4307	0	0	0
Base	73	473	1.2D+0.5L+1.6Lr	Combination		0.0164	-0.0025	0.3823	0	0	0
Base	73	473	CIM1	Combination		0.0118	-0.0019	0.3002	0	0	0
Base	73	473	CIM2	Combination		0.0162	-0.0024	0.3442	0	0	0
Base	73	473	CIM3	Combination		0.0162	-0.0024	0.3442	0	0	0
Base	75	475	Dead	LinStatic		0.0038	-0.0008	0.0371	0	0	0
Base	75	475	Live	LinStatic		0.0044	-0.0009	0.0437	0	0	0
Base	75	475	PP	LinStatic		0.008	-0.0026	0.262	0	0	0
Base	75	475	PDELTA	NonStatic	Max	0.014	-0.0038	0.321	0	0	0
Base	75	475	PDELTA	NonStatic	Min	0.014	-0.0038	0.321	0	0	0
Base	75	475	D	Combination		0.0118	-0.0033	0.2992	0	0	0
Base	75	475	L+Lr	Combination		0.0044	-0.0009	0.0437	0	0	0
Base	75	475	1.4D	Combination		0.0165	-0.0047	0.4188	0	0	0
Base	75	475	1.2D+1.6L+0.5Lr	Combination		0.0213	-0.0055	0.4289	0	0	0
Base	75	475	1.2D+0.5L+1.6Lr	Combination		0.0164	-0.0045	0.3808	0	0	0
Base	75	475	CIM1	Combination		0.0118	-0.0033	0.2992	0	0	0
Base	75	475	CIM2	Combination		0.0162	-0.0043	0.3428	0	0	0
Base	75	475	CIM3	Combination		0.0162	-0.0043	0.3428	0	0	0
Base	77	477	Dead	LinStatic		0.0037	-0.0021	0.037	0	0	0
Base	77	477	Live	LinStatic		0.0044	-0.0025	0.0436	0	0	0
Base	77	477	PP	LinStatic		0.0079	-0.0084	0.2613	0	0	0
Base	77	477	PDELTA	NonStatic	Max	0.0138	-0.0118	0.3201	0	0	0
Base	77	477	PDELTA	NonStatic	Min	0.0138	-0.0118	0.3201	0	0	0
Base	77	477	D	Combination		0.0116	-0.0106	0.2983	0	0	0
Base	77	477	L+Lr	Combination		0.0044	-0.0025	0.0436	0	0	0
Base	77	477	1.4D	Combination		0.0162	-0.0148	0.4176	0	0	0
Base	77	477	1.2D+1.6L+0.5Lr	Combination		0.0209	-0.0167	0.4277	0	0	0
Base	77	477	1.2D+0.5L+1.6Lr	Combination		0.0161	-0.0139	0.3798	0	0	0

Table 5.1 - Joint Reactions (continued)

Story	Label	Unique Name	Output Case	Case Type	Step Type	FX tonf	FY tonf	FZ tonf	MX tonf-m	MY tonf-m	MZ tonf-m
Base	77	477	CIM1	Combination		0.0116	-0.0106	0.2983	0	0	0
Base	77	477	CIM2	Combination		0.016	-0.0131	0.3419	0	0	0
Base	77	477	CIM3	Combination		0.016	-0.0131	0.3419	0	0	0
Base	80	524	Dead	LinStatic		-0.0037	0.0021	0.037	0	0	0
Base	80	524	Live	LinStatic		-0.0044	0.0025	0.0436	0	0	0
Base	80	524	PP	LinStatic		-0.0079	0.0084	0.2613	0	0	0
Base	80	524	PDELTA	NonStatic	Max	-0.0138	0.0118	0.3201	0	0	0
Base	80	524	PDELTA	NonStatic	Min	-0.0138	0.0118	0.3201	0	0	0
Base	80	524	D	Combination		-0.0116	0.0106	0.2983	0	0	0
Base	80	524	L+Lr	Combination		-0.0044	0.0025	0.0436	0	0	0
Base	80	524	1.4D	Combination		-0.0162	0.0148	0.4176	0	0	0
Base	80	524	1.2D+1.6L+0.5Lr	Combination		-0.0209	0.0167	0.4277	0	0	0
Base	80	524	1.2D+0.5L+1.6Lr	Combination		-0.0161	0.0139	0.3798	0	0	0
Base	80	524	CIM1	Combination		-0.0116	0.0106	0.2983	0	0	0
Base	80	524	CIM2	Combination		-0.016	0.0131	0.3419	0	0	0
Base	80	524	CIM3	Combination		-0.016	0.0131	0.3419	0	0	0
Base	83	527	Dead	LinStatic		-0.0038	0.0008	0.0371	0	0	0
Base	83	527	Live	LinStatic		-0.0044	0.0009	0.0437	0	0	0
Base	83	527	PP	LinStatic		-0.008	0.0026	0.262	0	0	0
Base	83	527	PDELTA	NonStatic	Max	-0.014	0.0038	0.321	0	0	0
Base	83	527	PDELTA	NonStatic	Min	-0.014	0.0038	0.321	0	0	0
Base	83	527	D	Combination		-0.0118	0.0033	0.2992	0	0	0
Base	83	527	L+Lr	Combination		-0.0044	0.0009	0.0437	0	0	0
Base	83	527	1.4D	Combination		-0.0165	0.0047	0.4188	0	0	0
Base	83	527	1.2D+1.6L+0.5Lr	Combination		-0.0213	0.0055	0.4289	0	0	0
Base	83	527	1.2D+0.5L+1.6Lr	Combination		-0.0164	0.0045	0.3808	0	0	0
Base	83	527	CIM1	Combination		-0.0118	0.0033	0.2992	0	0	0
Base	83	527	CIM2	Combination		-0.0162	0.0043	0.3428	0	0	0
Base	83	527	CIM3	Combination		-0.0162	0.0043	0.3428	0	0	0
Base	85	529	Dead	LinStatic		-0.0038	0.0004	0.0374	0	0	0
Base	85	529	Live	LinStatic		-0.0044	0.0005	0.044	0	0	0
Base	85	529	PP	LinStatic		-0.008	0.0015	0.2628	0	0	0
Base	85	529	PDELTA	NonStatic	Max	-0.014	0.0022	0.3222	0	0	0
Base	85	529	PDELTA	NonStatic	Min	-0.014	0.0022	0.3222	0	0	0
Base	85	529	D	Combination		-0.0118	0.0019	0.3002	0	0	0
Base	85	529	L+Lr	Combination		-0.0044	0.0005	0.044	0	0	0
Base	85	529	1.4D	Combination		-0.0165	0.0027	0.4203	0	0	0
Base	85	529	1.2D+1.6L+0.5Lr	Combination		-0.0213	0.0031	0.4307	0	0	0
Base	85	529	1.2D+0.5L+1.6Lr	Combination		-0.0164	0.0025	0.3823	0	0	0
Base	85	529	CIM1	Combination		-0.0118	0.0019	0.3002	0	0	0
Base	85	529	CIM2	Combination		-0.0162	0.0024	0.3442	0	0	0
Base	85	529	CIM3	Combination		-0.0162	0.0024	0.3442	0	0	0
Base	87	531	Dead	LinStatic		-0.0038	0.0002	0.0376	0	0	0
Base	87	531	Live	LinStatic		-0.0044	0.0002	0.0442	0	0	0
Base	87	531	PP	LinStatic		-0.008	0.0006	0.2633	0	0	0
Base	87	531	PDELTA	NonStatic	Max	-0.014	0.0008	0.323	0	0	0
Base	87	531	PDELTA	NonStatic	Min	-0.014	0.0008	0.323	0	0	0
Base	87	531	D	Combination		-0.0118	0.0007	0.3009	0	0	0
Base	87	531	L+Lr	Combination		-0.0044	0.0002	0.0442	0	0	0

Table 5.1 - Joint Reactions (continued)

