

Appendix (B)

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 Data

Name	Height mm	Elevation mm	Master Story	Similar To	Splice Story
Story20	3200	64800	Yes	None	No
Story19	3200	61600	No	Story20	No
Story18	3200	58400	No	Story20	No
Story17	3200	55200	No	Story20	No
Story16	3200	52000	No	Story20	No
Story15	3200	48800	No	Story20	No
Story14	3200	45600	No	Story20	No
Story13	3200	42400	No	Story20	No
Story12	3200	39200	No	Story20	No
Story11	3200	36000	No	Story20	No
Story10	3200	32800	No	Story20	No
Story9	3200	29600	No	Story20	No
Story8	3200	26400	No	Story20	No
Story7	3200	23200	No	Story20	No
Story6	3200	20000	No	Story20	No
Story5	3200	16800	No	Story20	No
Story4	3200	13600	No	Story20	No
Story3	3200	10400	No	Story20	No
Story2	3200	7200	No	Story20	No
Story1	4000	4000	No	Story20	No
Base	0	0	No	None	No

1.2 Grid Data

Table 1.2 - Grid Systems

Name	Type	Story Range	X Origin m	Y Origin m	Rotation deg	Bubble Size mm	Color
G1	Cartesian	Default	0	0	0	1250	ffa0a0a0

Table 1.3 - Grid Lines

Grid System	Grid Direction	Grid ID	Visible	Bubble Location	Ordinate m
G1	X	A	Yes	End	0
G1	X	B	Yes	End	4
G1	X	C	Yes	End	8.5
G1	X	D	Yes	End	12.5
G1	Y	1	Yes	Start	0
G1	Y	2	Yes	Start	4
G1	Y	3	Yes	Start	8
G1	Y	4	Yes	Start	12

1.3 Point Coordinates

Table 1.4 - Joint Coordinates Data

Label	X mm	Y mm	ΔZ Below mm
1	0	4000	0
2	0	8000	0
3	12500	4000	0
4	12500	8000	0
5	0	12000	0
6	4000	12000	0
7	8500	12000	0
8	12500	12000	0
9	0	0	0
10	4000	0	0
11	8500	0	0
12	12500	0	0
13	4000	4000	0
14	8500	4000	0
15	8500	8000	0
16	4000	8000	0

1.4 Line Connectivity

Table 1.5 - Column Connectivity Data

Column	I-End Point	J-End Point	I-End Story
C1	1	1	Below
C2	2	2	Below
C3	3	3	Below
C4	4	4	Below
C5	5	5	Below
C6	6	6	Below
C7	7	7	Below
C8	8	8	Below
C9	9	9	Below
C10	10	10	Below
C11	11	11	Below
C12	12	12	Below

Table 1.6 - Beam Connectivity Data

Beam	I-End Point	J-End Point	Curve Type
B5	5	2	None
B6	2	1	None
B7	1	9	None
B8	9	10	None
B9	10	11	None
B10	11	12	None
B11	12	3	None
B12	3	4	None
B13	4	8	None
B14	5	6	None
B15	6	7	None
B16	7	8	None

1.5 Area Connectivity

Table 1.7 - Floor Connectivity Data

Floor	Number of Edges	Edge Number	Point 1	Point 2	Curve Type
F1	4	1	9	12	None
		2	12	8	None
		3	8	5	None
		4	5	9	None

Table 1.8 - Wall Connectivity Data

Label	Number of Edges	Edge Number	Point 1	Point 2	Curve Type	Point 1 Story	Point 2 Story
W1	4	1	16	15	None	Below	Below
		2	15	15	None	Below	Same
		3	15	16	None	Same	Same
		4	16	16	None	Same	Below
W2	4	1	13	16	None	Below	Below
		2	16	16	None	Below	Same
		3	16	13	None	Same	Same
		4	13	13	None	Same	Below
W3	4	1	13	14	None	Below	Below
		2	14	14	None	Below	Same
		3	14	13	None	Same	Same
		4	13	13	None	Same	Below

Table 1.9 - Null Shell Connectivity Data

Label	Number of Edges	Edge Number	Point 1	Point 2	Curve Type	Point 1 Story	Point 2 Story
A1	4	1	13	14	None	Same	Same
		2	14	15	None	Same	Same
		3	15	16	None	Same	Same
		4	16	13	None	Same	Same

1.6 Mass

Table 1.10 - Mass Source

Include Elements	Include Added Mass	Include Loads	Lateral Only	Lump at Stories
Yes	Yes	No	Yes	Yes

Table 1.11 - Centers of Mass and Rigidity

Story	Diaphragm	Mass X kg	Mass Y kg	XCM m	YCM m	Cumulative X kg	Cumulative Y kg	XCCM m	YCCM m	XCR m	YCR m
Story20	D1	118058.66	118058.66	6.1604	6	118058.66	118058.66	6.1604	6		
Story19	D1	145664.42	145664.42	6.1048	6	263723.08	263723.08	6.1297	6		
Story18	D1	145664.42	145664.42	6.1048	6	409387.5	409387.5	6.1209	6		
Story17	D1	145664.42	145664.42	6.1048	6	555051.92	555051.92	6.1167	6		
Story16	D1	145664.42	145664.42	6.1048	6	700716.34	700716.34	6.1142	6		
Story15	D1	145664.42	145664.42	6.1048	6	846380.76	846380.76	6.1126	6		
Story14	D1	145664.42	145664.42	6.1048	6	992045.17	992045.17	6.1115	6		
Story13	D1	145664.42	145664.42	6.1048	6	1137709.59	1137709.59	6.1106	6		
Story12	D1	145664.42	145664.42	6.1048	6	1283374.01	1283374.01	6.11	6		
Story11	D1	145664.42	145664.42	6.1048	6	1429038.43	1429038.43	6.1094	6		
Story10	D1	145664.42	145664.42	6.1048	6	1574702.85	1574702.85	6.109	6		
Story9	D1	145664.42	145664.42	6.1048	6	1720367.27	1720367.27	6.1087	6		
Story8	D1	145664.42	145664.42	6.1048	6	1866031.69	1866031.69	6.1084	6		
Story7	D1	145664.42	145664.42	6.1048	6	2011696.1	2011696.1	6.1081	6		
Story6	D1	145664.42	145664.42	6.1048	6	2157360.52	2157360.52	6.1079	6		
Story5	D1	145664.42	145664.42	6.1048	6	2303024.94	2303024.94	6.1077	6		
Story4	D1	145664.42	145664.42	6.1048	6	2448689.36	2448689.36	6.1075	6		
Story3	D1	145664.42	145664.42	6.1048	6	2594353.78	2594353.78	6.1074	6		
Story2	D1	145664.42	145664.42	6.1048	6	2740018.2	2740018.2	6.1072	6		
Story1	D1	152565.86	152565.86	6.0941	6	2892584.05	2892584.05	6.1065	6		

Table 1.12 - Mass Summary by Diaphragm

Story	Diaphragm	Mass X kg	Mass Y kg	Mass Moment of Inertia kN-m-s ²	X Mass Center m	Y Mass Center m
Story20	D1	118058.66	118058.66	3771.6394	6.1604	6
Story19	D1	145664.42	145664.42	4562.4114	6.1048	6
Story18	D1	145664.42	145664.42	4562.4114	6.1048	6
Story17	D1	145664.42	145664.42	4562.4114	6.1048	6
Story16	D1	145664.42	145664.42	4562.4114	6.1048	6
Story15	D1	145664.42	145664.42	4562.4114	6.1048	6
Story14	D1	145664.42	145664.42	4562.4114	6.1048	6
Story13	D1	145664.42	145664.42	4562.4114	6.1048	6
Story12	D1	145664.42	145664.42	4562.4114	6.1048	6
Story11	D1	145664.42	145664.42	4562.4114	6.1048	6
Story10	D1	145664.42	145664.42	4562.4114	6.1048	6
Story9	D1	145664.42	145664.42	4562.4114	6.1048	6
Story8	D1	145664.42	145664.42	4562.4114	6.1048	6
Story7	D1	145664.42	145664.42	4562.4114	6.1048	6
Story6	D1	145664.42	145664.42	4562.4114	6.1048	6
Story5	D1	145664.42	145664.42	4562.4114	6.1048	6
Story4	D1	145664.42	145664.42	4562.4114	6.1048	6
Story3	D1	145664.42	145664.42	4562.4114	6.1048	6
Story2	D1	145664.42	145664.42	4562.4114	6.1048	6
Story1	D1	152565.86	152565.86	4759.9954	6.0941	6

Table 1.13 - Mass Summary by Story

Story	UX kg	UY kg	UZ kg
Story20	118058.66	118058.66	0
Story19	145664.42	145664.42	0
Story18	145664.42	145664.42	0
Story17	145664.42	145664.42	0
Story16	145664.42	145664.42	0
Story15	145664.42	145664.42	0
Story14	145664.42	145664.42	0
Story13	145664.42	145664.42	0
Story12	145664.42	145664.42	0
Story11	145664.42	145664.42	0
Story10	145664.42	145664.42	0
Story9	145664.42	145664.42	0
Story8	145664.42	145664.42	0
Story7	145664.42	145664.42	0
Story6	145664.42	145664.42	0
Story5	145664.42	145664.42	0
Story4	145664.42	145664.42	0
Story3	145664.42	145664.42	0
Story2	145664.42	145664.42	0
Story1	152565.86	152565.86	0
Base	34507.2	34507.2	0

2 Properties

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

2.1 Materials

Table 2.1 - Material Properties - Summary

Name	Type	E MPa	ν	Unit Weight kN/m ³	Design Strengths
A615Gr60	Rebar	199947.98	0.3	76.9729	Fy=413.69 MPa, Fu=620.53 MPa
CO2-25	Concrete	21153.2	0.2	24	Fc=27.58 MPa

2.2 Frame Sections

Table 2.2 - Frame Sections - Summary

Name	Material	Shape
B3	CO2-25	Concrete Rectangular
C3	CO2-25	Concrete Rectangular

2.3 Shell Sections

Table 2.3 - Shell Sections - Summary

Name	Design Type	Element Type	Material	Total Thickness mm
S3	Slab	Shell-Thin	CO2-25	220
W3	Wall	Shell-Thin	CO2-25	300

2.4 Reinforcement Sizes

Table 2.4 - Reinforcing Bar Sizes

Name	Diameter mm	Area mm ²
10	10	79
20	20	314

4 Loads

This chapter provides loading information as applied to the model.

4.1 Load Patterns

Table 4.1 - Load Patterns

Name	Type	Self Weight Multiplier	Auto Load
Dead	Dead	1	
Live	Live	0	
windx	Wind	0	ASCE 7-05

4.2 Auto Wind Loading

ASCE 7-05 Auto Wind Load Calculation

This calculation presents the automatically generated lateral wind loads for load pattern windx according to ASCE 7-05, as calculated by ETABS.

Exposure Parameters

Exposure From = Diaphragms

Exposure Category = B

Wind Direction = 0 degrees

Basic Wind Speed, V [ASCE 6.5.4]

V = 100 mph

Windward Coefficient, $C_{p,wind}$ [ASCE 6.5.11.2.1]

$C_{q,wind} = 0.8$

Leeward Coefficient, $C_{p,lee}$ [ASCE 6.5.11.2.1]

$C_{q,lee} = 0.5$

Wind Case = All Cases

Top Story = Story20

Bottom Story = Base

Include Parapet = Yes, Parapet Height = 1.5

Factors and Coefficients

Gradient Height, z_g [ASCE Table 6-2]

$z_g = 1200$

Emperical Exponent, α [ASCE Table 6-2]

$\alpha = 7$

Velocity Pressure Exposure Coefficient, K_z ;
[ASCE Table 6-3]

$$K_z = 2.01 \left(\frac{z}{z_g} \right)$$

for $15\text{ft} \leq z \leq z_g$

$$K_z = 2.01 \left(\frac{15}{z_g} \right)$$

for $z \leq 15\text{ft}$

Topographical Factor, K_{zt} [ASCE 6.5.7.2]

$K_{zt} = 1$

Directionality Factor, K_d [ASCE 6.5.4.4]

$K_d = 0.85$

Importance Factor, I [ASCE 6.5.5]

I = 1

Gust Effect Factor, G [ASCE 6.5.8]

