



178735 Naranjos - Estado Original + ATC

Model File: 178735 Naranjos - Estado Original + ATC, Revision 0
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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 m	Elevation m	Master Story	Similar To	Splice Story
Planta Alta	3.12	5.7	No	Planta Baja	No
Planta Baja	2.58	2.58	Yes	None	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 m	Color
G1	Cartesian	Default	0	0	0	1.25	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	2.89
G1	X	C	Yes	End	3.93
G1	X	D	Yes	End	4.21
G1	X	E	Yes	End	6.06
G1	X	F	Yes	End	7.94
G1	X	G	Yes	End	11.92
G1	X	H	Yes	End	16.03
G1	Y	12	Yes	Start	0
G1	Y	11	Yes	Start	0.71
G1	Y	10	Yes	Start	3.7
G1	Y	9	Yes	Start	6.78
G1	Y	8	Yes	Start	8.47
G1	Y	7	Yes	Start	10.04
G1	Y	6	Yes	Start	10.32
G1	Y	5	Yes	Start	12.73
G1	Y	4	Yes	Start	14.52
G1	Y	3	Yes	Start	15.45
G1	Y	2	Yes	Start	17.5
G1	Y	1	Yes	Start	18.63

1.3 Point Coordinates

Table 1.4 - Joint Coordinates Data

Label	X m	Y m	ΔZ Below m
1	16.03	18.63	0
2	11.92	18.63	0
3	7.94	18.63	0
4	16.03	12.73	0
5	11.92	12.73	0
6	7.94	12.73	0
7	7.94	6.78	0
8	16.03	6.78	0
10	16.03	18.63	1.11
11	11.92	18.63	1.11
12	7.94	18.63	1.11
13	16.03	12.73	1.11
14	11.92	12.73	1.11
15	7.94	12.73	1.11
16	7.94	6.78	1.11
17	16.03	6.78	1.11
18	11.92	6.78	1.11
9	11.92	6.78	0
19	0	17.5	0
20	3.93	17.5	0
21	3.93	18.63	0
22	0	18.63	0
23	3.93	14.52	0
24	7.94	14.52	0
25	3.93	10.32	0
26	7.94	10.32	0
27	7.94	3.7	0
28	3.93	3.7	0
29	7.94	0.71	0
30	11.92	0.71	0
31	16.03	3.7	0
32	16.03	0.71	0
33	3.93	0.71	0
34	0	0.71	0
35	3.93	6.78	0
36	6.06	6.78	0
37	6.06	8.47	0
38	6.06	10.04	0
39	2.89	10.04	0
40	2.89	6.78	0
41	0	15.45	0
42	4.21	15.45	0
43	4.21	12.73	0
44	6.06	12.73	0

Table 1.4 - Joint Coordinates Data (continued)

Label	X m	Y m	ΔZ Below m
45	2.89	12.73	0
46	1.89	12.73	0
47	0	12.73	0
48	0	10.04	0
49	0	6.78	0
50	0	3.7	0
51	2.89	8.47	0
52	11.92	3.7	0
53	0	8.47	0
54	0	14.52	0
55	0	10.32	0
56	3.93	15.45	0
58	4.21	14.52	0
59	3.93	10.04	0
60	3.93	12.73	0
63	0	0	0
64	16.03	0	0
57	6.125	10.05	0
61	7.625	10.05	0
66	7.625	14.75	0
67	6.125	14.75	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	1	10	Below
C10	2	11	Below
C11	3	12	Below
C12	4	13	Below
C13	5	14	Below
C14	6	15	Below
C15	7	16	Below
C16	8	17	Below
C17	21	21	Below
C18	23	23	Below

Table 1.5 - Column Connectivity Data (continued)

Column	I-End Point	J-End Point	I-End Story
C19	24	24	Below
C20	25	25	Below
C21	26	26	Below
C22	9	9	Below
C23	27	27	Below
C24	28	28	Below
C25	29	29	Below
C26	30	30	Below
C27	35	35	Below
C28	17	8	Same
C29	12	3	Same
C30	16	7	Same

Table 1.6 - Beam Connectivity Data

Beam	I-End Point	J-End Point	Curve Type
B13	12	11	None
B14	11	10	None
B15	13	10	None
B16	17	13	None
B17	18	17	None
B18	16	18	None
B19	16	15	None
B20	15	12	None
B21	15	14	None
B22	14	13	None
B23	14	11	None
B24	18	14	None
B1	30	52	None
B2	52	9	None
B4	31	8	None
B5	32	31	None
B6	30	32	None
B7	29	30	None
B8	27	7	None
B9	29	27	None
B10	27	52	None
B11	52	31	None
B12	33	29	None
B25	28	27	None
B26	28	35	None
B27	33	28	None
B28	35	7	None
B29	7	26	None
B30	26	6	None

Table 1.6 - Beam Connectivity Data (continued)

Beam	I-End Point	J-End Point	Curve Type
B31	6	24	None
B32	24	3	None
B3	47	45	None
B33	45	43	None
B34	43	44	None
B36	49	35	None
B37	34	33	None
B40	34	50	None
B41	50	49	None
B42	49	53	None
B43	53	48	None
B44	48	47	None
B45	47	41	None
B46	41	22	None
B35	23	21	None
B38	54	23	None
B39	23	24	None
B47	25	23	None
B48	25	26	None
B49	55	25	None
B50	49	40	None
B51	40	35	None
B52	30	9	None

1.5 Area Connectivity

Table 1.7 - Floor Connectivity Data

Floor	Number of Edges	Edge Number	Point 1	Point 2	Curve Type
F5	4	1	15	14	None
		2	14	11	None
		3	11	12	None
		4	12	15	None
F6	4	1	14	13	None
		2	13	10	None
		3	10	11	None
		4	11	14	None
F7	4	1	16	18	None
		2	18	14	None
		3	14	15	None
		4	15	16	None
F8	4	1	18	17	None
		2	17	13	None
		3	13	14	None
		4	14	18	None

Table 1.7 - Floor Connectivity Data (continued)

Floor	Number of Edges	Edge Number	Point 1	Point 2	Curve Type
F1	9	1	21	20	None
		2	20	56	None
		3	56	42	None
		4	42	43	None
		5	43	44	None
		6	44	6	None
		7	6	24	None
		8	24	3	None
		9	3	21	None
F2	4	1	19	41	None
		2	41	56	None
		3	56	20	None
		4	20	19	None
F3	5	1	41	54	None
		2	54	23	None
		3	23	58	None
		4	58	42	None
		5	42	41	None
F4	7	1	54	47	None
		2	47	46	None
		3	46	45	None
		4	45	43	None
		5	43	58	None
		6	58	23	None
		7	23	54	None
F9	5	1	45	39	None
		2	39	59	None
		3	59	25	None
		4	25	60	None
		5	60	45	None
F11	6	1	60	25	None
		2	25	59	None
		3	59	38	None
		4	38	44	None
		5	44	43	None
		6	43	60	None
F12	7	1	44	6	None
		2	6	26	None
		3	26	7	None
		4	7	36	None
		5	36	37	None
		6	37	38	None
		7	38	44	None
F13	5	1	40	35	None

Table 1.7 - Floor Connectivity Data (continued)

Floor	Number of Edges	Edge Number	Point 1	Point 2	Curve Type
		2	35	36	None
		3	36	37	None
		4	37	51	None
		5	51	40	None
F14	8	1	47	46	None
		2	46	45	None
		3	45	39	None
		4	39	51	None
		5	51	40	None
		6	40	49	None
		7	49	55	None
		8	55	47	None
F15	7	1	49	40	None
		2	40	35	None
		3	35	28	None
		4	28	33	None
		5	33	34	None
		6	34	50	None
		7	50	49	None
F18	5	1	35	36	None
		2	36	7	None
		3	7	27	None
		4	27	28	None
		5	28	35	None
F23	7	1	34	63	None
		2	63	64	None
		3	64	32	None
		4	32	30	None
		5	30	29	None
		6	29	33	None
		7	33	34	None
F24	4	1	33	29	None
		2	29	27	None
		3	27	28	None
		4	28	33	None
F25	4	1	27	52	None
		2	52	9	None
		3	9	7	None
		4	7	27	None
F26	4	1	29	30	None
		2	30	52	None
		3	52	27	None
		4	27	29	None
F27	4	1	52	31	None

Table 1.7 - Floor Connectivity Data (continued)

Floor	Number of Edges	Edge Number	Point 1	Point 2	Curve Type
		2	31	8	None
		3	8	9	None
		4	9	52	None
F28	4	1	30	32	None
		2	32	31	None
		3	31	52	None
		4	52	30	None
F19	5	1	23	24	None
		2	24	6	None
		3	6	26	None
		4	26	25	None
		5	25	23	None
F20	7	1	25	59	None
		2	59	38	None
		3	38	37	None
		4	37	36	None
		5	36	7	None
		6	7	26	None
		7	26	25	None
F21	7	1	55	49	None
		2	49	40	None
		3	40	51	None
		4	51	39	None
		5	39	59	None
		6	59	25	None
		7	25	55	None
F22	8	1	39	59	None
		2	59	38	None
		3	38	37	None
		4	37	36	None
		5	36	35	None
		6	35	40	None
		7	40	51	None
		8	51	39	None
F29	4	1	34	33	None
		2	33	28	None
		3	28	50	None
		4	50	34	None
F30	5	1	49	40	None
		2	40	35	None
		3	35	28	None
		4	28	50	None
		5	50	49	None
F31	4	1	28	33	None

Table 1.7 - Floor Connectivity Data (continued)

Floor	Number of Edges	Edge Number	Point 1	Point 2	Curve Type
		2	33	29	None
		3	29	27	None
		4	27	28	None
F36	4	1	54	23	None
		2	23	21	None
		3	21	22	None
		4	22	54	None
F37	4	1	23	24	None
		2	24	3	None
		3	3	21	None
		4	21	23	None
F38	4	1	55	25	None
		2	25	23	None
		3	23	54	None
		4	54	55	None
F39	4	1	28	27	None
		2	27	7	None
		3	7	35	None
		4	35	28	None
F10	5	1	7	9	None
		2	9	30	None
		3	30	29	None
		4	29	27	None
		5	27	7	None
F16	5	1	9	8	None
		2	8	31	None
		3	31	32	None
		4	32	30	None
		5	30	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	22	21	None	Below	Below
		2	21	21	None	Below	Same
		3	21	22	None	Same	Same
		4	22	22	None	Same	Below
W2	4	1	21	3	None	Below	Below
		2	3	3	None	Below	Same
		3	3	21	None	Same	Same
		4	21	21	None	Same	Below
W3	4	1	3	2	None	Below	Below
		2	2	2	None	Below	Same
		3	2	3	None	Same	Same

Table 1.8 - Wall Connectivity Data (continued)

Label	Number of Edges	Edge Number	Point 1	Point 2	Curve Type	Point 1 Story	Point 2 Story
		4	3	3	None	Same	Below
W4	4	1	2	1	None	Below	Below
		2	1	1	None	Below	Same
		3	1	2	None	Same	Same
		4	2	2	None	Same	Below
W5	4	1	1	4	None	Below	Below
		2	4	4	None	Below	Same
		3	4	1	None	Same	Same
		4	1	1	None	Same	Below
W6	4	1	4	8	None	Below	Below
		2	8	8	None	Below	Same
		3	8	4	None	Same	Same
		4	4	4	None	Same	Below
W7	4	1	8	31	None	Below	Below
		2	31	31	None	Below	Same
		3	31	8	None	Same	Same
		4	8	8	None	Same	Below
W8	4	1	31	32	None	Below	Below
		2	32	32	None	Below	Same
		3	32	31	None	Same	Same
		4	31	31	None	Same	Below
W9	4	1	32	30	None	Below	Below
		2	30	30	None	Below	Same
		3	30	32	None	Same	Same
		4	32	32	None	Same	Below
W10	4	1	30	29	None	Below	Below
		2	29	29	None	Below	Same
		3	29	30	None	Same	Same
		4	30	30	None	Same	Below
W13	4	1	33	28	None	Below	Below
		2	28	28	None	Below	Same
		3	28	33	None	Same	Same
		4	33	33	None	Same	Below
W14	4	1	28	35	None	Below	Below
		2	35	35	None	Below	Same
		3	35	28	None	Same	Same
		4	28	28	None	Same	Below
W15	4	1	35	36	None	Below	Below
		2	36	36	None	Below	Same
		3	36	35	None	Same	Same
		4	35	35	None	Same	Below
W16	4	1	36	7	None	Below	Below
		2	7	7	None	Below	Same
		3	7	36	None	Same	Same

Table 1.8 - Wall Connectivity Data (continued)

Label	Number of Edges	Edge Number	Point 1	Point 2	Curve Type	Point 1 Story	Point 2 Story
		4	36	36	None	Same	Below
W17	4	1	36	37	None	Below	Below
		2	37	37	None	Below	Same
		3	37	36	None	Same	Same
		4	36	36	None	Same	Below
W18	4	1	37	38	None	Below	Below
		2	38	38	None	Below	Same
		3	38	37	None	Same	Same
		4	37	37	None	Same	Below
W19	4	1	38	39	None	Below	Below
		2	39	39	None	Below	Same
		3	39	38	None	Same	Same
		4	38	38	None	Same	Below
W20	4	1	35	40	None	Below	Below
		2	40	40	None	Below	Same
		3	40	35	None	Same	Same
		4	35	35	None	Same	Below
W21	4	1	41	42	None	Below	Below
		2	42	42	None	Below	Same
		3	42	41	None	Same	Same
		4	41	41	None	Same	Below
W22	4	1	42	43	None	Below	Below
		2	43	43	None	Below	Same
		3	43	42	None	Same	Same
		4	42	42	None	Same	Below
W23	4	1	43	44	None	Below	Below
		2	44	44	None	Below	Same
		3	44	43	None	Same	Same
		4	43	43	None	Same	Below
W24	4	1	44	38	None	Below	Below
		2	38	38	None	Below	Same
		3	38	44	None	Same	Same
		4	44	44	None	Same	Below
W25	4	1	39	45	None	Below	Below
		2	45	45	None	Below	Same
		3	45	39	None	Same	Same
		4	39	39	None	Same	Below
W27	4	1	46	47	None	Below	Below
		2	47	47	None	Below	Same
		3	47	46	None	Same	Same
		4	46	46	None	Same	Below
W28	4	1	22	41	None	Below	Below
		2	41	41	None	Below	Same
		3	41	22	None	Same	Same

Table 1.8 - Wall Connectivity Data (continued)

Label	Number of Edges	Edge Number	Point 1	Point 2	Curve Type	Point 1 Story	Point 2 Story
		4	22	22	None	Same	Below
W29	4	1	41	47	None	Below	Below
		2	47	47	None	Below	Same
		3	47	41	None	Same	Same
		4	41	41	None	Same	Below
W30	4	1	47	48	None	Below	Below
		2	48	48	None	Below	Same
		3	48	47	None	Same	Same
		4	47	47	None	Same	Below
W31	4	1	48	49	None	Below	Below
		2	49	49	None	Below	Same
		3	49	48	None	Same	Same
		4	48	48	None	Same	Below
W32	4	1	49	50	None	Below	Below
		2	50	50	None	Below	Same
		3	50	49	None	Same	Same
		4	49	49	None	Same	Below
W33	4	1	50	34	None	Below	Below
		2	34	34	None	Below	Same
		3	34	50	None	Same	Same
		4	50	50	None	Same	Below
W34	4	1	37	51	None	Below	Below
		2	51	51	None	Below	Same
		3	51	37	None	Same	Same
		4	37	37	None	Same	Below
W26	4	1	3	2	None	Below	Below
		2	2	11	None	Below	Same
		3	11	12	None	Same	Same
		4	12	3	None	Same	Below
W35	4	1	2	1	None	Below	Below
		2	1	10	None	Below	Same
		3	10	11	None	Same	Same
		4	11	2	None	Same	Below
W36	4	1	1	4	None	Below	Below
		2	4	13	None	Below	Same
		3	13	10	None	Same	Same
		4	10	1	None	Same	Below
W37	4	1	4	8	None	Below	Below
		2	8	17	None	Below	Same
		3	17	13	None	Same	Same
		4	13	4	None	Same	Below
W38	4	1	49	40	None	Below	Below
		2	40	40	None	Below	Same
		3	40	49	None	Same	Same