Story	Label	Unique Name	Output Case	Case Type	Step Type	FX tonf	FY tonf	FZ tonf	MX tonf-m	MY tonf-m	MZ tonf-m
Base	87	531	1.4D	Combination		-0.0165	0.001	0.4213	0	0	0
Base	87	531	1.2D+1.6L+0.5Lr	Combination		-0.0213	0.0012	0.4318	0	0	0
Base	87	531	1.2D+0.5L+1.6Lr	Combination		-0.0164	0.001	0.3832	0	0	0
Base	87	531	CIM1	Combination		-0.0118	0.0007	0.3009	0	0	0
Base	87	531	CIM2	Combination		-0.0162	0.0009	0.3451	0	0	0
Base	87	531	CIM3	Combination		-0.0162	0.0009	0.3451	0	0	0
Base	89	533	Dead	LinStatic		-0.0038	0.0001	0.0376	0	0	0
Base	89	533	Live	LinStatic		-0.0044	0.0001	0.0443	0	0	0
Base	89	533	PP	LinStatic		-0.008	0.0003	0.2635	0	0	0
Base	89	533	PDELTA	NonStatic	Max	-0.014	0.0004	0.3232	0	0	0
Base	89	533	PDELTA	NonStatic	Min	-0.014	0.0004	0.3232	0	0	0
Base	89	533	D	Combination		-0.0118	0.0003	0.3011	0	0	0
Base	89	533	L+Lr	Combination		-0.0044	0.0001	0.0443	0	0	0
Base	89	533	1.4D	Combination		-0.0165	0.0005	0.4215	0	0	0
Base	89	533	1.2D+1.6L+0.5Lr	Combination		-0.0213	0.0005	0.4321	0	0	0
Base	89	533	1.2D+0.5L+1.6Lr	Combination		-0.0164	0.0004	0.3835	0	0	0
Base	89	533	CIM1	Combination		-0.0118	0.0003	0.3011	0	0	0
Base	89	533	CIM2	Combination		-0.0162	0.0004	0.3454	0	0	0
Base	89	533	CIM3	Combination		-0.0162	0.0004	0.3454	0	0	0
Base	91	535	Dead	LinStatic		-0.0038	2.923E-05	0.0376	0	0	0
Base	91	535	Live	LinStatic		-0.0044	3.439E-05	0.0443	0	0	0
Base	91	535	PP	LinStatic		-0.008	0.0001	0.2636	0	0	0
Base	91	535	PDELTA	NonStatic	Max	-0.014	0.0002	0.3234	0	0	0
Base	91	535	PDELTA	NonStatic	Min	-0.014	0.0002	0.3234	0	0	0
Base	91	535	D	Combination		-0.0118	0.0001	0.3012	0	0	0
Base	91	535	L+Lr	Combination		-0.0044	3.439E-05	0.0443	0	0	0
Base	91	535	1.4D	Combination		-0.0165	0.0002	0.4217	0	0	0
Base	91	535	1.2D+1.6L+0.5Lr	Combination		-0.0213	0.0002	0.4323	0	0	0
Base	91	535	1.2D+0.5L+1.6Lr	Combination		-0.0164	0.0002	0.3836	0	0	0
Base	91	535	CIM1	Combination		-0.0118	0.0001	0.3012	0	0	0
Base	91	535	CIM2	Combination		-0.0162	0.0002	0.3455	0	0	0
Base	91	535	CIM3	Combination		-0.0162	0.0002	0.3455	0	0	0
Base	93	537	Dead	LinStatic		-0.0038	8.07E-06	0.0376	0	0	0
Base	93	537	Live	LinStatic		-0.0044	9.494E-06	0.0443	0	0	0
Base	93	537	PP	LinStatic		-0.008	2.858E-05	0.2636	0	0	0
Base	93	537	PDELTA	NonStatic	Max	-0.014	4.14E-05	0.3234	0	0	0
Base	93	537	PDELTA	NonStatic	Min	-0.014	4.14E-05	0.3234	0	0	0
Base	93	537	D	Combination		-0.0118	3.665E-05	0.3013	0	0	0
Base	93	537	L+Lr	Combination		-0.0044	9.494E-06	0.0443	0	0	0
Base	93	537	1.4D	Combination		-0.0165	0.0001	0.4218	0	0	0
Base	93	537	1.2D+1.6L+0.5Lr	Combination		-0.0213	0.0001	0.4324	0	0	0
Base	93	537	1.2D+0.5L+1.6Lr	Combination		-0.0164	4.873E-05	0.3836	0	0	0
Base	93	537	CIM1	Combination		-0.0118	3.665E-05	0.3013	0	0	0
Base	93	537	CIM2	Combination		-0.0162	4.614E-05	0.3455	0	0	0
Base	93	537	CIM3	Combination		-0.0162	4.614E-05	0.3455	0	0	0
Base	95	539	Dead	LinStatic		-0.0038	-8.07E-06	0.0376	0	0	0
Base	95	539	Live	LinStatic		-0.0044	-9.494E-06	0.0443	0	0	0

Table 5.1 - Joint Reactions (continued)

Story	Label	Unique Name	Output Case	Case Type	Step Type	FX tonf	FY tonf	FZ tonf	MX tonf-m	MY tonf-m	MZ tonf-m
Base	95	539	PP	LinStatic		-0.008	-2.858E-05	0.2636	0	0	0
Base	95	539	PDELTA	NonStatic	Max	-0.014	-4.14E-05	0.3234	0	0	0
Base	95	539	PDELTA	NonStatic	Min	-0.014	-4.14E-05	0.3234	0	0	0
Base	95	539	D	Combination		-0.0118	-3.665E-05	0.3013	0	0	0
Base	95	539	L+Lr	Combination		-0.0044	-9.494E-06	0.0443	0	0	0
Base	95	539	1.4D	Combination		-0.0165	-0.0001	0.4218	0	0	0
Base	95	539	1.2D+1.6L+0.5Lr	Combination		-0.0213	-0.0001	0.4324	0	0	0
Base	95	539	1.2D+0.5L+1.6Lr	Combination		-0.0164	-4.873E-05	0.3836	0	0	0
Base	95	539	CIM1	Combination		-0.0118	-3.665E-05	0.3013	0	0	0
Base	95	539	CIM2	Combination		-0.0162	-4.614E-05	0.3455	0	0	0
Base	95	539	CIM3	Combination		-0.0162	-4.614E-05	0.3455	0	0	0
Base	97	541	Dead	LinStatic		-0.0038	-2.923E-05	0.0376	0	0	0
Base	97	541	Live	LinStatic		-0.0044	-3.439E-05	0.0443	0	0	0
Base	97	541	PP	LinStatic		-0.008	-0.0001	0.2636	0	0	0
Base	97	541	PDELTA	NonStatic	Max	-0.014	-0.0002	0.3234	0	0	0
Base	97	541	PDELTA	NonStatic	Min	-0.014	-0.0002	0.3234	0	0	0
Base	97	541	D	Combination		-0.0118	-0.0001	0.3012	0	0	0
Base	97	541	L+Lr	Combination		-0.0044	-3.439E-05	0.0443	0	0	0
Base	97	541	1.4D	Combination		-0.0165	-0.0002	0.4217	0	0	0
Base	97	541	1.2D+1.6L+0.5Lr	Combination		-0.0213	-0.0002	0.4323	0	0	0
Base	97	541	1.2D+0.5L+1.6Lr	Combination		-0.0164	-0.0002	0.3836	0	0	0
Base	97	541	CIM1	Combination		-0.0118	-0.0001	0.3012	0	0	0
Base	97	541	CIM2	Combination		-0.0162	-0.0002	0.3455	0	0	0
Base	97	541	CIM3	Combination		-0.0162	-0.0002	0.3455	0	0	0
Base	99	543	Dead	LinStatic		-0.0038	-0.0001	0.0376	0	0	0
Base	99	543	Live	LinStatic		-0.0044	-0.0001	0.0443	0	0	0
Base	99	543	PP	LinStatic		-0.008	-0.0003	0.2635	0	0	0
Base	99	543	PDELTA	NonStatic	Max	-0.014	-0.0004	0.3232	0	0	0
Base	99	543	PDELTA	NonStatic	Min	-0.014	-0.0004	0.3232	0	0	0
Base	99	543	D	Combination		-0.0118	-0.0003	0.3011	0	0	0
Base	99	543	L+Lr	Combination		-0.0044	-0.0001	0.0443	0	0	0
Base	99	543	1.4D	Combination		-0.0165	-0.0005	0.4215	0	0	0
Base	99	543	1.2D+1.6L+0.5Lr	Combination		-0.0213	-0.0005	0.4321	0	0	0
Base	99	543	1.2D+0.5L+1.6Lr	Combination		-0.0164	-0.0004	0.3835	0	0	0
Base	99	543	CIM1	Combination		-0.0118	-0.0003	0.3011	0	0	0
Base	99	543	CIM2	Combination		-0.0162	-0.0004	0.3454	0	0	0
Base	99	543	CIM3	Combination		-0.0162	-0.0004	0.3454	0	0	0
Base	101	545	Dead	LinStatic		-0.0038	-0.0002	0.0376	0	0	0
Base	101	545	Live	LinStatic		-0.0044	-0.0002	0.0442	0	0	0
Base	101	545	PP	LinStatic		-0.008	-0.0006	0.2633	0	0	0

Table 5.1 - Joint Reactions (continued)