G = 0.85

Lateral Loading

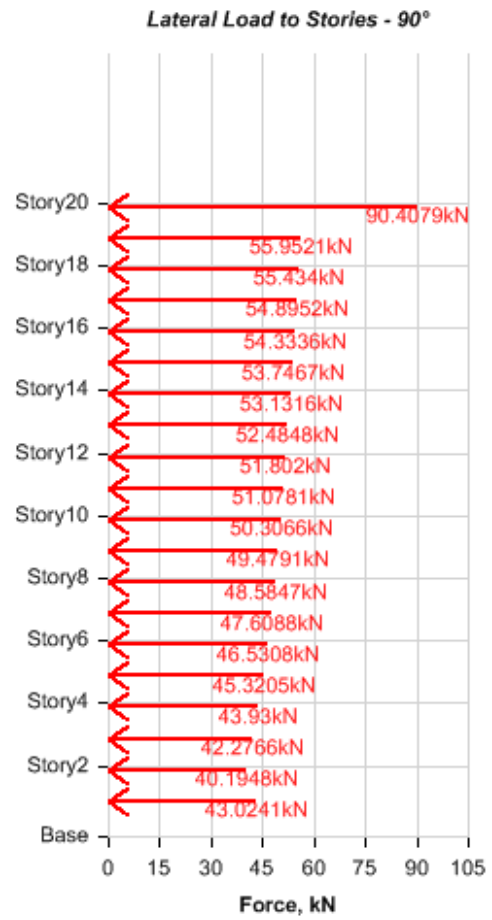
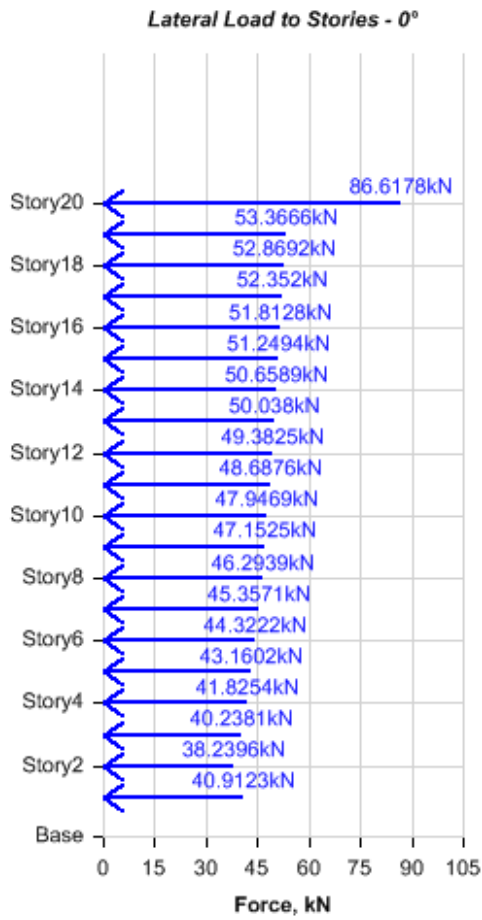
Velocity Pressure, q_z [ASCE 6.5.10 Eq. 6-15]

$$q_z = 0.00256 K_z K_{zt} K_d V^2 I$$

Design Wind Pressure, p [ASCE 6.5.12.2.1 Eq. 6-17]

$$p = q G C_{p,wind} + q_h (G C_{p,lee})$$

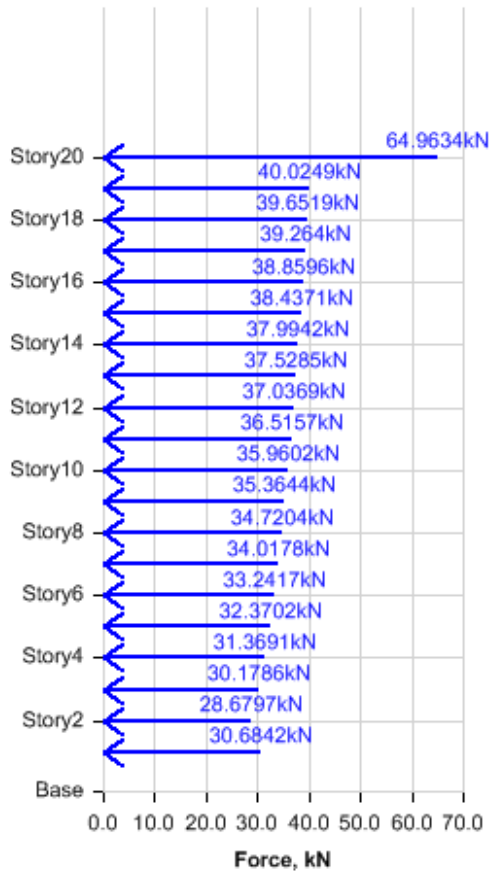
Applied Story Forces



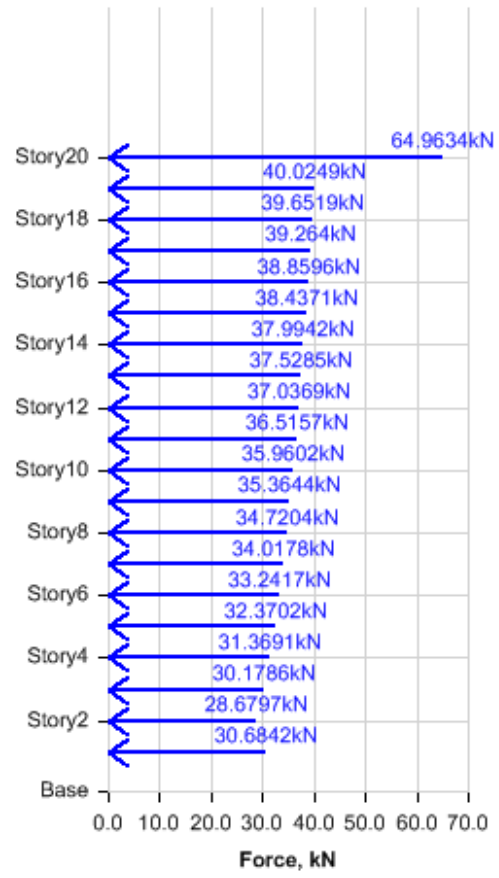
Story	Elevation	X-Dir	Y-Dir
	m	kN	kN
Story20	64.8	86.6178	0
Story19	61.6	53.3666	0
Story18	58.4	52.8692	0
Story17	55.2	52.352	0
Story16	52	51.8128	0
Story15	48.8	51.2494	0
Story14	45.6	50.6589	0
Story13	42.4	50.038	0
Story12	39.2	49.3825	0
Story11	36	48.6876	0
Story10	32.8	47.9469	0
Story9	29.6	47.1525	0
Story8	26.4	46.2939	0
Story7	23.2	45.3571	0
Story6	20	44.3222	0
Story5	16.8	43.1602	0
Story4	13.6	41.8254	0
Story3	10.4	40.2381	0
Story2	7.2	38.2396	0
Story1	4	40.9123	0
Base	0	0	0

Story	Elevation	X-Dir	Y-Dir
	m	kN	kN
Story20	64.8	0	90.4079
Story19	61.6	0	55.9521
Story18	58.4	0	55.434
Story17	55.2	0	54.8952
Story16	52	0	54.3336
Story15	48.8	0	53.7467
Story14	45.6	0	53.1316
Story13	42.4	0	52.4848
Story12	39.2	0	51.802
Story11	36	0	51.0781
Story10	32.8	0	50.3066
Story9	29.6	0	49.4791
Story8	26.4	0	48.5847
Story7	23.2	0	47.6088
Story6	20	0	46.5308
Story5	16.8	0	45.3205
Story4	13.6	0	43.93
Story3	10.4	0	42.2766
Story2	7.2	0	40.1948
Story1	4	0	43.0241
Base	0	0	0

Lateral Load to Stories - 0°



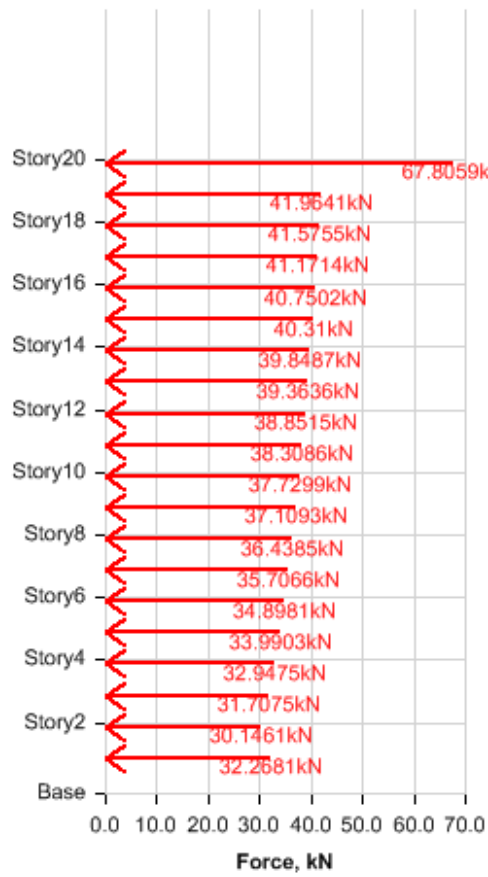
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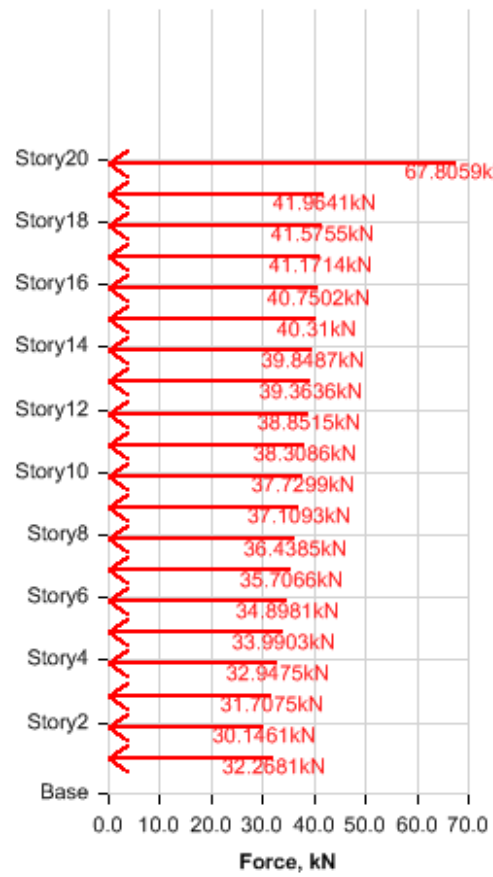
Story	Elevation	X-Dir	Y-Dir
	m	kN	kN
Story20	64.8	64.9634	0
Story19	61.6	40.0249	0
Story18	58.4	39.6519	0
Story17	55.2	39.264	0
Story16	52	38.8596	0
Story15	48.8	38.4371	0
Story14	45.6	37.9942	0
Story13	42.4	37.5285	0
Story12	39.2	37.0369	0
Story11	36	36.5157	0
Story10	32.8	35.9602	0
Story9	29.6	35.3644	0
Story8	26.4	34.7204	0
Story7	23.2	34.0178	0
Story6	20	33.2417	0
Story5	16.8	32.3702	0
Story4	13.6	31.3691	0
Story3	10.4	30.1786	0
Story2	7.2	28.6797	0
Story1	4	30.6842	0
Base	0	0	0

Story	Elevation	X-Dir	Y-Dir
	m	kN	kN
Story20	64.8	64.9634	0
Story19	61.6	40.0249	0
Story18	58.4	39.6519	0
Story17	55.2	39.264	0
Story16	52	38.8596	0
Story15	48.8	38.4371	0
Story14	45.6	37.9942	0
Story13	42.4	37.5285	0
Story12	39.2	37.0369	0
Story11	36	36.5157	0
Story10	32.8	35.9602	0
Story9	29.6	35.3644	0
Story8	26.4	34.7204	0
Story7	23.2	34.0178	0
Story6	20	33.2417	0
Story5	16.8	32.3702	0
Story4	13.6	31.3691	0
Story3	10.4	30.1786	0
Story2	7.2	28.6797	0
Story1	4	30.6842	0
Base	0	0	0

Lateral Load to Stories - 90°



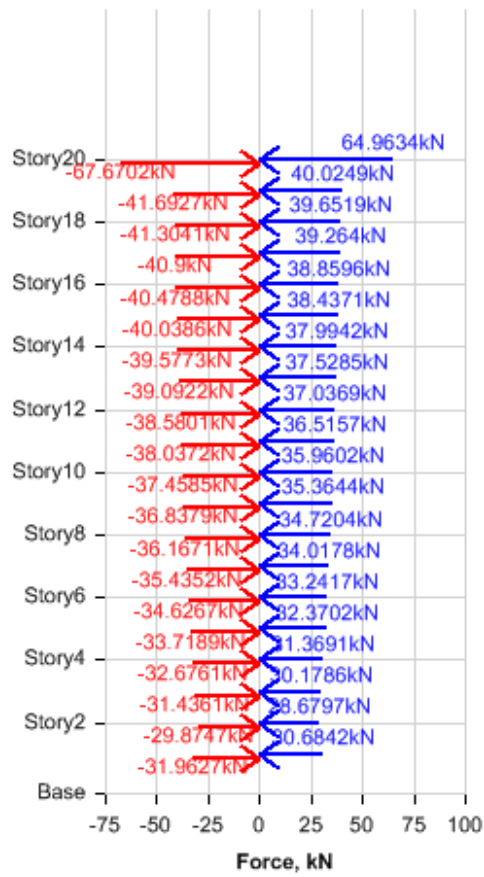
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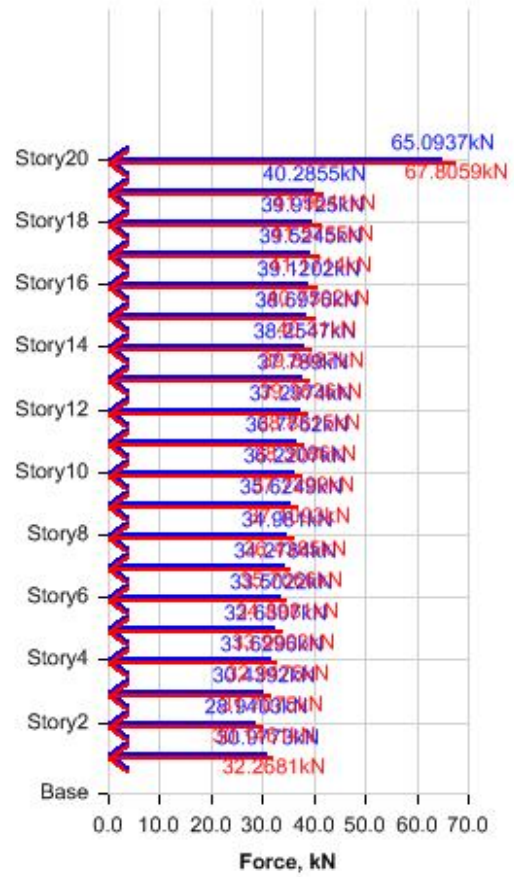
Story	Elevation	X-Dir	Y-Dir
	m	kN	kN
Story20	64.8	0	67.8059
Story19	61.6	0	41.9641
Story18	58.4	0	41.5755
Story17	55.2	0	41.1714
Story16	52	0	40.7502
Story15	48.8	0	40.31
Story14	45.6	0	39.8487
Story13	42.4	0	39.3636
Story12	39.2	0	38.8515
Story11	36	0	38.3086
Story10	32.8	0	37.7299
Story9	29.6	0	37.1093
Story8	26.4	0	36.4385
Story7	23.2	0	35.7066
Story6	20	0	34.8981
Story5	16.8	0	33.9903
Story4	13.6	0	32.9475
Story3	10.4	0	31.7075
Story2	7.2	0	30.1461
Story1	4	0	32.2681
Base	0	0	0