Table 1.8 - Wall Connectivity Data (continued)

Label	Number of Edges	Edge Number	Point 1	Point 2	Curve Type	Point 1 Story	Point 2 Story
		4	49	49	None	Same	Below
W39	4	1	40	51	None	Below	Below
		2	51	51	None	Below	Same
		3	51	40	None	Same	Same
		4	40	40	None	Same	Below
W40	4	1	51	39	None	Below	Below
		2	39	39	None	Below	Same
		3	39	51	None	Same	Same
		4	51	51	None	Same	Below
W41	4	1	31	8	None	Below	Below
		2	8	8	None	Below	Same
		3	8	31	None	Same	Same
		4	31	31	None	Same	Below
W11	4	1	7	26	None	Below	Below
		2	26	26	None	Below	Same
		3	26	7	None	Same	Same
		4	7	7	None	Same	Below
W12	4	1	26	6	None	Below	Below
		2	6	6	None	Below	Same
		3	6	26	None	Same	Same
		4	26	26	None	Same	Below
W42	4	1	6	24	None	Below	Below
		2	24	24	None	Below	Same
		3	24	6	None	Same	Same
		4	6	6	None	Same	Below
W43	4	1	24	3	None	Below	Below
		2	3	3	None	Below	Same
		3	3	24	None	Same	Same
		4	24	24	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	6	5	None	Same	Same
		2	5	2	None	Same	Same
		3	2	3	None	Same	Same
		4	3	6	None	Same	Same
A2	4	1	5	4	None	Same	Same
		2	4	1	None	Same	Same
		3	1	2	None	Same	Same
		4	2	5	None	Same	Same
A3	4	1	7	9	None	Same	Same
		2	9	5	None	Same	Same
		3	5	6	None	Same	Same

Table 1.9 - Null Shell Connectivity Data (continued)

Label	Number of Edges	Edge Number	Point 1	Point 2	Curve Type	Point 1 Story	Point 2 Story
A4	4	4	6	7	None	Same	Same
		1	9	8	None	Same	Same
		2	8	4	None	Same	Same
A5	4	3	4	5	None	Same	Same
		4	5	9	None	Same	Same
		1	19	20	None	Same	Same
		2	20	21	None	Same	Same
A6	4	3	21	22	None	Same	Same
		4	22	19	None	Same	Same
		1	51	37	None	Same	Same
		2	37	38	None	Same	Same
A7	4	3	38	39	None	Same	Same
		4	39	51	None	Same	Same
		1	57	61	None	Same	Same
		2	61	66	None	Same	Same
		3	66	67	None	Same	Same
		4	67	57	None	Same	Same

1.6 Mass

Table 1.10 - Mass Source

Name	Include Elements	Include Added Mass	Include Loads	Include Lateral	Include Vertical	Lump at Stories	IsDefault	Load Pattern	Multiplier
Masa Sísmica	No	No	Yes	Yes	No	Yes	Yes	CM	1
Masa Sísmica	No	No	Yes	Yes	No	Yes	Yes	CVI	1

Table 1.11 - Centers of Mass and Rigidity

Story	Diaphragm	Mass X tonf-s ² /m	Mass Y tonf-s ² /m	XCM m	YCM m	Cumulative X tonf-s ² /m	Cumulative Y tonf-s ² /m	XCCM m	YCCM m	XCR m	YCR m
Planta Alta	D1	23.35476	23.35476	7.8129	9.1564	23.35476	23.35476	7.8129	9.1564		
Planta Baja	D1	18.87287	18.87287	6.9192	7.9403	42.22763	42.22763	7.4135	8.6129		

Table 1.12 - Mass Summary by Diaphragm

Story	Diaphragm	Mass X tonf-s ² /m	Mass Y tonf-s ² /m	Mass Moment of Inertia tonf-m-s ²	X Mass Center m	Y Mass Center m
Planta Alta	D1	23.35476	23.35476	1190.035	7.8129	9.1564
Planta Baja	D1	18.87287	18.87287	976.3552	6.9192	7.9403

Table 1.13 - Mass Summary by Story

Story	UX tonf-s ² /m	UY tonf-s ² /m	UZ tonf-s ² /m
Planta Alta	29.43537	29.43537	0
Planta Baja	25.61923	25.61923	0
Base	1.22915	1.22915	0

1.7 Groups**Table 1.14 - Group Definitions**

Name	Color
All	Yellow

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 tonf/m ²	ν	Unit Weight tonf/m ³	Design Strengths
A416Gr270	Tendon	20037484.34	0	7.849	Fy=172322.37 tonf/m ² , Fu=189828.8 tonf/m ²
A615Gr60	Rebar	20389019.16	0.3	7.849	Fy=42184.18 tonf/m ² , Fu=63276.27 tonf/m ²
f _c = 250 Kg/cm ²	Concrete	2213594.4	0.2	2.4	F _c =2500 tonf/m ²
f _y = 4200 Kg/cm ²	Rebar	20000000	0	7.849	Fy=42000 tonf/m ² , Fu=63300 tonf/m ²
Mampostería	Masonry	480000	0.25	1.8	

2.2 Frame Sections

Table 2.2 - Frame Sections - Summary

Name	Material	Shape
COL 40X40	f _c = 250 Kg/cm ²	Concrete Rectangular
TRABE 35X25	f _c = 250 Kg/cm ²	Concrete Rectangular

2.3 Shell Sections

Table 2.3 - Shell Sections - Summary

Name	Design Type	Element Type	Material	Total Thickness m
L. AZOTEA 15 cm	Slab	Shell-Thin	f _c = 250 Kg/cm ²	0.15
L. ENTREPISO 11 cm	Slab	Shell-Thin	f _c = 250 Kg/cm ²	0.11
M.Mamp 15 cm	Wall	Shell-Thin	Mampostería	0.15

2.4 Reinforcement Sizes

Table 2.4 - Reinforcing Bar Sizes

Name	Diameter m	Area m ²
18	0.018	0.000255

2.5 Tendon Sections

Table 2.5 - Tendon Section Properties

Name	Material	StrandArea m ²	Color
Tendon1	A416Gr270	9.9E-05	Aqua

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	Unique Name	Diaphragm	Restraints
Planta Alta	3	61	From Area	
Planta Alta	6	133	From Area	
Planta Alta	7	84	From Area	
Planta Alta	8	63	From Area	
Planta Alta	10	2	From Area	
Planta Alta	11	5	From Area	
Planta Alta	12	8	From Area	
Planta Alta	13	11	From Area	
Planta Alta	14	14	From Area	
Planta Alta	15	17	From Area	
Planta Alta	16	20	From Area	
Planta Alta	17	23	From Area	
Planta Alta	18	27	From Area	
Planta Alta	9	46	From Area	
Planta Alta	21	32	From Area	
Planta Alta	22	60	From Area	
Planta Alta	23	35	From Area	
Planta Alta	24	38	From Area	
Planta Alta	25	41	From Area	
Planta Alta	26	44	From Area	
Planta Alta	27	49	From Area	
Planta Alta	28	52	From Area	
Planta Alta	29	55	From Area	
Planta Alta	30	58	From Area	
Planta Alta	31	68	From Area	
Planta Alta	32	71	From Area	
Planta Alta	33	74	From Area	
Planta Alta	34	77	From Area	
Planta Alta	35	80	From Area	
Planta Alta	36	83	From Area	
Planta Alta	37	87	From Area	
Planta Alta	38	90	From Area	
Planta Alta	39	93	From Area	
Planta Alta	40	62	From Area	
Planta Alta	41	102	From Area	
Planta Alta	47	117	From Area	
Planta Alta	48	120	From Area	
Planta Alta	49	123	From Area	
Planta Alta	50	126	From Area	
Planta Alta	51	129	From Area	
Planta Alta	53	134	From Area	

Table 3.1 - Joint Assignments - Summary (continued)

Story	Label	Unique Name	Diaphragm	Restraints
Planta Alta	54	64	From Area	
Planta Alta	55	65	From Area	
Planta Alta	59	101	From Area	
Planta Alta	63	96	From Area	
Planta Alta	64	105	From Area	
Planta Alta	57	141	From Area	
Planta Alta	61	142	From Area	
Planta Alta	66	143	From Area	
Planta Alta	67	144	From Area	
Planta Baja	1	1	From Area	
Planta Baja	2	4	From Area	
Planta Baja	3	7	From Area	
Planta Baja	4	10	From Area	
Planta Baja	5	13	From Area	
Planta Baja	6	16	From Area	
Planta Baja	7	19	From Area	
Planta Baja	8	22	From Area	
Planta Baja	9	25	From Area	
Planta Baja	19	26	From Area	
Planta Baja	20	28	From Area	
Planta Baja	21	29	From Area	
Planta Baja	22	30	From Area	
Planta Baja	23	34	From Area	
Planta Baja	24	37	From Area	
Planta Baja	25	40	From Area	
Planta Baja	26	43	From Area	
Planta Baja	27	48	From Area	
Planta Baja	28	51	From Area	
Planta Baja	29	54	From Area	
Planta Baja	30	57	From Area	
Planta Baja	31	67	From Area	
Planta Baja	32	70	From Area	
Planta Baja	33	73	From Area	
Planta Baja	34	76	From Area	
Planta Baja	35	79	From Area	
Planta Baja	36	82	From Area	
Planta Baja	37	86	From Area	
Planta Baja	38	89	From Area	
Planta Baja	39	92	From Area	
Planta Baja	40	131	From Area	
Planta Baja	41	100	From Area	
Planta Baja	42	99	From Area	
Planta Baja	43	104	From Area	
Planta Baja	44	107	From Area	
Planta Baja	45	110	From Area	

Table 3.1 - Joint Assignments - Summary (continued)

Story	Label	Unique Name	Diaphragm	Restraints
Planta Baja	46	113	From Area	
Planta Baja	47	116	From Area	
Planta Baja	48	119	From Area	
Planta Baja	49	122	From Area	
Planta Baja	50	125	From Area	
Planta Baja	51	128	From Area	
Planta Baja	52	95	From Area	
Planta Baja	53	94	From Area	
Planta Baja	54	111	From Area	
Planta Baja	55	137	From Area	
Planta Baja	56	108	From Area	
Planta Baja	58	114	From Area	
Planta Baja	59	132	From Area	
Planta Baja	60	135	From Area	
Planta Baja	63	139	From Area	
Planta Baja	64	140	From Area	
Base	1	3	From Area	UX; UY; UZ; RX; RY; RZ
Base	2	6	From Area	UX; UY; UZ; RX; RY; RZ
Base	3	9	From Area	UX; UY; UZ; RX; RY; RZ
Base	4	12	From Area	UX; UY; UZ; RX; RY; RZ
Base	5	15	From Area	UX; UY; UZ; RX; RY; RZ
Base	6	18	From Area	UX; UY; UZ; RX; RY; RZ
Base	7	21	From Area	UX; UY; UZ; RX; RY; RZ
Base	8	24	From Area	UX; UY; UZ; RX; RY; RZ
Base	9	45	From Area	UX; UY; UZ; RX; RY; RZ
Base	21	31	From Area	UX; UY; UZ; RX; RY; RZ
Base	22	59	From Area	UX; UY; UZ; RX; RY; RZ
Base	23	33	From Area	UX; UY; UZ; RX; RY; RZ
Base	24	36	From Area	UX; UY; UZ; RX; RY; RZ
Base	25	39	From Area	UX; UY; UZ; RX; RY; RZ
Base	26	42	From Area	UX; UY; UZ; RX; RY; RZ
Base	27	47	From Area	UX; UY; UZ; RX; RY; RZ
Base	28	50	From Area	UX; UY; UZ; RX; RY; RZ
Base	29	53	From Area	UX; UY; UZ; RX; RY; RZ
Base	30	56	From Area	UX; UY; UZ; RX; RY; RZ
Base	31	66	From Area	UX; UY; UZ; RX; RY; RZ
Base	32	69	From Area	UX; UY; UZ; RX; RY; RZ
Base	33	72	From Area	UX; UY; UZ; RX; RY; RZ
Base	34	75	From Area	UX; UY; UZ; RX; RY; RZ
Base	35	78	From Area	UX; UY; UZ; RX; RY; RZ
Base	36	81	From Area	UX; UY; UZ; RX; RY; RZ
Base	37	85	From Area	UX; UY; UZ; RX; RY; RZ
Base	38	88	From Area	UX; UY; UZ; RX; RY; RZ
Base	39	91	From Area	UX; UY; UZ; RX; RY; RZ
Base	40	130	From Area	UX; UY; UZ; RX; RY; RZ

Table 3.1 - Joint Assignments - Summary (continued)

Story	Label	Unique Name	Diaphragm	Restraints
Base	41	97	From Area	UX; UY; UZ; RX; RY; RZ
Base	42	98	From Area	UX; UY; UZ; RX; RY; RZ
Base	43	103	From Area	UX; UY; UZ; RX; RY; RZ
Base	44	106	From Area	UX; UY; UZ; RX; RY; RZ
Base	45	109	From Area	UX; UY; UZ; RX; RY; RZ
Base	46	112	From Area	UX; UY; UZ; RX; RY; RZ
Base	47	115	From Area	UX; UY; UZ; RX; RY; RZ
Base	48	118	From Area	UX; UY; UZ; RX; RY; RZ
Base	49	121	From Area	UX; UY; UZ; RX; RY; RZ
Base	50	124	From Area	UX; UY; UZ; RX; RY; RZ
Base	51	127	From Area	UX; UY; UZ; RX; RY; RZ

3.2 Frame Assignments**Table 3.2 - Frame Assignments - Summary**

Story	Label	Unique Name	Design Type	Length m	Analysis Section	Design Section	Max Station Spacing m	Min Number Stations
Planta Alta	C9	1	Column	2.01	COL 40X40	COL 40X40		3
Planta Alta	C10	3	Column	2.01	COL 40X40	COL 40X40		3
Planta Alta	C11	5	Column	2.01	COL 40X40	COL 40X40		3
Planta Alta	C12	7	Column	2.01	COL 40X40	COL 40X40		3
Planta Alta	C13	9	Column	2.01	COL 40X40	COL 40X40		3
Planta Alta	C14	11	Column	2.01	COL 40X40	COL 40X40		3
Planta Alta	C15	13	Column	2.01	COL 40X40	COL 40X40		3
Planta Alta	C16	15	Column	2.01	COL 40X40	COL 40X40		3
Planta Alta	C17	18	Column	3.12	COL 40X40	COL 40X40		3
Planta Alta	C18	20	Column	3.12	COL 40X40	COL 40X40		3
Planta Alta	C19	22	Column	3.12	COL 40X40	COL 40X40		3
Planta Alta	C20	24	Column	3.12	COL 40X40	COL 40X40		3
Planta Alta	C21	26	Column	3.12	COL 40X40	COL 40X40		3
Planta Alta	C22	28	Column	3.12	COL 40X40	COL 40X40		3
Planta Alta	C23	30	Column	3.12	COL 40X40	COL 40X40		3
Planta Alta	C24	32	Column	3.12	COL 40X40	COL 40X40		3
Planta Alta	C25	34	Column	3.12	COL 40X40	COL 40X40		3
Planta Alta	C26	36	Column	3.12	COL 40X40	COL 40X40		3
Planta Alta	C27	38	Column	3.12	COL 40X40	COL 40X40		3
Planta Alta	C28	54	Column	1.11	COL 40X40	COL 40X40		3
Planta Alta	C29	96	Column	1.11	COL 40X40	COL 40X40		3
Planta Alta	C30	103	Column	1.11	COL 40X40	COL 40X40		3
Planta Baja	C1	2	Column	2.58	COL 40X40	COL 40X40		3
Planta Baja	C2	4	Column	2.58	COL 40X40	COL 40X40		3
Planta Baja	C3	6	Column	2.58	COL 40X40	COL 40X40		3
Planta Baja	C4	8	Column	2.58	COL 40X40	COL 40X40		3
Planta Baja	C5	10	Column	2.58	COL 40X40	COL 40X40		3