Story	Label	Unique Name	Output Case	Case Type	Step Type	FX tonf	FY tonf	FZ tonf	MX tonf-m	MY tonf-m	MZ tonf-m
Base	101	545	PDELTA	NonStatic	Max	-0.014	-0.0008	0.323	0	0	0
Base	101	545	PDELTA	NonStatic	Min	-0.014	-0.0008	0.323	0	0	0
Base	101	545	D	Combination		-0.0118	-0.0007	0.3009	0	0	0
Base	101	545	L+Lr	Combination		-0.0044	-0.0002	0.0442	0	0	0
Base	101	545	1.4D	Combination		-0.0165	-0.001	0.4213	0	0	0
Base	101	545	1.2D+1.6L+0.5Lr	Combination		-0.0213	-0.0012	0.4318	0	0	0
Base	101	545	1.2D+0.5L+1.6Lr	Combination		-0.0164	-0.001	0.3832	0	0	0
Base	101	545	CIM1	Combination		-0.0118	-0.0007	0.3009	0	0	0
Base	101	545	CIM2	Combination		-0.0162	-0.0009	0.3451	0	0	0
Base	101	545	CIM3	Combination		-0.0162	-0.0009	0.3451	0	0	0
Base	103	547	Dead	LinStatic		-0.0038	-0.0004	0.0374	0	0	0
Base	103	547	Live	LinStatic		-0.0044	-0.0005	0.044	0	0	0
Base	103	547	PP	LinStatic		-0.008	-0.0015	0.2628	0	0	0
Base	103	547	PDELTA	NonStatic	Max	-0.014	-0.0022	0.3222	0	0	0
Base	103	547	PDELTA	NonStatic	Min	-0.014	-0.0022	0.3222	0	0	0
Base	103	547	D	Combination		-0.0118	-0.0019	0.3002	0	0	0
Base	103	547	L+Lr	Combination		-0.0044	-0.0005	0.044	0	0	0
Base	103	547	1.4D	Combination		-0.0165	-0.0027	0.4203	0	0	0
Base	103	547	1.2D+1.6L+0.5Lr	Combination		-0.0213	-0.0031	0.4307	0	0	0
Base	103	547	1.2D+0.5L+1.6Lr	Combination		-0.0164	-0.0025	0.3823	0	0	0
Base	103	547	CIM1	Combination		-0.0118	-0.0019	0.3002	0	0	0
Base	103	547	CIM2	Combination		-0.0162	-0.0024	0.3442	0	0	0
Base	103	547	CIM3	Combination		-0.0162	-0.0024	0.3442	0	0	0
Base	105	549	Dead	LinStatic		-0.0038	-0.0008	0.0371	0	0	0
Base	105	549	Live	LinStatic		-0.0044	-0.0009	0.0437	0	0	0
Base	105	549	PP	LinStatic		-0.008	-0.0026	0.262	0	0	0
Base	105	549	PDELTA	NonStatic	Max	-0.014	-0.0038	0.321	0	0	0
Base	105	549	PDELTA	NonStatic	Min	-0.014	-0.0038	0.321	0	0	0
Base	105	549	D	Combination		-0.0118	-0.0033	0.2992	0	0	0
Base	105	549	L+Lr	Combination		-0.0044	-0.0009	0.0437	0	0	0
Base	105	549	1.4D	Combination		-0.0165	-0.0047	0.4188	0	0	0
Base	105	549	1.2D+1.6L+0.5Lr	Combination		-0.0213	-0.0055	0.4289	0	0	0
Base	105	549	1.2D+0.5L+1.6Lr	Combination		-0.0164	-0.0045	0.3808	0	0	0
Base	105	549	CIM1	Combination		-0.0118	-0.0033	0.2992	0	0	0
Base	105	549	CIM2	Combination		-0.0162	-0.0043	0.3428	0	0	0
Base	105	549	CIM3	Combination		-0.0162	-0.0043	0.3428	0	0	0
Base	107	551	Dead	LinStatic		-0.0037	-0.0021	0.037	0	0	0
Base	107	551	Live	LinStatic		-0.0044	-0.0025	0.0436	0	0	0
Base	107	551	PP	LinStatic		-0.0079	-0.0084	0.2613	0	0	0
Base	107	551	PDELTA	NonStatic	Max	-0.0138	-0.0118	0.3201	0	0	0
Base	107	551	PDELTA	NonStatic	Min	-0.0138	-0.0118	0.3201	0	0	0
Base	107	551	D	Combination		-0.0116	-0.0106	0.2983	0	0	0
Base	107	551	L+Lr	Combination		-0.0044	-0.0025	0.0436	0	0	0
Base	107	551	1.4D	Combination		-0.0162	-0.0148	0.4176	0	0	0
Base	107	551	1.2D+1.6L+0.5Lr	Combination		-0.0209	-0.0167	0.4277	0	0	0
Base	107	551	1.2D+0.5L+1.6Lr	Combination		-0.0161	-0.0139	0.3798	0	0	0
Base	107	551	CIM1	Combination		-0.0116	-0.0106	0.2983	0	0	0
Base	107	551	CIM2	Combination		-0.016	-0.0131	0.3419	0	0	0
Base	107	551	CIM3	Combination		-0.016	-0.0131	0.3419	0	0	0

Table 5.1 - Joint Reactions (continued)

Story	Label	Unique Name	Output Case	Case Type	Step Type	FX tonf	FY tonf	FZ tonf	MX tonf-m	MY tonf-m	MZ tonf-m
Base	110	598	Dead	LinStatic		0	-0.0001	-0.0031	0	0	0
Base	110	598	Live	LinStatic		0	-0.0001	-0.0036	0	0	0
Base	110	598	PP	LinStatic		0	-0.0002	0.0303	0	0	0
Base	110	598	PDELTA	NonStatic	Max	0	-0.0004	0.0254	0	0	0
Base	110	598	PDELTA	NonStatic	Min	0	-0.0004	0.0254	0	0	0
Base	110	598	D	Combination		0	-0.0003	0.0272	0	0	0
Base	110	598	L+Lr	Combination		0	-0.0001	-0.0036	0	0	0
Base	110	598	1.4D	Combination		0	-0.0005	0.0381	0	0	0
Base	110	598	1.2D+1.6L+0.5Lr	Combination		0	-0.0006	0.0268	0	0	0
Base	110	598	1.2D+0.5L+1.6Lr	Combination		0	-0.0004	0.0308	0	0	0
Base	110	598	CIM1	Combination		0	-0.0003	0.0272	0	0	0
Base	110	598	CIM2	Combination		0	-0.0004	0.0236	0	0	0
Base	110	598	CIM3	Combination		0	-0.0004	0.0236	0	0	0
Base	111	599	Dead	LinStatic		0	8.191E-06	-0.0059	0	0	0
Base	111	599	Live	LinStatic		0	9.636E-06	-0.007	0	0	0
Base	111	599	PP	LinStatic		0	1.802E-05	0.061	0	0	0
Base	111	599	PDELTA	NonStatic	Max	0	3.102E-05	0.0516	0	0	0
Base	111	599	PDELTA	NonStatic	Min	0	3.102E-05	0.0516	0	0	0
Base	111	599	D	Combination		0	2.621E-05	0.0551	0	0	0
Base	111	599	L+Lr	Combination		0	9.636E-06	-0.007	0	0	0
Base	111	599	1.4D	Combination		0	3.669E-05	0.0771	0	0	0
Base	111	599	1.2D+1.6L+0.5Lr	Combination		0	4.687E-05	0.0549	0	0	0
Base	111	599	1.2D+0.5L+1.6Lr	Combination		0	3.627E-05	0.0626	0	0	0
Base	111	599	CIM1	Combination		0	2.621E-05	0.0551	0	0	0
Base	111	599	CIM2	Combination		0	3.584E-05	0.0481	0	0	0
Base	111	599	CIM3	Combination		0	3.584E-05	0.0481	0	0	0
Base	112	600	Dead	LinStatic		0	8E-06	-0.0059	0	0	0
Base	112	600	Live	LinStatic		0	9.412E-06	-0.007	0	0	0
Base	112	600	PP	LinStatic		0	1.93E-05	0.061	0	0	0
Base	112	600	PDELTA	NonStatic	Max	0	3.201E-05	0.0516	0	0	0
Base	112	600	PDELTA	NonStatic	Min	0	3.201E-05	0.0516	0	0	0
Base	112	600	D	Combination		0	2.73E-05	0.0551	0	0	0
Base	112	600	L+Lr	Combination		0	9.412E-06	-0.007	0	0	0
Base	112	600	1.4D	Combination		0	3.822E-05	0.0771	0	0	0
Base	112	600	1.2D+1.6L+0.5Lr	Combination		0	4.782E-05	0.0549	0	0	0
Base	112	600	1.2D+0.5L+1.6Lr	Combination		0	3.747E-05	0.0626	0	0	0
Base	112	600	CIM1	Combination		0	2.73E-05	0.0551	0	0	0
Base	112	600	CIM2	Combination		0	3.671E-05	0.0481	0	0	0
Base	112	600	CIM3	Combination		0	3.671E-05	0.0481	0	0	0
Base	113	601	Dead	LinStatic		0	-1.035E-06	-0.006	0	0	0
Base	113	601	Live	LinStatic		0	-1.217E-06	-0.007	0	0	0
Base	113	601	PP	LinStatic		0	-1.965E-06	0.0609	0	0	0
Base	113	601	PDELTA	NonStatic	Max	0	-3.608E-06	0.0515	0	0	0
Base	113	601	PDELTA	NonStatic	Min	0	-3.608E-06	0.0515	0	0	0

Table 5.1 - Joint Reactions (continued)

Story	Label	Unique Name	Output Case	Case Type	Step Type	FX tonf	FY tonf	FZ tonf	MX tonf-m	MY tonf-m	MZ tonf-m
Base	113	601	D	Combination		0	-2.999E-06	0.055	0	0	0
Base	113	601	L+Lr	Combination		0	-1.217E-06	-0.007	0	0	0
Base	113	601	1.4D	Combination		0	-4.199E-06	0.0769	0	0	0
Base	113	601	1.2D+1.6L+0.5Lr	Combination		0	-5.547E-06	0.0547	0	0	0
Base	113	601	1.2D+0.5L+1.6Lr	Combination		0	-4.208E-06	0.0624	0	0	0
Base	113	601	CIM1	Combination		0	-2.999E-06	0.055	0	0	0
Base	113	601	CIM2	Combination		0	-4.217E-06	0.048	0	0	0
Base	113	601	CIM3	Combination		0	-4.217E-06	0.048	0	0	0
Base	114	602	Dead	LinStatic		0	0	-0.006	0	0	0
Base	114	602	Live	LinStatic		0	0	-0.007	0	0	0
Base	114	602	PP	LinStatic		0	7.613E-07	0.0609	0	0	0
Base	114	602	PDELTA	NonStatic	Max	0	1.161E-06	0.0515	0	0	0
Base	114	602	PDELTA	NonStatic	Min	0	1.161E-06	0.0515	0	0	0
Base	114	602	D	Combination		0	1.013E-06	0.055	0	0	0
Base	114	602	L+Lr	Combination		0	0	-0.007	0	0	0
Base	114	602	1.4D	Combination		0	1.418E-06	0.077	0	0	0
Base	114	602	1.2D+1.6L+0.5Lr	Combination		0	1.689E-06	0.0548	0	0	0
Base	114	602	1.2D+0.5L+1.6Lr	Combination		0	1.364E-06	0.0625	0	0	0
Base	114	602	CIM1	Combination		0	1.013E-06	0.055	0	0	0
Base	114	602	CIM2	Combination		0	1.309E-06	0.048	0	0	0
Base	114	602	CIM3	Combination		0	1.309E-06	0.048	0	0	0
Base	115	603	Dead	LinStatic		0	0	-0.006	0	0	0
Base	115	603	Live	LinStatic		0	0	-0.007	0	0	0
Base	115	603	PP	LinStatic		0	0	0.0609	0	0	0
Base	115	603	PDELTA	NonStatic	Max	0	0	0.0515	0	0	0
Base	115	603	PDELTA	NonStatic	Min	0	0	0.0515	0	0	0
Base	115	603	D	Combination		0	0	0.055	0	0	0
Base	115	603	L+Lr	Combination		0	0	-0.007	0	0	0
Base	115	603	1.4D	Combination		0	0	0.0769	0	0	0
Base	115	603	1.2D+1.6L+0.5Lr	Combination		0	0	0.0547	0	0	0
Base	115	603	1.2D+0.5L+1.6Lr	Combination		0	0	0.0624	0	0	0
Base	115	603	CIM1	Combination		0	0	0.055	0	0	0
Base	115	603	CIM2	Combination		0	0	0.048	0	0	0
Base	115	603	CIM3	Combination		0	0	0.048	0	0	0
Base	116	604	Dead	LinStatic		0	0	-0.006	0	0	0
Base	116	604	Live	LinStatic		0	0	-0.007	0	0	0
Base	116	604	PP	LinStatic		0	0	0.0609	0	0	0
Base	116	604	PDELTA	NonStatic	Max	0	0	0.0515	0	0	0
Base	116	604	PDELTA	NonStatic	Min	0	0	0.0515	0	0	0
Base	116	604	D	Combination		0	0	0.055	0	0	0
Base	116	604	L+Lr	Combination		0	0	-0.007	0	0	0
Base	116	604	1.4D	Combination		0	0	0.0769	0	0	0