Story	Elevation	X-Dir	Y-Dir
	m	kN	kN
Story20	64.8	0	67.8059
Story19	61.6	0	41.9641
Story18	58.4	0	41.5755
Story17	55.2	0	41.1714
Story16	52	0	40.7502
Story15	48.8	0	40.31
Story14	45.6	0	39.8487
Story13	42.4	0	39.3636
Story12	39.2	0	38.8515
Story11	36	0	38.3086
Story10	32.8	0	37.7299
Story9	29.6	0	37.1093
Story8	26.4	0	36.4385
Story7	23.2	0	35.7066
Story6	20	0	34.8981
Story5	16.8	0	33.9903
Story4	13.6	0	32.9475
Story3	10.4	0	31.7075
Story2	7.2	0	30.1461
Story1	4	0	32.2681
Base	0	0	0

Lateral Load to Stories - 0°



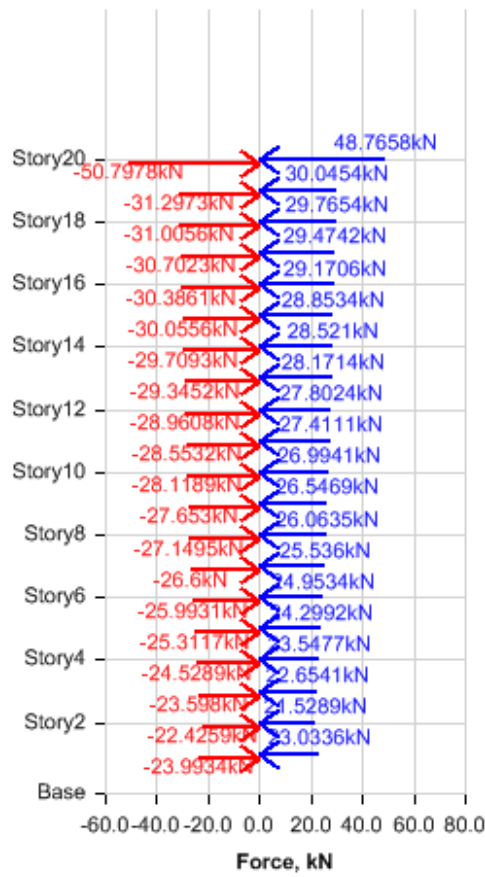
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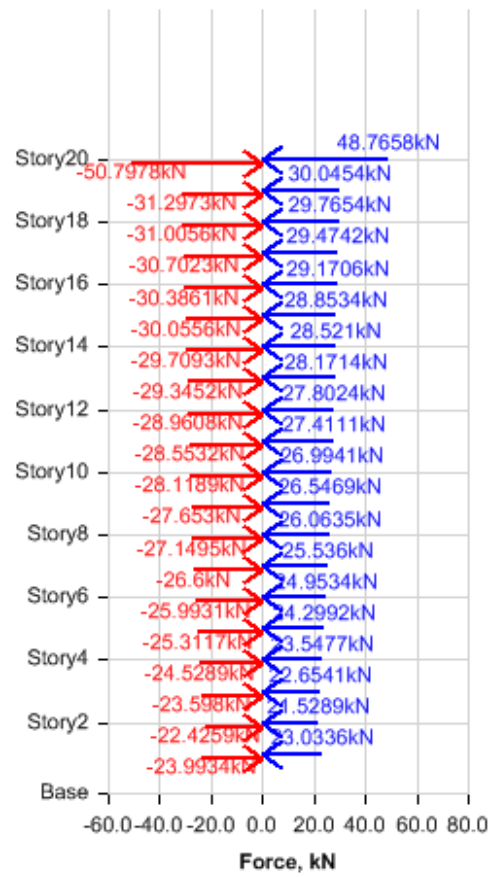
Story	Elevation	X-Dir	Y-Dir
	m	kN	kN
Story20	64.8	64.9634	-67.6702
Story19	61.6	40.0249	-41.6927
Story18	58.4	39.6519	-41.3041
Story17	55.2	39.264	-40.9
Story16	52	38.8596	-40.4788
Story15	48.8	38.4371	-40.0386
Story14	45.6	37.9942	-39.5773
Story13	42.4	37.5285	-39.0922
Story12	39.2	37.0369	-38.5801
Story11	36	36.5157	-38.0372
Story10	32.8	35.9602	-37.4585
Story9	29.6	35.3644	-36.8379
Story8	26.4	34.7204	-36.1671
Story7	23.2	34.0178	-35.4352
Story6	20	33.2417	-34.6267
Story5	16.8	32.3702	-33.7189
Story4	13.6	31.3691	-32.6761
Story3	10.4	30.1786	-31.4361
Story2	7.2	28.6797	-29.8747
Story1	4	30.6842	-31.9627
Base	0	0	0

Story	Elevation	X-Dir	Y-Dir
	m	kN	kN
Story20	64.8	65.0937	67.8059
Story19	61.6	40.2855	41.9641
Story18	58.4	39.9125	41.5755
Story17	55.2	39.5245	41.1714
Story16	52	39.1202	40.7502
Story15	48.8	38.6976	40.31
Story14	45.6	38.2547	39.8487
Story13	42.4	37.789	39.3636
Story12	39.2	37.2974	38.8515
Story11	36	36.7762	38.3086
Story10	32.8	36.2207	37.7299
Story9	29.6	35.6249	37.1093
Story8	26.4	34.981	36.4385
Story7	23.2	34.2784	35.7066
Story6	20	33.5022	34.8981
Story5	16.8	32.6307	33.9903
Story4	13.6	31.6296	32.9475
Story3	10.4	30.4392	31.7075
Story2	7.2	28.9403	30.1461
Story1	4	30.9773	32.2681
Base	0	0	0

Lateral Load to Stories - 0°

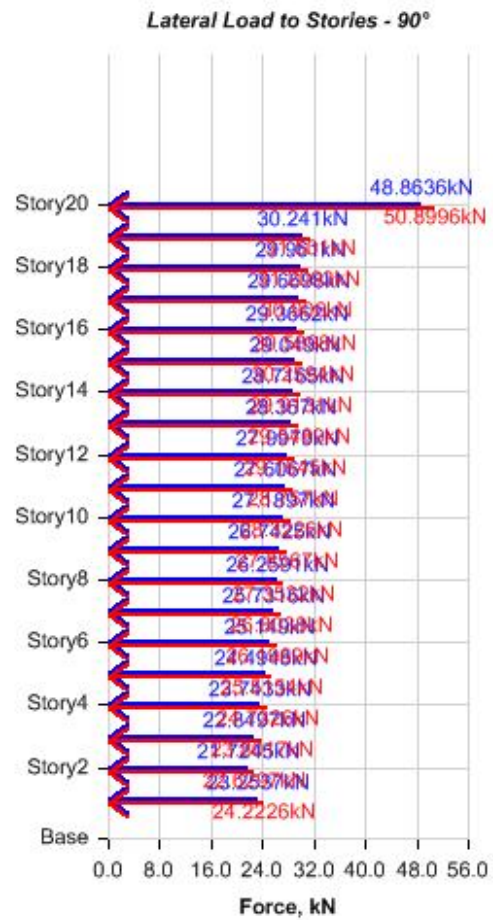
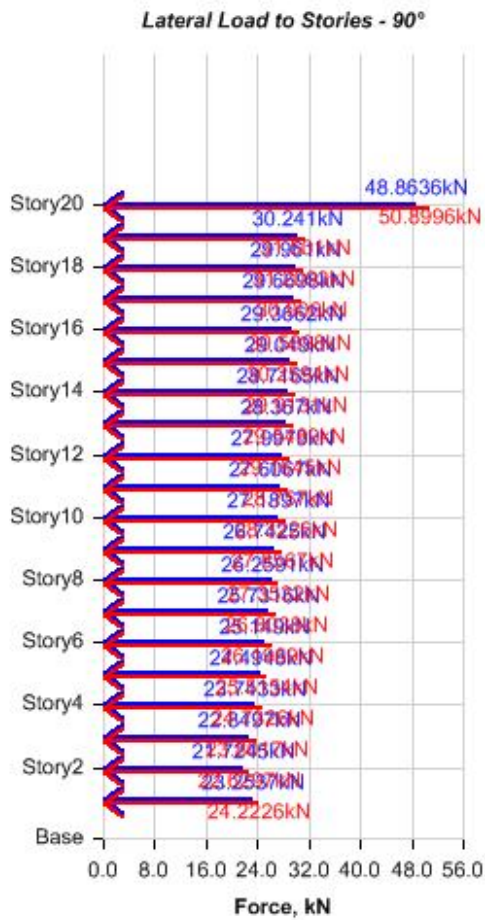


Lateral Load to Stories - 0°



Story	Elevation	X-Dir	Y-Dir
	m	kN	kN
Story20	64.8	48.7658	-50.7978
Story19	61.6	30.0454	-31.2973
Story18	58.4	29.7654	-31.0056
Story17	55.2	29.4742	-30.7023
Story16	52	29.1706	-30.3861
Story15	48.8	28.8534	-30.0556
Story14	45.6	28.521	-29.7093
Story13	42.4	28.1714	-29.3452
Story12	39.2	27.8024	-28.9608
Story11	36	27.4111	-28.5532
Story10	32.8	26.9941	-28.1189
Story9	29.6	26.5469	-27.653
Story8	26.4	26.0635	-27.1495
Story7	23.2	25.536	-26.6
Story6	20	24.9534	-25.9931
Story5	16.8	24.2992	-25.3117
Story4	13.6	23.5477	-24.5289
Story3	10.4	22.6541	-23.598
Story2	7.2	21.5289	-22.4259
Story1	4	23.0336	-23.9934
Base	0	0	0

Story	Elevation	X-Dir	Y-Dir
	m	kN	kN
Story20	64.8	48.7658	-50.7978
Story19	61.6	30.0454	-31.2973
Story18	58.4	29.7654	-31.0056
Story17	55.2	29.4742	-30.7023
Story16	52	29.1706	-30.3861
Story15	48.8	28.8534	-30.0556
Story14	45.6	28.521	-29.7093
Story13	42.4	28.1714	-29.3452
Story12	39.2	27.8024	-28.9608
Story11	36	27.4111	-28.5532
Story10	32.8	26.9941	-28.1189
Story9	29.6	26.5469	-27.653
Story8	26.4	26.0635	-27.1495
Story7	23.2	25.536	-26.6
Story6	20	24.9534	-25.9931
Story5	16.8	24.2992	-25.3117
Story4	13.6	23.5477	-24.5289
Story3	10.4	22.6541	-23.598
Story2	7.2	21.5289	-22.4259
Story1	4	23.0336	-23.9934
Base	0	0	0



Story	Elevation	X-Dir	Y-Dir
	m	kN	kN
Story20	64.8	48.8636	50.8996
Story19	61.6	30.241	31.501
Story18	58.4	29.961	31.2093
Story17	55.2	29.6698	30.906
Story16	52	29.3662	30.5898
Story15	48.8	29.049	30.2594
Story14	45.6	28.7165	29.9131
Story13	42.4	28.367	29.5489
Story12	39.2	27.9979	29.1645
Story11	36	27.6067	28.757
Story10	32.8	27.1897	28.3226
Story9	29.6	26.7425	27.8567
Story8	26.4	26.2591	27.3532
Story7	23.2	25.7316	26.8038
Story6	20	25.149	26.1969
Story5	16.8	24.4948	25.5154
Story4	13.6	23.7433	24.7326
Story3	10.4	22.8497	23.8017
Story2	7.2	21.7245	22.6297
Story1	4	23.2537	24.2226
Base	0	0	0