Table 3.2 - Frame Assignments - Summary (continued)

Story	Label	Unique Name	Design Type	Length m	Analysis Section	Design Section	Max Station Spacing m	Min Number Stations
Planta Baja	C6	12	Column	2.58	COL 40X40	COL 40X40		3
Planta Baja	C7	14	Column	2.58	COL 40X40	COL 40X40		3
Planta Baja	C8	16	Column	2.58	COL 40X40	COL 40X40		3
Planta Baja	C17	17	Column	2.58	COL 40X40	COL 40X40		3
Planta Baja	C18	19	Column	2.58	COL 40X40	COL 40X40		3
Planta Baja	C19	21	Column	2.58	COL 40X40	COL 40X40		3
Planta Baja	C20	23	Column	2.58	COL 40X40	COL 40X40		3
Planta Baja	C21	25	Column	2.58	COL 40X40	COL 40X40		3
Planta Baja	C22	27	Column	2.58	COL 40X40	COL 40X40		3
Planta Baja	C23	29	Column	2.58	COL 40X40	COL 40X40		3
Planta Baja	C24	31	Column	2.58	COL 40X40	COL 40X40		3
Planta Baja	C25	33	Column	2.58	COL 40X40	COL 40X40		3
Planta Baja	C26	35	Column	2.58	COL 40X40	COL 40X40		3
Planta Baja	C27	37	Column	2.58	COL 40X40	COL 40X40		3
Planta Alta	B13	41	Beam	3.98	TRABE 35X25	TRABE 35X25	0.5	
Planta Alta	B14	42	Beam	4.11	TRABE 35X25	TRABE 35X25	0.5	
Planta Alta	B15	43	Beam	5.9	TRABE 35X25	TRABE 35X25	0.5	
Planta Alta	B16	44	Beam	5.95	TRABE 35X25	TRABE 35X25	0.5	
Planta Alta	B17	45	Beam	4.11	TRABE 35X25	TRABE 35X25	0.5	
Planta Alta	B18	46	Beam	3.98	TRABE 35X25	TRABE 35X25	0.5	
Planta Alta	B19	47	Beam	5.95	TRABE 35X25	TRABE 35X25	0.5	
Planta Alta	B20	48	Beam	5.9	TRABE 35X25	TRABE 35X25	0.5	
Planta Alta	B21	49	Beam	3.98	TRABE 35X25	TRABE 35X25	0.5	
Planta Alta	B22	50	Beam	4.11	TRABE 35X25	TRABE 35X25	0.5	
Planta Alta	B23	51	Beam	5.9	TRABE 35X25	TRABE 35X25	0.5	
Planta Alta	B24	52	Beam	5.95	TRABE 35X25	TRABE 35X25	0.5	
Planta Alta	B4	40	Beam	3.08	TRABE 35X25	TRABE 35X25	0.5	
Planta Alta	B5	65	Beam	2.99	TRABE 35X25	TRABE 35X25	0.5	
Planta Alta	B6	63	Beam	4.11	TRABE 35X25	TRABE 35X25	0.5	
Planta Alta	B7	73	Beam	3.98	TRABE 35X25	TRABE 35X25	0.5	
Planta Alta	B8	69	Beam	3.08	TRABE 35X25	TRABE 35X25	0.5	
Planta Alta	B9	71	Beam	2.99	TRABE 35X25	TRABE 35X25	0.5	
Planta Alta	B12	79	Beam	4.01	TRABE 35X25	TRABE 35X25	0.5	
Planta Alta	B25	81	Beam	4.01	TRABE 35X25	TRABE 35X25	0.5	
Planta Alta	B26	83	Beam	3.08	TRABE 35X25	TRABE 35X25	0.5	
Planta Alta	B27	85	Beam	2.99	TRABE 35X25	TRABE 35X25	0.5	
Planta Alta	B28	87	Beam	4.01	TRABE 35X25	TRABE 35X25	0.5	
Planta Alta	B29	89	Beam	3.54	TRABE 35X25	TRABE 35X25	0.5	
Planta Alta	B30	91	Beam	2.41	TRABE 35X25	TRABE 35X25	0.5	
Planta Alta	B31	93	Beam	1.79	TRABE 35X25	TRABE 35X25	0.5	
Planta Alta	B32	95	Beam	4.11	TRABE 35X25	TRABE 35X25	0.5	
Planta Alta	B37	100	Beam	3.93	TRABE 35X25	TRABE 35X25	0.5	
Planta Alta	B40	106	Beam	2.99	TRABE 35X25	TRABE 35X25	0.5	
Planta Alta	B41	108	Beam	3.08	TRABE 35X25	TRABE 35X25	0.5	

Table 3.2 - Frame Assignments - Summary (continued)

Story	Label	Unique Name	Design Type	Length m	Analysis Section	Design Section	Max Station Spacing m	Min Number Stations
Planta Alta	B42	110	Beam	1.69	TRABE 35X25	TRABE 35X25	0.5	
Planta Alta	B43	112	Beam	1.57	TRABE 35X25	TRABE 35X25	0.5	
Planta Alta	B44	114	Beam	2.69	TRABE 35X25	TRABE 35X25	0.5	
Planta Alta	B45	116	Beam	2.72	TRABE 35X25	TRABE 35X25	0.5	
Planta Alta	B46	118	Beam	3.18	TRABE 35X25	TRABE 35X25	0.5	
Planta Alta	B35	56	Beam	4.11	TRABE 35X25	TRABE 35X25	0.5	
Planta Alta	B38	57	Beam	3.93	TRABE 35X25	TRABE 35X25	0.5	
Planta Alta	B39	67	Beam	4.01	TRABE 35X25	TRABE 35X25	0.5	
Planta Alta	B47	98	Beam	4.2	TRABE 35X25	TRABE 35X25	0.5	
Planta Alta	B48	101	Beam	4.01	TRABE 35X25	TRABE 35X25	0.5	
Planta Alta	B49	102	Beam	3.93	TRABE 35X25	TRABE 35X25	0.5	
Planta Alta	B50	104	Beam	2.89	TRABE 35X25	TRABE 35X25	0.5	
Planta Alta	B51	119	Beam	1.04	TRABE 35X25	TRABE 35X25	0.5	
Planta Alta	B52	120	Beam	6.07	TRABE 35X25	TRABE 35X25	0.5	
Planta Baja	B1	60	Beam	2.99	TRABE 35X25	TRABE 35X25	0.5	
Planta Baja	B2	58	Beam	3.08	TRABE 35X25	TRABE 35X25	0.5	
Planta Baja	B4	66	Beam	3.08	TRABE 35X25	TRABE 35X25	0.5	
Planta Baja	B5	64	Beam	2.99	TRABE 35X25	TRABE 35X25	0.5	
Planta Baja	B6	62	Beam	4.11	TRABE 35X25	TRABE 35X25	0.5	
Planta Baja	B7	72	Beam	3.98	TRABE 35X25	TRABE 35X25	0.5	
Planta Baja	B8	68	Beam	3.08	TRABE 35X25	TRABE 35X25	0.5	
Planta Baja	B9	70	Beam	2.99	TRABE 35X25	TRABE 35X25	0.5	
Planta Baja	B10	74	Beam	3.98	TRABE 35X25	TRABE 35X25	0.5	
Planta Baja	B11	76	Beam	4.11	TRABE 35X25	TRABE 35X25	0.5	
Planta Baja	B12	78	Beam	4.01	TRABE 35X25	TRABE 35X25	0.5	
Planta Baja	B25	80	Beam	4.01	TRABE 35X25	TRABE 35X25	0.5	
Planta Baja	B26	82	Beam	3.08	TRABE 35X25	TRABE 35X25	0.5	
Planta Baja	B27	84	Beam	2.99	TRABE 35X25	TRABE 35X25	0.5	
Planta Baja	B28	86	Beam	4.01	TRABE 35X25	TRABE 35X25	0.5	
Planta Baja	B29	88	Beam	3.54	TRABE 35X25	TRABE 35X25	0.5	
Planta Baja	B30	90	Beam	2.41	TRABE 35X25	TRABE 35X25	0.5	
Planta Baja	B31	92	Beam	1.79	TRABE 35X25	TRABE 35X25	0.5	
Planta Baja	B32	94	Beam	4.11	TRABE 35X25	TRABE 35X25	0.5	
Planta Baja	B3	39	Beam	2.89	TRABE 35X25	TRABE 35X25	0.5	
Planta Baja	B33	53	Beam	1.32	TRABE 35X25	TRABE 35X25	0.5	
Planta Baja	B34	55	Beam	1.85	TRABE 35X25	TRABE 35X25	0.5	
Planta Baja	B36	97	Beam	3.93	TRABE 35X25	TRABE 35X25	0.5	
Planta Baja	B37	99	Beam	3.93	TRABE 35X25	TRABE 35X25	0.5	
Planta Baja	B40	105	Beam	2.99	TRABE 35X25	TRABE 35X25	0.5	
Planta Baja	B41	107	Beam	3.08	TRABE 35X25	TRABE 35X25	0.5	
Planta Baja	B42	109	Beam	1.69	TRABE 35X25	TRABE 35X25	0.5	
Planta Baja	B43	111	Beam	1.57	TRABE 35X25	TRABE 35X25	0.5	
Planta Baja	B44	113	Beam	2.69	TRABE 35X25	TRABE 35X25	0.5	
Planta Baja	B45	115	Beam	2.72	TRABE 35X25	TRABE 35X25	0.5	

Table 3.2 - Frame Assignments - Summary (continued)

Story	Label	Unique Name	Design Type	Length m	Analysis Section	Design Section	Max Station Spacing m	Min Number Stations
Planta Baja	B46	117	Beam	3.18	TRABE 35X25	TRABE 35X25	0.5	

3.3 Shell Assignments**Table 3.3 - Shell Assignments - Summary**

Story	Label	Unique Name	Section	Diaphragm
Planta Alta	W1	11	M.Mamp 15 cm	
Planta Alta	W2	13	M.Mamp 15 cm	
Planta Alta	W8	25	M.Mamp 15 cm	
Planta Alta	W9	27	M.Mamp 15 cm	
Planta Alta	W10	29	M.Mamp 15 cm	
Planta Alta	W13	35	M.Mamp 15 cm	
Planta Alta	W14	37	M.Mamp 15 cm	
Planta Alta	W15	39	M.Mamp 15 cm	
Planta Alta	W16	41	M.Mamp 15 cm	
Planta Alta	W17	43	M.Mamp 15 cm	
Planta Alta	W18	45	M.Mamp 15 cm	
Planta Alta	W19	47	M.Mamp 15 cm	
Planta Alta	W28	65	M.Mamp 15 cm	
Planta Alta	W29	67	M.Mamp 15 cm	
Planta Alta	W30	69	M.Mamp 15 cm	
Planta Alta	W31	71	M.Mamp 15 cm	
Planta Alta	W32	73	M.Mamp 15 cm	
Planta Alta	W33	75	M.Mamp 15 cm	
Planta Alta	W26	15	M.Mamp 15 cm	
Planta Alta	W35	17	M.Mamp 15 cm	
Planta Alta	W36	19	M.Mamp 15 cm	
Planta Alta	W37	21	M.Mamp 15 cm	
Planta Alta	W38	23	M.Mamp 15 cm	
Planta Alta	W39	26	M.Mamp 15 cm	
Planta Alta	W40	28	M.Mamp 15 cm	
Planta Alta	W41	31	M.Mamp 15 cm	
Planta Baja	W1	10	M.Mamp 15 cm	
Planta Baja	W2	12	M.Mamp 15 cm	
Planta Baja	W3	14	M.Mamp 15 cm	
Planta Baja	W4	16	M.Mamp 15 cm	
Planta Baja	W5	18	M.Mamp 15 cm	
Planta Baja	W6	20	M.Mamp 15 cm	
Planta Baja	W7	22	M.Mamp 15 cm	
Planta Baja	W8	24	M.Mamp 15 cm	
Planta Baja	W13	34	M.Mamp 15 cm	
Planta Baja	W14	36	M.Mamp 15 cm	
Planta Baja	W15	38	M.Mamp 15 cm	

Table 3.3 - Shell Assignments - Summary (continued)

Story	Label	Unique Name	Section	Diaphragm
Planta Baja	W17	42	M.Mamp 15 cm	
Planta Baja	W18	44	M.Mamp 15 cm	
Planta Baja	W19	46	M.Mamp 15 cm	
Planta Baja	W20	78	M.Mamp 15 cm	
Planta Baja	W21	50	M.Mamp 15 cm	
Planta Baja	W22	52	M.Mamp 15 cm	
Planta Baja	W23	54	M.Mamp 15 cm	
Planta Baja	W24	56	M.Mamp 15 cm	
Planta Baja	W25	58	M.Mamp 15 cm	
Planta Baja	W27	62	M.Mamp 15 cm	
Planta Baja	W28	64	M.Mamp 15 cm	
Planta Baja	W29	66	M.Mamp 15 cm	
Planta Baja	W30	68	M.Mamp 15 cm	
Planta Baja	W31	70	M.Mamp 15 cm	
Planta Baja	W32	72	M.Mamp 15 cm	
Planta Baja	W33	74	M.Mamp 15 cm	
Planta Baja	W34	76	M.Mamp 15 cm	
Planta Baja	W11	96	M.Mamp 15 cm	
Planta Baja	W12	97	M.Mamp 15 cm	
Planta Baja	W42	98	M.Mamp 15 cm	
Planta Baja	W43	99	M.Mamp 15 cm	
Planta Alta	F5	3	L. AZOTEA 15 cm	D1
Planta Alta	F6	4	L. AZOTEA 15 cm	D1
Planta Alta	F7	5	L. AZOTEA 15 cm	D1
Planta Alta	F8	6	L. AZOTEA 15 cm	D1
Planta Alta	F23	95	L. AZOTEA 15 cm	D1
Planta Alta	F19	57	L. AZOTEA 15 cm	D1
Planta Alta	F20	79	L. AZOTEA 15 cm	D1
Planta Alta	F21	87	L. AZOTEA 15 cm	D1
Planta Alta	F22	89	L. AZOTEA 15 cm	D1
Planta Alta	F29	90	L. AZOTEA 15 cm	D1
Planta Alta	F30	91	L. AZOTEA 15 cm	D1
Planta Alta	F31	92	L. AZOTEA 15 cm	D1
Planta Alta	F36	30	L. AZOTEA 15 cm	D1
Planta Alta	F37	51	L. AZOTEA 15 cm	D1
Planta Alta	F38	55	L. AZOTEA 15 cm	D1
Planta Alta	F39	93	L. AZOTEA 15 cm	D1
Planta Alta	F10	88	L. AZOTEA 15 cm	D1
Planta Alta	F16	94	L. AZOTEA 15 cm	D1
Planta Baja	F1	33	L. ENTREPISO 11 cm	D1
Planta Baja	F2	40	L. ENTREPISO 11 cm	D1
Planta Baja	F3	48	L. ENTREPISO 11 cm	D1
Planta Baja	F4	49	L. ENTREPISO 11 cm	D1
Planta Baja	F9	53	L. ENTREPISO 11 cm	D1
Planta Baja	F11	59	L. ENTREPISO 11 cm	D1