Table 5.1 - Joint Reactions (continued)

Story	Label	Unique Name	Output Case	Case Type	Step Type	FX tonf	FY tonf	FZ tonf	MX tonf-m	MY tonf-m	MZ tonf-m
Base	116	604	1.2D+1.6L+0.5Lr	Combination		0	0	0.0547	0	0	0
Base	116	604	1.2D+0.5L+1.6Lr	Combination		0	0	0.0624	0	0	0
Base	116	604	CIM1	Combination		0	0	0.055	0	0	0
Base	116	604	CIM2	Combination		0	0	0.0479	0	0	0
Base	116	604	CIM3	Combination		0	0	0.0479	0	0	0
Base	117	605	Dead	LinStatic		0	0	-0.006	0	0	0
Base	117	605	Live	LinStatic		0	0	-0.007	0	0	0
Base	117	605	PP	LinStatic		0	0	0.0609	0	0	0
Base	117	605	PDELTA	NonStatic	Max	0	0	0.0514	0	0	0
Base	117	605	PDELTA	NonStatic	Min	0	0	0.0514	0	0	0
Base	117	605	D	Combination		0	0	0.055	0	0	0
Base	117	605	L+Lr	Combination		0	0	-0.007	0	0	0
Base	117	605	1.4D	Combination		0	0	0.0769	0	0	0
Base	117	605	1.2D+1.6L+0.5Lr	Combination		0	0	0.0547	0	0	0
Base	117	605	1.2D+0.5L+1.6Lr	Combination		0	0	0.0624	0	0	0
Base	117	605	CIM1	Combination		0	0	0.055	0	0	0
Base	117	605	CIM2	Combination		0	0	0.0479	0	0	0
Base	117	605	CIM3	Combination		0	0	0.0479	0	0	0
Base	118	606	Dead	LinStatic		0	0	-0.006	0	0	0
Base	118	606	Live	LinStatic		0	0	-0.007	0	0	0
Base	118	606	PP	LinStatic		0	0	0.0609	0	0	0
Base	118	606	PDELTA	NonStatic	Max	0	0	0.0514	0	0	0
Base	118	606	PDELTA	NonStatic	Min	0	0	0.0514	0	0	0
Base	118	606	D	Combination		0	0	0.055	0	0	0
Base	118	606	L+Lr	Combination		0	0	-0.007	0	0	0
Base	118	606	1.4D	Combination		0	0	0.0769	0	0	0
Base	118	606	1.2D+1.6L+0.5Lr	Combination		0	0	0.0547	0	0	0
Base	118	606	1.2D+0.5L+1.6Lr	Combination		0	0	0.0624	0	0	0
Base	118	606	CIM1	Combination		0	0	0.055	0	0	0
Base	118	606	CIM2	Combination		0	0	0.0479	0	0	0
Base	118	606	CIM3	Combination		0	0	0.0479	0	0	0
Base	119	607	Dead	LinStatic		0	0	-0.006	0	0	0
Base	119	607	Live	LinStatic		0	0	-0.007	0	0	0
Base	119	607	PP	LinStatic		0	0	0.0609	0	0	0
Base	119	607	PDELTA	NonStatic	Max	0	0	0.0515	0	0	0
Base	119	607	PDELTA	NonStatic	Min	0	0	0.0515	0	0	0
Base	119	607	D	Combination		0	0	0.055	0	0	0
Base	119	607	L+Lr	Combination		0	0	-0.007	0	0	0
Base	119	607	1.4D	Combination		0	0	0.0769	0	0	0
Base	119	607	1.2D+1.6L+0.5Lr	Combination		0	0	0.0547	0	0	0
Base	119	607	1.2D+0.5L+1.6Lr	Combination		0	0	0.0624	0	0	0
Base	119	607	CIM1	Combination		0	0	0.055	0	0	0
Base	119	607	CIM2	Combination		0	0	0.0479	0	0	0
Base	119	607	CIM3	Combination		0	0	0.0479	0	0	0
Base	120	608	Dead	LinStatic		0	0	-0.006	0	0	0
Base	120	608	Live	LinStatic		0	0	-0.007	0	0	0
Base	120	608	PP	LinStatic		0	0	0.0609	0	0	0
Base	120	608	PDELTA	NonStatic	Max	0	0	0.0515	0	0	0
Base	120	608	PDELTA	NonStatic	Min	0	0	0.0515	0	0	0

Table 5.1 - Joint Reactions (continued)

Story	Label	Unique Name	Output Case	Case Type	Step Type	FX tonf	FY tonf	FZ tonf	MX tonf-m	MY tonf-m	MZ tonf-m
Base	120	608	D	Combination		0	0	0.055	0	0	0
Base	120	608	L+Lr	Combination		0	0	-0.007	0	0	0
Base	120	608	1.4D	Combination		0	0	0.0769	0	0	0
Base	120	608	1.2D+1.6L+0.5Lr	Combination		0	0	0.0547	0	0	0
Base	120	608	1.2D+0.5L+1.6Lr	Combination		0	0	0.0624	0	0	0
Base	120	608	CIM1	Combination		0	0	0.055	0	0	0
Base	120	608	CIM2	Combination		0	0	0.048	0	0	0
Base	120	608	CIM3	Combination		0	0	0.048	0	0	0
Base	121	609	Dead	LinStatic		0	0	-0.006	0	0	0
Base	121	609	Live	LinStatic		0	0	-0.007	0	0	0
Base	121	609	PP	LinStatic		0	-7.613E-07	0.0609	0	0	0
Base	121	609	PDELTA	NonStatic	Max	0	-1.161E-06	0.0515	0	0	0
Base	121	609	PDELTA	NonStatic	Min	0	-1.161E-06	0.0515	0	0	0
Base	121	609	D	Combination		0	-1.013E-06	0.055	0	0	0
Base	121	609	L+Lr	Combination		0	0	-0.007	0	0	0
Base	121	609	1.4D	Combination		0	-1.418E-06	0.077	0	0	0
Base	121	609	1.2D+1.6L+0.5Lr	Combination		0	-1.689E-06	0.0548	0	0	0
Base	121	609	1.2D+0.5L+1.6Lr	Combination		0	-1.364E-06	0.0625	0	0	0
Base	121	609	CIM1	Combination		0	-1.013E-06	0.055	0	0	0
Base	121	609	CIM2	Combination		0	-1.309E-06	0.048	0	0	0
Base	121	609	CIM3	Combination		0	-1.309E-06	0.048	0	0	0
Base	122	610	Dead	LinStatic		0	1.035E-06	-0.006	0	0	0
Base	122	610	Live	LinStatic		0	1.217E-06	-0.007	0	0	0
Base	122	610	PP	LinStatic		0	1.965E-06	0.0609	0	0	0
Base	122	610	PDELTA	NonStatic	Max	0	3.608E-06	0.0515	0	0	0
Base	122	610	PDELTA	NonStatic	Min	0	3.608E-06	0.0515	0	0	0
Base	122	610	D	Combination		0	2.999E-06	0.055	0	0	0
Base	122	610	L+Lr	Combination		0	1.217E-06	-0.007	0	0	0
Base	122	610	1.4D	Combination		0	4.199E-06	0.0769	0	0	0
Base	122	610	1.2D+1.6L+0.5Lr	Combination		0	5.547E-06	0.0547	0	0	0
Base	122	610	1.2D+0.5L+1.6Lr	Combination		0	4.208E-06	0.0624	0	0	0
Base	122	610	CIM1	Combination		0	2.999E-06	0.055	0	0	0
Base	122	610	CIM2	Combination		0	4.217E-06	0.048	0	0	0
Base	122	610	CIM3	Combination		0	4.217E-06	0.048	0	0	0
Base	123	611	Dead	LinStatic		0	-8E-06	-0.0059	0	0	0
Base	123	611	Live	LinStatic		0	-9.412E-06	-0.007	0	0	0
Base	123	611	PP	LinStatic		0	-1.93E-05	0.061	0	0	0
Base	123	611	PDELTA	NonStatic	Max	0	-3.201E-05	0.0516	0	0	0

Table 5.1 - Joint Reactions (continued)