Story	Elevation	X-Dir	Y-Dir
	m	kN	kN
Story20	64.8	48.8636	50.8996
Story19	61.6	30.241	31.501
Story18	58.4	29.961	31.2093
Story17	55.2	29.6698	30.906
Story16	52	29.3662	30.5898
Story15	48.8	29.049	30.2594
Story14	45.6	28.7165	29.9131
Story13	42.4	28.367	29.5489
Story12	39.2	27.9979	29.1645
Story11	36	27.6067	28.757
Story10	32.8	27.1897	28.3226
Story9	29.6	26.7425	27.8567
Story8	26.4	26.2591	27.3532
Story7	23.2	25.7316	26.8038
Story6	20	25.149	26.1969
Story5	16.8	24.4948	25.5154
Story4	13.6	23.7433	24.7326
Story3	10.4	22.8497	23.8017
Story2	7.2	21.7245	22.6297
Story1	4	23.2537	24.2226
Base	0	0	0

Table 4.11 - Story Forces

Story	Load Case/Combo	Location	P kN	VX kN	VY kN	T kN-m	MX kN-m	MY kN-m
Story20	Comb1	Top	2196.096	-0.333	0	1.9982	13176.5758	-13725.5997
Story20	Comb1	Bottom	2954.112	-0.333	0	1.9982	17724.6718	-18176.5464
Story19	Comb1	Top	5150.208	-0.7347	0	4.4085	30901.2479	-31902.1465
Story19	Comb1	Bottom	5908.224	-0.7347	0	4.4085	35449.3439	-36357.3259
Story18	Comb1	Top	8104.32	-1.1263	0	6.7577	48625.9199	-50082.9258
Story18	Comb1	Bottom	8862.336	-1.1263	0	6.7577	53174.0159	-54542.2313
Story17	Comb1	Top	11058.432	-1.5068	0	9.0407	66350.5919	-68267.8312
Story17	Comb1	Bottom	11816.448	-1.5068	0	9.0407	70898.6879	-72731.1373
Story16	Comb1	Top	14012.544	-1.8754	0	11.2521	84075.264	-86456.737
Story16	Comb1	Bottom	14770.56	-1.8754	0	11.2521	88623.36	-90923.8781
Story15	Comb1	Top	16966.656	-2.2311	0	13.3864	101799.936	-104649
Story15	Comb1	Bottom	17724.672	-2.2311	0	13.3864	106348.032	-109120
Story14	Comb1	Top	19920.768	-2.573	0	15.4377	119524.608	-122846
Story14	Comb1	Bottom	20678.784	-2.573	0	15.4377	124072.704	-127320
Story13	Comb1	Top	22874.88	-2.9	0	17.4001	137249.2801	-141046
Story13	Comb1	Bottom	23632.896	-2.9	0	17.4001	141797.3761	-145523
Story12	Comb1	Top	25828.992	-3.2112	0	19.2672	154973.9521	-159248
Story12	Comb1	Bottom	26587.008	-3.2112	0	19.2672	159522.0481	-163729
Story11	Comb1	Top	28783.104	-3.5054	0	21.0324	172698.6241	-177454
Story11	Comb1	Bottom	29541.12	-3.5054	0	21.0324	177246.7201	-181937
Story10	Comb1	Top	31737.216	-3.7815	0	22.6888	190423.2961	-195662
Story10	Comb1	Bottom	32495.232	-3.7815	0	22.6888	194971.3921	-200147
Story9	Comb1	Top	34691.328	-4.0382	0	24.2291	208147.9681	-213872
Story9	Comb1	Bottom	35449.344	-4.0382	0	24.2291	212696.0641	-218358
Story8	Comb1	Top	37645.44	-4.2743	0	25.6455	225872.6401	-232084
Story8	Comb1	Bottom	38403.456	-4.2743	0	25.6455	230420.7361	-236570
Story7	Comb1	Top	40599.552	-4.4883	0	26.9298	243597.3121	-250296
Story7	Comb1	Bottom	41357.568	-4.4883	0	26.9298	248145.4081	-254783
Story6	Comb1	Top	43553.664	-4.6788	0	28.0729	261321.9841	-268508
Story6	Comb1	Bottom	44311.68	-4.6788	0	28.0729	265870.0801	-272995
Story5	Comb1	Top	46507.776	-4.8442	0	29.0653	279046.656	-286721
Story5	Comb1	Bottom	47265.792	-4.8442	0	29.0653	283594.752	-291206
Story4	Comb1	Top	49461.888	-4.9828	0	29.8966	296771.3279	-304931
Story4	Comb1	Bottom	50219.904	-4.9828	0	29.8966	301319.4239	-309414
Story3	Comb1	Top	52416	-5.0925	0	30.5553	314495.9999	-323140
Story3	Comb1	Bottom	53174.016	-5.0925	0	30.5553	319044.0959	-327619
Story2	Comb1	Top	55370.112	-5.1715	0	31.029	332220.6718	-341345
Story2	Comb1	Bottom	56128.128	-5.1715	0	31.029	336768.7678	-345820
Story1	Comb1	Top	58324.2239	-5.2199	0	31.3193	349945.3437	-359546
Story1	Comb1	Bottom	59271.7439	-5.2199	0	31.3193	355630.4637	-365131
Story20	Comb2	Top	1885.44	-0.288	0	1.7282	11312.6398	-11783.9997
Story20	Comb2	Bottom	2426.88	-0.288	0	1.7282	14561.2798	-14963.4499
Story19	Comb2	Top	4312.32	-0.6355	0	3.8128	25873.9199	-26747.45
Story19	Comb2	Bottom	4853.76	-0.6355	0	3.8128	29122.5599	-29930.1587
Story18	Comb2	Top	6739.2	-0.9741	0	5.8446	40435.1999	-41714.1586
Story18	Comb2	Bottom	7280.64	-0.9741	0	5.8446	43683.8399	-44900.0437
Story17	Comb2	Top	9166.08	-1.3032	0	7.8192	54996.4799	-56684.0435
Story17	Comb2	Bottom	9707.52	-1.3032	0	7.8192	58245.1199	-59873.0087
Story16	Comb2	Top	11592.96	-1.622	0	9.732	69557.76	-71657.0085
Story16	Comb2	Bottom	12134.4	-1.622	0	9.732	72806.4	-74848.928

Story	Load Case/Combo	Location	P kN	VX kN	VY kN	T kN-m	MX kN-m	MY kN-m
Story15	Comb2	Top	14019.84	-1.9297	0	11.5781	84119.04	-86632.9278
Story15	Comb2	Bottom	14561.28	-1.9297	0	11.5781	87367.68	-89827.6489
Story14	Comb2	Top	16446.72	-2.2254	0	13.3525	98680.32	-101612
Story14	Comb2	Bottom	16988.16	-2.2254	0	13.3525	101928.96	-104809
Story13	Comb2	Top	18873.6	-2.5084	0	15.0502	113241.6	-116593
Story13	Comb2	Bottom	19415.04	-2.5084	0	15.0502	116490.24	-119793
Story12	Comb2	Top	21300.48	-2.7776	0	16.6655	127802.8801	-131577
Story12	Comb2	Bottom	21841.92	-2.7776	0	16.6655	131051.5201	-134779
Story11	Comb2	Top	23727.36	-3.0321	0	18.1928	142364.1601	-146563
Story11	Comb2	Bottom	24268.8	-3.0321	0	18.1928	145612.8001	-149766
Story10	Comb2	Top	26154.24	-3.271	0	19.6262	156925.4401	-161550
Story10	Comb2	Bottom	26695.68	-3.271	0	19.6262	160174.0801	-164756
Story9	Comb2	Top	28581.12	-3.4932	0	20.9592	171486.7201	-176540
Story9	Comb2	Bottom	29122.56	-3.4932	0	20.9592	174735.3601	-179746
Story8	Comb2	Top	31008	-3.6975	0	22.1851	186048.0001	-191530
Story8	Comb2	Bottom	31549.44	-3.6975	0	22.1851	189296.6401	-194737
Story7	Comb2	Top	33434.88	-3.8828	0	23.2967	200609.2801	-206521
Story7	Comb2	Bottom	33976.32	-3.8828	0	23.2967	203857.9201	-209729
Story6	Comb2	Top	35861.76	-4.0477	0	24.2862	215170.56	-221513
Story6	Comb2	Bottom	36403.2	-4.0477	0	24.2862	218419.2	-224720
Story5	Comb2	Top	38288.64	-4.1909	0	25.1452	229731.84	-236504
Story5	Comb2	Bottom	38830.08	-4.1909	0	25.1452	232980.48	-239711
Story4	Comb2	Top	40715.52	-4.3108	0	25.8647	244293.1199	-251495
Story4	Comb2	Bottom	41256.96	-4.3108	0	25.8647	247541.7599	-254699
Story3	Comb2	Top	43142.4	-4.4058	0	26.4346	258854.3999	-266483
Story3	Comb2	Bottom	43683.84	-4.4058	0	26.4346	262103.0399	-269686
Story2	Comb2	Top	45569.28	-4.474	0	26.844	273415.6798	-281470
Story2	Comb2	Bottom	46110.72	-4.474	0	26.844	276664.3198	-284669
Story1	Comb2	Top	47996.16	-4.5157	0	27.0942	287976.9598	-296453
Story1	Comb2	Bottom	48672.96	-4.5157	0	27.0942	292037.7598	-300446
Story20	Comb3 Max	Top	1568.64	-0.2374	82.0026	987.4281	9411.8401	-9803.9996
Story20	Comb3 Max	Bottom	2110.08	-0.2374	82.0026	987.4447	13011.0736	-12982.5122
Story19	Comb3 Max	Top	3678.72	-0.5236	133.0249	1603.3292	22422.9136	-22786.5123
Story19	Comb3 Max	Bottom	4220.16	-0.5236	133.0249	1603.3289	26241.2554	-25968.8589
Story18	Comb3 Max	Top	5788.8	-0.8026	183.5882	2213.6971	35653.0954	-35772.8588
Story18	Comb3 Max	Bottom	6330.24	-0.8026	183.5882	2213.6827	39688.5877	-38958.479
Story17	Comb3 Max	Top	7898.88	-1.0737	233.6728	2818.2933	49100.4277	-48762.4789
Story17	Comb3 Max	Bottom	8440.32	-1.0737	233.6728	2818.2591	53351.0282	-51950.9323
Story16	Comb3 Max	Top	10008.96	-1.3362	283.2564	3416.8387	62762.8683	-61754.9321
Story16	Comb3 Max	Bottom	10550.4	-1.3362	283.2564	3416.7842	67226.4397	-64945.954
Story15	Comb3 Max	Top	12119.04	-1.5895	332.3142	4009.0268	76638.2798	-74749.9538
Story15	Comb3 Max	Bottom	12660.48	-1.5895	332.3142	4008.9501	81312.5785	-77943.623
Story14	Comb3 Max	Top	14229.12	-1.8329	380.8182	4594.5123	90724.4187	-87747.6227
Story14	Comb3 Max	Bottom	14770.56	-1.8329	380.8182	4594.4128	95607.0823	-90943.7512
Story13	Comb3 Max	Top	16339.2	-2.0656	428.7371	5172.9073	105018.9226	-100748
Story13	Comb3 Max	Bottom	16880.64	-2.0656	428.7371	5172.7838	110107.4544	-103946
Story12	Comb3 Max	Top	18449.28	-2.287	476.0352	5743.7709	119519.2948	-113750
Story12	Comb3 Max	Bottom	18990.72	-2.287	476.0352	5743.6224	124811.0464	-116950
Story11	Comb3 Max	Top	20559.36	-2.4962	522.6719	6306.5989	134222.8869	-126754
Story11	Comb3 Max	Bottom	21100.8	-2.4962	522.6719	6306.4234	139715.0357	-129956
Story10	Comb3 Max	Top	22669.44	-2.6924	568.5998	6860.8068	149126.8762	-139760
Story10	Comb3 Max	Bottom	23210.88	-2.6924	568.5998	6860.6023	154816.3981	-142964
Story9	Comb3 Max	Top	24779.52	-2.8748	613.7637	7405.7097	164228.2387	-152768
Story9	Comb3 Max	Bottom	25320.96	-2.8748	613.7637	7405.4728	170111.8734	-155972