Table 3.3 - Shell Assignments - Summary (continued)

Story	Label	Unique Name	Section	Diaphragm
Planta Baja	F12	60	L. ENTREPISO 11 cm	D1
Planta Baja	F13	61	L. ENTREPISO 11 cm	D1
Planta Baja	F14	63	L. ENTREPISO 11 cm	D1
Planta Baja	F15	77	L. ENTREPISO 11 cm	D1
Planta Baja	F18	81	L. ENTREPISO 11 cm	D1
Planta Baja	F23	86	L. ENTREPISO 11 cm	D1
Planta Baja	F24	80	L. ENTREPISO 11 cm	D1
Planta Baja	F25	82	L. ENTREPISO 11 cm	D1
Planta Baja	F26	83	L. ENTREPISO 11 cm	D1
Planta Baja	F27	84	L. ENTREPISO 11 cm	D1
Planta Baja	F28	85	L. ENTREPISO 11 cm	D1

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
CM	Dead	1
CVM	Live	0
CVI	Live	0
CMTorre	Dead	0

4.2 Applied Loads

4.2.1 Point Loads

Table 4.2 - Joint Loads - Force

Story	Label	Unique Name	Load Pattern	FX tonf	FY tonf	FZ tonf	MX tonf-m	MY tonf-m	MZ tonf-m	XDim m	YDim m
Planta Alta	3	61	CMTorre	0.7338	-1.0004	1.9614	0	0	0	0	0
Planta Alta	7	84	CMTorre	0.6626	1.0005	1.7469	0	0	0	0	0
Planta Alta	8	63	CMTorre	-0.6454	0.9491	1.9087	0	0	0	0	0
Planta Alta	10	2	CMTorre	0.7042	-0.9324	1.9122	0	0	0	0	0
Planta Alta	14	14	CMTorre	-0.0466	-0.0167	-11.8814	0	0	0	0	0

4.2.2 Area Loads

Table 4.3 - Shell Loads - Uniform

Story	Label	Unique Name	Load Pattern	Direction	Load tonf/m ²
Planta Alta	F5	3	CM	Gravity	0.216
Planta Alta	F6	4	CM	Gravity	0.216
Planta Alta	F7	5	CM	Gravity	0.216
Planta Alta	F8	6	CM	Gravity	0.216
Planta Alta	F23	95	CM	Gravity	0.216
Planta Alta	F19	57	CM	Gravity	0.216
Planta Alta	F20	79	CM	Gravity	0.216
Planta Alta	F21	87	CM	Gravity	0.216
Planta Alta	F22	89	CM	Gravity	0.315
Planta Alta	F29	90	CM	Gravity	0.216
Planta Alta	F30	91	CM	Gravity	0.216
Planta Alta	F31	92	CM	Gravity	0.216
Planta Alta	F36	30	CM	Gravity	0.216
Planta Alta	F37	51	CM	Gravity	0.216
Planta Alta	F38	55	CM	Gravity	0.216
Planta Alta	F39	93	CM	Gravity	0.216
Planta Alta	F10	88	CM	Gravity	0.216
Planta Alta	F16	94	CM	Gravity	0.216
Planta Baja	F1	33	CM	Gravity	0.116

Table 4.3 - Shell Loads - Uniform (continued)

Story	Label	Unique Name	Load Pattern	Direction	Load tonf/m ²
Planta Baja	F2	40	CM	Gravity	0.116
Planta Baja	F3	48	CM	Gravity	0.116
Planta Baja	F4	49	CM	Gravity	0.116
Planta Baja	F9	53	CM	Gravity	0.116
Planta Baja	F11	59	CM	Gravity	0.116
Planta Baja	F12	60	CM	Gravity	0.116
Planta Baja	F13	61	CM	Gravity	0.116
Planta Baja	F14	63	CM	Gravity	0.116
Planta Baja	F15	77	CM	Gravity	0.116
Planta Baja	F18	81	CM	Gravity	0.116
Planta Baja	F23	86	CM	Gravity	0.116
Planta Baja	F24	80	CM	Gravity	0.116
Planta Baja	F25	82	CM	Gravity	0.116
Planta Baja	F26	83	CM	Gravity	0.116
Planta Baja	F27	84	CM	Gravity	0.116
Planta Baja	F28	85	CM	Gravity	0.116
Planta Alta	F5	3	CVM	Gravity	0.1
Planta Alta	F6	4	CVM	Gravity	0.1
Planta Alta	F7	5	CVM	Gravity	0.1
Planta Alta	F8	6	CVM	Gravity	0.1
Planta Alta	F23	95	CVM	Gravity	0.1
Planta Alta	F19	57	CVM	Gravity	0.1
Planta Alta	F20	79	CVM	Gravity	0.1
Planta Alta	F21	87	CVM	Gravity	0.1
Planta Alta	F22	89	CVM	Gravity	0.1
Planta Alta	F29	90	CVM	Gravity	0.1
Planta Alta	F30	91	CVM	Gravity	0.1
Planta Alta	F31	92	CVM	Gravity	0.1
Planta Alta	F36	30	CVM	Gravity	0.1
Planta Alta	F37	51	CVM	Gravity	0.1
Planta Alta	F38	55	CVM	Gravity	0.1
Planta Alta	F39	93	CVM	Gravity	0.1
Planta Alta	F10	88	CVM	Gravity	0.1
Planta Alta	F16	94	CVM	Gravity	0.1
Planta Baja	F1	33	CVM	Gravity	0.35
Planta Baja	F2	40	CVM	Gravity	0.35
Planta Baja	F3	48	CVM	Gravity	0.35
Planta Baja	F4	49	CVM	Gravity	0.35
Planta Baja	F9	53	CVM	Gravity	0.35
Planta Baja	F11	59	CVM	Gravity	0.35
Planta Baja	F12	60	CVM	Gravity	0.35
Planta Baja	F13	61	CVM	Gravity	0.35
Planta Baja	F14	63	CVM	Gravity	0.35
Planta Baja	F15	77	CVM	Gravity	0.35
Planta Baja	F18	81	CVM	Gravity	0.35

Table 4.3 - Shell Loads - Uniform (continued)

Story	Label	Unique Name	Load Pattern	Direction	Load tonf/m ²
Planta Baja	F23	86	CVM	Gravity	0.35
Planta Baja	F24	80	CVM	Gravity	0.35
Planta Baja	F25	82	CVM	Gravity	0.35
Planta Baja	F26	83	CVM	Gravity	0.35
Planta Baja	F27	84	CVM	Gravity	0.35
Planta Baja	F28	85	CVM	Gravity	0.35
Planta Alta	F5	3	CVI	Gravity	0.07
Planta Alta	F6	4	CVI	Gravity	0.07
Planta Alta	F7	5	CVI	Gravity	0.07
Planta Alta	F8	6	CVI	Gravity	0.07
Planta Alta	F23	95	CVI	Gravity	0.07
Planta Alta	F19	57	CVI	Gravity	0.07
Planta Alta	F20	79	CVI	Gravity	0.07
Planta Alta	F21	87	CVI	Gravity	0.07
Planta Alta	F22	89	CVI	Gravity	0.07
Planta Alta	F29	90	CVI	Gravity	0.07
Planta Alta	F30	91	CVI	Gravity	0.07
Planta Alta	F31	92	CVI	Gravity	0.07
Planta Alta	F36	30	CVI	Gravity	0.07
Planta Alta	F37	51	CVI	Gravity	0.07
Planta Alta	F38	55	CVI	Gravity	0.07
Planta Alta	F39	93	CVI	Gravity	0.07
Planta Alta	F10	88	CVI	Gravity	0.07
Planta Alta	F16	94	CVI	Gravity	0.07
Planta Baja	F1	33	CVI	Gravity	0.315
Planta Baja	F2	40	CVI	Gravity	0.315
Planta Baja	F3	48	CVI	Gravity	0.315
Planta Baja	F4	49	CVI	Gravity	0.315
Planta Baja	F9	53	CVI	Gravity	0.315
Planta Baja	F11	59	CVI	Gravity	0.315
Planta Baja	F12	60	CVI	Gravity	0.315
Planta Baja	F13	61	CVI	Gravity	0.35
Planta Baja	F14	63	CVI	Gravity	0.315
Planta Baja	F15	77	CVI	Gravity	0.315
Planta Baja	F18	81	CVI	Gravity	0.315
Planta Baja	F23	86	CVI	Gravity	0.315
Planta Baja	F24	80	CVI	Gravity	0.315
Planta Baja	F25	82	CVI	Gravity	0.315
Planta Baja	F26	83	CVI	Gravity	0.315
Planta Baja	F27	84	CVI	Gravity	0.315
Planta Baja	F28	85	CVI	Gravity	0.315
Planta Alta	A7	100	CMTorre	Gravity	0.342

4.3 Functions

4.3.1 Response Spectrum Functions

Table 4.4 - Response Spectrum Function - User

Name	Period sec	Acceleration	Damping %
PRODISIS	0	0.0122	5
PRODISIS	0.1	0.0452	
PRODISIS	0.2	0.0444	
PRODISIS	0.3	0.0401	
PRODISIS	0.4	0.0366	
PRODISIS	0.5	0.0336	
PRODISIS	0.6	0.0311	
PRODISIS	0.7	0.028	
PRODISIS	0.8	0.0257	
PRODISIS	0.9	0.024	
PRODISIS	1	0.0226	
PRODISIS	1.1	0.0214	
PRODISIS	1.2	0.0204	
PRODISIS	1.3	0.0195	
PRODISIS	1.4	0.0188	
PRODISIS	1.5	0.0181	
PRODISIS	1.6	0.0175	
PRODISIS	1.7	0.017	
PRODISIS	1.8	0.0165	
PRODISIS	1.9	0.016	
PRODISIS	2	0.0156	
PRODISIS	2.1	0.0148	
PRODISIS	2.2	0.014	
PRODISIS	2.3	0.0132	
PRODISIS	2.4	0.0125	
PRODISIS	2.5	0.0117	
PRODISIS	2.6	0.0111	
PRODISIS	2.7	0.0104	
PRODISIS	2.8	0.009866	
PRODISIS	2.9	0.009323	
PRODISIS	3	0.008817	
PRODISIS	3.1	0.008347	
PRODISIS	3.2	0.007909	
PRODISIS	3.3	0.007502	
PRODISIS	3.4	0.007123	
PRODISIS	3.5	0.006771	
PRODISIS	3.6	0.006442	
PRODISIS	3.7	0.006135	
PRODISIS	3.8	0.005848	
PRODISIS	3.9	0.00558	
PRODISIS	4	0.005329	
PRODISIS	4.1	0.005094	
PRODISIS	4.2	0.004874	
PRODISIS	4.3	0.004667	

Table 4.4 - Response Spectrum Function - User (continued)

Name	Period sec	Acceleration	Damping %
PRODISIS	4.4	0.004472	
PRODISIS	4.5	0.004289	
PRODISIS	4.6	0.004117	
PRODISIS	4.7	0.003955	
PRODISIS	4.8	0.003801	
PRODISIS	4.9	0.003657	
PRODISIS	5	0.00352	

4.4 Load Cases

Table 4.5 - Load Cases - Summary

Name	Type
CM	Linear Static
CMTorre	Linear Static
CVM	Linear Static
CVI	Linear Static
SX	Response Spectrum
SY	Response Spectrum

4.5 Load Combinations

Table 4.6 - Load Combinations

Name	Load Case/Combo	Scale Factor	Type	Auto
10 PP+CM+CMTorre+CVM	CM	1	Linear Add	No
10 PP+CM+CMTorre+CVM	CVM	1		No
10 PP+CM+CMTorre+CVM	CMTorre	1		No
11 PP+CM+CMTorre+CVI+SX+0.3SY	CM	1	Linear Add	No
11 PP+CM+CMTorre+CVI+SX+0.3SY	CVI	1		No
11 PP+CM+CMTorre+CVI+SX+0.3SY	SX	1		No
11 PP+CM+CMTorre+CVI+SX+0.3SY	SY	0.3		No
11 PP+CM+CMTorre+CVI+SX+0.3SY	CMTorre	1		No
12 PP+CM+CMTorre+CVI+SX-0.3SY	CM	1	Linear Add	No
12 PP+CM+CMTorre+CVI+SX-0.3SY	CVI	1		No
12 PP+CM+CMTorre+CVI+SX-0.3SY	SX	1		No
12 PP+CM+CMTorre+CVI+SX-0.3SY	SY	-0.3		No
12 PP+CM+CMTorre+CVI+SX-0.3SY	CMTorre	1		No
13 PP+CM+CMTorre+CVI-SX+0.3SY	CM	1	Linear Add	No
13 PP+CM+CMTorre+CVI-SX+0.3SY	CVI	1		No
13 PP+CM+CMTorre+CVI-SX+0.3SY	SX	-1		No
13 PP+CM+CMTorre+CVI-SX+0.3SY	SY	0.3		No
13 PP+CM+CMTorre+CVI-SX+0.3SY	CMTorre	1		No
14 PP+CM+CMTorre+CVI-SX-0.3SY	CM	1	Linear Add	No
14 PP+CM+CMTorre+CVI-SX-0.3SY	CVI	1		No
14 PP+CM+CMTorre+CVI-SX-0.3SY	SX	-1		No
14 PP+CM+CMTorre+CVI-SX-0.3SY	SY	-0.3		No

Table 4.6 - Load Combinations (continued)