Story	Label	Unique Name	Output Case	Case Type	Step Type	FX tonf	FY tonf	FZ tonf	MX tonf-m	MY tonf-m	MZ tonf-m
Base	123	611	PDELTA	NonStatic	Min	0	-3.201E-05	0.0516	0	0	0
Base	123	611	D	Combination		0	-2.73E-05	0.0551	0	0	0
Base	123	611	L+Lr	Combination		0	-9.412E-06	-0.007	0	0	0
Base	123	611	1.4D	Combination		0	-3.822E-05	0.0771	0	0	0
Base	123	611	1.2D+1.6L+0.5Lr	Combination		0	-4.782E-05	0.0549	0	0	0
Base	123	611	1.2D+0.5L+1.6Lr	Combination		0	-3.747E-05	0.0626	0	0	0
Base	123	611	CIM1	Combination		0	-2.73E-05	0.0551	0	0	0
Base	123	611	CIM2	Combination		0	-3.671E-05	0.0481	0	0	0
Base	123	611	CIM3	Combination		0	-3.671E-05	0.0481	0	0	0
Base	124	612	Dead	LinStatic		0	-8.191E-06	-0.0059	0	0	0
Base	124	612	Live	LinStatic		0	-9.636E-06	-0.007	0	0	0
Base	124	612	PP	LinStatic		0	-1.802E-05	0.061	0	0	0
Base	124	612	PDELTA	NonStatic	Max	0	-3.102E-05	0.0516	0	0	0
Base	124	612	PDELTA	NonStatic	Min	0	-3.102E-05	0.0516	0	0	0
Base	124	612	D	Combination		0	-2.621E-05	0.0551	0	0	0
Base	124	612	L+Lr	Combination		0	-9.636E-06	-0.007	0	0	0
Base	124	612	1.4D	Combination		0	-3.669E-05	0.0771	0	0	0
Base	124	612	1.2D+1.6L+0.5Lr	Combination		0	-4.687E-05	0.0549	0	0	0
Base	124	612	1.2D+0.5L+1.6Lr	Combination		0	-3.627E-05	0.0626	0	0	0
Base	124	612	CIM1	Combination		0	-2.621E-05	0.0551	0	0	0
Base	124	612	CIM2	Combination		0	-3.584E-05	0.0481	0	0	0
Base	124	612	CIM3	Combination		0	-3.584E-05	0.0481	0	0	0
Base	125	613	Dead	LinStatic		0	0.0001	-0.0031	0	0	0
Base	125	613	Live	LinStatic		0	0.0001	-0.0036	0	0	0
Base	125	613	PP	LinStatic		0	0.0002	0.0303	0	0	0
Base	125	613	PDELTA	NonStatic	Max	0	0.0004	0.0254	0	0	0
Base	125	613	PDELTA	NonStatic	Min	0	0.0004	0.0254	0	0	0
Base	125	613	D	Combination		0	0.0003	0.0272	0	0	0
Base	125	613	L+Lr	Combination		0	0.0001	-0.0036	0	0	0
Base	125	613	1.4D	Combination		0	0.0005	0.0381	0	0	0
Base	125	613	1.2D+1.6L+0.5Lr	Combination		0	0.0006	0.0268	0	0	0

Table 5.1 - Joint Reactions (continued)

Story	Label	Unique Name	Output Case	Case Type	Step Type	FX tonf	FY tonf	FZ tonf	MX tonf-m	MY tonf-m	MZ tonf-m
Base	125	613	1.2D+0.5L+1.6Lr	Combination		0	0.0004	0.0308	0	0	0
Base	125	613	CIM1	Combination		0	0.0003	0.0272	0	0	0
Base	125	613	CIM2	Combination		0	0.0004	0.0236	0	0	0
Base	125	613	CIM3	Combination		0	0.0004	0.0236	0	0	0

5.2 Modal Results

Table 5.2 - Modal Participating Mass Ratios (Part 1 of 2)

Case	Mode	Period sec	UX	UY	UZ	SumUX	SumUY	SumUZ	RX	RY	RZ
Modal	1	0.008	1	0	0	1	0	0	0	1	0
Modal	2	0.008	0	0	0	1	0	0	0	0	0.9847
Modal	3	0.007	1.986E-06	0	0	1	0	0	0	1.986E-06	0
Modal	4	0.006	0	0	0	1	0	0	0	0	0.0127
Modal	5	0.005	0	0	0	1	0	0	0	0	0
Modal	6	0.004	0	0	0	1	0	0	0	0	0.0015
Modal	7	0.004	0	0	0	1	0	0	0	0	0
Modal	8	0.003	0	0	0	1	0	0	0	0	0.0003
Modal	9	0.003	0	0	0	1	0	0	0	0	0
Modal	10	0.003	0	0	0	1	0	0	0	0	0.0001
Modal	11	0.002	0	0.9431	0	1	0.9431	0	0.9431	0	0
Modal	12	0.002	0	0	0	1	0.9431	0	0	0	0
Modal	13	0.002	0	0	0	1	0.9431	0	0	0	0
Modal	14	0.002	0	0	0	1	0.9431	0	0	0	1.144E-05
Modal	15	0.002	0	0.0495	0	1	0.9926	0	0.0495	0	0
Modal	16	0.002	0	0	0	1	0.9926	0	0	0	0
Modal	17	0.002	0	0	0	1	0.9926	0	0	0	0
Modal	18	0.002	0	0	0	1	0.9926	0	0	0	2.505E-06
Modal	19	0.002	0	0	0	1	0.9926	0	0	0	0
Modal	20	0.002	0	0.0022	0	1	0.9947	0	0.0022	0	0
Modal	21	0.002	0	0	0	1	0.9947	0	0	0	0
Modal	22	0.002	0	0	0	1	0.9947	0	0	0	0
Modal	23	0.001	0	0.0004	0	1	0.9952	0	0.0004	0	0
Modal	24	0.001	0	0	0	1	0.9952	0	0	0	0
Modal	25	0.001	0	7.666E-06	0	1	0.9952	0	7.666E-06	0	0
Modal	26	0.001	0	0	0	1	0.9952	0	0	0	0
Modal	27	0.001	0	0	0	1	0.9952	0	0	0	0
Modal	28	0.001	0	0	0	1	0.9952	0	0	0	0
Modal	29	0.001	0	0	0	1	0.9952	0	0	0	0
Modal	30	0.001	0	1.849E-05	0	1	0.9952	0	1.849E-05	0	0

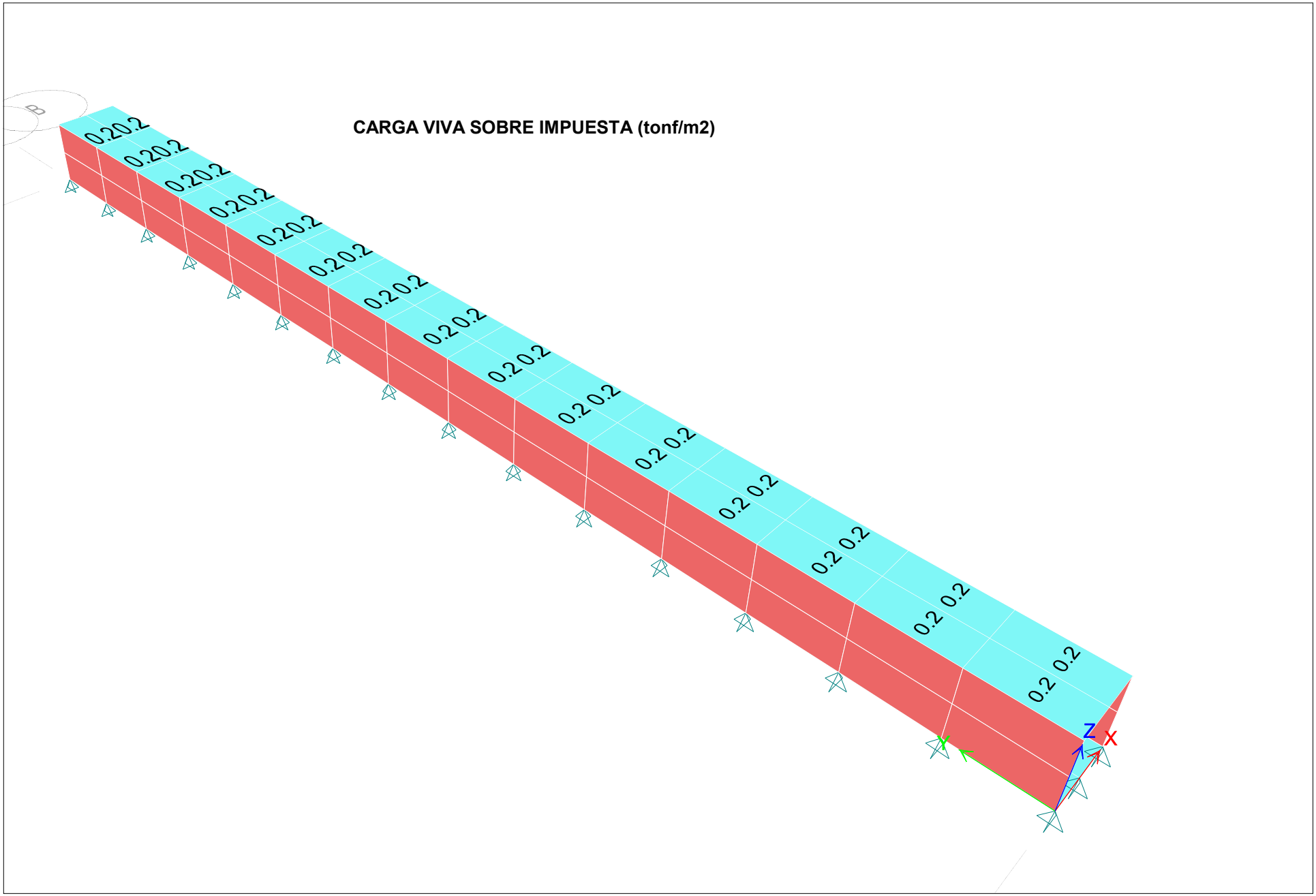
Table 5.2 - Modal Participating Mass Ratios (Part 2 of 2)

Case	Mode	SumRX	SumRY	SumRZ
Modal	1	0	1	0
Modal	2	0	1	0.9847
Modal	3	0	1	0.9847
Modal	4	0	1	0.9975
Modal	5	0	1	0.9975
Modal	6	0	1	0.999