Story	Load Case/Combo	Location	P kN	VX kN	VY kN	T kN-m	MX kN-m	MY kN-m
Story8	Comb3 Max	Top	26889.6	-3.0424	658.0974	7940.4905	179523.714	-165776
Story8	Comb3 Max	Bottom	27431.04	-3.0424	658.0974	7940.217	185597.9196	-168980
Story7	Comb3 Max	Top	28999.68	-3.1942	701.5207	8464.1558	195009.7601	-178784
Story7	Comb3 Max	Bottom	29541.12	-3.1942	701.5207	8463.8403	201270.6513	-181986
Story6	Comb3 Max	Top	31109.76	-3.3293	743.9331	8975.4655	210682.4917	-191790
Story6	Comb3 Max	Bottom	31651.2	-3.3293	743.9331	8975.1023	217125.7548	-194991
Story5	Comb3 Max	Top	33219.84	-3.4465	785.2047	9472.8206	226537.5951	-204795
Story5	Comb3 Max	Bottom	33761.28	-3.4465	785.2047	9472.4049	233158.3617	-207993
Story4	Comb3 Max	Top	35329.92	-3.5445	825.1594	9954.0613	242570.2019	-217797
Story4	Comb3 Max	Bottom	35871.36	-3.5445	825.1594	9953.5929	249362.8517	-220993
Story3	Comb3 Max	Top	37440.0001	-3.6222	863.5416	10416.068	258774.6916	-230797
Story3	Comb3 Max	Bottom	37981.4401	-3.6222	863.5416	10415.5599	265732.5127	-233989
Story2	Comb3 Max	Top	39550.0804	-3.678	899.9387	10853.8357	275144.3522	-243793
Story2	Comb3 Max	Bottom	40091.5204	-3.678	899.9387	10853.3314	282258.8702	-246982
Story1	Comb3 Max	Top	41660.1604	-3.7121	938.7056	11319.66	291670.7081	-256786
Story1	Comb3 Max	Bottom	42336.9604	-3.7121	938.7056	11319.2533	300772.5727	-260769
Story20	Comb3 Min	Top	1568.64	-105.1579	-109.5599	-685.1322	9411.8398	-9803.9999
Story20	Comb3 Min	Bottom	2110.08	-105.1579	-109.5599	-685.1327	12397.4962	-13318.9448
Story19	Comb3 Min	Top	3678.72	-170.6922	-178.0318	-1113.5913	21809.3363	-23122.9448
Story19	Comb3 Min	Bottom	4220.16	-170.6922	-178.0318	-1113.5913	24632.2256	-26849.654
Story18	Comb3 Min	Top	5788.8	-235.6212	-245.8917	-1538.387	34044.0657	-36653.6538
Story18	Comb3 Min	Bottom	6330.24	-235.6212	-245.8917	-1538.3867	36705.3513	-40590.1546
Story17	Comb3 Min	Top	7898.88	-299.9186	-313.1132	-1959.3598	46117.1914	-50394.1545
Story17	Comb3 Min	Bottom	8440.32	-299.9186	-313.1132	-1959.3592	48618.4123	-54538.3713
Story16	Comb3 Min	Top	10008.96	-363.5549	-379.6668	-2376.3266	58030.2523	-64342.3711
Story16	Comb3 Min	Bottom	10550.4	-363.5549	-379.6668	-2376.3258	60372.9671	-68692.108
Story15	Comb3 Min	Top	12119.04	-426.4974	-445.5192	-2789.0822	69784.8072	-78496.1078
Story15	Comb3 Min	Bottom	12660.48	-426.4974	-445.5192	-2789.0813	71970.6555	-83049.0399
Story14	Comb3 Min	Top	14229.12	-488.7089	-510.6333	-3197.3959	81382.4955	-92853.0397
Story14	Comb3 Min	Bottom	14770.56	-488.7089	-510.6333	-3197.3948	83413.1988	-97606.6972
Story13	Comb3 Min	Top	16339.2	-550.1478	-574.9671	-3601.0071	92825.0387	-107411
Story13	Comb3 Min	Bottom	16880.64	-550.1478	-574.9671	-3601.0059	94702.4127	-112362
Story12	Comb3 Min	Top	18449.28	-610.7668	-638.4732	-3999.6191	104114.2525	-122166
Story12	Comb3 Min	Bottom	18990.72	-610.7668	-638.4732	-3999.6179	105840.2199	-127313
Story11	Comb3 Min	Top	20559.3599	-670.5118	-701.0971	-4392.8914	115252.0596	-137117
Story11	Comb3 Min	Bottom	21100.7999	-670.5118	-701.0971	-4392.8902	116828.6658	-142457
Story10	Comb3 Min	Top	22669.4399	-729.3205	-762.7759	-4780.4283	126240.5054	-152261
Story10	Comb3 Min	Bottom	23210.8799	-729.3205	-762.7759	-4780.4273	127669.9381	-157789
Story9	Comb3 Min	Top	24779.5198	-787.1198	-823.4359	-5161.7635	137081.7775	-167593
Story9	Comb3 Min	Bottom	25320.9598	-787.1198	-823.4359	-5161.7629	138366.3918	-173307
Story8	Comb3 Min	Top	26889.5998	-843.8233	-882.9889	-5536.3382	147778.2312	-183111
Story8	Comb3 Min	Bottom	27431.0398	-843.8233	-882.9889	-5536.338	148920.5834	-189006
Story7	Comb3 Min	Top	28999.6797	-899.3266	-941.3279	-5903.4678	158332.4226	-198810
Story7	Comb3 Min	Bottom	29541.1197	-899.3266	-941.3279	-5903.4682	159335.3173	-204883
Story6	Comb3 Min	Top	31109.7597	-953.5	-998.3189	-6262.2913	168747.1566	-214687
Story6	Comb3 Min	Bottom	31651.1997	-953.5	-998.3189	-6262.2925	169613.7158	-220933
Story5	Comb3 Min	Top	33219.8397	-1006.1779	-1053.7888	-6611.6872	179025.5553	-230737
Story5	Comb3 Min	Bottom	33761.2797	-1006.1779	-1053.7888	-6611.6893	179759.3277	-237149
Story4	Comb3 Min	Top	35329.9198	-1057.1379	-1107.5027	-6950.1256	189171.1676	-246953
Story4	Comb3 Min	Bottom	35871.3598	-1057.1379	-1107.5027	-6950.1285	189776.3113	-253527
Story3	Comb3 Min	Top	37440	-1106.0601	-1159.1193	-7275.3739	199188.1519	-263331
Story3	Comb3 Min	Bottom	37981.44	-1106.0601	-1159.1193	-7275.3772	199669.7712	-270059
Story2	Comb3 Min	Top	39550.0799	-1152.4319	-1208.0879	-7583.825	209081.6121	-279863
Story2	Comb3 Min	Bottom	40091.5199	-1152.4319	-1208.0879	-7583.8279	209446.4362	-286736

Story	Load Case/Combo	Location	P kN	VX kN	VY kN	T kN-m	MX kN-m	MY kN-m
Story1	Comb3 Min	Top	41660.1598	-1201.8509	-1260.2673	-7911.8916	218858.2768	-296540
Story1	Comb3 Min	Bottom	42336.9598	-1201.8509	-1260.2673	-7911.8927	219160.6979	-305322
Story20	Dead Max	Top	1568.64	-0.2379	0	1.4273	9411.8398	-9803.9998
Story20	Dead Max	Bottom	2110.08	-0.2379	0	1.4273	12660.4798	-12983.2474
Story19	Dead Max	Top	3678.72	-0.5248	0	3.1489	22072.3199	-22787.2475
Story19	Dead Max	Bottom	4220.16	-0.5248	0	3.1489	25320.9599	-25969.5185
Story18	Dead Max	Top	5788.8	-0.8045	0	4.8269	34732.7999	-35773.5184
Story18	Dead Max	Bottom	6330.24	-0.8045	0	4.8269	37981.4399	-38958.7366
Story17	Dead Max	Top	7898.88	-1.0763	0	6.4576	47393.2799	-48762.7365
Story17	Dead Max	Bottom	8440.32	-1.0763	0	6.4576	50641.9199	-51950.8123
Story16	Dead Max	Top	10008.96	-1.3395	0	8.0372	60053.76	-61754.8121
Story16	Dead Max	Bottom	10550.4	-1.3395	0	8.0372	63302.4	-64945.6272
Story15	Dead Max	Top	12119.04	-1.5936	0	9.5617	72714.24	-74749.627
Story15	Dead Max	Bottom	12660.48	-1.5936	0	9.5617	75962.88	-77943.0372
Story14	Dead Max	Top	14229.12	-1.8378	0	11.027	85374.72	-87747.0369
Story14	Dead Max	Bottom	14770.56	-1.8378	0	11.027	88623.36	-90942.8686
Story13	Dead Max	Top	16339.2	-2.0714	0	12.4286	98035.2	-100747
Story13	Dead Max	Bottom	16880.64	-2.0714	0	12.4286	101283.84	-103945
Story12	Dead Max	Top	18449.28	-2.2937	0	13.7623	110695.6801	-113749
Story12	Dead Max	Bottom	18990.72	-2.2937	0	13.7623	113944.3201	-116949
Story11	Dead Max	Top	20559.36	-2.5039	0	15.0231	123356.1601	-126753
Story11	Dead Max	Bottom	21100.8	-2.5039	0	15.0231	126604.8001	-129955
Story10	Dead Max	Top	22669.44	-2.701	0	16.2063	136016.6401	-139759
Story10	Dead Max	Bottom	23210.88	-2.701	0	16.2063	139265.2801	-142962
Story9	Dead Max	Top	24779.52	-2.8844	0	17.3065	148677.1201	-152766
Story9	Dead Max	Bottom	25320.96	-2.8844	0	17.3065	151925.7601	-155970
Story8	Dead Max	Top	26889.6	-3.053	0	18.3182	161337.6001	-165774
Story8	Dead Max	Bottom	27431.04	-3.053	0	18.3182	164586.2401	-168979
Story7	Dead Max	Top	28999.68	-3.2059	0	19.2355	173998.0801	-178783
Story7	Dead Max	Bottom	29541.12	-3.2059	0	19.2355	177246.7201	-181988
Story6	Dead Max	Top	31109.76	-3.342	0	20.0521	186658.56	-191792
Story6	Dead Max	Bottom	31651.2	-3.342	0	20.0521	189907.2	-194996
Story5	Dead Max	Top	33219.84	-3.4602	0	20.7609	199319.04	-204800
Story5	Dead Max	Bottom	33761.28	-3.4602	0	20.7609	202567.68	-208004
Story4	Dead Max	Top	35329.92	-3.5591	0	21.3547	211979.52	-217808
Story4	Dead Max	Bottom	35871.36	-3.5591	0	21.3547	215228.16	-221010
Story3	Dead Max	Top	37440	-3.6375	0	21.8252	224639.9999	-230814
Story3	Dead Max	Bottom	37981.44	-3.6375	0	21.8252	227888.6399	-234014
Story2	Dead Max	Top	39550.08	-3.6939	0	22.1635	237300.4798	-243818
Story2	Dead Max	Bottom	40091.52	-3.6939	0	22.1635	240549.1198	-247014
Story1	Dead Max	Top	41660.16	-3.7285	0	22.3709	249960.9598	-256818
Story1	Dead Max	Bottom	42336.96	-3.7285	0	22.3709	254021.7598	-260808
Story20	Dead Min	Top	1568.64	-0.2379	0	1.4273	9411.8398	-9803.9998
Story20	Dead Min	Bottom	2110.08	-0.2379	0	1.4273	12660.4798	-12983.2474
Story19	Dead Min	Top	3678.72	-0.5248	0	3.1489	22072.3199	-22787.2475
Story19	Dead Min	Bottom	4220.16	-0.5248	0	3.1489	25320.9599	-25969.5185
Story18	Dead Min	Top	5788.8	-0.8045	0	4.8269	34732.7999	-35773.5184
Story18	Dead Min	Bottom	6330.24	-0.8045	0	4.8269	37981.4399	-38958.7366
Story17	Dead Min	Top	7898.88	-1.0763	0	6.4576	47393.2799	-48762.7365
Story17	Dead Min	Bottom	8440.32	-1.0763	0	6.4576	50641.9199	-51950.8123
Story16	Dead Min	Top	10008.96	-1.3395	0	8.0372	60053.76	-61754.8121
Story16	Dead Min	Bottom	10550.4	-1.3395	0	8.0372	63302.4	-64945.6272
Story15	Dead Min	Top	12119.04	-1.5936	0	9.5617	72714.24	-74749.627
Story15	Dead Min	Bottom	12660.48	-1.5936	0	9.5617	75962.88	-77943.0372