Name	Load Case/Combo	Scale Factor	Type	Auto
14 PP+CM+CMTorre+CVI-SX-0.3SY	CMTorre	1		No
15 PP+CM+CMTorre+CVI+SY+0.3SX	CM	1	Linear Add	No
15 PP+CM+CMTorre+CVI+SY+0.3SX	CVI	1		No
15 PP+CM+CMTorre+CVI+SY+0.3SX	SY	1		No
15 PP+CM+CMTorre+CVI+SY+0.3SX	SX	0.3		No
15 PP+CM+CMTorre+CVI+SY+0.3SX	CMTorre	1		No
16 PP+CM+CMTorre+CVI+SY-0.3SX	CM	1	Linear Add	No
16 PP+CM+CMTorre+CVI+SY-0.3SX	CVI	1		No
16 PP+CM+CMTorre+CVI+SY-0.3SX	SY	1		No
16 PP+CM+CMTorre+CVI+SY-0.3SX	SX	-0.3		No
16 PP+CM+CMTorre+CVI+SY-0.3SX	CMTorre	1		No
17 PP+CM+CMTorre+CVI-SY+0.3SX	CM	1	Linear Add	No
17 PP+CM+CMTorre+CVI-SY+0.3SX	CVI	1		No
17 PP+CM+CMTorre+CVI-SY+0.3SX	SY	-1		No
17 PP+CM+CMTorre+CVI-SY+0.3SX	SX	0.3		No
17 PP+CM+CMTorre+CVI-SY+0.3SX	CMTorre	1		No
18 PP+CM+CMTorre+CVI-SY-0.3SX	CM	1	Linear Add	No
18 PP+CM+CMTorre+CVI-SY-0.3SX	CVI	1		No
18 PP+CM+CMTorre+CVI-SY-0.3SX	SY	-1		No
18 PP+CM+CMTorre+CVI-SY-0.3SX	SX	-0.3		No
18 PP+CM+CMTorre+CVI-SY-0.3SX	CMTorre	1		No
20 1.5PP+1.5CM+1.5CMTorre+1.7CVM	CM	1.5	Linear Add	No
20 1.5PP+1.5CM+1.5CMTorre+1.7CVM	CVM	1.7		No
20 1.5PP+1.5CM+1.5CMTorre+1.7CVM	CMTorre	1.5		No
21 1.1PP+1.1CM+1.1CMTorre+1.1CVI+1.1SX+0.33SY)	CM	1.1	Linear Add	No
21 1.1PP+1.1CM+1.1CMTorre+1.1CVI+1.1SX+0.33SY)	CVI	1.1		No
21 1.1PP+1.1CM+1.1CMTorre+1.1CVI+1.1SX+0.33SY)	SX	1.1		No
21 1.1PP+1.1CM+1.1CMTorre+1.1CVI+1.1SX+0.33SY)	SY	0.33		No
21 1.1PP+1.1CM+1.1CMTorre+1.1CVI+1.1SX+0.33SY)	CMTorre	1.1		No
22 1.1PP+1.1CM+1.1CMTorre+1.1CVI+1.1SX-0.33SY)	CM	1.1	Linear Add	No
22 1.1PP+1.1CM+1.1CMTorre+1.1CVI+1.1SX-0.33SY)	CVI	1.1		No
22 1.1PP+1.1CM+1.1CMTorre+1.1CVI+1.1SX-0.33SY)	SX	1.1		No
22 1.1PP+1.1CM+1.1CMTorre+1.1CVI+1.1SX-0.33SY)	SY	-0.33		No
22 1.1PP+1.1CM+1.1CMTorre+1.1CVI+1.1SX-0.33SY)	CMTorre	1.1		No
23 1.1PP+1.1CM+1.1CMTorre+1.1CVI-1.1SX+0.33SY)	CM	1.1	Linear Add	No
23 1.1PP+1.1CM+1.1CMTorre+1.1CVI-1.1SX+0.33SY)	CVI	1.1		No
23 1.1PP+1.1CM+1.1CMTorre+1.1CVI-1.1SX+0.33SY)	SX	-1.1		No
23 1.1PP+1.1CM+1.1CMTorre+1.1CVI-1.1SX+0.33SY)	SY	0.33		No
23 1.1PP+1.1CM+1.1CMTorre+1.1CVI-1.1SX+0.33SY)	CMTorre	1.1		No
24 1.1PP+1.1CM+1.1CMTorre+1.1CVI-1.1SX-0.33SY)	CM	1.1	Linear Add	No
24 1.1PP+1.1CM+1.1CMTorre+1.1CVI-1.1SX-0.33SY)	CVI	1.1		No
24 1.1PP+1.1CM+1.1CMTorre+1.1CVI-1.1SX-0.33SY)	SX	-1.1		No
24 1.1PP+1.1CM+1.1CMTorre+1.1CVI-1.1SX-0.33SY)	SY	-0.33		No
24 1.1PP+1.1CM+1.1CMTorre+1.1CVI-1.1SX-0.33SY)	CMTorre	1.1		No
25 1.1PP+1.1CM+1.1CMTorre+1.1CVI+1.1SY+0.33SX)	CM	1.1	Linear Add	No

Table 4.6 - Load Combinations (continued)

Name	Load Case/Combo	Scale Factor	Type	Auto
25 1.1PP+1.1CM+1.1CMTorre+1.1CVI+1.1SY+0.33SX)	CVI	1.1		No
25 1.1PP+1.1CM+1.1CMTorre+1.1CVI+1.1SY+0.33SX)	SY	1.1		No
25 1.1PP+1.1CM+1.1CMTorre+1.1CVI+1.1SY+0.33SX)	SX	0.33		No
25 1.1PP+1.1CM+1.1CMTorre+1.1CVI+1.1SY+0.33SX)	CMTorre	1.1		No
26 1.1PP+1.1CM+1.1CMTorre+1.1CVI+1.1SY-0.33SX)	CM	1.1	Linear Add	No
26 1.1PP+1.1CM+1.1CMTorre+1.1CVI+1.1SY-0.33SX)	CVI	1.1		No
26 1.1PP+1.1CM+1.1CMTorre+1.1CVI+1.1SY-0.33SX)	SY	1.1		No
26 1.1PP+1.1CM+1.1CMTorre+1.1CVI+1.1SY-0.33SX)	SX	-0.33		No
26 1.1PP+1.1CM+1.1CMTorre+1.1CVI+1.1SY-0.33SX)	CMTorre	1.1		No
27 1.1PP+1.1CM+1.1CMTorre+1.1CVI-1.1SY+0.33SX)	CM	1.1	Linear Add	No
27 1.1PP+1.1CM+1.1CMTorre+1.1CVI-1.1SY+0.33SX)	CVI	1.1		No
27 1.1PP+1.1CM+1.1CMTorre+1.1CVI-1.1SY+0.33SX)	SY	-1.1		No
27 1.1PP+1.1CM+1.1CMTorre+1.1CVI-1.1SY+0.33SX)	SX	0.33		No
27 1.1PP+1.1CM+1.1CMTorre+1.1CVI-1.1SY+0.33SX)	CMTorre	1.1		No
28 1.1PP+1.1CM+1.1CMTorre+1.1CVI-1.1SY-0.33SX)	CM	1.1	Linear Add	No
28 1.1PP+1.1CM+1.1CMTorre+1.1CVI-1.1SY-0.33SX)	CVI	1.1		No
28 1.1PP+1.1CM+1.1CMTorre+1.1CVI-1.1SY-0.33SX)	SY	-1.1		No
28 1.1PP+1.1CM+1.1CMTorre+1.1CVI-1.1SY-0.33SX)	SX	-0.33		No
28 1.1PP+1.1CM+1.1CMTorre+1.1CVI-1.1SY-0.33SX)	CMTorre	1.1		No

5 Analysis Results

This chapter provides analysis results.

5.1 Structure Results

Table 5.1 - Base Reactions (Part 1 of 2)

Load Case/Combo	FX tonf	FY tonf	FZ tonf	MX tonf-m	MY tonf-m	MZ tonf-m
CM	0	0	469.9901	4374.6394	-3456.7866	0
CMTorre	-1.4086	-0.0002	6.7643	84.6879	-75.7318	26.244
CVM	0	0	97.538	781.7997	-663.3835	0
CVI	0	0	81.9989	649.2517	-549.9382	0
SX Max	19.3391	1.3616	0	7.2329	79.679	129.2342
SY Max	1.3616	15.7468	0	67.737	4.9739	104.4855
10 PP+CM+CMTorre+CVM	-1.4086	-0.0002	574.2924	5241.127	-4195.9019	26.244
11 PP+CM+CMTorre+CVI+SX+0.3SY Max	18.339	6.0855	558.7533	5136.1329	-4001.2856	186.8238
11 PP+CM+CMTorre+CVI+SX+0.3SY Min	-21.1562	-6.0858	558.7533	5081.025	-4163.6278	-134.3358
12 PP+CM+CMTorre+CVI+SX-0.3SY Max	18.339	6.0855	558.7533	5136.1329	-4001.2856	186.8238
12 PP+CM+CMTorre+CVI+SX-0.3SY Min	-21.1562	-6.0858	558.7533	5081.025	-4163.6278	-134.3358
13 PP+CM+CMTorre+CVI-SX+0.3SY Max	18.339	6.0855	558.7533	5136.1329	-4001.2856	186.8238
13 PP+CM+CMTorre+CVI-SX+0.3SY Min	-21.1562	-6.0858	558.7533	5081.025	-4163.6278	-134.3358
14 PP+CM+CMTorre+CVI-SX-0.3SY Max	18.339	6.0855	558.7533	5136.1329	-4001.2856	186.8238
14 PP+CM+CMTorre+CVI-SX-0.3SY Min	-21.1562	-6.0858	558.7533	5081.025	-4163.6278	-134.3358
15 PP+CM+CMTorre+CVI+SY+0.3SX Max	5.7547	16.1552	558.7533	5178.4858	-4053.5791	169.4998
15 PP+CM+CMTorre+CVI+SY+0.3SX Min	-8.572	-16.1555	558.7533	5038.6722	-4111.3343	-117.0117
16 PP+CM+CMTorre+CVI+SY-0.3SX Max	5.7547	16.1552	558.7533	5178.4858	-4053.5791	169.4998
16 PP+CM+CMTorre+CVI+SY-0.3SX Min	-8.572	-16.1555	558.7533	5038.6722	-4111.3343	-117.0117
17 PP+CM+CMTorre+CVI-SY+0.3SX Max	5.7547	16.1552	558.7533	5178.4858	-4053.5791	169.4998
17 PP+CM+CMTorre+CVI-SY+0.3SX Min	-8.572	-16.1555	558.7533	5038.6722	-4111.3343	-117.0117
18 PP+CM+CMTorre+CVI-SY-0.3SX Max	5.7547	16.1552	558.7533	5178.4858	-4053.5791	169.4998
18 PP+CM+CMTorre+CVI-SY-0.3SX Min	-8.572	-16.1555	558.7533	5038.6722	-4111.3343	-117.0117
20 1.5PP+1.5CM+1.5CMTorre+1.7CVM	-2.113	-0.0002	880.9462	8018.0505	-6426.5296	39.366
21 1.1PP+1.1CM+1.1CMTorre+1.1CVI+1.1SX+0.33SY) Max	20.1729	6.694	614.6287	5649.7462	-4401.4141	205.5062
21 1.1PP+1.1CM+1.1CMTorre+1.1CVI+1.1SX+0.33SY) Min	-23.2719	-6.6944	614.6287	5589.1275	-4579.9906	-147.7694
22 1.1PP+1.1CM+1.1CMTorre+1.1CVI+1.1SX-0.33SY) Max	20.1729	6.694	614.6287	5649.7462	-4401.4141	205.5062
22 1.1PP+1.1CM+1.1CMTorre+1.1CVI+1.1SX-0.33SY) Min	-23.2719	-6.6944	614.6287	5589.1275	-4579.9906	-147.7694
23 1.1PP+1.1CM+1.1CMTorre+1.1CVI-1.1SX+0.33SY) Max	20.1729	6.694	614.6287	5649.7462	-4401.4141	205.5062
23 1.1PP+1.1CM+1.1CMTorre+1.1CVI-1.1SX+0.33SY) Min	-23.2719	-6.6944	614.6287	5589.1275	-4579.9906	-147.7694
24 1.1PP+1.1CM+1.1CMTorre+1.1CVI-1.1SX-0.33SY) Max	20.1729	6.694	614.6287	5649.7462	-4401.4141	205.5062
24 1.1PP+1.1CM+1.1CMTorre+1.1CVI-1.1SX-0.33SY) Min	-23.2719	-6.6944	614.6287	5589.1275	-4579.9906	-147.7694
25 1.1PP+1.1CM+1.1CMTorre+1.1CVI+1.1SY+0.33SX) Max	6.3301	17.7707	614.6287	5696.3344	-4458.937	186.4497
25 1.1PP+1.1CM+1.1CMTorre+1.1CVI+1.1SY+0.33SX) Min	-9.4292	-17.771	614.6287	5542.5394	-4522.4677	-128.7129
26 1.1PP+1.1CM+1.1CMTorre+1.1CVI+1.1SY-0.33SX) Max	6.3301	17.7707	614.6287	5696.3344	-4458.937	186.4497
26 1.1PP+1.1CM+1.1CMTorre+1.1CVI+1.1SY-0.33SX) Min	-9.4292	-17.771	614.6287	5542.5394	-4522.4677	-128.7129
27 1.1PP+1.1CM+1.1CMTorre+1.1CVI-1.1SY+0.33SX) Max	6.3301	17.7707	614.6287	5696.3344	-4458.937	186.4497
27 1.1PP+1.1CM+1.1CMTorre+1.1CVI-1.1SY+0.33SX) Min	-9.4292	-17.771	614.6287	5542.5394	-4522.4677	-128.7129
28 1.1PP+1.1CM+1.1CMTorre+1.1CVI-1.1SY-0.33SX) Max	6.3301	17.7707	614.6287	5696.3344	-4458.937	186.4497

Table 5.1 - Base Reactions (Part 1 of 2, continued)

Load Case/Combo	FX tonf	FY tonf	FZ tonf	MX tonf-m	MY tonf-m	MZ tonf-m
28 1.1PP+1.1CM+1.1CMTorre+1.1CVI-1.1SY-0.33SX) Min	-9.4292	-17.771	614.6287	5542.5394	-4522.4677	-128.7129

Table 5.1 - Base Reactions (Part 2 of 2)

Load Case/Combo	X m	Y m	Z m
CM	0	0	0
CMTorre	0	0	0
CVM	0	0	0
CVI	0	0	0
SX Max	0	0	0
SY Max	0	0	0
10 PP+CM+CMTorre+CVM	0	0	0
11 PP+CM+CMTorre+CVI+SX+0.3SY Max	0	0	0
11 PP+CM+CMTorre+CVI+SX+0.3SY Min	0	0	0
12 PP+CM+CMTorre+CVI+SX-0.3SY Max	0	0	0
12 PP+CM+CMTorre+CVI+SX-0.3SY Min	0	0	0
13 PP+CM+CMTorre+CVI-SX+0.3SY Max	0	0	0
13 PP+CM+CMTorre+CVI-SX+0.3SY Min	0	0	0
14 PP+CM+CMTorre+CVI-SX-0.3SY Max	0	0	0
14 PP+CM+CMTorre+CVI-SX-0.3SY Min	0	0	0
15 PP+CM+CMTorre+CVI+SY+0.3SX Max	0	0	0
15 PP+CM+CMTorre+CVI+SY+0.3SX Min	0	0	0
16 PP+CM+CMTorre+CVI+SY-0.3SX Max	0	0	0
16 PP+CM+CMTorre+CVI+SY-0.3SX Min	0	0	0
17 PP+CM+CMTorre+CVI-SY+0.3SX Max	0	0	0
17 PP+CM+CMTorre+CVI-SY+0.3SX Min	0	0	0
18 PP+CM+CMTorre+CVI-SY-0.3SX Max	0	0	0
18 PP+CM+CMTorre+CVI-SY-0.3SX Min	0	0	0
20 1.5PP+1.5CM+1.5CMTorre+1.7CVM	0	0	0
21 1.1PP+1.1CM+1.1CMTorre+1.1CVI+1.1SX+0.33SY) Max	0	0	0
21 1.1PP+1.1CM+1.1CMTorre+1.1CVI+1.1SX+0.33SY) Min	0	0	0
22 1.1PP+1.1CM+1.1CMTorre+1.1CVI+1.1SX-0.33SY) Max	0	0	0
22 1.1PP+1.1CM+1.1CMTorre+1.1CVI+1.1SX-0.33SY) Min	0	0	0
23 1.1PP+1.1CM+1.1CMTorre+1.1CVI-1.1SX+0.33SY) Max	0	0	0
23 1.1PP+1.1CM+1.1CMTorre+1.1CVI-1.1SX+0.33SY) Min	0	0	0
24 1.1PP+1.1CM+1.1CMTorre+1.1CVI-1.1SX-0.33SY) Max	0	0	0
24 1.1PP+1.1CM+1.1CMTorre+1.1CVI-1.1SX-0.33SY) Min	0	0	0
25 1.1PP+1.1CM+1.1CMTorre+1.1CVI+1.1SY+0.33SX) Max	0	0	0
25 1.1PP+1.1CM+1.1CMTorre+1.1CVI+1.1SY+0.33SX) Min	0	0	0
26 1.1PP+1.1CM+1.1CMTorre+1.1CVI+1.1SY-0.33SX) Max	0	0	0
26 1.1PP+1.1CM+1.1CMTorre+1.1CVI+1.1SY-0.33SX) Min	0	0	0
27 1.1PP+1.1CM+1.1CMTorre+1.1CVI-1.1SY+0.33SX) Max	0	0	0
27 1.1PP+1.1CM+1.1CMTorre+1.1CVI-1.1SY+0.33SX) Min	0	0	0