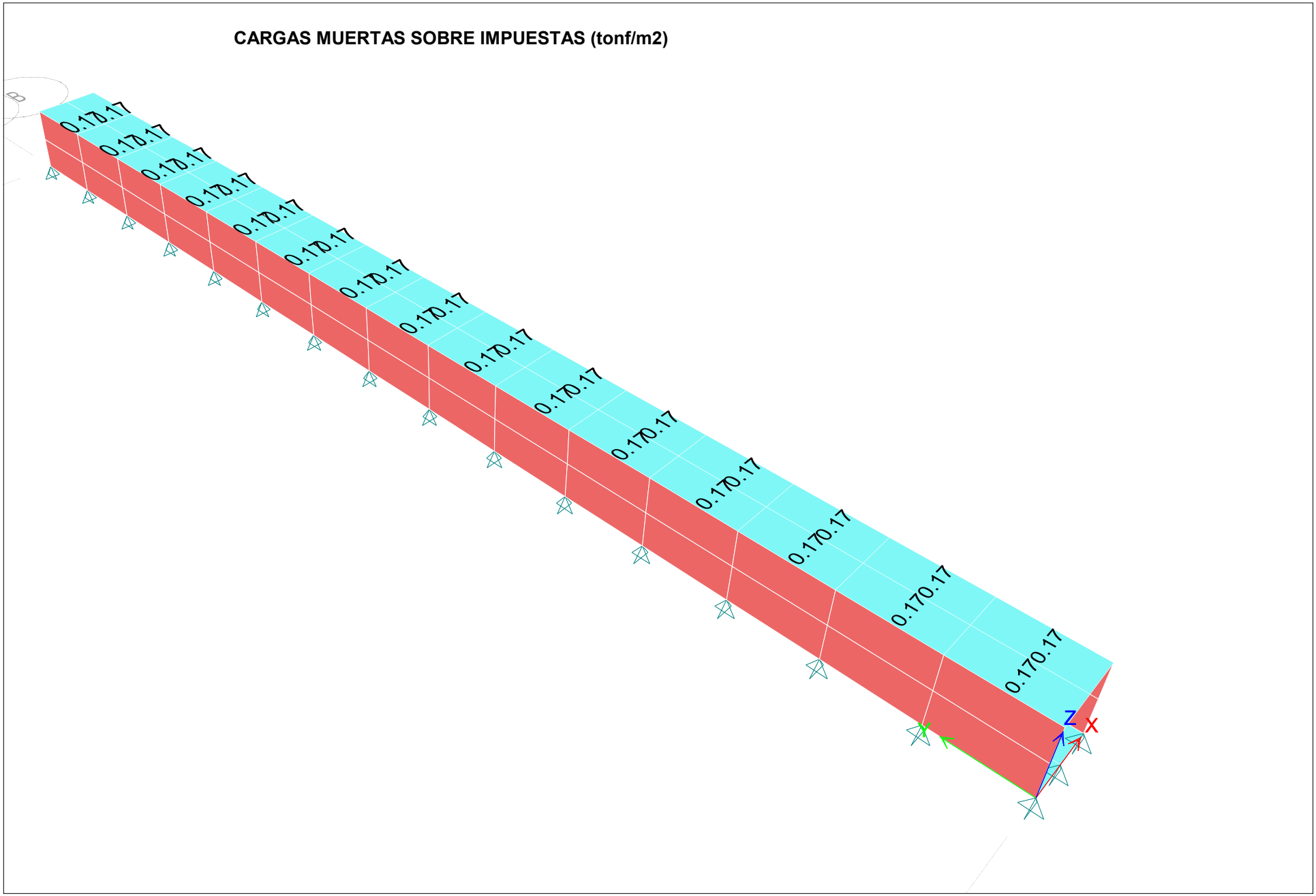
Table 5.2 - Modal Participating Mass Ratios (Part 2 of 2, continued)

Case	Mode	SumRX	SumRY	SumRZ
Modal	7	0	1	0.999
Modal	8	0	1	0.9992
Modal	9	0	1	0.9992
Modal	10	0	1	0.9993
Modal	11	0.9431	1	0.9993
Modal	12	0.9431	1	0.9993
Modal	13	0.9431	1	0.9993
Modal	14	0.9431	1	0.9993
Modal	15	0.9926	1	0.9993
Modal	16	0.9926	1	0.9993
Modal	17	0.9926	1	0.9993
Modal	18	0.9926	1	0.9993
Modal	19	0.9926	1	0.9993
Modal	20	0.9947	1	0.9993
Modal	21	0.9947	1	0.9993
Modal	22	0.9947	1	0.9993
Modal	23	0.9952	1	0.9993
Modal	24	0.9952	1	0.9993
Modal	25	0.9952	1	0.9993
Modal	26	0.9952	1	0.9993
Modal	27	0.9952	1	0.9993
Modal	28	0.9952	1	0.9993
Modal	29	0.9952	1	0.9993
Modal	30	0.9952	1	0.9993

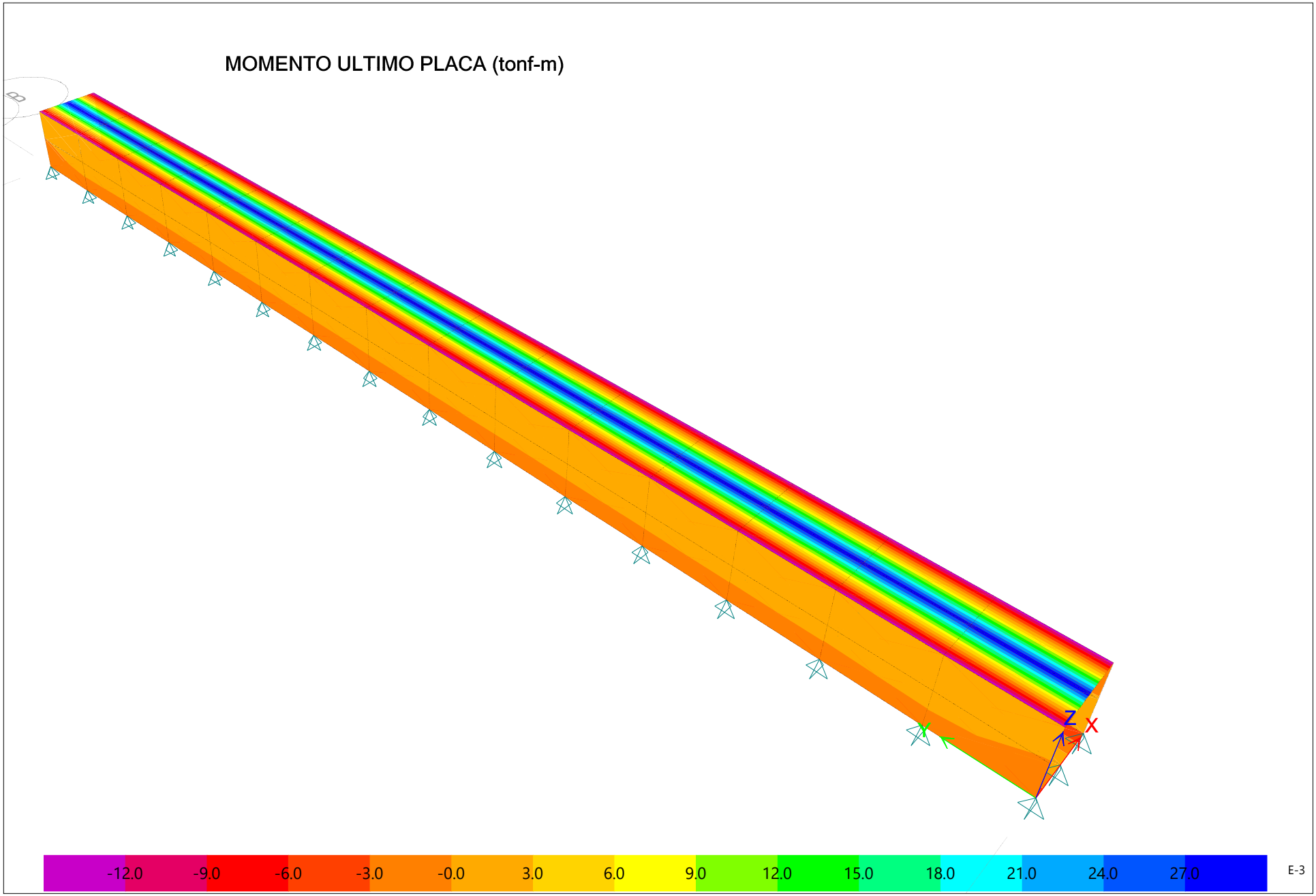
CARGA VIVA SOBRE IMPUESTA (tonf/m2)



CARGAS MUERTAS SOBRE IMPUESTAS (tonf/m2)