Story	Load Case/Combo	Location	P kN	VX kN	VY kN	T kN-m	MX kN-m	MY kN-m
Story14	Dead Min	Top	14229.12	-1.8378	0	11.027	85374.72	-87747.0369
Story14	Dead Min	Bottom	14770.56	-1.8378	0	11.027	88623.36	-90942.8686
Story13	Dead Min	Top	16339.2	-2.0714	0	12.4286	98035.2	-100747
Story13	Dead Min	Bottom	16880.64	-2.0714	0	12.4286	101283.84	-103945
Story12	Dead Min	Top	18449.28	-2.2937	0	13.7623	110695.6801	-113749
Story12	Dead Min	Bottom	18990.72	-2.2937	0	13.7623	113944.3201	-116949
Story11	Dead Min	Top	20559.36	-2.5039	0	15.0231	123356.1601	-126753
Story11	Dead Min	Bottom	21100.8	-2.5039	0	15.0231	126604.8001	-129955
Story10	Dead Min	Top	22669.44	-2.701	0	16.2063	136016.6401	-139759
Story10	Dead Min	Bottom	23210.88	-2.701	0	16.2063	139265.2801	-142962
Story9	Dead Min	Top	24779.52	-2.8844	0	17.3065	148677.1201	-152766
Story9	Dead Min	Bottom	25320.96	-2.8844	0	17.3065	151925.7601	-155970
Story8	Dead Min	Top	26889.6	-3.053	0	18.3182	161337.6001	-165774
Story8	Dead Min	Bottom	27431.04	-3.053	0	18.3182	164586.2401	-168979
Story7	Dead Min	Top	28999.68	-3.2059	0	19.2355	173998.0801	-178783
Story7	Dead Min	Bottom	29541.12	-3.2059	0	19.2355	177246.7201	-181988
Story6	Dead Min	Top	31109.76	-3.342	0	20.0521	186658.56	-191792
Story6	Dead Min	Bottom	31651.2	-3.342	0	20.0521	189907.2	-194996
Story5	Dead Min	Top	33219.84	-3.4602	0	20.7609	199319.04	-204800
Story5	Dead Min	Bottom	33761.28	-3.4602	0	20.7609	202567.68	-208004
Story4	Dead Min	Top	35329.92	-3.5591	0	21.3547	211979.52	-217808
Story4	Dead Min	Bottom	35871.36	-3.5591	0	21.3547	215228.16	-221010
Story3	Dead Min	Top	37440	-3.6375	0	21.8252	224639.9999	-230814
Story3	Dead Min	Bottom	37981.44	-3.6375	0	21.8252	227888.6399	-234014
Story2	Dead Min	Top	39550.08	-3.6939	0	22.1635	237300.4798	-243818
Story2	Dead Min	Bottom	40091.52	-3.6939	0	22.1635	240549.1198	-247014
Story1	Dead Min	Top	41660.16	-3.7285	0	22.3709	249960.9598	-256818
Story1	Dead Min	Bottom	42336.96	-3.7285	0	22.3709	254021.7598	-260808
Story20	Live Max	Top	198	-0.0313	0	0.1881	1188	-1237.5
Story20	Live Max	Bottom	198	-0.0313	0	0.1881	1188	-1237.6265
Story19	Live Max	Top	396	-0.0692	0	0.4149	2376	-2475.1265
Story19	Live Max	Bottom	396	-0.0692	0	0.4149	2376	-2475.4001
Story18	Live Max	Top	594	-0.106	0	0.6361	3564	-3712.9001
Story18	Live Max	Bottom	594	-0.106	0	0.6361	3564	-3713.3169
Story17	Live Max	Top	792	-0.1418	0	0.851	4752	-4950.8169
Story17	Live Max	Bottom	792	-0.1418	0	0.851	4752	-4951.3728
Story16	Live Max	Top	990	-0.1765	0	1.0592	5940	-6188.8728
Story16	Live Max	Bottom	990	-0.1765	0	1.0592	5940	-6189.563
Story15	Live Max	Top	1188	-0.21	0	1.2602	7128	-7427.063
Story15	Live Max	Bottom	1188	-0.21	0	1.2602	7128	-7427.8823
Story14	Live Max	Top	1386	-0.2422	0	1.4535	8316	-8665.3823
Story14	Live Max	Bottom	1386	-0.2422	0	1.4535	8316	-8666.3248
Story13	Live Max	Top	1584	-0.2731	0	1.6384	9504	-9903.8248
Story13	Live Max	Bottom	1584	-0.2731	0	1.6384	9504	-9904.8839
Story12	Live Max	Top	1782	-0.3024	0	1.8145	10692	-11142.3839
Story12	Live Max	Bottom	1782	-0.3024	0	1.8145	10692	-11143.5525
Story11	Live Max	Top	1980	-0.3302	0	1.9811	11880	-12381.0525
Story11	Live Max	Bottom	1980	-0.3302	0	1.9811	11880	-12382.3225
Story10	Live Max	Top	2178	-0.3562	0	2.1374	13068	-13619.8225
Story10	Live Max	Bottom	2178	-0.3562	0	2.1374	13068	-13621.1853
Story9	Live Max	Top	2376	-0.3805	0	2.2829	14256	-14858.6853
Story9	Live Max	Bottom	2376	-0.3805	0	2.2829	14256	-14860.1313
Story8	Live Max	Top	2574	-0.4028	0	2.4168	15444	-16097.6312
Story8	Live Max	Bottom	2574	-0.4028	0	2.4168	15444	-16099.1498

Story	Load Case/Combo	Location	P kN	VX kN	VY kN	T kN-m	MX kN-m	MY kN-m
Story7	Live Max	Top	2772	-0.423	0	2.5382	16632	-17336.6497
Story7	Live Max	Bottom	2772	-0.423	0	2.5382	16632	-17338.2293
Story6	Live Max	Top	2970	-0.4411	0	2.6463	17820	-18575.7292
Story6	Live Max	Bottom	2970	-0.4411	0	2.6463	17820	-18577.3569
Story5	Live Max	Top	3168	-0.4567	0	2.7402	19008	-19814.8569
Story5	Live Max	Bottom	3168	-0.4567	0	2.7402	19008	-19816.5185
Story4	Live Max	Top	3366	-0.4698	0	2.8187	20196	-21054.0185
Story4	Live Max	Bottom	3366	-0.4698	0	2.8187	20196	-21055.6984
Story3	Live Max	Top	3564	-0.4801	0	2.8808	21384	-22293.1984
Story3	Live Max	Bottom	3564	-0.4801	0	2.8808	21384	-22294.879
Story2	Live Max	Top	3762	-0.4875	0	2.9253	22572	-23532.379
Story2	Live Max	Bottom	3762	-0.4875	0	2.9253	22572	-23534.0407
Story1	Live Max	Top	3960	-0.492	0	2.952	23760	-24771.5407
Story1	Live Max	Bottom	3960	-0.492	0	2.952	23760	-24773.5583
Story20	Live Min	Top	198	-0.0313	0	0.1881	1188	-1237.5
Story20	Live Min	Bottom	198	-0.0313	0	0.1881	1188	-1237.6265
Story19	Live Min	Top	396	-0.0692	0	0.4149	2376	-2475.1265
Story19	Live Min	Bottom	396	-0.0692	0	0.4149	2376	-2475.4001
Story18	Live Min	Top	594	-0.106	0	0.6361	3564	-3712.9001
Story18	Live Min	Bottom	594	-0.106	0	0.6361	3564	-3713.3169
Story17	Live Min	Top	792	-0.1418	0	0.851	4752	-4950.8169
Story17	Live Min	Bottom	792	-0.1418	0	0.851	4752	-4951.3728
Story16	Live Min	Top	990	-0.1765	0	1.0592	5940	-6188.8728
Story16	Live Min	Bottom	990	-0.1765	0	1.0592	5940	-6189.563
Story15	Live Min	Top	1188	-0.21	0	1.2602	7128	-7427.063
Story15	Live Min	Bottom	1188	-0.21	0	1.2602	7128	-7427.8823
Story14	Live Min	Top	1386	-0.2422	0	1.4535	8316	-8665.3823
Story14	Live Min	Bottom	1386	-0.2422	0	1.4535	8316	-8666.3248
Story13	Live Min	Top	1584	-0.2731	0	1.6384	9504	-9903.8248
Story13	Live Min	Bottom	1584	-0.2731	0	1.6384	9504	-9904.8839
Story12	Live Min	Top	1782	-0.3024	0	1.8145	10692	-11142.3839
Story12	Live Min	Bottom	1782	-0.3024	0	1.8145	10692	-11143.5525
Story11	Live Min	Top	1980	-0.3302	0	1.9811	11880	-12381.0525
Story11	Live Min	Bottom	1980	-0.3302	0	1.9811	11880	-12382.3225
Story10	Live Min	Top	2178	-0.3562	0	2.1374	13068	-13619.8225
Story10	Live Min	Bottom	2178	-0.3562	0	2.1374	13068	-13621.1853
Story9	Live Min	Top	2376	-0.3805	0	2.2829	14256	-14858.6853
Story9	Live Min	Bottom	2376	-0.3805	0	2.2829	14256	-14860.1313
Story8	Live Min	Top	2574	-0.4028	0	2.4168	15444	-16097.6312
Story8	Live Min	Bottom	2574	-0.4028	0	2.4168	15444	-16099.1498
Story7	Live Min	Top	2772	-0.423	0	2.5382	16632	-17336.6497
Story7	Live Min	Bottom	2772	-0.423	0	2.5382	16632	-17338.2293
Story6	Live Min	Top	2970	-0.4411	0	2.6463	17820	-18575.7292
Story6	Live Min	Bottom	2970	-0.4411	0	2.6463	17820	-18577.3569
Story5	Live Min	Top	3168	-0.4567	0	2.7402	19008	-19814.8569
Story5	Live Min	Bottom	3168	-0.4567	0	2.7402	19008	-19816.5185
Story4	Live Min	Top	3366	-0.4698	0	2.8187	20196	-21054.0185
Story4	Live Min	Bottom	3366	-0.4698	0	2.8187	20196	-21055.6984
Story3	Live Min	Top	3564	-0.4801	0	2.8808	21384	-22293.1984
Story3	Live Min	Bottom	3564	-0.4801	0	2.8808	21384	-22294.879
Story2	Live Min	Top	3762	-0.4875	0	2.9253	22572	-23532.379
Story2	Live Min	Bottom	3762	-0.4875	0	2.9253	22572	-23534.0407
Story1	Live Min	Top	3960	-0.492	0	2.952	23760	-24771.5407
Story1	Live Min	Bottom	3960	-0.492	0	2.952	23760	-24773.5583

Story	Load Case/Combo	Location	P kN	VX kN	VY kN	T kN-m	MX kN-m	MY kN-m
Story20	windx Max	Top	3.03E-05	0.0004	68.3355	821.6674	0.0002	0.0001
Story20	windx Max	Bottom	3.03E-05	0.0004	68.3355	821.6812	292.1615	0.6127
Story19	windx Max	Top	2.752E-05	0.001	110.8541	1333.4836	292.1615	0.6127
Story19	windx Max	Bottom	2.752E-05	0.001	110.8541	1333.4833	766.9129	0.5497
Story18	windx Max	Top	2.783E-05	0.0016	152.9902	1840.7252	766.9129	0.5497
Story18	windx Max	Bottom	2.783E-05	0.0016	152.9902	1840.7131	1422.6231	0.2147
Story17	windx Max	Top	2.603E-05	0.0022	194.7273	2343.1964	1422.6231	0.2147
Story17	windx Max	Bottom	2.603E-05	0.0022	194.7273	2343.1679	2257.5902	-0.1
Story16	windx Max	Top	2.33E-05	0.0028	236.047	2840.6679	2257.5903	-0.1
Story16	windx Max	Bottom	2.33E-05	0.0028	236.047	2840.6225	3270.0331	-0.2724
Story15	windx Max	Top	2.636E-05	0.0035	276.9285	3332.8876	3270.0332	-0.2724
Story15	windx Max	Bottom	2.636E-05	0.0035	276.9285	3332.8237	4458.0821	-0.4882
Story14	windx Max	Top	2.898E-05	0.0041	317.3485	3819.5711	4458.0823	-0.4882
Story14	windx Max	Bottom	2.898E-05	0.0041	317.3485	3819.4882	5819.7685	-0.7355
Story13	windx Max	Top	2.789E-05	0.0049	357.2809	4300.3989	5819.7688	-0.7355
Story13	windx Max	Bottom	2.789E-05	0.0049	357.2809	4300.2959	7353.012	-0.9985
Story12	windx Max	Top	2.086E-05	0.0056	396.696	4775.0072	7353.0123	-0.9985
Story12	windx Max	Bottom	2.086E-05	0.0056	396.696	4774.8834	9055.6053	-1.2571
Story11	windx Max	Top	9.373E-06	0.0064	435.5599	5242.9798	9055.6057	-1.2571
Story11	windx Max	Bottom	9.373E-06	0.0064	435.5599	5242.8336	10925.1963	-1.4858
Story10	windx Max	Top	1.54E-05	0.0072	473.8332	5703.8338	10925.1967	-1.4858
Story10	windx Max	Bottom	1.54E-05	0.0072	473.8332	5703.6634	12959.265	-1.6528
Story9	windx Max	Top	2.19E-05	0.0081	511.4697	6157.0027	12959.2655	-1.6528
Story9	windx Max	Bottom	2.19E-05	0.0081	511.4697	6156.8052	15155.0945	-1.7189
Story8	windx Max	Top	2.788E-05	0.0089	548.4145	6601.8103	15155.0949	-1.7189
Story8	windx Max	Bottom	2.788E-05	0.0089	548.4145	6601.5823	17509.7329	-0.8287
Story7	windx Max	Top	3.191E-05	0.0098	584.6006	7037.4335	17509.7333	-0.8287
Story7	windx Max	Bottom	3.191E-05	0.0098	584.6006	7037.1706	20019.9427	1.5641
Story6	windx Max	Top	3.228E-05	0.0106	619.9442	7462.8445	20019.9431	1.5641
Story6	windx Max	Bottom	3.228E-05	0.0106	619.9442	7462.5419	22682.129	4.8936
Story5	windx Max	Top	2.727E-05	0.0114	654.3372	7876.7164	22682.1293	4.8936
Story5	windx Max	Bottom	2.727E-05	0.0114	654.3372	7876.3699	25492.2348	9.2466
Story4	windx Max	Top	1.572E-05	0.0121	687.6328	8277.2555	25492.2349	9.2466
Story4	windx Max	Bottom	1.572E-05	0.0121	687.6328	8276.8651	28445.5765	14.6206
Story3	windx Max	Top	0.0001	0.0128	719.618	8661.869	28445.5764	14.6206
Story3	windx Max	Bottom	0.0001	0.0128	719.618	8661.4455	31536.5607	20.8081
Story2	windx Max	Top	0.0003	0.0133	749.9489	9026.3934	31536.5603	20.8081
Story2	windx Max	Bottom	0.0003	0.0133	749.9489	9025.9732	34758.1253	27.1647
Story1	windx Max	Top	0.0003	0.0136	782.2546	9414.4076	34758.1236	27.1647
Story1	windx Max	Bottom	0.0003	0.0136	782.2546	9414.0687	38959.0107	32.4986
Story20	windx Min	Top	0	-87.4333	-91.2999	-572.1329	-3.166E-05	-0.0001
Story20	windx Min	Bottom	0	-87.4333	-91.2999	-572.1333	-219.153	-279.7478
Story19	windx Min	Top	0	-141.8062	-148.3598	-930.6168	-219.153	-279.7478
Story19	windx Min	Bottom	0	-141.8062	-148.3598	-930.6168	-573.9453	-733.4462
Story18	windx Min	Top	-1.07E-06	-195.6806	-204.9097	-1286.0116	-573.9452	-733.4462
Story18	windx Min	Bottom	-1.07E-06	-195.6806	-204.9097	-1286.0114	-1063.4072	-1359.515
Story17	windx Min	Top	-1.943E-06	-249.0353	-260.9277	-1638.1812	-1063.4071	-1359.5149
Story17	windx Min	Bottom	-1.943E-06	-249.0353	-260.9277	-1638.1807	-1686.2564	-2156.2991
Story16	windx Min	Top	-2.41E-06	-301.8462	-316.389	-1986.9699	-1686.2564	-2156.2991
Story16	windx Min	Bottom	-2.41E-06	-301.8462	-316.389	-1986.9692	-2441.194	-3122.0673
Story15	windx Min	Top	-2.353E-06	-354.0864	-371.266	-2332.2033	-2441.194	-3122.0673
Story15	windx Min	Bottom	-2.353E-06	-354.0864	-371.266	-2332.2025	-3326.8537	-4255.0023
Story14	windx Min	Top	-4.554E-06	-405.7259	-425.5277	-2673.6857	-3326.8538	-4255.0024
Story14	windx Min	Bottom	-4.554E-06	-405.7259	-425.5277	-2673.6848	-4341.801	-5553.1905