Table 5.1 - Base Reactions (Part 2 of 2, continued)

Load Case/Combo	X m	Y m	Z m
28 1.1PP+1.1CM+1.1CMTorre+1.1CVI-1.1SY-0.33SX) Max	0	0	0
28 1.1PP+1.1CM+1.1CMTorre+1.1CVI-1.1SY-0.33SX) Min	0	0	0

Table 5.2 - Centers of Mass and Rigidity

Story	Diaphragm	Mass X tonf-s ² /m	Mass Y tonf-s ² /m	XCM m	YCM m	Cumulative X tonf-s ² /m	Cumulative Y tonf-s ² /m	XCCM m	YCCM m	XCR m	YCR m
Planta Alta	D1	23.35476	23.35476	7.8129	9.1564	23.35476	23.35476	7.8129	9.1564		
Planta Baja	D1	18.87287	18.87287	6.9192	7.9403	42.22763	42.22763	7.4135	8.6129		

Table 5.3 - Diaphragm Center of Mass Displacements (Part 1 of 2)

Story	Diaphragm	Load Case/Combo	UX m	UY m	RZ rad	Point
Planta Alta	D1	CM	7E-06	-4.8E-05	2E-06	145
Planta Alta	D1	CMTorre	5E-06	-2.024E-07	-4.215E-07	145
Planta Alta	D1	CVM	4E-06	-1.5E-05	4.841E-07	145
Planta Alta	D1	CVI	3E-06	-1.3E-05	4.102E-07	145
Planta Alta	D1	SX Max	0.000127	6E-06	7E-06	145
Planta Alta	D1	SY Max	6E-06	4.8E-05	4.905E-07	145
Planta Alta	D1	10 PP+CM+CMTorre+CVM	1.6E-05	-6.4E-05	2E-06	145
Planta Alta	D1	11 PP+CM+CMTorre+CVI+SY+0.3SY Max	0.000144	-4.1E-05	8E-06	145
Planta Alta	D1	11 PP+CM+CMTorre+CVI+SY+0.3SY Min	-0.000113	-8.3E-05	-5E-06	145
Planta Alta	D1	12 PP+CM+CMTorre+CVI+SY-0.3SY Max	0.000144	-4.1E-05	8E-06	145
Planta Alta	D1	12 PP+CM+CMTorre+CVI+SY-0.3SY Min	-0.000113	-8.3E-05	-5E-06	145
Planta Alta	D1	13 PP+CM+CMTorre+CVI-SX+0.3SY Max	0.000144	-4.1E-05	8E-06	145
Planta Alta	D1	13 PP+CM+CMTorre+CVI-SX+0.3SY Min	-0.000113	-8.3E-05	-5E-06	145
Planta Alta	D1	14 PP+CM+CMTorre+CVI-SX-0.3SY Max	0.000144	-4.1E-05	8E-06	145
Planta Alta	D1	14 PP+CM+CMTorre+CVI-SX-0.3SY Min	-0.000113	-8.3E-05	-5E-06	145
Planta Alta	D1	15 PP+CM+CMTorre+CVI+SY+0.3SX Max	5.9E-05	-1.2E-05	4E-06	145
Planta Alta	D1	15 PP+CM+CMTorre+CVI+SY+0.3SX Min	-2.8E-05	-0.000111	-1E-06	145
Planta Alta	D1	16 PP+CM+CMTorre+CVI+SY-0.3SX Max	5.9E-05	-1.2E-05	4E-06	145
Planta Alta	D1	16 PP+CM+CMTorre+CVI+SY-0.3SX Min	-2.8E-05	-0.000111	-1E-06	145
Planta Alta	D1	17 PP+CM+CMTorre+CVI-SY+0.3SX Max	5.9E-05	-1.2E-05	4E-06	145
Planta Alta	D1	17 PP+CM+CMTorre+CVI-SY+0.3SX Min	-2.8E-05	-0.000111	-1E-06	145
Planta Alta	D1	18 PP+CM+CMTorre+CVI-SY-0.3SX Max	5.9E-05	-1.2E-05	4E-06	145
Planta Alta	D1	18 PP+CM+CMTorre+CVI-SY-0.3SX Min	-2.8E-05	-0.000111	-1E-06	145
Planta Alta	D1	20 1.5PP+1.5CM+1.5CMTorre+1.7CVM	2.5E-05	-9.9E-05	3E-06	145
Planta Alta	D1	21 1.1PP+1.1CM+1.1CMTorre+1.1CVI+1.1SX+0.33SY) Max	0.000158	-4.5E-05	9E-06	145
Planta Alta	D1	21 1.1PP+1.1CM+1.1CMTorre+1.1CVI+1.1SX+0.33SY) Min	-0.000124	-9.1E-05	-6E-06	145
Planta Alta	D1	22 1.1PP+1.1CM+1.1CMTorre+1.1CVI+1.1SX-0.33SY) Max	0.000158	-4.5E-05	9E-06	145
Planta Alta	D1	22 1.1PP+1.1CM+1.1CMTorre+1.1CVI+1.1SX-0.33SY) Min	-0.000124	-9.1E-05	-6E-06	145
Planta Alta	D1	23 1.1PP+1.1CM+1.1CMTorre+1.1CVI-1.1SX+0.33SY) Max	0.000158	-4.5E-05	9E-06	145
Planta Alta	D1	23 1.1PP+1.1CM+1.1CMTorre+1.1CVI-1.1SX+0.33SY) Min	-0.000124	-9.1E-05	-6E-06	145
Planta Alta	D1	24 1.1PP+1.1CM+1.1CMTorre+1.1CVI-1.1SX-0.33SY) Max	0.000158	-4.5E-05	9E-06	145

Table 5.3 - Diaphragm Center of Mass Displacements (Part 1 of 2, continued)

Story	Diaphragm	Load Case/Combo	UX m	UY m	RZ rad	Point
Planta Alta	D1	24 1.1PP+1.1CM+1.1CMTorre+1.1CVI-1.1SX-0.33SY) Min	-0.000124	-9.1E-05	-6E-06	145
Planta Alta	D1	25 1.1PP+1.1CM+1.1CMTorre+1.1CVI+1.1SY+0.33SX) Max	6.5E-05	-1.4E-05	5E-06	145
Planta Alta	D1	25 1.1PP+1.1CM+1.1CMTorre+1.1CVI+1.1SY+0.33SX) Min	-3.1E-05	-0.000122	-1E-06	145
Planta Alta	D1	26 1.1PP+1.1CM+1.1CMTorre+1.1CVI+1.1SY-0.33SX) Max	6.5E-05	-1.4E-05	5E-06	145
Planta Alta	D1	26 1.1PP+1.1CM+1.1CMTorre+1.1CVI+1.1SY-0.33SX) Min	-3.1E-05	-0.000122	-1E-06	145
Planta Alta	D1	27 1.1PP+1.1CM+1.1CMTorre+1.1CVI-1.1SY+0.33SX) Max	6.5E-05	-1.4E-05	5E-06	145
Planta Alta	D1	27 1.1PP+1.1CM+1.1CMTorre+1.1CVI-1.1SY+0.33SX) Min	-3.1E-05	-0.000122	-1E-06	145
Planta Alta	D1	28 1.1PP+1.1CM+1.1CMTorre+1.1CVI-1.1SY-0.33SX) Max	6.5E-05	-1.4E-05	5E-06	145
Planta Alta	D1	28 1.1PP+1.1CM+1.1CMTorre+1.1CVI-1.1SY-0.33SX) Min	-3.1E-05	-0.000122	-1E-06	145
Planta Baja	D1	CM	-6E-06	-1.1E-05	-4.121E-08	146
Planta Baja	D1	CMTorre	2E-06	7.643E-08	-1.636E-07	146
Planta Baja	D1	CVM	1E-06	-3E-06	4.925E-08	146
Planta Baja	D1	CVI	1E-06	-2E-06	4.654E-08	146
Planta Baja	D1	SX Max	8.8E-05	3E-06	5E-06	146
Planta Baja	D1	SY Max	5E-06	2.3E-05	2.388E-07	146
Planta Baja	D1	10 PP+CM+CMTorre+CVM	-2E-06	-1.4E-05	-1.555E-07	146
Planta Baja	D1	11 PP+CM+CMTorre+CVI+SX+0.3SY Max	8.8E-05	-4E-06	5E-06	146
Planta Baja	D1	11 PP+CM+CMTorre+CVI+SX+0.3SY Min	-9.2E-05	-2.3E-05	-5E-06	146
Planta Baja	D1	12 PP+CM+CMTorre+CVI+SX-0.3SY Max	8.8E-05	-4E-06	5E-06	146
Planta Baja	D1	12 PP+CM+CMTorre+CVI+SX-0.3SY Min	-9.2E-05	-2.3E-05	-5E-06	146
Planta Baja	D1	13 PP+CM+CMTorre+CVI-SX+0.3SY Max	8.8E-05	-4E-06	5E-06	146
Planta Baja	D1	13 PP+CM+CMTorre+CVI-SX+0.3SY Min	-9.2E-05	-2.3E-05	-5E-06	146
Planta Baja	D1	14 PP+CM+CMTorre+CVI-SX-0.3SY Max	8.8E-05	-4E-06	5E-06	146
Planta Baja	D1	14 PP+CM+CMTorre+CVI-SX-0.3SY Min	-9.2E-05	-2.3E-05	-5E-06	146
Planta Baja	D1	15 PP+CM+CMTorre+CVI+SY+0.3SX Max	3E-05	1E-05	2E-06	146
Planta Baja	D1	15 PP+CM+CMTorre+CVI+SY+0.3SX Min	-3.4E-05	-3.6E-05	-2E-06	146
Planta Baja	D1	16 PP+CM+CMTorre+CVI+SY-0.3SX Max	3E-05	1E-05	2E-06	146
Planta Baja	D1	16 PP+CM+CMTorre+CVI+SY-0.3SX Min	-3.4E-05	-3.6E-05	-2E-06	146
Planta Baja	D1	17 PP+CM+CMTorre+CVI-SY+0.3SX Max	3E-05	1E-05	2E-06	146
Planta Baja	D1	17 PP+CM+CMTorre+CVI-SY+0.3SX Min	-3.4E-05	-3.6E-05	-2E-06	146
Planta Baja	D1	18 PP+CM+CMTorre+CVI-SY-0.3SX Max	3E-05	1E-05	2E-06	146
Planta Baja	D1	18 PP+CM+CMTorre+CVI-SY-0.3SX Min	-3.4E-05	-3.6E-05	-2E-06	146
Planta Baja	D1	20 1.5PP+1.5CM+1.5CMTorre+1.7CVM	-3E-06	-2.1E-05	-2.234E-07	146
Planta Baja	D1	21 1.1PP+1.1CM+1.1CMTorre+1.1CVI+1.1SX+0.33SY) Max	9.7E-05	-4E-06	5E-06	146
Planta Baja	D1	21 1.1PP+1.1CM+1.1CMTorre+1.1CVI+1.1SX+0.33SY) Min	-0.000101	-2.5E-05	-6E-06	146
Planta Baja	D1	22 1.1PP+1.1CM+1.1CMTorre+1.1CVI+1.1SX-0.33SY) Max	9.7E-05	-4E-06	5E-06	146
Planta Baja	D1	22 1.1PP+1.1CM+1.1CMTorre+1.1CVI+1.1SX-0.33SY) Min	-0.000101	-2.5E-05	-6E-06	146
Planta Baja	D1	23 1.1PP+1.1CM+1.1CMTorre+1.1CVI-1.1SX+0.33SY) Max	9.7E-05	-4E-06	5E-06	146
Planta Baja	D1	23 1.1PP+1.1CM+1.1CMTorre+1.1CVI-1.1SX+0.33SY) Min	-0.000101	-2.5E-05	-6E-06	146
Planta Baja	D1	24 1.1PP+1.1CM+1.1CMTorre+1.1CVI-1.1SX-0.33SY) Max	9.7E-05	-4E-06	5E-06	146
Planta Baja	D1	24 1.1PP+1.1CM+1.1CMTorre+1.1CVI-1.1SX-0.33SY) Min	-0.000101	-2.5E-05	-6E-06	146
Planta Baja	D1	25 1.1PP+1.1CM+1.1CMTorre+1.1CVI+1.1SY+0.33SX) Max	3.3E-05	1.1E-05	2E-06	146

Table 5.3 - Diaphragm Center of Mass Displacements (Part 1 of 2, continued)

Story	Diaphragm	Load Case/Combo	UX m	UY m	RZ rad	Point
Planta Baja	D1	25 1.1PP+1.1CM+1.1CMTorre+1.1CVI+1.1SY+0.33SX) Min	-3.7E-05	-4E-05	-2E-06	146
Planta Baja	D1	26 1.1PP+1.1CM+1.1CMTorre+1.1CVI+1.1SY-0.33SX) Max	3.3E-05	1.1E-05	2E-06	146
Planta Baja	D1	26 1.1PP+1.1CM+1.1CMTorre+1.1CVI+1.1SY-0.33SX) Min	-3.7E-05	-4E-05	-2E-06	146
Planta Baja	D1	27 1.1PP+1.1CM+1.1CMTorre+1.1CVI-1.1SY+0.33SX) Max	3.3E-05	1.1E-05	2E-06	146
Planta Baja	D1	27 1.1PP+1.1CM+1.1CMTorre+1.1CVI-1.1SY+0.33SX) Min	-3.7E-05	-4E-05	-2E-06	146
Planta Baja	D1	28 1.1PP+1.1CM+1.1CMTorre+1.1CVI-1.1SY-0.33SX) Max	3.3E-05	1.1E-05	2E-06	146
Planta Baja	D1	28 1.1PP+1.1CM+1.1CMTorre+1.1CVI-1.1SY-0.33SX) Min	-3.7E-05	-4E-05	-2E-06	146

Table 5.3 - Diaphragm Center of Mass Displacements (Part 2 of 2)