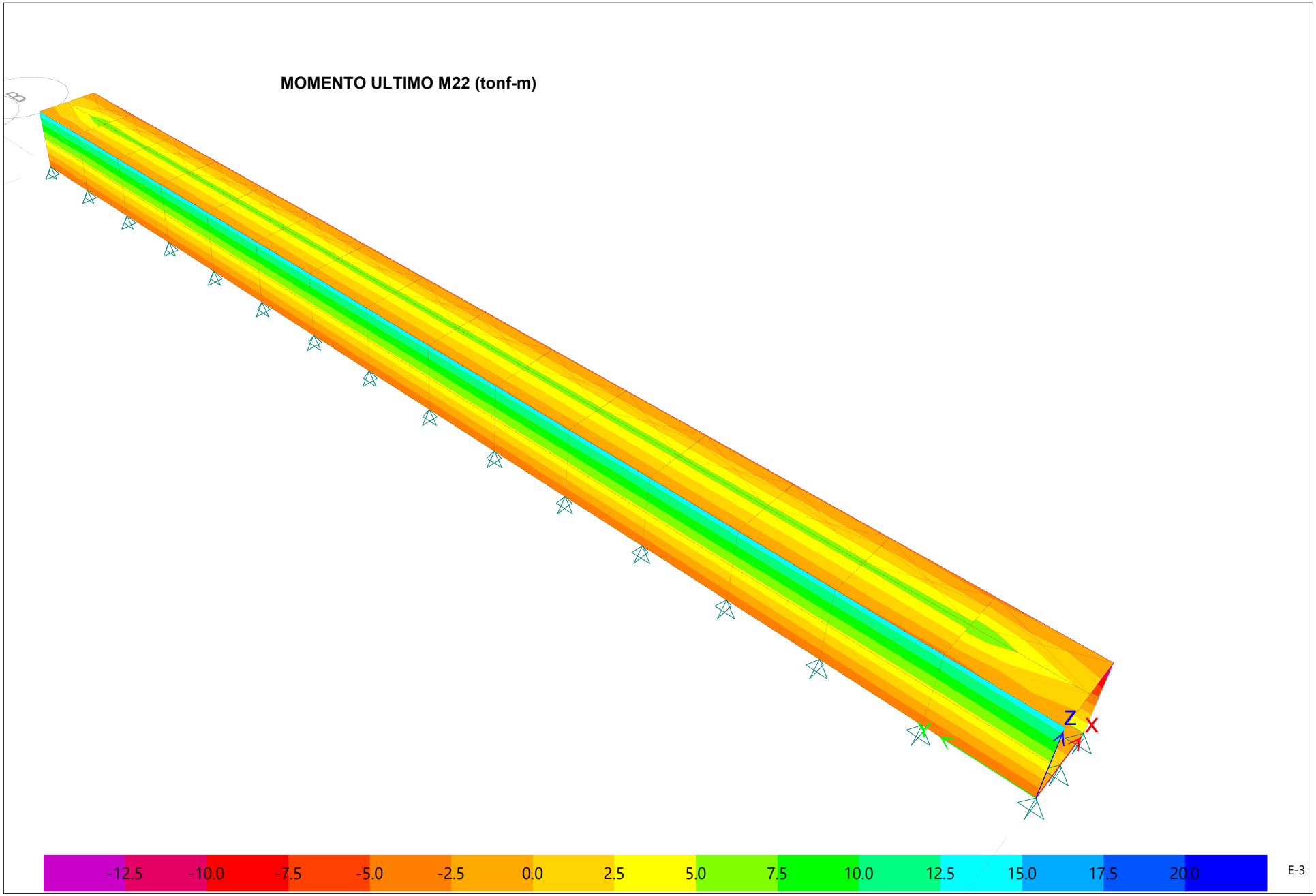


MOMENTO ULTIMO PLACA (tonf-m)



SOPORTE LETRERO.EDB 3-D View Resultant M11 Diagram (1.2D+1.6L+0.5Lr) [tonf-m/m]

MOMENTO ULTIMO M22 (tonf-m)



SOPORTE LETRERO.EDB 3-D View Resultant M22 Diagram (1.2D+1.6L+0.5Lr) [tonf-m/m]

DISEÑO LOSA

LETRERO

1. Parámetros de diseño

f'_c (MPa)	f_y (MPa)	b (m)	h (m)	d' (m)	d (m)	L (m)
21	420	1.00	0.15	0.07	0.08	0.80

2. Avalúo de Cargas

Cargas Muertas	
Peso propio de placa	0.360 t/m²
letras	0.150 t/m²
Muros No Estructurales	0.000 t/m²
Otros	0.020 t/m²

Carga Muerta: 0.530 t/m²
Carga Viva: 0.200 t/m²
Carga última: 0.956 t/m²

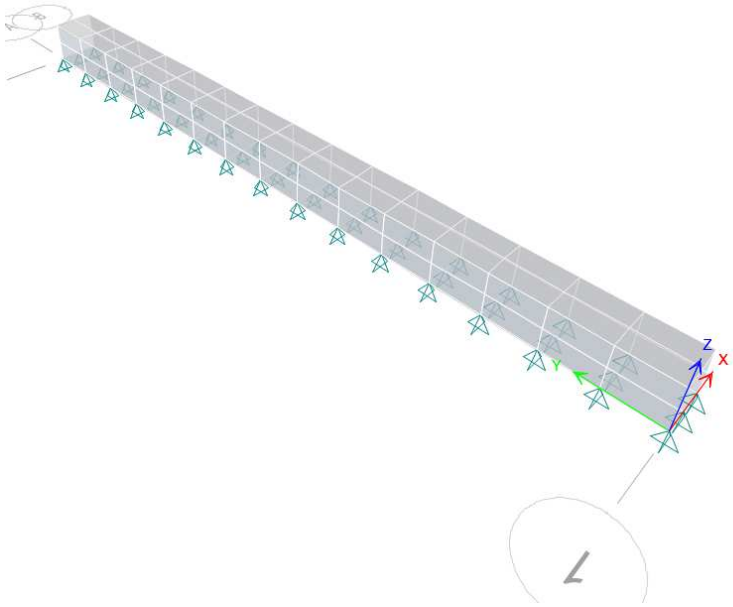
3. Diseño de la placa

DISEÑO A FLEXIÓN			
M_u (t-m)	M_u^-	M_u^+	M_u^-
	0.06	0.04	0.06
ρ	0.0020	0.0020	0.0020
A_s (cm^2)	1.60	1.60	1.60
Grafil	**6.0mm c/15**	**6.0mm c/15**	**6.0mm c/15**
Barras	**#3**	**#3**	**#3**
Separación	**c/44cm**	**c/44cm**	**c/44cm**

RETRACCIÓN Y TEMPERATURA	
Mallas	1
$A_{s\ min}$ (cm^2)	2.70
Grafil	**4.5mm c/15**
Barras	**#3**
Separación	**c/71cm**

DISEÑO A CORTANTE			
V_u (t)	V_{ud} (t)	ϕV_c (t)	CHEQUEO
0.44	0.44	4.67	O.K.

ETABS®



REACCIONES

Model File: SUESCA, Revision 0
6/05/2026

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Table 1.1 Joint Reactions 4

1 Analysis Results

This chapter provides analysis results.

1.1 Point Results

Table 1.1 - Joint Reactions

Story	Label	Unique Name	Output Case	Case Type	FX tonf	FY tonf	FZ tonf	MX tonf-m	MY tonf-m	MZ tonf-m
Base	1	5	CIM1	Combination	0.0061	0.0161	0.1577	0	0	0
Base	1	5	CIM2	Combination	0.0084	0.0195	0.1816	0	0	0
Base	1	5	CIM3	Combination	0.0084	0.0195	0.1816	0	0	0
Base	2	6	CIM1	Combination	-0.0061	0.0161	0.1577	0	0	0
Base	2	6	CIM2	Combination	-0.0084	0.0195	0.1816	0	0	0
Base	2	6	CIM3	Combination	-0.0084	0.0195	0.1816	0	0	0
Base	3	7	CIM1	Combination	-0.0061	-0.0161	0.1577	0	0	0
Base	3	7	CIM2	Combination	-0.0084	-0.0195	0.1816	0	0	0
Base	3	7	CIM3	Combination	-0.0084	-0.0195	0.1816	0	0	0
Base	4	8	CIM1	Combination	0.0061	-0.0161	0.1577	0	0	0
Base	4	8	CIM2	Combination	0.0084	-0.0195	0.1816	0	0	0
Base	4	8	CIM3	Combination	0.0084	-0.0195	0.1816	0	0	0
Base	49	450	CIM1	Combination	0.0116	0.0106	0.2983	0	0	0
Base	49	450	CIM2	Combination	0.016	0.0131	0.3419	0	0	0
Base	49	450	CIM3	Combination	0.016	0.0131	0.3419	0	0	0
Base	52	453	CIM1	Combination	0.0118	0.0033	0.2992	0	0	0
Base	52	453	CIM2	Combination	0.0162	0.0043	0.3428	0	0	0
Base	52	453	CIM3	Combination	0.0162	0.0043	0.3428	0	0	0
Base	54	455	CIM1	Combination	0.0118	0.0019	0.3002	0	0	0
Base	54	455	CIM2	Combination	0.0162	0.0024	0.3442	0	0	0
Base	54	455	CIM3	Combination	0.0162	0.0024	0.3442	0	0	0
Base	57	457	CIM1	Combination	0.0118	0.0007	0.3009	0	0	0
Base	57	457	CIM2	Combination	0.0162	0.0009	0.3451	0	0	0
Base	57	457	CIM3	Combination	0.0162	0.0009	0.3451	0	0	0
Base	59	459	CIM1	Combination	0.0118	0.0003	0.3011	0	0	0
Base	59	459	CIM2	Combination	0.0162	0.0004	0.3454	0	0	0
Base	59	459	CIM3	Combination	0.0162	0.0004	0.3454	0	0	0
Base	61	461	CIM1	Combination	0.0118	0.0001	0.3012	0	0	0
Base	61	461	CIM2	Combination	0.0162	0.0002	0.3455	0	0	0
Base	61	461	CIM3	Combination	0.0162	0.0002	0.3455	0	0	0
Base	63	463	CIM1	Combination	0.0118	3.665E-05	0.3013	0	0	0
Base	63	463	CIM2	Combination	0.0162	4.614E-05	0.3455	0	0	0
Base	63	463	CIM3	Combination	0.0162	4.614E-05	0.3455	0	0	0
Base	65	465	CIM1	Combination	0.0118	-3.665E-05	0.3013	0	0	0
Base	65	465	CIM2	Combination	0.0162	-4.614E-05	0.3455	0	0	0
Base	65	465	CIM3	Combination	0.0162	-4.614E-05	0.3455	0	0	0
Base	67	467	CIM1	Combination	0.0118	-0.0001	0.3012	0	0	0
Base	67	467	CIM2	Combination	0.0162	-0.0002	0.3455	0	0	0
Base	67	467	CIM3	Combination	0.0162	-0.0002	0.3455	0	0	0
Base	69	469	CIM1	Combination	0.0118	-0.0003	0.3011	0	0	0
Base	69	469	CIM2	Combination	0.0162	-0.0004	0.3454	0	0	0
Base	69	469	CIM3	Combination	0.0162	-0.0004	0.3454	0	0	0
Base	71	471	CIM1	Combination	0.0118	-0.0007	0.3009	0	0	0
Base	71	471	CIM2	Combination	0.0162	-0.0009	0.3451	0	0	0
Base	71	471	CIM3	Combination	0.0162	-0.0009	0.3451	0	0	0