Story	Load Case/Combo	Location	P kN	VX kN	VY kN	T kN-m	MX kN-m	MY kN-m
Story13	windx Min	Top	-8.031E-06	-456.7303	-479.1393	-3011.1964	-4341.8011	-5553.1906
Story13	windx Min	Bottom	-8.031E-06	-456.7303	-479.1393	-3011.1954	-5484.5228	-7014.6097
Story12	windx Min	Top	-2.73E-05	-507.0609	-532.061	-3344.4845	-5484.5229	-7014.6098
Story12	windx Min	Bottom	-2.73E-05	-507.0609	-532.061	-3344.4834	-6753.4168	-8637.114
Story11	windx Min	Top	-0.0001	-556.6733	-584.2476	-3673.2621	-6753.417	-8637.1142
Story11	windx Min	Bottom	-0.0001	-556.6733	-584.2476	-3673.2611	-8146.7785	-10418.4159
Story10	windx Min	Top	-0.0001	-605.5162	-635.6466	-3997.1955	-8146.7789	-10418.4161
Story10	windx Min	Bottom	-0.0001	-605.5162	-635.6466	-3997.1947	-9662.785	-12356.0634
Story9	windx Min	Top	-0.0002	-653.5295	-686.1965	-4315.8917	-9662.7855	-12356.0637
Story9	windx Min	Bottom	-0.0002	-653.5295	-686.1965	-4315.8912	-11299.4736	-14447.4122
Story8	windx Min	Top	-0.0002	-700.6419	-735.8241	-4628.8804	-11299.4741	-14447.4125
Story8	windx Min	Bottom	-0.0002	-700.6419	-735.8241	-4628.8802	-13054.7139	-16689.5881
Story7	windx Min	Top	-0.0003	-746.7672	-784.4399	-4935.5861	-13054.7145	-16689.5884
Story7	windx Min	Bottom	-0.0003	-746.7672	-784.4399	-4935.5865	-14926.169	-19079.4381
Story6	windx Min	Top	-0.0003	-791.7984	-831.9324	-5235.2861	-14926.1695	-19079.4384
Story6	windx Min	Bottom	-0.0003	-791.7984	-831.9324	-5235.2871	-16911.2369	-21613.4615
Story5	windx Min	Top	-0.0002	-835.5982	-878.1573	-5527.0401	-16911.2372	-21613.4617
Story5	windx Min	Bottom	-0.0002	-835.5982	-878.1573	-5527.0419	-19006.9603	-24287.7101
Story4	windx Min	Top	-0.0002	-877.9823	-922.9189	-5809.5669	-19006.9603	-24287.7101
Story4	windx Min	Bottom	-0.0002	-877.9823	-922.9189	-5809.5693	-21209.8738	-27097.632
Story3	windx Min	Top	-1.712E-05	-918.6855	-965.9328	-6080.9993	-21209.8734	-27097.6319
Story3	windx Min	Bottom	-1.712E-05	-918.6855	-965.9328	-6081.002	-23515.7239	-30037.8059
Story2	windx Min	Top	-0.0001	-957.2816	-1006.7399	-6338.3238	-23515.7231	-30037.8055
Story2	windx Min	Bottom	-0.0001	-957.2816	-1006.7399	-6338.3262	-25918.903	-33101.4142
Story1	windx Min	Top	-0.0002	-998.4354	-1050.2227	-6611.8854	-25918.9025	-33101.4134
Story1	windx Min	Bottom	-0.0002	-998.4354	-1050.2227	-6611.8864	-29050.8849	-37095.249

4.3.6 Point Results

Table 4.12 - Joint Reactions

Story	Joint Label	Load Case/Combo	FX kN	FY kN	FZ kN	MX kN-m	MY kN-m	MZ kN-m
Base	1	Dead Max	3.7668	-0.1426	1678.887	0.1911	1.8989	0
Base	1	Dead Min	3.7668	-0.1426	1678.887	0.1911	1.8989	0
Base	1	Live Max	0.5864	-0.007	153.8604	0.0092	0.3598	0
Base	1	Live Min	0.5864	-0.007	153.8604	0.0092	0.3598	0
Base	1	windx Max	2.5077	3.9783	-79.1069	9.1826	4.4091	3.3463
Base	1	windx Min	-9.0801	-4.162	-411.1506	-8.9281	-36.4499	-3.3693
Base	1	Comb1	5.2735	-0.1996	2350.4418	0.2675	2.6584	0
Base	1	Comb2	4.705	-0.1538	1925.0636	0.2059	2.4745	0
Base	1	Comb3 Max	6.7759	4.6313	1583.9587	11.2102	7.1898	4.0156
Base	1	Comb3 Min	-7.1294	-5.1369	1185.5062	-10.5226	-41.8411	-4.0431
Base	2	Dead Max	3.7668	0.1426	1678.887	-0.1911	1.8989	0
Base	2	Dead Min	3.7668	0.1426	1678.887	-0.1911	1.8989	0
Base	2	Live Max	0.5864	0.007	153.8604	-0.0092	0.3598	0
Base	2	Live Min	0.5864	0.007	153.8604	-0.0092	0.3598	0
Base	2	windx Max	5.6232	4.1337	137.9066	8.9884	19.9752	3.3463
Base	2	windx Min	-9.0176	-4.0055	-408.6728	-9.121	-36.2046	-3.3693
Base	2	Comb1	5.2735	0.1996	2350.4418	-0.2675	2.6584	0
Base	2	Comb2	4.705	0.1538	1925.0636	-0.2059	2.4745	0
Base	2	Comb3 Max	10.5146	5.103	1844.3749	10.595	25.8691	4.0156
Base	2	Comb3 Min	-7.0544	-4.664	1188.4797	-11.1363	-41.5466	-4.0431
Base	3	Dead Max	-5.4484	0.2088	2024.3489	-0.2808	-9.8238	0

Story	Joint Label	Load Case/Combo	FX kN	FY kN	FZ kN	MX kN-m	MY kN-m	MZ kN-m
Base	3	Dead Min	-5.4484	0.2088	2024.3489	-0.2808	-9.8238	0
Base	3	Live Max	-0.8309	0.041	198.3942	-0.0541	-1.4351	0
Base	3	Live Min	-0.8309	0.041	198.3942	-0.0541	-1.4351	0
Base	3	windx Max	2.2904	18.5695	420.139	42.6337	4.138	3.3463
Base	3	windx Min	-8.924	-19.4724	-39.0661	-40.6711	-36.3431	-3.3693
Base	3	Comb1	-7.6278	0.2924	2834.0884	-0.3932	-13.7533	0
Base	3	Comb2	-6.7778	0.2744	2341.7797	-0.3675	-12.12	0
Base	3	Comb3 Max	-2.6999	22.4922	2528.5157	50.8796	-4.8582	4.0156
Base	3	Comb3 Min	-16.1572	-23.1581	1977.4695	-49.0862	-53.4355	-4.0431
Base	4	Dead Max	-5.4484	-0.2088	2024.3489	0.2808	-9.8238	0
Base	4	Dead Min	-5.4484	-0.2088	2024.3489	0.2808	-9.8238	0
Base	4	Live Max	-0.8309	-0.041	198.3942	0.0541	-1.4351	0
Base	4	Live Min	-0.8309	-0.041	198.3942	0.0541	-1.4351	0
Base	4	windx Max	5.3944	18.435	420.139	42.6528	19.6729	3.3463
Base	4	windx Min	-8.8633	-19.5234	-37.7025	-40.56	-36.0988	-3.3693
Base	4	Comb1	-7.6278	-0.2924	2834.0884	0.3932	-13.7533	0
Base	4	Comb2	-6.7778	-0.2744	2341.7797	0.3675	-12.12	0
Base	4	Comb3 Max	1.0248	21.9132	2528.5157	51.4642	13.7837	4.0156
Base	4	Comb3 Min	-16.0844	-23.6369	1979.1059	-48.3911	-53.1424	-4.0431
Base	5	Dead Max	2.2492	-3.788	1578.0316	4.8133	2.3641	0
Base	5	Dead Min	2.2492	-3.788	1578.0316	4.8133	2.3641	0
Base	5	Live Max	0.2823	-0.4796	134.6106	0.6073	0.2891	0
Base	5	Live Min	0.2823	-0.4796	134.6106	0.6073	0.2891	0
Base	5	windx Max	7.5495	8.3092	438.8146	27.3144	18.4372	3.3463
Base	5	windx Min	-9.8004	-8.0374	-605.8533	-27.4989	-23.8287	-3.3693
Base	5	Comb1	3.1489	-5.3033	2209.2443	6.7386	3.3098	0
Base	5	Comb2	2.7008	-4.5554	1793.4086	5.785	2.8268	0
Base	5	Comb3 Max	11.3086	6.183	2104.6091	37.5906	24.4887	4.0156
Base	5	Comb3 Min	-9.5113	-13.433	851.0077	-28.1854	-26.2303	-4.0431
Base	6	Dead Max	-0.3542	-3.8873	1818.3791	4.9424	-1.1265	0
Base	6	Dead Min	-0.3542	-3.8873	1818.3791	4.9424	-1.1265	0
Base	6	Live Max	-0.0461	-0.6128	172.601	0.7761	-0.1445	0
Base	6	Live Min	-0.0461	-0.6128	172.601	0.7761	-0.1445	0
Base	6	windx Max	9.5546	8.3052	446.33	42.51	21.0868	3.3463
Base	6	windx Min	-12.2998	-10.5639	-395.786	-32.1375	-27.183	-3.3693
Base	6	Comb1	-0.4959	-5.4423	2545.7307	6.9193	-1.5771	0
Base	6	Comb2	-0.4279	-4.8679	2094.5407	6.1841	-1.3576	0
Base	6	Comb3 Max	11.1114	6.0789	2353.9751	55.9543	24.1777	4.0156
Base	6	Comb3 Min	-15.114	-16.564	1343.4358	-33.6227	-33.746	-4.0431
Base	7	Dead Max	-0.3825	-4.2136	1909.4848	5.3583	-1.1663	0
Base	7	Dead Min	-0.3825	-4.2136	1909.4848	5.3583	-1.1663	0
Base	7	Live Max	-0.0651	-0.6564	184.208	0.8312	-0.1697	0
Base	7	Live Min	-0.0651	-0.6564	184.208	0.8312	-0.1697	0
Base	7	windx Max	9.2386	17.0291	500.7958	75.8293	20.6923	3.3463
Base	7	windx Min	-12.1095	-18.6359	-255.0846	-69.2227	-26.9559	-3.3693
Base	7	Comb1	-0.5355	-5.899	2673.2788	7.5017	-1.6328	0
Base	7	Comb2	-0.4866	-5.2637	2204.2176	6.6883	-1.4377	0
Base	7	Comb3 Max	10.7038	16.2213	2510.4398	96.3535	23.6644	4.0156
Base	7	Comb3 Min	-14.9139	-26.5767	1603.3834	-77.709	-33.5133	-4.0431
Base	8	Dead Max	-2.8093	-4.0048	1838.6638	5.092	-4.4225	0
Base	8	Dead Min	-2.8093	-4.0048	1838.6638	5.092	-4.4225	0
Base	8	Live Max	-0.3678	-0.5063	168.2157	0.6411	-0.5693	0
Base	8	Live Min	-0.3678	-0.5063	168.2157	0.6411	-0.5693	0
Base	8	windx Max	7.3154	34.7647	656.0795	123.3367	18.143	3.3463