Story	Diaphragm	Load Case/Combo	X m	Y m	Z m
Planta Alta	D1	CM	7.8129	9.1564	5.7
Planta Alta	D1	CMTorre	7.8129	9.1564	5.7
Planta Alta	D1	CVM	7.8129	9.1564	5.7
Planta Alta	D1	CVI	7.8129	9.1564	5.7
Planta Alta	D1	SX Max	7.8129	9.1564	5.7
Planta Alta	D1	SY Max	7.8129	9.1564	5.7
Planta Alta	D1	10 PP+CM+CMTorre+CVM	7.8129	9.1564	5.7
Planta Alta	D1	11 PP+CM+CMTorre+CVI+SX+0.3SY Max	7.8129	9.1564	5.7
Planta Alta	D1	11 PP+CM+CMTorre+CVI+SX+0.3SY Min	7.8129	9.1564	5.7
Planta Alta	D1	12 PP+CM+CMTorre+CVI+SX-0.3SY Max	7.8129	9.1564	5.7
Planta Alta	D1	12 PP+CM+CMTorre+CVI+SX-0.3SY Min	7.8129	9.1564	5.7
Planta Alta	D1	13 PP+CM+CMTorre+CVI-SX+0.3SY Max	7.8129	9.1564	5.7
Planta Alta	D1	13 PP+CM+CMTorre+CVI-SX+0.3SY Min	7.8129	9.1564	5.7
Planta Alta	D1	14 PP+CM+CMTorre+CVI-SX-0.3SY Max	7.8129	9.1564	5.7
Planta Alta	D1	14 PP+CM+CMTorre+CVI-SX-0.3SY Min	7.8129	9.1564	5.7
Planta Alta	D1	15 PP+CM+CMTorre+CVI+SY+0.3SX Max	7.8129	9.1564	5.7
Planta Alta	D1	15 PP+CM+CMTorre+CVI+SY+0.3SX Min	7.8129	9.1564	5.7
Planta Alta	D1	16 PP+CM+CMTorre+CVI+SY-0.3SX Max	7.8129	9.1564	5.7
Planta Alta	D1	16 PP+CM+CMTorre+CVI+SY-0.3SX Min	7.8129	9.1564	5.7
Planta Alta	D1	17 PP+CM+CMTorre+CVI-SY+0.3SX Max	7.8129	9.1564	5.7
Planta Alta	D1	17 PP+CM+CMTorre+CVI-SY+0.3SX Min	7.8129	9.1564	5.7
Planta Alta	D1	18 PP+CM+CMTorre+CVI-SY-0.3SX Max	7.8129	9.1564	5.7
Planta Alta	D1	18 PP+CM+CMTorre+CVI-SY-0.3SX Min	7.8129	9.1564	5.7
Planta Alta	D1	20 1.5PP+1.5CM+1.5CMTorre+1.7CVM	7.8129	9.1564	5.7
Planta Alta	D1	21 1.1PP+1.1CM+1.1CMTorre+1.1CVI+1.1SX+0.33SY) Max	7.8129	9.1564	5.7
Planta Alta	D1	21 1.1PP+1.1CM+1.1CMTorre+1.1CVI+1.1SX+0.33SY) Min	7.8129	9.1564	5.7
Planta Alta	D1	22 1.1PP+1.1CM+1.1CMTorre+1.1CVI+1.1SX-0.33SY) Max	7.8129	9.1564	5.7
Planta Alta	D1	22 1.1PP+1.1CM+1.1CMTorre+1.1CVI+1.1SX-0.33SY) Min	7.8129	9.1564	5.7
Planta Alta	D1	23 1.1PP+1.1CM+1.1CMTorre+1.1CVI-1.1SX+0.33SY) Max	7.8129	9.1564	5.7
Planta Alta	D1	23 1.1PP+1.1CM+1.1CMTorre+1.1CVI-1.1SX+0.33SY) Min	7.8129	9.1564	5.7
Planta Alta	D1	24 1.1PP+1.1CM+1.1CMTorre+1.1CVI-1.1SX-0.33SY) Max	7.8129	9.1564	5.7
Planta Alta	D1	24 1.1PP+1.1CM+1.1CMTorre+1.1CVI-1.1SX-0.33SY) Min	7.8129	9.1564	5.7

Table 5.3 - Diaphragm Center of Mass Displacements (Part 2 of 2, continued)

Story	Diaphragm	Load Case/Combo	X m	Y m	Z m
Planta Alta	D1	25 1.1PP+1.1CM+1.1CMTorre+1.1CVI+1.1SY+0.33SX) Max	7.8129	9.1564	5.7
Planta Alta	D1	25 1.1PP+1.1CM+1.1CMTorre+1.1CVI+1.1SY+0.33SX) Min	7.8129	9.1564	5.7
Planta Alta	D1	26 1.1PP+1.1CM+1.1CMTorre+1.1CVI+1.1SY-0.33SX) Max	7.8129	9.1564	5.7
Planta Alta	D1	26 1.1PP+1.1CM+1.1CMTorre+1.1CVI+1.1SY-0.33SX) Min	7.8129	9.1564	5.7
Planta Alta	D1	27 1.1PP+1.1CM+1.1CMTorre+1.1CVI-1.1SY+0.33SX) Max	7.8129	9.1564	5.7
Planta Alta	D1	27 1.1PP+1.1CM+1.1CMTorre+1.1CVI-1.1SY+0.33SX) Min	7.8129	9.1564	5.7
Planta Alta	D1	28 1.1PP+1.1CM+1.1CMTorre+1.1CVI-1.1SY-0.33SX) Max	7.8129	9.1564	5.7
Planta Alta	D1	28 1.1PP+1.1CM+1.1CMTorre+1.1CVI-1.1SY-0.33SX) Min	7.8129	9.1564	5.7
Planta Baja	D1	CM	6.9192	7.9403	2.58
Planta Baja	D1	CMTorre	6.9192	7.9403	2.58
Planta Baja	D1	CVM	6.9192	7.9403	2.58
Planta Baja	D1	CVI	6.9192	7.9403	2.58
Planta Baja	D1	SX Max	6.9192	7.9403	2.58
Planta Baja	D1	SY Max	6.9192	7.9403	2.58
Planta Baja	D1	10 PP+CM+CMTorre+CVM	6.9192	7.9403	2.58
Planta Baja	D1	11 PP+CM+CMTorre+CVI+SX+0.3SY Max	6.9192	7.9403	2.58
Planta Baja	D1	11 PP+CM+CMTorre+CVI+SX+0.3SY Min	6.9192	7.9403	2.58
Planta Baja	D1	12 PP+CM+CMTorre+CVI+SX-0.3SY Max	6.9192	7.9403	2.58
Planta Baja	D1	12 PP+CM+CMTorre+CVI+SX-0.3SY Min	6.9192	7.9403	2.58
Planta Baja	D1	13 PP+CM+CMTorre+CVI-SX+0.3SY Max	6.9192	7.9403	2.58
Planta Baja	D1	13 PP+CM+CMTorre+CVI-SX+0.3SY Min	6.9192	7.9403	2.58
Planta Baja	D1	14 PP+CM+CMTorre+CVI-SX-0.3SY Max	6.9192	7.9403	2.58
Planta Baja	D1	14 PP+CM+CMTorre+CVI-SX-0.3SY Min	6.9192	7.9403	2.58
Planta Baja	D1	15 PP+CM+CMTorre+CVI+SY+0.3SX Max	6.9192	7.9403	2.58
Planta Baja	D1	15 PP+CM+CMTorre+CVI+SY+0.3SX Min	6.9192	7.9403	2.58
Planta Baja	D1	16 PP+CM+CMTorre+CVI+SY-0.3SX Max	6.9192	7.9403	2.58
Planta Baja	D1	16 PP+CM+CMTorre+CVI+SY-0.3SX Min	6.9192	7.9403	2.58
Planta Baja	D1	17 PP+CM+CMTorre+CVI-SY+0.3SX Max	6.9192	7.9403	2.58
Planta Baja	D1	17 PP+CM+CMTorre+CVI-SY+0.3SX Min	6.9192	7.9403	2.58
Planta Baja	D1	18 PP+CM+CMTorre+CVI-SY-0.3SX Max	6.9192	7.9403	2.58
Planta Baja	D1	18 PP+CM+CMTorre+CVI-SY-0.3SX Min	6.9192	7.9403	2.58
Planta Baja	D1	20 1.5PP+1.5CM+1.5CMTorre+1.7CVM	6.9192	7.9403	2.58
Planta Baja	D1	21 1.1PP+1.1CM+1.1CMTorre+1.1CVI+1.1SX+0.33SY) Max	6.9192	7.9403	2.58
Planta Baja	D1	21 1.1PP+1.1CM+1.1CMTorre+1.1CVI+1.1SX+0.33SY) Min	6.9192	7.9403	2.58
Planta Baja	D1	22 1.1PP+1.1CM+1.1CMTorre+1.1CVI+1.1SX-0.33SY) Max	6.9192	7.9403	2.58
Planta Baja	D1	22 1.1PP+1.1CM+1.1CMTorre+1.1CVI+1.1SX-0.33SY) Min	6.9192	7.9403	2.58
Planta Baja	D1	23 1.1PP+1.1CM+1.1CMTorre+1.1CVI-1.1SX+0.33SY) Max	6.9192	7.9403	2.58
Planta Baja	D1	23 1.1PP+1.1CM+1.1CMTorre+1.1CVI-1.1SX+0.33SY) Min	6.9192	7.9403	2.58
Planta Baja	D1	24 1.1PP+1.1CM+1.1CMTorre+1.1CVI-1.1SX-0.33SY) Max	6.9192	7.9403	2.58
Planta Baja	D1	24 1.1PP+1.1CM+1.1CMTorre+1.1CVI-1.1SX-0.33SY) Min	6.9192	7.9403	2.58
Planta Baja	D1	25 1.1PP+1.1CM+1.1CMTorre+1.1CVI+1.1SY+0.33SX) Max	6.9192	7.9403	2.58
Planta Baja	D1	25 1.1PP+1.1CM+1.1CMTorre+1.1CVI+1.1SY+0.33SX) Min	6.9192	7.9403	2.58

Table 5.3 - Diaphragm Center of Mass Displacements (Part 2 of 2, continued)

Story	Diaphragm	Load Case/Combo	X m	Y m	Z m
Planta Baja	D1	26 1.1PP+1.1CM+1.1CMTorre+1.1CVI+1.1SY-0.33SX) Max	6.9192	7.9403	2.58
Planta Baja	D1	26 1.1PP+1.1CM+1.1CMTorre+1.1CVI+1.1SY-0.33SX) Min	6.9192	7.9403	2.58
Planta Baja	D1	27 1.1PP+1.1CM+1.1CMTorre+1.1CVI-1.1SY+0.33SX) Max	6.9192	7.9403	2.58
Planta Baja	D1	27 1.1PP+1.1CM+1.1CMTorre+1.1CVI-1.1SY+0.33SX) Min	6.9192	7.9403	2.58
Planta Baja	D1	28 1.1PP+1.1CM+1.1CMTorre+1.1CVI-1.1SY-0.33SX) Max	6.9192	7.9403	2.58
Planta Baja	D1	28 1.1PP+1.1CM+1.1CMTorre+1.1CVI-1.1SY-0.33SX) Min	6.9192	7.9403	2.58

5.2 Story Results

Table 5.4 - Story Max/Avg Displacements

Story	Load Case/Combo	Direction	Maximum m	Average m	Ratio
Planta Alta	CM	X	2.2E-05	6E-06	3.334
Planta Alta	CM	Y	6.2E-05	4.8E-05	1.28
Planta Baja	CM	X	6E-06	6E-06	1.065
Planta Baja	CM	Y	1.1E-05	1.1E-05	1.03
Planta Alta	CMTorre	X	9E-06	5E-06	1.777
Planta Baja	CMTorre	X	4E-06	3E-06	1.538
Planta Alta	CVM	X	8E-06	4E-06	2.156
Planta Alta	CVM	Y	1.9E-05	1.5E-05	1.255
Planta Baja	CVM	X	2E-06	1E-06	1.33
Planta Baja	CVM	Y	3E-06	3E-06	1.153
Planta Alta	CVI	X	7E-06	3E-06	2.137
Planta Alta	CVI	Y	1.6E-05	1.3E-05	1.251
Planta Baja	CVI	X	2E-06	1E-06	1.317
Planta Baja	CVI	Y	3E-06	2E-06	1.173
Planta Alta	SX Max	X	0.000182	0.000124	1.469
Planta Alta	SX Max	Y	5.7E-05	3.1E-05	1.818
Planta Baja	SX Max	X	0.000123	8E-05	1.539
Planta Baja	SX Max	Y	4.2E-05	2.3E-05	1.854
Planta Alta	SY Max	X	8E-06	7E-06	1.248
Planta Alta	SY Max	Y	5.1E-05	4.8E-05	1.065
Planta Baja	SY Max	X	7E-06	5E-06	1.345
Planta Baja	SY Max	Y	2.3E-05	2.3E-05	1.031
Planta Alta	10 PP+CM+CMTorre+CVM	X	3.1E-05	1.5E-05	2.037
Planta Alta	10 PP+CM+CMTorre+CVM	Y	7.8E-05	6.4E-05	1.22
Planta Baja	10 PP+CM+CMTorre+CVM	X	3E-06	2E-06	1.872
Planta Baja	10 PP+CM+CMTorre+CVM	Y	1.5E-05	1.4E-05	1.091
Planta Alta	11 PP+CM+CMTorre+CVI+SX+0.3SY Max	X	0.000214	0.000141	1.523
Planta Baja	11 PP+CM+CMTorre+CVI+SX+0.3SY Max	X	0.000122	8E-05	1.529
Planta Baja	11 PP+CM+CMTorre+CVI+SX+0.3SY Max	Y	3.5E-05	1.6E-05	2.202
Planta Alta	11 PP+CM+CMTorre+CVI+SX+0.3SY Min	X	0.000155	0.000111	1.391
Planta Alta	11 PP+CM+CMTorre+CVI+SX+0.3SY Min	Y	0.000147	0.000114	1.287
Planta Baja	11 PP+CM+CMTorre+CVI+SX+0.3SY Min	X	0.000128	8.3E-05	1.542
Planta Baja	11 PP+CM+CMTorre+CVI+SX+0.3SY Min	Y	6.4E-05	4.4E-05	1.464
Planta Alta	12 PP+CM+CMTorre+CVI+SX-0.3SY Max	X	0.000214	0.000141	1.523

Table 5.4 - Story Max/Avg Displacements (continued)