Table 1.1 - Joint Reactions (continued)

Story	Label	Unique Name	Output Case	Case Type	FX tonf	FY tonf	FZ tonf	MX tonf-m	MY tonf-m	MZ tonf-m
Base	73	473	CIM1	Combination	0.0118	-0.0019	0.3002	0	0	0
Base	73	473	CIM2	Combination	0.0162	-0.0024	0.3442	0	0	0
Base	73	473	CIM3	Combination	0.0162	-0.0024	0.3442	0	0	0
Base	75	475	CIM1	Combination	0.0118	-0.0033	0.2992	0	0	0
Base	75	475	CIM2	Combination	0.0162	-0.0043	0.3428	0	0	0
Base	75	475	CIM3	Combination	0.0162	-0.0043	0.3428	0	0	0
Base	77	477	CIM1	Combination	0.0116	-0.0106	0.2983	0	0	0
Base	77	477	CIM2	Combination	0.016	-0.0131	0.3419	0	0	0
Base	77	477	CIM3	Combination	0.016	-0.0131	0.3419	0	0	0
Base	80	524	CIM1	Combination	-0.0116	0.0106	0.2983	0	0	0
Base	80	524	CIM2	Combination	-0.016	0.0131	0.3419	0	0	0
Base	80	524	CIM3	Combination	-0.016	0.0131	0.3419	0	0	0
Base	83	527	CIM1	Combination	-0.0118	0.0033	0.2992	0	0	0
Base	83	527	CIM2	Combination	-0.0162	0.0043	0.3428	0	0	0
Base	83	527	CIM3	Combination	-0.0162	0.0043	0.3428	0	0	0
Base	85	529	CIM1	Combination	-0.0118	0.0019	0.3002	0	0	0
Base	85	529	CIM2	Combination	-0.0162	0.0024	0.3442	0	0	0
Base	85	529	CIM3	Combination	-0.0162	0.0024	0.3442	0	0	0
Base	87	531	CIM1	Combination	-0.0118	0.0007	0.3009	0	0	0
Base	87	531	CIM2	Combination	-0.0162	0.0009	0.3451	0	0	0
Base	87	531	CIM3	Combination	-0.0162	0.0009	0.3451	0	0	0
Base	89	533	CIM1	Combination	-0.0118	0.0003	0.3011	0	0	0
Base	89	533	CIM2	Combination	-0.0162	0.0004	0.3454	0	0	0
Base	89	533	CIM3	Combination	-0.0162	0.0004	0.3454	0	0	0
Base	91	535	CIM1	Combination	-0.0118	0.0001	0.3012	0	0	0
Base	91	535	CIM2	Combination	-0.0162	0.0002	0.3455	0	0	0
Base	91	535	CIM3	Combination	-0.0162	0.0002	0.3455	0	0	0
Base	93	537	CIM1	Combination	-0.0118	3.665E-05	0.3013	0	0	0
Base	93	537	CIM2	Combination	-0.0162	4.614E-05	0.3455	0	0	0
Base	93	537	CIM3	Combination	-0.0162	4.614E-05	0.3455	0	0	0
Base	95	539	CIM1	Combination	-0.0118	-3.665E-05	0.3013	0	0	0
Base	95	539	CIM2	Combination	-0.0162	-4.614E-05	0.3455	0	0	0
Base	95	539	CIM3	Combination	-0.0162	-4.614E-05	0.3455	0	0	0
Base	97	541	CIM1	Combination	-0.0118	-0.0001	0.3012	0	0	0
Base	97	541	CIM2	Combination	-0.0162	-0.0002	0.3455	0	0	0
Base	97	541	CIM3	Combination	-0.0162	-0.0002	0.3455	0	0	0
Base	99	543	CIM1	Combination	-0.0118	-0.0003	0.3011	0	0	0
Base	99	543	CIM2	Combination	-0.0162	-0.0004	0.3454	0	0	0
Base	99	543	CIM3	Combination	-0.0162	-0.0004	0.3454	0	0	0
Base	101	545	CIM1	Combination	-0.0118	-0.0007	0.3009	0	0	0
Base	101	545	CIM2	Combination	-0.0162	-0.0009	0.3451	0	0	0
Base	101	545	CIM3	Combination	-0.0162	-0.0009	0.3451	0	0	0
Base	103	547	CIM1	Combination	-0.0118	-0.0019	0.3002	0	0	0
Base	103	547	CIM2	Combination	-0.0162	-0.0024	0.3442	0	0	0
Base	103	547	CIM3	Combination	-0.0162	-0.0024	0.3442	0	0	0
Base	105	549	CIM1	Combination	-0.0118	-0.0033	0.2992	0	0	0
Base	105	549	CIM2	Combination	-0.0162	-0.0043	0.3428	0	0	0
Base	105	549	CIM3	Combination	-0.0162	-0.0043	0.3428	0	0	0
Base	107	551	CIM1	Combination	-0.0116	-0.0106	0.2983	0	0	0

Table 1.1 - Joint Reactions (continued)

Story	Label	Unique Name	Output Case	Case Type	FX tonf	FY tonf	FZ tonf	MX tonf-m	MY tonf-m	MZ tonf-m
Base	107	551	CIM2	Combination	-0.016	-0.0131	0.3419	0	0	0
Base	107	551	CIM3	Combination	-0.016	-0.0131	0.3419	0	0	0
Base	110	598	CIM1	Combination	0	-0.0003	0.0272	0	0	0
Base	110	598	CIM2	Combination	0	-0.0004	0.0236	0	0	0
Base	110	598	CIM3	Combination	0	-0.0004	0.0236	0	0	0
Base	111	599	CIM1	Combination	0	2.621E-05	0.0551	0	0	0
Base	111	599	CIM2	Combination	0	3.584E-05	0.0481	0	0	0
Base	111	599	CIM3	Combination	0	3.584E-05	0.0481	0	0	0
Base	112	600	CIM1	Combination	0	2.73E-05	0.0551	0	0	0
Base	112	600	CIM2	Combination	0	3.671E-05	0.0481	0	0	0
Base	112	600	CIM3	Combination	0	3.671E-05	0.0481	0	0	0
Base	113	601	CIM1	Combination	0	-2.999E-06	0.055	0	0	0
Base	113	601	CIM2	Combination	0	-4.217E-06	0.048	0	0	0
Base	113	601	CIM3	Combination	0	-4.217E-06	0.048	0	0	0
Base	114	602	CIM1	Combination	0	1.013E-06	0.055	0	0	0
Base	114	602	CIM2	Combination	0	1.309E-06	0.048	0	0	0
Base	114	602	CIM3	Combination	0	1.309E-06	0.048	0	0	0
Base	115	603	CIM1	Combination	0	0	0.055	0	0	0
Base	115	603	CIM2	Combination	0	0	0.048	0	0	0
Base	115	603	CIM3	Combination	0	0	0.048	0	0	0
Base	116	604	CIM1	Combination	0	0	0.055	0	0	0
Base	116	604	CIM2	Combination	0	0	0.0479	0	0	0
Base	116	604	CIM3	Combination	0	0	0.0479	0	0	0
Base	117	605	CIM1	Combination	0	0	0.055	0	0	0
Base	117	605	CIM2	Combination	0	0	0.0479	0	0	0
Base	117	605	CIM3	Combination	0	0	0.0479	0	0	0
Base	118	606	CIM1	Combination	0	0	0.055	0	0	0
Base	118	606	CIM2	Combination	0	0	0.0479	0	0	0
Base	118	606	CIM3	Combination	0	0	0.0479	0	0	0
Base	119	607	CIM1	Combination	0	0	0.055	0	0	0
Base	119	607	CIM2	Combination	0	0	0.0479	0	0	0
Base	119	607	CIM3	Combination	0	0	0.0479	0	0	0
Base	120	608	CIM1	Combination	0	0	0.055	0	0	0
Base	120	608	CIM2	Combination	0	0	0.048	0	0	0
Base	120	608	CIM3	Combination	0	0	0.048	0	0	0
Base	121	609	CIM1	Combination	0	-1.013E-06	0.055	0	0	0
Base	121	609	CIM2	Combination	0	-1.309E-06	0.048	0	0	0
Base	121	609	CIM3	Combination	0	-1.309E-06	0.048	0	0	0
Base	122	610	CIM1	Combination	0	2.999E-06	0.055	0	0	0
Base	122	610	CIM2	Combination	0	4.217E-06	0.048	0	0	0
Base	122	610	CIM3	Combination	0	4.217E-06	0.048	0	0	0
Base	123	611	CIM1	Combination	0	-2.73E-05	0.0551	0	0	0
Base	123	611	CIM2	Combination	0	-3.671E-05	0.0481	0	0	0
Base	123	611	CIM3	Combination	0	-3.671E-05	0.0481	0	0	0
Base	124	612	CIM1	Combination	0	-2.621E-05	0.0551	0	0	0
Base	124	612	CIM2	Combination	0	-3.584E-05	0.0481	0	0	0
Base	124	612	CIM3	Combination	0	-3.584E-05	0.0481	0	0	0
Base	125	613	CIM1	Combination	0	0.0003	0.0272	0	0	0
Base	125	613	CIM2	Combination	0	0.0004	0.0236	0	0	0

Table 1.1 - Joint Reactions (continued)

Story	Label	Unique Name	Output Case	Case Type	FX tonf	FY tonf	FZ tonf	MX tonf-m	MY tonf-m	MZ tonf-m
Base	125	613	CIM3	Combination	0	0.0004	0.0236	0	0	0