Story	Joint Label	Load Case/Combo	FX kN	FY kN	FZ kN	MX kN-m	MY kN-m	MZ kN-m
Base	8	windx Min	-9.5546	-35.8623	-107.5337	-117.7659	-23.6461	-3.3693
Base	8	Comb1	-3.933	-5.6067	2574.1293	7.1287	-6.1916	0
Base	8	Comb2	-3.3977	-4.8149	2107.8089	6.1178	-5.3335	0
Base	8	Comb3 Max	5.9692	37.7128	2625.9592	153.096	17.3491	4.0156
Base	8	Comb3 Min	-14.2748	-47.0396	1709.6234	-136.2271	-32.7978	-4.0431
Base	9	Dead Max	2.2492	3.788	1578.0316	-4.8133	2.3641	0
Base	9	Dead Min	2.2492	3.788	1578.0316	-4.8133	2.3641	0
Base	9	Live Max	0.2823	0.4796	134.6106	-0.6073	0.2891	0
Base	9	Live Min	0.2823	0.4796	134.6106	-0.6073	0.2891	0
Base	9	windx Max	5.9633	7.9823	62.7805	27.6852	13.8246	3.3463
Base	9	windx Min	-9.8688	-8.3668	-609.5263	-27.1307	-23.9918	-3.3693
Base	9	Comb1	3.1489	5.3033	2209.2443	-6.7386	3.3098	0
Base	9	Comb2	2.7008	4.5554	1793.4086	-5.785	2.8268	0
Base	9	Comb3 Max	9.4051	13.3669	1653.3682	28.4089	18.9536	4.0156
Base	9	Comb3 Min	-9.5934	-6.2521	846.6	-37.3701	-26.426	-4.0431
Base	10	Dead Max	-0.3542	3.8873	1818.3791	-4.9424	-1.1265	0
Base	10	Dead Min	-0.3542	3.8873	1818.3791	-4.9424	-1.1265	0
Base	10	Live Max	-0.0461	0.6128	172.601	-0.7761	-0.1445	0
Base	10	Live Min	-0.0461	0.6128	172.601	-0.7761	-0.1445	0
Base	10	windx Max	7.4236	7.6289	269.788	42.6317	15.7847	3.3463
Base	10	windx Min	-12.3846	-10.7776	-446.2756	-31.3642	-27.3685	-3.3693
Base	10	Comb1	-0.4959	5.4423	2545.7307	-6.9193	-1.5771	0
Base	10	Comb2	-0.4279	4.8679	2094.5407	-6.1841	-1.3576	0
Base	10	Comb3 Max	8.5541	13.042	2142.1246	46.2157	17.8151	4.0156
Base	10	Comb3 Min	-15.2157	-9.0458	1282.8483	-42.5794	-33.9686	-4.0431
Base	11	Dead Max	-0.3825	4.2136	1909.4848	-5.3583	-1.1663	0
Base	11	Dead Min	-0.3825	4.2136	1909.4848	-5.3583	-1.1663	0
Base	11	Live Max	-0.0651	0.6564	184.208	-0.8312	-0.1697	0
Base	11	Live Min	-0.0651	0.6564	184.208	-0.8312	-0.1697	0
Base	11	windx Max	7.0833	17.716	491.8504	76.0409	15.3846	3.3463
Base	11	windx Min	-12.1929	-18.9969	-500.9456	-70.2743	-27.1398	-3.3693
Base	11	Comb1	-0.5355	5.899	2673.2788	-7.5017	-1.6328	0
Base	11	Comb2	-0.4866	5.2637	2204.2176	-6.6883	-1.4377	0
Base	11	Comb3 Max	8.1174	25.4728	2499.7054	85.8907	17.2952	4.0156
Base	11	Comb3 Min	-15.0139	-18.5827	1308.3501	-89.6874	-33.734	-4.0431
Base	12	Dead Max	-2.8093	4.0048	1838.6638	-5.092	-4.4225	0
Base	12	Dead Min	-2.8093	4.0048	1838.6638	-5.092	-4.4225	0
Base	12	Live Max	-0.3678	0.5063	168.2157	-0.6411	-0.5693	0
Base	12	Live Min	-0.3678	0.5063	168.2157	-0.6411	-0.5693	0
Base	12	windx Max	5.6371	34.6595	652.1128	123.6179	13.4972	3.3463
Base	12	windx Min	-9.6203	-36.3822	-478.8869	-117.9271	-23.8075	-3.3693
Base	12	Comb1	-3.933	5.6067	2574.1293	-7.1287	-6.1916	0
Base	12	Comb2	-3.3977	4.8149	2107.8089	-6.1178	-5.3335	0
Base	12	Comb3 Max	3.9552	45.5962	2621.1992	143.2496	11.7741	4.0156
Base	12	Comb3 Min	-14.3537	-39.6539	1263.9996	-146.6045	-32.9915	-4.0431
Base	13	Dead Max	555.2754	485.3485	6480.1587	8.5334	-21.0773	0.217
Base	13	Dead Min	555.2754	485.3485	6480.1587	8.5334	-21.0773	0.217
Base	13	Live Max	53.36	43.9709	597.1735	1.1233	-2.7654	0.029
Base	13	Live Min	53.36	43.9709	597.1735	1.1233	-2.7654	0.029
Base	13	windx Max	216.0681	123.2054	821.4874	233.7303	21.1916	2.2478
Base	13	windx Min	-365.3085	-516.6544	-3464.0032	-173.5882	-210.3052	-1.419
Base	13	Comb1	777.3856	679.4879	9072.2222	11.9467	-29.5083	0.3039
Base	13	Comb2	640.6515	555.7019	7435.6362	10.3306	-25.502	0.2634
Base	13	Comb3 Max	814.5571	633.195	7465.9436	289.0097	4.3526	2.9144

Story	Joint Label	Load Case/Combo	FX kN	FY kN	FZ kN	MX kN-m	MY kN-m	MZ kN-m
Base	13	Comb3 Min	116.9052	-134.6368	2323.3548	-199.7725	-273.4436	-1.4857
Base	14	Dead Max	-554.1612	-5.3643	3840.5261	6.9182	-13.7901	0
Base	14	Dead Min	-554.1612	-5.3643	3840.5261	6.9182	-13.7901	0
Base	14	Live Max	-53.1649	-0.7285	370.9366	0.9395	-1.8933	0
Base	14	Live Min	-53.1649	-0.7285	370.9366	0.9395	-1.8933	0
Base	14	windx Max	201.6736	15.1883	1970.8151	38.2746	27.9611	3.9649
Base	14	windx Min	-433.4717	-15.9066	-1044.0173	-33.9187	-203.8047	-3.6144
Base	14	Comb1	-775.8257	-7.51	5376.7366	9.6855	-19.3062	0
Base	14	Comb2	-639.2251	-6.53	4434.0247	8.4214	-16.8194	0
Base	14	Comb3 Max	-312.1529	12.8616	6205.5042	52.8477	19.7632	4.7579
Base	14	Comb3 Min	-1074.3273	-24.4522	2587.7053	-33.7842	-258.3557	-4.3372
Base	15	Dead Max	-554.1612	5.3643	3840.5261	-6.9182	-13.7901	0
Base	15	Dead Min	-554.1612	5.3643	3840.5261	-6.9182	-13.7901	0
Base	15	Live Max	-53.1649	0.7285	370.9366	-0.9395	-1.8933	0
Base	15	Live Min	-53.1649	0.7285	370.9366	-0.9395	-1.8933	0
Base	15	windx Max	62.4694	13.8758	1983.5776	38.2706	110.4503	3.9649
Base	15	windx Min	-436.3705	-15.7965	-123.3039	-32.3436	-202.428	-3.6144
Base	15	Comb1	-775.8257	7.51	5376.7366	-9.6855	-19.3062	0
Base	15	Comb2	-639.2251	6.53	4434.0247	-8.4214	-16.8194	0
Base	15	Comb3 Max	-479.198	22.0153	6220.8192	39.0065	118.7502	4.7579
Base	15	Comb3 Min	-1077.8059	-13.5914	3692.5615	-45.7306	-256.7037	-4.3372
Base	16	Dead Max	555.2754	-485.3485	6480.1587	-8.5334	-21.0773	-0.217
Base	16	Dead Min	555.2754	-485.3485	6480.1587	-8.5334	-21.0773	-0.217
Base	16	Live Max	53.36	-43.9709	597.1735	-1.1233	-2.7654	-0.029
Base	16	Live Min	53.36	-43.9709	597.1735	-1.1233	-2.7654	-0.029
Base	16	windx Max	314.2195	513.1813	2860.5304	233.7349	110.2259	0.2842
Base	16	windx Min	-362.8081	-426.091	-3441.4949	-174.9855	-208.886	-2.2626
Base	16	Comb1	777.3856	-679.4879	9072.2222	-11.9467	-29.5083	-0.3039
Base	16	Comb2	640.6515	-555.7019	7435.6362	-10.3306	-25.502	-0.2634
Base	16	Comb3 Max	932.3388	130.469	9912.7952	271.9485	111.1937	0.124
Base	16	Comb3 Min	119.9057	-996.6577	2350.3649	-218.5159	-271.7405	-2.9321

4.3.7 Modal Results

Table 4.13 - Modal Periods and Frequencies

Case	Mode	Period sec	Frequency cyc/sec	Circular Frequency rad/sec	Eigenvalue rad ² /sec ²
Modal	1	2.111	0.474	2.9759	8.8559
Modal	2	1.814	0.551	3.4628	11.9911
Modal	3	1.383	0.723	4.5446	20.6535
Modal	4	0.64	1.563	9.8215	96.4618
Modal	5	0.439	2.277	14.3067	204.681
Modal	6	0.362	2.765	17.3712	301.7601
Modal	7	0.341	2.934	18.4373	339.9353
Modal	8	0.233	4.287	26.9387	725.6909
Modal	9	0.189	5.298	33.2882	1108.1034
Modal	10	0.168	5.966	37.4861	1405.21
Modal	11	0.16	6.237	39.1857	1535.5156
Modal	12	0.127	7.854	49.3474	2435.1633

Table 4.14 - Modal Participating Mass Ratios (Part 1 of 2)

Case	Mode	Period sec	UX	UY	UZ	Sum UX	Sum UY	Sum UZ
Modal	1	2.111	0	0.4691	0	0	0.4691	0
Modal	2	1.814	0.6874	0	0	0.6874	0.4691	0
Modal	3	1.383	0	0.228	0	0.6874	0.6971	0
Modal	4	0.64	0	0.0768	0	0.6874	0.7739	0
Modal	5	0.439	0.1617	0	0	0.8491	0.7739	0
Modal	6	0.362	0	0.0133	0	0.8491	0.7872	0
Modal	7	0.341	0	0.1006	0	0.8491	0.8878	0
Modal	8	0.233	0	0.0066	0	0.8491	0.8944	0
Modal	9	0.189	0.0606	0	0	0.9098	0.8944	0
Modal	10	0.168	0	0.0034	0	0.9098	0.8978	0
Modal	11	0.16	0	0.0405	0	0.9098	0.9383	0
Modal	12	0.127	0	0.0041	0	0.9098	0.9424	0

Table 4.14 - Modal Participating Mass Ratios (Part 2 of 2)

Case	Mode	RX	RY	RZ	Sum RX	Sum RY	Sum RZ
Modal	1	0.1717	0	0.2968	0.1717	0	0.2968
Modal	2	0	0.3317	0	0.1717	0.3317	0.2968
Modal	3	0.1551	0	0.4821	0.3268	0.3317	0.7789
Modal	4	0.1744	0	0.0363	0.5012	0.3317	0.8152
Modal	5	0	0.3101	0	0.5012	0.6417	0.8152
Modal	6	0.0221	0	0.0864	0.5233	0.6417	0.9016
Modal	7	0.1887	0	0.009	0.712	0.6417	0.9105
Modal	8	0.0197	0	0.0157	0.7318	0.6417	0.9263
Modal	9	0	0.1173	0	0.7318	0.759	0.9263
Modal	10	0.0088	0	0.0109	0.7406	0.759	0.9372
Modal	11	0.0855	0	0.0209	0.826	0.759	0.958
Modal	12	0.0115	0	0.0056	0.8375	0.759	0.9636

Table 4.15 - Modal Load Participation Ratios

Case	Item Type	Item	Static %	Dynamic %
Modal	Acceleration	UX	99.98	90.98
Modal	Acceleration	UY	99.99	94.24
Modal	Acceleration	UZ	0	0

Table 4.16 - Modal Direction Factors

Case	Mode	Period sec	UX	UY	RZ
Modal	1	2.111	0	0.62925	0.37075
Modal	2	1.814	1	0	0
Modal	3	1.383	0	0.37923	0.62077
Modal	4	0.64	0	0.436328	0.563672
Modal	5	0.439	1	0	0
Modal	6	0.362	0	0.523728	0.476272
Modal	7	0.341	0	0.410517	0.589483
Modal	8	0.233	0	0.364781	0.635219
Modal	9	0.189	1	0	0
Modal	10	0.168	0	0.344606	0.655394
Modal	11	0.16	0	0.618488	0.381512
Modal	12	0.127	0	0.33144	0.66856