Story	Load Case/Combo	Direction	Maximum m	Average m	Ratio
Planta Baja	12 PP+CM+CMTorre+CVI+SX-0.3SY Max	X	0.000122	8E-05	1.529
Planta Baja	12 PP+CM+CMTorre+CVI+SX-0.3SY Max	Y	3.5E-05	1.6E-05	2.202
Planta Alta	12 PP+CM+CMTorre+CVI+SX-0.3SY Min	X	0.000155	0.000111	1.391
Planta Alta	12 PP+CM+CMTorre+CVI+SX-0.3SY Min	Y	0.000147	0.000114	1.287
Planta Baja	12 PP+CM+CMTorre+CVI+SX-0.3SY Min	X	0.000128	8.3E-05	1.542
Planta Baja	12 PP+CM+CMTorre+CVI+SX-0.3SY Min	Y	6.4E-05	4.4E-05	1.464
Planta Alta	13 PP+CM+CMTorre+CVI-SX+0.3SY Max	X	0.000214	0.000141	1.523
Planta Baja	13 PP+CM+CMTorre+CVI-SX+0.3SY Max	X	0.000122	8E-05	1.529
Planta Baja	13 PP+CM+CMTorre+CVI-SX+0.3SY Max	Y	3.5E-05	1.6E-05	2.202
Planta Alta	13 PP+CM+CMTorre+CVI-SX+0.3SY Min	X	0.000155	0.000111	1.391
Planta Alta	13 PP+CM+CMTorre+CVI-SX+0.3SY Min	Y	0.000147	0.000114	1.287
Planta Baja	13 PP+CM+CMTorre+CVI-SX+0.3SY Min	X	0.000128	8.3E-05	1.542
Planta Baja	13 PP+CM+CMTorre+CVI-SX+0.3SY Min	Y	6.4E-05	4.4E-05	1.464
Planta Alta	14 PP+CM+CMTorre+CVI-SX-0.3SY Max	X	0.000214	0.000141	1.523
Planta Baja	14 PP+CM+CMTorre+CVI-SX-0.3SY Max	X	0.000122	8E-05	1.529
Planta Baja	14 PP+CM+CMTorre+CVI-SX-0.3SY Max	Y	3.5E-05	1.6E-05	2.202
Planta Alta	14 PP+CM+CMTorre+CVI-SX-0.3SY Min	X	0.000155	0.000111	1.391
Planta Alta	14 PP+CM+CMTorre+CVI-SX-0.3SY Min	Y	0.000147	0.000114	1.287
Planta Baja	14 PP+CM+CMTorre+CVI-SX-0.3SY Min	X	0.000128	8.3E-05	1.542
Planta Baja	14 PP+CM+CMTorre+CVI-SX-0.3SY Min	Y	6.4E-05	4.4E-05	1.464
Planta Alta	15 PP+CM+CMTorre+CVI+SY+0.3SX Max	X	9.2E-05	5.9E-05	1.577
Planta Baja	15 PP+CM+CMTorre+CVI+SY+0.3SX Max	X	4.1E-05	2.8E-05	1.483
Planta Baja	15 PP+CM+CMTorre+CVI+SY+0.3SX Max	Y	2.2E-05	1.6E-05	1.353
Planta Alta	15 PP+CM+CMTorre+CVI+SY+0.3SX Min	X	3.3E-05	2.9E-05	1.132
Planta Alta	15 PP+CM+CMTorre+CVI+SY+0.3SX Min	Y	0.000143	0.000125	1.142
Planta Baja	15 PP+CM+CMTorre+CVI+SY+0.3SX Min	X	4.7E-05	3.1E-05	1.524
Planta Baja	15 PP+CM+CMTorre+CVI+SY+0.3SX Min	Y	5.1E-05	4.4E-05	1.157
Planta Alta	16 PP+CM+CMTorre+CVI+SY-0.3SX Max	X	9.2E-05	5.9E-05	1.577
Planta Baja	16 PP+CM+CMTorre+CVI+SY-0.3SX Max	X	4.1E-05	2.8E-05	1.483
Planta Baja	16 PP+CM+CMTorre+CVI+SY-0.3SX Max	Y	2.2E-05	1.6E-05	1.353
Planta Alta	16 PP+CM+CMTorre+CVI+SY-0.3SX Min	X	3.3E-05	2.9E-05	1.132
Planta Alta	16 PP+CM+CMTorre+CVI+SY-0.3SX Min	Y	0.000143	0.000125	1.142
Planta Baja	16 PP+CM+CMTorre+CVI+SY-0.3SX Min	X	4.7E-05	3.1E-05	1.524
Planta Baja	16 PP+CM+CMTorre+CVI+SY-0.3SX Min	Y	5.1E-05	4.4E-05	1.157
Planta Alta	17 PP+CM+CMTorre+CVI-SY+0.3SX Max	X	9.2E-05	5.9E-05	1.577
Planta Baja	17 PP+CM+CMTorre+CVI-SY+0.3SX Max	X	4.1E-05	2.8E-05	1.483
Planta Baja	17 PP+CM+CMTorre+CVI-SY+0.3SX Max	Y	2.2E-05	1.6E-05	1.353
Planta Alta	17 PP+CM+CMTorre+CVI-SY+0.3SX Min	X	3.3E-05	2.9E-05	1.132
Planta Alta	17 PP+CM+CMTorre+CVI-SY+0.3SX Min	Y	0.000143	0.000125	1.142
Planta Baja	17 PP+CM+CMTorre+CVI-SY+0.3SX Min	X	4.7E-05	3.1E-05	1.524
Planta Baja	17 PP+CM+CMTorre+CVI-SY+0.3SX Min	Y	5.1E-05	4.4E-05	1.157
Planta Alta	18 PP+CM+CMTorre+CVI-SY-0.3SX Max	X	9.2E-05	5.9E-05	1.577
Planta Baja	18 PP+CM+CMTorre+CVI-SY-0.3SX Max	X	4.1E-05	2.8E-05	1.483
Planta Baja	18 PP+CM+CMTorre+CVI-SY-0.3SX Max	Y	2.2E-05	1.6E-05	1.353
Planta Alta	18 PP+CM+CMTorre+CVI-SY-0.3SX Min	X	3.3E-05	2.9E-05	1.132

Table 5.4 - Story Max/Avg Displacements (continued)

Story	Load Case/Combo	Direction	Maximum m	Average m	Ratio
Planta Alta	18 PP+CM+CMTorre+CVI-SY-0.3SX Min	Y	0.000143	0.000125	1.142
Planta Baja	18 PP+CM+CMTorre+CVI-SY-0.3SX Min	X	4.7E-05	3.1E-05	1.524
Planta Baja	18 PP+CM+CMTorre+CVI-SY-0.3SX Min	Y	5.1E-05	4.4E-05	1.157
Planta Alta	20 1.5PP+1.5CM+1.5CMTorre+1.7CVM	X	4.8E-05	2.3E-05	2.041
Planta Alta	20 1.5PP+1.5CM+1.5CMTorre+1.7CVM	Y	0.00012	9.8E-05	1.221
Planta Baja	20 1.5PP+1.5CM+1.5CMTorre+1.7CVM	X	4E-06	2E-06	1.94
Planta Baja	20 1.5PP+1.5CM+1.5CMTorre+1.7CVM	Y	2.3E-05	2.1E-05	1.085
Planta Alta	21 1.1PP+1.1CM+1.1CMTorre+1.1CVI+1.1SX+0.33SY) Max	X	0.000236	0.000155	1.523
Planta Baja	21 1.1PP+1.1CM+1.1CMTorre+1.1CVI+1.1SX+0.33SY) Max	X	0.000135	8.8E-05	1.529
Planta Baja	21 1.1PP+1.1CM+1.1CMTorre+1.1CVI+1.1SX+0.33SY) Max	Y	3.8E-05	1.7E-05	2.202
Planta Alta	21 1.1PP+1.1CM+1.1CMTorre+1.1CVI+1.1SX+0.33SY) Min	X	0.000171	0.000123	1.391
Planta Alta	21 1.1PP+1.1CM+1.1CMTorre+1.1CVI+1.1SX+0.33SY) Min	Y	0.000162	0.000126	1.287
Planta Baja	21 1.1PP+1.1CM+1.1CMTorre+1.1CVI+1.1SX+0.33SY) Min	X	0.000141	9.2E-05	1.542
Planta Baja	21 1.1PP+1.1CM+1.1CMTorre+1.1CVI+1.1SX+0.33SY) Min	Y	7E-05	4.8E-05	1.464
Planta Alta	22 1.1PP+1.1CM+1.1CMTorre+1.1CVI+1.1SX-0.33SY) Max	X	0.000236	0.000155	1.523
Planta Baja	22 1.1PP+1.1CM+1.1CMTorre+1.1CVI+1.1SX-0.33SY) Max	X	0.000135	8.8E-05	1.529
Planta Baja	22 1.1PP+1.1CM+1.1CMTorre+1.1CVI+1.1SX-0.33SY) Max	Y	3.8E-05	1.7E-05	2.202
Planta Alta	22 1.1PP+1.1CM+1.1CMTorre+1.1CVI+1.1SX-0.33SY) Min	X	0.000171	0.000123	1.391
Planta Alta	22 1.1PP+1.1CM+1.1CMTorre+1.1CVI+1.1SX-0.33SY) Min	Y	0.000162	0.000126	1.287
Planta Baja	22 1.1PP+1.1CM+1.1CMTorre+1.1CVI+1.1SX-0.33SY) Min	X	0.000141	9.2E-05	1.542
Planta Baja	22 1.1PP+1.1CM+1.1CMTorre+1.1CVI+1.1SX-0.33SY) Min	Y	7E-05	4.8E-05	1.464
Planta Alta	23 1.1PP+1.1CM+1.1CMTorre+1.1CVI-1.1SX+0.33SY) Max	X	0.000236	0.000155	1.523
Planta Baja	23 1.1PP+1.1CM+1.1CMTorre+1.1CVI-1.1SX+0.33SY) Max	X	0.000135	8.8E-05	1.529
Planta Baja	23 1.1PP+1.1CM+1.1CMTorre+1.1CVI-1.1SX+0.33SY) Max	Y	3.8E-05	1.7E-05	2.202
Planta Alta	23 1.1PP+1.1CM+1.1CMTorre+1.1CVI-1.1SX+0.33SY) Min	X	0.000171	0.000123	1.391
Planta Alta	23 1.1PP+1.1CM+1.1CMTorre+1.1CVI-1.1SX+0.33SY) Min	Y	0.000162	0.000126	1.287
Planta Baja	23 1.1PP+1.1CM+1.1CMTorre+1.1CVI-1.1SX+0.33SY) Min	X	0.000141	9.2E-05	1.542
Planta Baja	23 1.1PP+1.1CM+1.1CMTorre+1.1CVI-1.1SX+0.33SY) Min	Y	7E-05	4.8E-05	1.464
Planta Alta	24 1.1PP+1.1CM+1.1CMTorre+1.1CVI-1.1SX-0.33SY) Max	X	0.000236	0.000155	1.523
Planta Baja	24 1.1PP+1.1CM+1.1CMTorre+1.1CVI-1.1SX-0.33SY) Max	X	0.000135	8.8E-05	1.529
Planta Baja	24 1.1PP+1.1CM+1.1CMTorre+1.1CVI-1.1SX-0.33SY) Max	Y	3.8E-05	1.7E-05	2.202
Planta Alta	24 1.1PP+1.1CM+1.1CMTorre+1.1CVI-1.1SX-0.33SY) Min	X	0.000171	0.000123	1.391
Planta Alta	24 1.1PP+1.1CM+1.1CMTorre+1.1CVI-1.1SX-0.33SY) Min	Y	0.000162	0.000126	1.287
Planta Baja	24 1.1PP+1.1CM+1.1CMTorre+1.1CVI-1.1SX-0.33SY) Min	X	0.000141	9.2E-05	1.542
Planta Baja	24 1.1PP+1.1CM+1.1CMTorre+1.1CVI-1.1SX-0.33SY) Min	Y	7E-05	4.8E-05	1.464
Planta Alta	25 1.1PP+1.1CM+1.1CMTorre+1.1CVI+1.1SY+0.33SX) Max	X	0.000102	6.4E-05	1.577
Planta Baja	25 1.1PP+1.1CM+1.1CMTorre+1.1CVI+1.1SY+0.33SX) Max	X	4.5E-05	3E-05	1.483
Planta Baja	25 1.1PP+1.1CM+1.1CMTorre+1.1CVI+1.1SY+0.33SX) Max	Y	2.4E-05	1.8E-05	1.353
Planta Alta	25 1.1PP+1.1CM+1.1CMTorre+1.1CVI+1.1SY+0.33SX) Min	X	3.7E-05	3.2E-05	1.132
Planta Alta	25 1.1PP+1.1CM+1.1CMTorre+1.1CVI+1.1SY+0.33SX) Min	Y	0.000157	0.000137	1.142

Table 5.4 - Story Max/Avg Displacements (continued)

Story	Load Case/Combo	Direction	Maximum m	Average m	Ratio
Planta Baja	25 1.1PP+1.1CM+1.1CMTorre+1.1CVI+1.1SY+0.33SX) Min	X	5.2E-05	3.4E-05	1.524
Planta Baja	25 1.1PP+1.1CM+1.1CMTorre+1.1CVI+1.1SY+0.33SX) Min	Y	5.6E-05	4.8E-05	1.157
Planta Alta	26 1.1PP+1.1CM+1.1CMTorre+1.1CVI+1.1SY-0.33SX) Max	X	0.000102	6.4E-05	1.577
Planta Baja	26 1.1PP+1.1CM+1.1CMTorre+1.1CVI+1.1SY-0.33SX) Max	X	4.5E-05	3E-05	1.483
Planta Baja	26 1.1PP+1.1CM+1.1CMTorre+1.1CVI+1.1SY-0.33SX) Max	Y	2.4E-05	1.8E-05	1.353
Planta Alta	26 1.1PP+1.1CM+1.1CMTorre+1.1CVI+1.1SY-0.33SX) Min	X	3.7E-05	3.2E-05	1.132
Planta Alta	26 1.1PP+1.1CM+1.1CMTorre+1.1CVI+1.1SY-0.33SX) Min	Y	0.000157	0.000137	1.142
Planta Baja	26 1.1PP+1.1CM+1.1CMTorre+1.1CVI+1.1SY-0.33SX) Min	X	5.2E-05	3.4E-05	1.524
Planta Baja	26 1.1PP+1.1CM+1.1CMTorre+1.1CVI+1.1SY-0.33SX) Min	Y	5.6E-05	4.8E-05	1.157
Planta Alta	27 1.1PP+1.1CM+1.1CMTorre+1.1CVI-1.1SY+0.33SX) Max	X	0.000102	6.4E-05	1.577
Planta Baja	27 1.1PP+1.1CM+1.1CMTorre+1.1CVI-1.1SY+0.33SX) Max	X	4.5E-05	3E-05	1.483
Planta Baja	27 1.1PP+1.1CM+1.1CMTorre+1.1CVI-1.1SY+0.33SX) Max	Y	2.4E-05	1.8E-05	1.353
Planta Alta	27 1.1PP+1.1CM+1.1CMTorre+1.1CVI-1.1SY+0.33SX) Min	X	3.7E-05	3.2E-05	1.132
Planta Alta	27 1.1PP+1.1CM+1.1CMTorre+1.1CVI-1.1SY+0.33SX) Min	Y	0.000157	0.000137	1.142
Planta Baja	27 1.1PP+1.1CM+1.1CMTorre+1.1CVI-1.1SY+0.33SX) Min	X	5.2E-05	3.4E-05	1.524
Planta Baja	27 1.1PP+1.1CM+1.1CMTorre+1.1CVI-1.1SY+0.33SX) Min	Y	5.6E-05	4.8E-05	1.157
Planta Alta	28 1.1PP+1.1CM+1.1CMTorre+1.1CVI-1.1SY-0.33SX) Max	X	0.000102	6.4E-05	1.577
Planta Baja	28 1.1PP+1.1CM+1.1CMTorre+1.1CVI-1.1SY-0.33SX) Max	X	4.5E-05	3E-05	1.483
Planta Baja	28 1.1PP+1.1CM+1.1CMTorre+1.1CVI-1.1SY-0.33SX) Max	Y	2.4E-05	1.8E-05	1.353
Planta Alta	28 1.1PP+1.1CM+1.1CMTorre+1.1CVI-1.1SY-0.33SX) Min	X	3.7E-05	3.2E-05	1.132
Planta Alta	28 1.1PP+1.1CM+1.1CMTorre+1.1CVI-1.1SY-0.33SX) Min	Y	0.000157	0.000137	1.142
Planta Baja	28 1.1PP+1.1CM+1.1CMTorre+1.1CVI-1.1SY-0.33SX) Min	X	5.2E-05	3.4E-05	1.524
Planta Baja	28 1.1PP+1.1CM+1.1CMTorre+1.1CVI-1.1SY-0.33SX) Min	Y	5.6E-05	4.8E-05	1.157

Table 5.5 - Story Stiffness

Story	Load Case	Shear X tonf	Drift X m	Stiffness X tonf/m	Shear Y tonf	Drift Y m	Stiffness Y tonf/m
Planta Alta	SX	12.7526	4.5E-05	286452.314	1.0103	1.2E-05	0
Planta Baja	SX	19.3391	8E-05	241519.135	1.3616	2.3E-05	0
Planta Alta	SY	0.657	5E-06	0	11.4319	2.5E-05	460449.791
Planta Baja	SY	1.3616	5E-06	0	15.7468	2.3E-05	693898.817

5.3 Modal Results

Table 5.6 - Modal Periods and Frequencies

Case	Mode	Period sec	Frequency cyc/sec	Circular Frequency rad/sec	Eigenvalue rad ² /sec ²
Modal	1	0.107	9.376	58.9094	3470.3215
Modal	2	0.068	14.639	91.9801	8460.3394
Modal	3	0.065	15.346	96.4234	9297.4639
Modal	4	0.065	15.387	96.6793	9346.8882
Modal	5	0.055	18.29	114.9165	13205.8002
Modal	6	0.052	19.125	120.1673	14440.1735
Modal	7	0.046	21.646	136.0051	18497.3907

Table 5.6 - Modal Periods and Frequencies (continued)

Case	Mode	Period sec	Frequency cyc/sec	Circular Frequency rad/sec	Eigenvalue rad ² /sec ²
Modal	8	0.045	22.463	141.1404	19920.614
Modal	9	0.043	22.994	144.4747	20872.934
Modal	10	0.042	24.008	150.845	22754.227
Modal	11	0.039	25.581	160.7319	25834.752
Modal	12	0.039	25.692	161.4248	26057.9608